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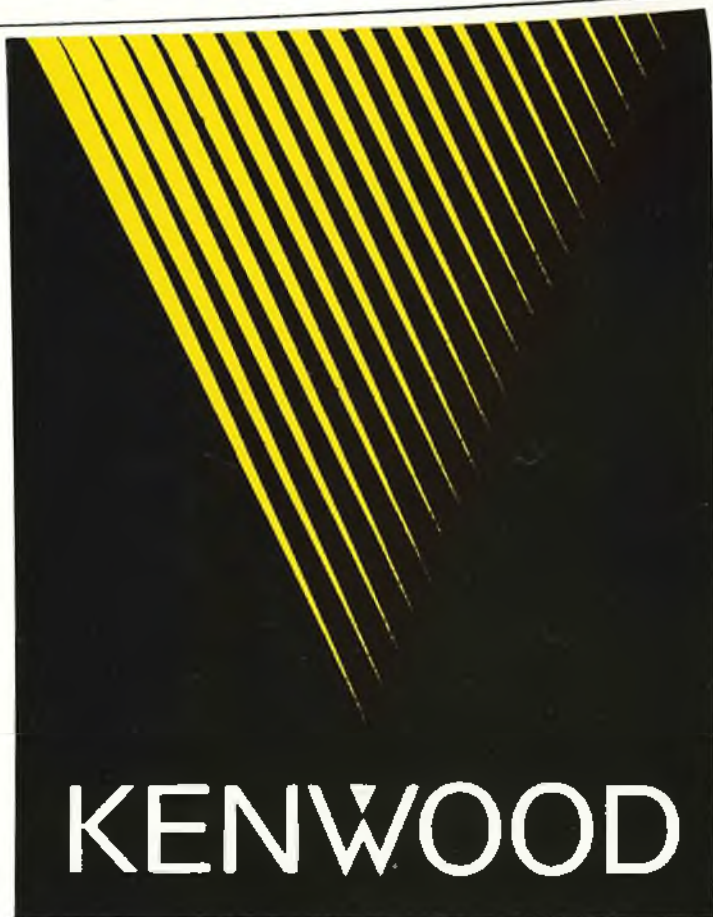
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(JUNE 1985)

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FROM THE EDITOR

Our cover this year depicts the logos involved in the big event in Auckland over the week November 11 to 17 when the New Zealand Association of Radio Transmitters (Inc.) will host the Sixth Conference of the International Amateur Radio Union, Region 3 Association. Delegates from Amateur Societies from all over the Pacific region will be joined with representatives from Great Britain and the United States at what will be the most important Amateur Radio Conference ever held in New Zealand.

With some very special guests from the International Telecommunications field having been invited there is expected to be significant media interest in the proceedings of this conference. A spin-off of this publicity will be increased public awareness of Amateur Radio and NZART. In the lead-up months to this conference, *Break-In* will inform members of details of this international event and a full report of the proceedings will appear in a special issue, cover dated December 1985.

Call Book 1985 has been extensively updated to ensure all information is the most current available. In addition a number of new features have been added, including an extension to the callsign listings of Amateur Operators in the Pacific Islands.

I believe that *Call Book* is the most often used reference that members possess. In the past I have sometimes found it difficult to locate various pages in a hurry, and to improve this I have altered the order of the contents drastically. I hope once you are familiar with the content of the *Call Book* and logical order which the entries are arranged, you will find *Call Book* easier to use.

Next year I will be working toward complete modernising *Call Book*. All entries will be completely re-written and many new details will be added. The size of the book will be changed and all pages will be reset in a more modern typeface. In preparation for this major overhaul, I require feedback from you, the member. Please drop me a note to advise what chapters you require added, extended, reduced, or deleted, and any other comments you wish to make. It's your *Call Book* . . . you be the judge.

Every year we sell a large number of *Call Books* to non-members. Consequently the *Call Book* is an excellent medium to advertise our hobby and our Association; and the better we can make the *Call Book* the better that promotion will be.

Charles Parton ZL3CP has been associated with the production of *Call Book* for over fifteen years. Many members are under the impression that the Callsign Listing in *Call Book* are just a reproduction of the New Zealand Post Office listings. This most definitely is not so. Unfortunately the NZPO listings are not the definitive data sets that they could be. The ultimate list is compiled by Charles from a number of sources—the NZPO, NZART membership print-out, the Wyatt & Wilson page data sets, members' correspondence, road maps and various other sources of information are amalgamated into Charles' list reproduced here, the most accurate available. What Charles does not know about Amateurs in New Zealand is not worth knowing. Now in his eightieth year, his experience, knowledge and dedication are some of the main reasons for the success of *Call Book*.

Non-members using and abusing NZART facilities annoy me! Especially annoying letters from non-members complaining that we have not changed or corrected their callsign listing. *Call Book* is an NZART document primarily for the use of NZART members. We have no obligation to non-members, who should advise the Post Office of any amendments required, as stated in the Radio Regulations.

Now that there is a special NZART portion of *Call Book* many of the advantages of membership can be seen at a glance. At ten cents a day it is a bargain.

To me it is worth a contribution of at least ten cents a day for the work being undertaken by the Association to ensure the retention of our privileges and frequencies in one of this world's most sought after resources, the radio spectrum. No one can deny that NZART has a proven record of providing the best possible case for the maintenance and improvement of the "rights" of New Zealand Amateurs. The competition for the radio spectrum can only get more intense in the future, and the fight must go on. NZART needs the assistance of all Amateur Radio Operators to ensure that your favourite bands and modes of operation will be available for you to use tomorrow.

Craig Crawford, ZL3T LB

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New Zealand Amateur Radio Stations

ZL1 Callsign Listings

- ZL1AA—Auckland Branch NZART (Inc.) (Trustees: G. Kilpatrick and T. Duxbury), Corner Kohimarama and St. Heliers Roads, P.O. Box 18-003, Auckland 6.
- ZL1AB—North Shore Branch NZART (Trustees: W. J. Briden, A. M. Wooler and J. F. Powell), 145 Beach Road, Castor Bay, Auckland 9.
- ZL1AC—Spackman, L. S., 136 Churchill Road, Rothesay Bay, Auckland 10.
- ZL1AD—Cuthbert, D. McM., 18 Earnoch Avenue, Takapuna, Auckland 9.
- ZL1AE—Duffin, R. W., 60 Church Road, Napier.
- ZL1AF—Ogier, I. W., 147 Olaika Road, Whangarei.
- ZL1AG—Gilbert, L. H., 3b Lillian Place, Orewa.
- ZL1AH—Wightman, J. D., Rocky Cutting Road, R.D. 5, Tauranga.
- ZL1AI—Badman, R. G., 22 Somme Crescent, Hillcrest, Hamilton.
- ZL1AJ—Culloty, H. F. J., 5 May Street, Hillcrest, Hamilton.
- ZL1AK—
- ZL1AL—
- ZL1AM—Northland Branch NZART (Inc.) (Trustees: D. Birt and I. W. Ogier), 12 Ngahere Drive, Maunu, Whangarei.
- ZL1AN—Bold, G. E. J., 15 Kauri Road, Birkenhead, Auckland 10.
- ZL1AO—Limbrick, D. R., 45 Lynden Avenue, Northcote, Auckland 9.
- ZL1AP—Den Exter, J. M. G., 184 Rangatira Road, Birkdale, Auckland 10. P.O. Box 39-369, Auckland West.
- ZL1AQ—Rouse, G. C., 1 Mears Road, Hamilton.
- ZL1AR—Walsh, J. S., Maungatapu Road, Glenfalls, R.D. 1, Morrinsville.
- ZL1AS—McRae, I. H., Flat 1, 19 Church Street, Northcote, Auckland 9.
- ZL1AT—Pawson, E., 6 County Road, Torbay, Auckland 10.
- ZL1AU—
- ZL1AV—Tremayne, D. T., Spencer Road, Lake Tarawera, Rotorua.
- ZL1AW—Bailey, C. A., 261 Papamoa Beach Road, R.D. 7, Te Puke.
- ZL1AX—Crooks, G. E., 12 Red Beach Road, Orewa.
- ZL1AY—Henry, A. E. J., 23 Pah Road, Onerahi, Whangarei.
- ZL1AZ—Brown, M. A., 38 Cyclarama Crescent, Massey, Auckland 8.
- ZL1BA—Scarborough, W. A., P.O. Box 26-028, Epsom, Auckland 3.
- ZL1BB—Bunting, A. B., 3 Hillary Heights Avenue, Henderson, Auckland 8.
- ZL1BC—Smith, K. E., 12 Montgomery Crescent, Melville, Hamilton.
- ZL1BD—Wilson, A., Waingaro Road, R.D. 1, Ngaruawahia.
- ZL1BE—Rose, L. T., 230 Morningside Road, Whangarei.
- ZL1BF—Hall, R. J., 73 Te Kanawa Street, Henderson, Auckland 3.
- ZL1BG—Far North Districts Amateur Radio Club, 8 North Road, Kaitiaki.
- ZL1BH—Creasy, S. C., 7 Crowther Terrace, Taupo.
- ZL1BI—Freeman, S. J., 236a Scenic Drive, Titirangi, Auckland 7.
- ZL1BJ—Llewellyn, J. D., 7 Moreland Road, Mt. Albert, Auckland 3.
- ZL1BK—Long, R. J., 175 Green Lane Road, Green Lane, Auckland 5.
- ZL1BL—Chew, J. B., Wight Street, Huntly.
- ZL1BM—Palmer, P. R., 4 Aramulu Road, Mt. Roskill, Auckland 4.
- ZL1BN—Kirkwood B. J., 147 John Street, Ponsonby, Auckland 2.
- ZL1BO—Laing-Smith, I. E., 3 Westmorland Street, Grey Lynn, Auckland 2.
- ZL1BP—Harris, W. F. H., 80 Roberts Road, Te Atatu South, Auckland 8.
- ZL1BQ—The Auckland VHF Group (Trustee: J. R. Dunn), Hazel Avenue, Mt. Roskill, Auckland 4. P.O. Box 10-136 Balmoral.
- ZL1BR—Hanson, K. O., 10 Shelly Beach Road, Surfdale, Waiheke Island.
- ZL1BS—Bisley, A. F. S., 27 Awatere Avenue, Hamilton.
- ZL1BT—Thorpe, G. B., 19 Rolleston Street, Kihikihi.
- ZL1BU—Kealey, D. T., 64a Lloyd Avenue, Mt. Albert, Auckland 3.
- ZL1BV—Birch, R. W., Riverside Drive, Whangarei.
- ZL1BW—Secombe, A. R., 2 Mt. Royal Avenue, Mt. Albert, Auckland 3.
- ZL1BX—Smith, M. A., 32 Glenveagh Drive, Hillsborough, Auckland 4.
- ZL1BY—Opotiki Branch 72 NZART (Trustee: G. J. Pedersen), Club Rooms, St. John Street, Opotiki.
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- ZL1CG—Pemberton, R. V., 24 Punga Grove Road, Whangarei.
- ZL1CH—Boyd, H. A., 13 Budock Road, Mt. Roskill, Auckland 4.
- ZL1CI—Wight, C. A., Puke Road, Paeroa.
- ZL1CJ—Smith, B. W., Ruawaro No. 2 R.D., Huntly.
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- ZL1CO—Birss, T. H. N., Kahawai Road, Glenbrook, R.D. 1, Waiuku.
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- ZL1CQ—
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- ZL1CT—Stubbs, G. L., 12 Kenneth Hopper Place, Whangaparaoa.
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- ZL1CZ—Duxbury, T. A., 338 St. Heliers Bay Road, Auckland 5.
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- ZL1DC—
- ZL1DD—Foster, A. E. G., P.O. Box 215, Ostend, Waiheke Is.

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ZL1IW—McEwan, W. N., 6 Kelly Place, Howick, Auckland.

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ZL1LM

ZL1JS—Baker, M. R., Attwood Road, Tamaterau, R.D. 4, Whangarei.

ZL1JT—Turnwald, J. B., 29 Cliffview Drive, Green Bay, Auckland 7.

ZL1JU—Teviotdale, B. M., Fairbank Road, Rotorua.

ZL1JV—

ZL1JW—Richards, J. L., 39 Seaside Avenue, Avondale, Auckland 7.

ZL1JX—Hayward, L. D., 18 Ballater Place, Howick, Auckland.

ZL1JY—Field, A. N., 81 Freyberg Street, Tauranga.

ZL1JZ—Davison, P. W., Poland Street, Waikino.

ZL1KA—Bridger, J., 18 Fend Street, Hamilton.

ZL1KB—Thomson, D. D., C/- Meadowbank Rest Home, 154 Meadowbank Road, Auckland 5.

ZL1KC—

ZL1KD—Lacey, A. R., 33 Burwood Road, Matamata.

ZL1KE—Carter, L. J., 26 Freya Place, Torbay, Auckland 10.

ZL1KF—Cholmondeley-Smith, D. R., 20 Sharon Road, Waiake, Auckland 10.

ZL1KG—Ramsay, R. J., 120 Kamo Road, Whangarei.

ZL1KH—Shepherd, B. C., 26 Church Street, Onerahi, Whangarei.

ZL1KI—Horwood, E. W., 233 King Street, Whakatane.

ZL1KJ—Harvey, R. S., 5 Mays Road, Orehunga, Auckland 6.

ZL1KK—Carter, N. A. W., 50 Victoria Avenue, Whakatane.

ZL1KL—Paton, E. J., 32 Pohutukawa Road, Whenuapai.

ZL1KM—Gardner, D. R., 111 Hinemoa Street, Rotorua.

ZL1KN—McLeod, R. McD., Dinsdale Road, Frankton.

ZL1KO—Barlow, R., Banks Road, Matamata.

ZL1KP—Milburn, H. T., St. James Avenue, Helensville.

ZL1KQ—Small, J., 32 Paddington Street, Glen Innes, Auckland 6.

ZL1KR—Crocker, G., 3/5 Troy Place, Glendowie, Auckland 5.

ZL1KS—Murray, S. J., 87 Swanson Road, Henderson, Auckland 8.

ZL1KT—Teviotdale, D. A., Fairbank Road, Rotorua.

ZL1KU—Oliver, M. J., Coopers Beach, C/- P.O. Mangonui.

ZL1KV—

ZL1KW—Kawerau Branch NZART (Trustee: G. R. W. Whitwell), ATC Hall, Onslow Street, Kawerau.

ZL1KX—Walford, K. W., 7 Glen Street, Castlecliffe, Wanganui.

ZL1KY—Yearsley, E. S., 37A Hattaway Avenue, Bucklands Beach, Auckland.

ZL1KZ—

ZL1LA—Rolfe, R. L., 16 Stillwater Crescent, R.D. 3, Silverdale.

ZL1LB—Laurent, L. M., 3 Grande Vue Road, Manurewa, Auckland.

ZL1LC—Bird, W. A., 239 Nelson Street, Invercargill.

ZL1LD—Williams, P. M. (Mrs), 144 Titirangi Road, New Lynn, Auckland 7.

ZL1LE—Egan, B., 12 Island View Terrace, Howick, Auckland.

ZL1LF—Elder, J. W., 17 Cedar Road, Mt. Eden, Auckland 4.

ZL1LG—Anderson-Smith, W. J., 10 Beach Road, Omokoroa, Tauranga.

ZL1LH—Cowie, D. J., 52 Prince Regent Drive, Bucklands Beach, Auckland.

ZL1LI—Hughes, P. D., 85 Pupuke Road, Birkenhead, Auckland 10.

ZL1LJ—Speight, R. R., 42 Ngatiawa Street, Orehunga, Auckland 6.

ZL1LK—

ZL1LL—Cook, S., 27 Neville Street, Point Chevalier, Auckland 2.

ZL1LM—Marsden, A. N., 9 Wanaka Place, Pakuranga, Auckland.

ZL1LN

ZL1LN—Simmons, A. L., 69 Roberts Avenue Extension, Bayswater, Auckland 9.
 ZL1LO—Robinson, I., 102 Eban Avenue, Northcote, Auckland 9.
 ZL1LP—Parsons, E. R., 10 Bridgeman Road, Te Awamutu.
 ZL1LO—Ball, W. G., 50 Hillside Road, Otahuhu, Auckland 6.
 ZL1LR—Anderson, P. C., 32 Gilmore Street, Waihi.
 ZL1LS—
 ZL1LT—Edwards, J. R., Messengers Road, R.D. 3, Silverdale.
 ZL1LU—
 ZL1LV—Beagley, C. T., 13 Namata Street, Onehunga, Auckland 6.
 ZL1LW—Prinn, G. W. H., 199 Whatawhata Road, Dinsdale, Hamilton.
 ZL1LX—Bartrop, C., 228 Old Taupo Road, Taumarunui.
 ZL1LY—
 ZL1LZ—Dunwoody, M. L., 14 Bridgeman Road, Te Awamutu.
 ZL1MA—Small, T. H., 32b Martin Road, Manurewa.
 ZL1MB—Farley, W. F., 8 Puriri Avenue, Te Puke.
 ZL1MC—Hume, S. T., 17 Humber Crescent, Gate Pa, Tauranga.
 ZL1MD—
 ZL1ME—Geard, M., 1/30a Walter Street, Takapuna, Auckland 9.
 ZL1MF—Crabtree, A. W., Martin Road, Waihi.
 ZL1MG—Moore, J. P., 29 Valley Road, Rocky Bay, Waiheke Island.
 ZL1MH—Veale, A. M. O., 31 Rangitoto Avenue, Remuera, Auckland 5.
 ZL1MI—Carter, W. L., Ongarue, R.D., Taumarunui.
 ZL1MJ—Schwass, B. R., 24 Mokorua Grove, Whakatane.
 ZL1MK—Keeley, A. L. D., 100 Shakespeare Street, Leamington, Cambridge.
 ZL1ML—Lee, M. E., 31 O'Brien Road, Rocky Bay, Waiheke Island.
 ZL1MM—Garde-Browne, M., Katikati, Bowentown Road, Athenvee, R.D. 2.
 ZL1MN—Nisbet, D. I., 4 Williams Avenue, Kaikohe.
 ZL1MO—Spackman, I. H., 78 Waima Crescent, Titirangi, Auckland 7.
 ZL1MP—Poulton, G. G., 7 Rickard Place, New Lynn, Auckland 7.
 ZL1MQ—Betson, C. W., 140 Golf Road, Green Bay, Auckland 7.
 ZL1MR—Irwin, P. M., 29 Glendale Road, Whangarei.
 ZL1MS—Inder, J. H., 19 Rushton Avenue, Otumoetai, Tauranga.
 ZL1MT—Stevens, W. A. W., 11/97 Vermont Street, F. Insonby, Auckland 2.
 ZL1MU—Crooks, D. M., 13 Burrows Avenue, Karori, Wellington 5.
 ZL1MV—Garrard, R. C., 235b Titirangi Road, Auckland 7.
 ZL1MW—Huggard, B. F., 12 McClintock Road, Massey, Auckland 8.
 ZL1MX—Currie, D. J., 127 Ridge Road, Howick.
 ZL1MY—Jamieson, A. S. (Miss), 99 Frederick Street, Hillsborough, Auckland 6.
 ZL1MZ—Karl, P. J., Main Road, Ohapou.
 ZL1NA—Wilson, G. D. 1, Mt. Roskill Road, Mt. Roskill, Auckland 4.
 ZL1NB—Hitch, G. W., 167 Happy Valley Road, Wellington.
 ZL1NC—Miller, J. G., 31 Sierra Street, Glendowie, Auckland 5.
 ZL1ND—Cobbe, D. J., C/- D. T. Tremayne, 149 Spencer Road, Lake Tarawera, Rotorua.
 ZL1NE—Bustard, A. J., 34 Raurimu Avenue, Onerahi, Whangarei.
 ZL1NF—Garrett, R., 13 Rockisle Road, Torbay, Auckland 10.
 ZL1NG—Muller, J., 29 Newhaven Terrace, Mairangi Bay, Auckland 10.

ZL1NH—White, N. R., Norton Road, Otumoetai, Tauranga.
 ZL1NI—
 ZL1NJ—Ecclesfield, B. D., 1333 Cameron Road, Greerton, Tauranga.
 ZL1NK—Mander, N. K., 38 Arundel Street, Mt. Roskill, Auckland 4.
 ZL1NL—Openshaw, J. E., Werenui Road, R.D. 3, Kaukapakapa.
 ZL1NM—Crocker, T. W., 70 Rosehill Drive, Papakura.
 ZL1NN—Douglas, J. W., 91 Churchill Road, Murrays Bay, Auckland 10.
 ZL1NO—Leyden, G. G., 35 Rogers Road, Manurewa.
 ZL1NP—Skepelhorn, A. M., 20 Kemp Road, Massey, Auckland.
 ZL1NQ—Barrell, S. J., 26 Mains Avenue, Whangarei.
 ZL1NR—Edmonds, J. A., 92 Beach Road, Ahipara.
 ZL1NS—Kisby, M. R., 16 Abbotleigh Avenue, Te Atatu North.
 ZL1NT—Hill, B. J., 169 Rimu Street, Hamilton.
 ZL1NU—Griffiths, K. B., 142 Glengarry Road, Glen Eden, Auckland 7.
 ZL1NV—Page, I. T., 77 Campbell Road, Mt. Maunganui.
 ZL1NW—Mason, M. D., 11 Strange Grove, Otumoetai, Tauranga.
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 ZL1NY—Fraser, D., 8 Wayne Place, Mt. Roskill, Auckland 4.
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 ZL1OA—Jack, M. C., 14 Ellen Avenue, Takapuna, Auckland 10.
 ZL1OB—Northern Wairoa Electronics Club, Local Government Centre, Hokiang Road, Dargaville.
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 ZL1OG—Lambie, L. B., 22 Kavanagh Place, Papakura, Auckland.
 ZL1OH—Fairhead, A. D., 55 Patterson Avenue, Mission Bay, Auckland 5.
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 ZL1OJ—Dowling, H. J., 52 Aurora Terrace, Hillcrest, Hamilton.
 ZL1OK—Moir, E. V., 110 Western Hills Drive, Whangarei.
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 ZL1OM—Windsor, K. W., 36 Chatswood Grove, Birkenhead, Auckland 10.
 ZL1ON—Eglinton, G. K., 20 Mahoe Street, Matua, Tauranga.
 ZL1OO—Dreaver, B. G. W., 7 Matipo Road, Te Atatu North, Auckland 8.
 ZL1OP—White, I. H., 150 Kent Street, Carterton.
 ZL1OQ—Renfrew, H. F., 12 Kasper Street, Warkworth.
 ZL1OR—Mullions, R. E., 37 Williams Avenue, Morrinsville.
 ZL1OS—Rogers, G. V., 142b Clyde Street, Hamilton.
 ZL1OT—Jacobson, E. J., Maromaku, Bay of Islands.
 ZL1OU—Berry, D. C., 47d Kingsway Avenue, Sandringham, Auckland 3.
 ZL1OV—Kirtan, F. N., 14 Dennis Avenue, Manurewa.
 ZL1OW—Burrows, J. W. L., R.D. 1, Lower Kaimai, Tauranga.
 ZL1OX—
 ZL1OY—Mudford, K. H., Pikonui Road, Richmond Downs, R.D. 1, Walton.
 ZL1OZ—Mason, J. A., P.O. Box 30, Swanson.
 ZL1PA—Papworth, A. G., 5 Lilburn Street, Warkworth.
 ZL1PB—Hanton, K. R., 1/2 Pine Road, Orewa.
 ZL1PC—Lewis, E. C., 54 Sylvan Avenue, Woodlands Park, Titirangi, Auckland 7.

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 ZL1PE—Ward, M. R., 17 Mizpah Road, Browns Bay, Auckland 10.
 ZL1PF—Conlon, P. W., 166b Hinemoa Street, Rotorua.
 ZL1PG—Morgan, J. A., 38 Dreadon Road, Manurewa.
 ZL1PH—Yates, C. M., Linwood Road, Karaka, R.D. 1, Papakura.
 ZL1PI—McDonald, A. K., 8 Francis Street, Whakatane.
 ZL1PJ—Dare, P. H., 19 Glenfield Road, Rotorua.
 ZL1PK—King, P. D., 75 Mount View Drive, Rotorua.
 ZL1PL—Grise, M. J., 109 Norwood Road, Bayswater, Auckland 9.
 ZL1PM—
 ZL1PN—Briden, W. J., 576a Beach Road, Rothersey Bay, Auckland 10.
 ZL1PO—Bullin, G. K., 32 Otumoetai Road, Tauranga.
 ZL1PP—Smithson, G. W., C/- Trevellyn Home, 1340 Victoria Street, Hamilton.
 ZL1PQ—Kirkpatrick, J. S., 7 Robertson Road, Mangere, Auckland.
 ZL1PR—Farrell, J. F., Old Taupiri Road, Ngaruawahia.
 ZL1PS—Brown, T. G., 2 Hilston Place, Onehunga, Auckland 6.
 ZL1PT—Twiss, D. P. L., M.V. Kiwa/ZMH 2205, Sulphur Point, Tauranga.
 ZL1PU—Nathan, I. J., Unit 2, 6 Snead Place, Hamilton.
 ZL1PV—Guide, N. G., 182 16th Avenue, Tauranga.
 ZL1PW—Wrigley, P. H., 16 Glover Place, Onerahi, Whangarei.
 ZL1PX—Marlin, H. L., 25 Cockayne Crescent, Sunnynook, Auckland 10.
 ZL1PY—
 ZL1PZ—Sexton, I. M., 10 Fair Oaks, Pukekohe.
 ZL1QA—Yeats, C. Whitford Road, Whitford.
 ZL1QB—Manukau Branch NZART (Trustees: N. H. Dunningham, W. K. Leng), 8 Guide Place, Kolmar Road, Papatoetoe.
 ZL1QC—Strachan, J. M., 44 Stredwick Drive, Torbay, Auckland 10.
 ZL1QD—Richards, T. L., 18 Thompson Street, Wellington 1.
 ZL1QE—Pullar, J. C., 7 Waterlea Avenue, Mangere Bridge, Auckland.
 ZL1QF—Kirkwood, C. P., 1 Zenith Place, Conifer Grove, Takanini.
 ZL1QG—Morris, D. C., 5 Woodside Road, Henderson, Auckland 8.
 ZL1QH—Cooke, S. R., 166 Ridge Road, Howick, Auckland.
 ZL1QI—Gillett, P. A., 11 Argyll Road, Tauranga.
 ZL1QJ—
 ZL1QK—Stone, W. H., 5 Winslowe Place, Papakura.
 ZL1QL—Borck, L. J. F., 6 Curtis Street, Whangarei.
 ZL1QM—Ockleston, G. W., 17 Bracken Avenue, Epsom, Auckland 3.
 ZL1QN—Hedges, K., 244 Titirangi Road, Auckland 7.
 ZL1QO—Elowsson, B. W., 9 Sanctuary Point, Pakuranga.
 ZL1QP—Breden, J. E., 14 Korawhai Street, Mt. Maunganui.
 ZL1QQ—Bush, G. H., 24 Rushton Avenue, Otumoetai, Tauranga.
 ZL1QR—Thomas, W. R., 74 Kitenui Avenue, Mt. Albert, Auckland 3.
 ZL1QS—Mason, J. F., 59 Lancaster Road, Birkdale, Auckland 10.
 ZL1QT—Presswood, W. H., 61 Bream Bay Drive, Ruakaka, Northland.
 ZL1QU—Marshall, J. R., 14 Hapua Place, Taupo.
 ZL1QV—Young, L. G. "Brooklands", Harkness Road, R.D. 1, Papakura.
 ZL1QW—Binnie, A. G., 703 New North Road, Mt. Albert, Auckland 3.
 ZL1QX—Mowatt, G. C., 37 Cliff Road, St. Heliers, Auckland 5.

ZL1SR

ZL1QY—Williams, R. G., 60 The Parade, Bucklands Beach, Auckland.
 ZL1QZ—Rhodes, M. C. L., 24 Comins Crescent, Mission Bay, Auckland 5.
 ZL1RA—Waddell, A. S., One Tree Point Road, Ruakaka.
 ZL1RB—Grant, E. W., Barry Road, Waihi.
 ZL1RC—Saunders, A. G., 935 Heaphy Terrace, Claudelands, Hamilton.
 ZL1RD—Stewart, T. K., 237 Birkdale Road, Birkenhead, Auckland 10.
 ZL1RE—Roper, D. J., 39a Mataura Road, Waihi.
 ZL1RF—Matamata Amateur Radio Club (Trustee: J. W. Rasmussen), 65 Smith Street, Matamata.
 ZL1RG—Rentoul, J. M., 15 McCracken Avenue, Hamilton.
 ZL1RH—Claridge, A. R. C., Waitetoko, P.B. Turangi.
 ZL1RI—McLaughlin, J., 60 Awatere Avenue, Beerscourt, Hamilton.
 ZL1RJ—Jarlov, R. W. E., 85 Mallard Drive, Rotorua.
 ZL1RK—Western Suburbs Radio Club (Trustee: N. E. Smith and G. L. Wilson) P.O. Box 15-122, New Lynn, Auckland 7.
 ZL1RL—Fitchett, S. A., 2 Kahu Road, Panmure, Auckland 6.
 ZL1RM—Jeffs, J. F. C., 77 Pohutukawa Drive, Hamilton.
 ZL1RN—Lewis, K. J., 25 Magee Place, Hamilton.
 ZL1RO—Knox, A. T., 11 Hasbury Avenue, Epsom, Auckland 3.
 ZL1RP—Bryce, D. G., 95 Awatapu Drive, Whakatane.
 ZL1RQ—
 ZL1RR—Ryan, D. F., 129 Cook Street, Howick.
 ZL1RS—Boggiss, R. J., 8 Silverton Road, Waihi.
 ZL1RT—Maginnity, D., 3/18 John Street, Raglan.
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 ZL1RV—Gilbert, J. L., Flat 1a, 75 Owens Road, Epsom, Auckland 3.
 ZL1RW—Wilson, R. M., 78a Arney Road, Remuera, Auckland 5.
 ZL1RX—McConchie, A. G., 86 Ivanhoe Road, Grey Lynn, Auckland 2.
 ZL1RY—Shimmin, R. L., 130 Union Road, Howick, Auckland.
 ZL1RZ—Shead, K. F. S., 57 Pleasant Road, Glen Eden, Auckland 7.
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 ZL1SB—Sapich, S., Forest Hill Road, R.D. 1, Henderson, Auckland 8.
 ZL1SC—Corrigan, M. L., 110b Hillside Road, Glenfield, Auckland 10.
 ZL1SD—Colquhoun, R.D. 2, Tay Street, Grey Lynn, Auckland 2.
 ZL1SE—Riddle, W. C. M., 22 Maihi Crescent, Maungatapu, Tauranga.
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 ZL1SG—
 ZL1SH—Adair, M. W., 41 Seavista Avenue, Birkdale, Auckland 10.
 ZL1SI—Caskie, W. I., 35 Peter Buck Road, Avondale, Auckland 7.
 ZL1SJ—Holmes, G. C., 22 Pigeon Mountain Road, Bucklands Beach.
 ZL1SK—Thomas, M. R., 52 Bollard Avenue, Avondale, Auckland 7.
 ZL1SL—Pratt, N. G., 28 Seaspray Drive, Bucklands Beach, Auckland.
 ZL1SM—Halligan, D. A., 72 Shetland Street, Glen Eden, Auckland 7.
 ZL1SN—King, P. G., R.D. 10, Frankton.
 ZL1SO—Miller, R. L., 52 Hinekura Avenue, Taupo.
 ZL1SP—
 ZL1SQ—Van Den Heuvel, T., 9 Laing Place, Otumoetai, Tauranga.
 ZL1SR—Coppell, B. L., 128A James Street, Whakatane.

ZL1SS

ZL1SS—Skellon, D. B., 36 Mountbatten Avenue, Glenfield, Auckland 10.

ZL1ST—Smith, N. E., 7 Kelwyn Road, Kelston, Auckland 7.

ZL1SU—MacDiamid, D. R. N., Hone Heke Road, Kerikeri.

ZL1SV—Perkins, J. A., 2 Ponui Place, Mairangi Bay, Auckland 10.

ZL1SW—Curling, L. K., 14 Clotworthy Crescent, Onerahi, Whangarei.

ZL1SX—Kirkham, A. L., 38 Waller Avenue, Bucklands Beach.

ZL1SY—Adult Rehabilitation Unit Radio Club (Trustees: J. I. Ridpath, P. R. Moroney), Browns Road, Manurewa.

ZL1SZ—Evans, M. J., 62 Henderson Street, Whakatane.

ZL1TA—Mortensen, N. R., 16 Melrose Road, Hillsborough, Auckland 4.

ZL1TB—

ZL1TC—Metcalfe, A. D., 24 Hogan Street, Hamilton.

ZL1TD—Corby, D. G., R.D. 1, Paeroa.

ZL1TE—Lynneberg, R., 15 Terewha Street, Turangi.

ZL1TF—Morrison, I. McG., 31a Telstar Place, Birkenhead, Auckland 10.

ZL1TG—Rumming, E., 50 Corlett Street, Rotorua.

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ZL1TI—Godkin, I. P., 45 The Boulevard, Pakuranga.

ZL1TJ—Matthys, J. K. C., 2 Thwaites Place, Cambridge.

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ZL1TL—

ZL1TM—Spence, K. L. J., 28 Chorley Avenue, Henderson, Auckland 8.

ZL1TN—Barron, K. H., 230 Riddell Road, Glendowie, Auckland 5.

ZL1TO—Potter, J. W., West Coast Road, Oratia, Auckland 7.

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ZL1TS—Prentice, L. G., 5 Mountain View Road, Morningside, Auckland 3.

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ZL1TU—Bond, P. L., 1340 Whangaparaoa Road, Whangaparaoa.

ZL1TV—Willis, B. G., 1/13 Park Avenue, Takapuna, Auckland 9.

ZL1TW—Barnett, E. K., Bethlehem, R.D. 1, Tauranga.

ZL1TX—Davis, G. P., C/- E. I. C. Office, Wellington.

ZL1TY—Monk, W. K. G., Matipo Avenue, Rotorua.

ZL1TZ—Stewart, G. W., 31 Levers Road, Tauranga.

ZL1UA—Harvey, J. K., 2 West Street, Waihi Beach (P.O. Box 10).

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ZL1UE—Williams, M. K., Jury Road, R.D. 10, Frankton.

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ZL1UG—

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ZL1UK—Beech, S. C., 53 Pupuke Road, Northcote, Auckland 9.

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ZL1UM—Chamberlin, J. H. W., Kawakawa Bay Road, Clevedon.

ZL1UN—Allard, R. A., 84 Ballarat Street, Ellerslie, Auckland 5.

ZL1UO—Reilly, J. F., 2 Vale Street, Tauranga.

ZL1UP—

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ZL1UR—Dixey, H. B., 51 Tautari Street, Orakei, Auckland 5.

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ZL1UU—Twadell, A. S., 66 Reeves Road, Pakuranga.

ZL1UV—Morch, J. H. S., 65 Hailberry Road, Mangere East, Auckland.

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ZL1UY—

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ZL1VN—McKain, M. L., 17 Tupaea Place, Cherrywood, Tauranga.

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ZL1VR—Gilligan, C. R., 201 McQuarrie Street, Invercargill.

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ZL1VU—

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 ZL1WG—Boric, H. V., 27 Clearly Road, Panmure, Auckland 6.
 ZL1WH—Coe, P. H., 68 Elizabeth Street, Taupo.
 ZL1WI—Milam, R. E., 184 Sturges Road, Henderson, Auckland 8.
 ZL1WJ—Sainsbury, J. R. D., 15 Beechwood Road, Browns Bay, Auckland 10.
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 ZL1WL—Clarke, R. F. R., 26 Kendale Drive, Mathesons Bay, Leigh, Auckland.
 ZL1WM—Hill, E. J., 16 Kensington Avenue, Whangarei.
 ZL1WN—Evans, G. E., 10 Neems Place, Manurewa.
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 ZL1WT—Cummins, S. C., 80 Pakura Street, Te Awamutu.
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 ZL1WV—Fleetwood, F., 2/10 Tina Place, Pakuranga, Auckland.
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 ZL1WX—Marshall, A. T., 4 Links Avenue, Mt. Maunganui.
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 ZL1AAC—Hammond, K. F., 14 Coppelia Avenue, Omokoroa, R.D. 2, Tauranga.
 ZL1AAD—
 ZL1AAE—Yearsley, J. K., R.D. 6, Tauranga.
 ZL1AAF—Walker, R. L., 273 Taupo Road, Taumarunui.
 ZL1AAG—Hutchinson, J. A., 16 Walter Park, Whakatane.
 ZL1AAH—Backhouse, R. B., Ararimu Valley Road, R.D. 2, Waimauku.
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 ZL1AAK—Stephens, C. H. L., 56 Karaka Street, Takapuna, Auckland 9.
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 ZL1AAY—King, O. L., 8 Gracechurch Drive, Papatoetoe.

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 ZL1ABD—Wise, F. B., 187 Edmonton Road, Te Atatu South, Auckland.
 ZL1ABE—Lawrence, A. E., 7 Te Hono Street, Maungatapu.
 ZL1ABF—Rubie, E. S., 14 Ambler Avenue, Glen Eden, Auckland 7.
 ZL1ABG—Rae, D., No. 12 Pirika Street, Dargaville.
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 ZL1ABI—Maggs, A. R., 32 Potter Avenue, Northcote, Auckland 9.
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 ZL1ABK—
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 ZL1ABN—Reay, M. J. F., 76 Carrington Avenue, Hamilton.
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 ZL1ABR—Skinner, R. E., Seddon Avenue, Waihi.
 ZL1ABS—Sheffield, M. J., 1 R.D., Greenhithe, Auckland.
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 ZL1ACF—Abbott, P. N., 1 Douglas McLean Avenue, Napier.
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 ZL1ACR—Ramsay, F. M., Te Ranga Estate, R.D. 4, Kaeo.
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 ZL1ACU—Mt. Albert Grammar School Radio Hobbies Club, (Trustees: I. A. Gee and N. A. Walker), Alberton Avenue, Mt. Albert, Auckland 3.
 ZL1ACV—

ZL1ACW

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 ZL1ADB—Ataya, P. G. E. G., 4204 Great North Road, Henderson, Auckland 8.
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 ZL1ADD—Irvine, E. B., 26 Dudley Avenue, Huntly.
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 ZL1ADG—Hunt, C. W., C/- Post Office, Hangatiki, S.H. 3, Otorohanga.
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 ZL1ADL—Wilkins, D. N., 5 Elhel Street, Sandringham, Auckland 3.
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 ZL1ADN—Piggott, J. K., 1022 East Coast Road, Auckland 10.
 ZL1ADO—Sullivan, J. K., 153 St. Helier's Bay Road, St. Heliers Bay, Auckland 5.
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 ZL1ADQ—Lawrence, P., 36 Patons Road, Howick.
 ZL1ADR—Dickin, R., C/- Dickins Florist, Broadway, Matamata.
 ZL1ADR—Dickin, R., Matamata, C/- Dickin's Forest, Broadway.
 ZL1ADS—Tibbles, E. J., 19 Kotanui Street, Army Bay, Whangaparaoa.
 ZL1ADT—Orr, K. R., 127 Grafton Road, Grafton, Auckland 3.
 ZL1ADU—Warren, N. G., 2 Albert Road, Papatoetoe.
 ZL1ADV—Crutcher, L. R., 2/45 Millen Avenue, Pakuranga.
 ZL1ADW—Clark, B. E., 88 Lincoln Park Avenue, Henderson, Auckland 8.
 ZL1ADX—The Church of Jesus Christ of Latter Day Saints, (Trustee: N. K. Thompson), 11 Huron Street, Takapuna, Auckland 9.
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 ZL1AFD—Osborne, R., 117 Matua Road, Tauranga.
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 ZL1AFF—
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 ZL1AFH—McGeachie, T., 2 Rata Road, Devonport, Auckland 9.
 ZL1AFI—
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 ZL1AFM—

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 ZL1AGI—Gardener, R. S., 44 Masters Avenue, Hamilton.
 ZL1AGJ—
 ZL1AGK—Bradfield, D. S., 183d Clarkin Road, Hamilton.
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 ZL1AGP—Horwood, H., 233 King Street, Whakatane.
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 ZL1AGU—Sterling, I. H., 27 Cromwell Street, Mt. Eden, Auckland 3.
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 ZL1AMC—
 ZL1AMD—Turner, C. T., 20 Gwilliam Place, Auckland Central.
 ZL1AME—Crook, F. G., 12 Ascot Avenue, Devenport, Auckland 9.
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 ZL1AYM—Tennant, C. H., 4 Brent Place, Manurewa.
 ZL1AYN—Lowe, R. A., 64 Taumahi Street, Bulls.
 ZL1AYO—Seaman, H. A., 86 Taylor Street, Blockhouse Bay, Auckland 7.
 ZL1AYP—Pickles, D. S., 371 Pakuranga Road, Pakuranga, Auckland.
 ZL1AYQ—Mairdonald, J. D., 17 McKenzie Road, Owata, Rotorua.
 ZL1AYR—Hylands, R. J., 37 Princess Street, Northcote, Auckland 9.
 ZL1AYS—Stewart, R. W., 232 Great South Road, Remuera, Auckland 5.
 ZL1AYT—Valois, D. A., 46 McDowell Crescent, Birkenhead, Auckland 10.
 ZL1AYU—Thorley, A., 50 Cosgrave Road, Papakura.
 ZL1AYV—Dingley, M. J., 2139 Great North Road, Avondale, Auckland 7.
 ZL1AYW—Speedy, S. L., 3 O'Neills Avenue, Takapuna, Auckland 9.
 ZL1AYX—McLeod, M. N. A., Albany Heights Road, R.D. 2, Albany, Auckland.
 ZL1AYY—Candy, F. A., Puketi Road, R.D. 1, Okaihou.
 ZL1AYZ—Natzke, R. L., 25 Racecourse Road, P.O. Box 87, Te Awamutu.
 ZL1AZA—Robertson, K. F., 27 Napier Avenue, Takapuna, Auckland 9.
 ZL1AZB—Young, R. D., 29a George Street, Te Kuiti, P.O. Box 57.
 ZL1AZC—Wilson, G. E., 1 Kiwi Street, Hamilton.
 ZL1AZD—
 ZL1AZE—Miller, B. D., 20 Imperial Terrace, Kilbirnie, Wellington 3.
 ZL1AZF—Powell, W. L., Silverhill Road, Te Hana.
 ZL1AZG—Greene, R. E., 40 Hope Farm Avenue, Pakuranga.
 ZL1AZH—Gower, R. A., C/- Regional Engineer's Office, Federal House, Auckland.
 ZL1AZI—Hirst, J. R., 1a Northboro Road, Takapuna, Auckland 9.
 ZL1AZJ—Sutherland, S. F., Ruaroa Road, R.D. 1, Kaitia.

ZL1AZK

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 ZL1AZL—Greenhalgh, R. W., KieKie Road, Aria.
 ZL1AZM—Addison, R. R., 14 Clifton Road, Whakatane.
 ZL1AZN—Fisher, J. W. R., 38 Sylvan Avenue, Woodlands Park, Auckland 7.
 ZL1AZO—
 ZL1AZP—Anderson, B. B., 43 Hallberry Road, Mangere East, Auckland.
 ZL1AZQ—McKenzie, H. W., 121 Kiripaka Road, Whangarei.
 ZL1AZR—Rea, J. S., 119 Kohimarama Road, Auckland 5.
 ZL1AZS—Christeson, E. L., 76 Highland Park Parade, Howick, Auckland.
 ZL1AZT—Clare, I. K., Minden Road, Te Puna R.D. 6, Tauranga.
 ZL1AZU—Nelson, B. C., 59 Percy Street, Warkworth.
 ZL1AZV—Ward, A. J., 75 Cockle Bay Road, Howick.
 ZL1AZW—Zajonskowski, K. L., 34 David Street, Morrinsville.
 ZL1AZX—Armstrong, J. B., 10 Normanby Street, Kawerau.
 ZL1AZY—Green, R. G., 9 Bruce Avenue, Hamilton.
 ZL1AZZ—Darrall, P. G., 11 Irene Crescent, Hamilton.
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 ZL1BAB—Cooper, W. G., 41a Kelvin Road, Papakura.
 ZL1BAC—Hilliard, S. W., 10 Rewhiti Avenue, Takapuna, Auckland 9.
 ZL1BAD—Knowles, R. E., Main Road, Onewhero, R.D. 2, Tuakau.
 ZL1BAE—Waihi Branch NZART, (Trustee: O. J. Morgan), 1 Waitete Road, Waihi.
 ZL1BAF—Woolf, H. L., 8 Rawhiti Road, Onehunga, Auckland 6.
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 ZL1BAI—
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 ZL1BAO—Martin, H. R., 18 Benlora Place, Mangere.
 ZL1BAP—Parr, J. B., 9 Willow Way, Pakuranga, Auckland.
 ZL1BAQ—Heaven, K. J., 46 Workers Road, Wellsford.
 ZL1BAR—Martensen, J. E., 34 Lawrence Street, Herne Bay, Auckland 2.
 ZL1BAS—Morgan, O. J., 1 Waitete Road, Waihi.
 ZL1BAT—Rodda, D. E. A., Heights Road, Helveta, R.D. 1, Pukekohe.
 ZL1BAU—Bakulich, J. V. M., Mt. Wesley Road, Dargaville.
 ZL1BAV—Vial, S. B., 159 Kowhai Road, Mairangi Bay, Auckland 10.
 ZL1BAW—Coleman, R. E., 94 Darraghs Road, Tauranga.
 ZL1BAX—Slaven, C. P., 19 Gilmore Street, Waihi.
 ZL1BAY—Tarlton, B. M., 8 North Road, Kaitia.
 ZL1BAZ—Davis, S. R., 16 Toru Road, Te Atatu, Auckland 8.
 ZL1BBA—Orchard, B. P., 10 Donnelly Street, Waihi.
 ZL1BBB—Scrivener, G. Y., 295 Ocean Beach Road, Mt. Maunganui.
 ZL1BBC—Coleman, P. J., R.D. 5, Whangarei.
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 ZL1BBE—
 ZL1BBF—Lusk, R. I. B., 130 Scenic Drive, Titirangi, Auckland 7.
 ZL1BBG—Dennis, D. M., Main Road, Te Hana.
 ZL1BBH—Green, A. T., 98 Albert Street, Hamilton East.
 ZL1BBI—
 ZL1BBJ—Ede, R. P. A., 76 Idlewild Avenue, Mangere.

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 ZL1BBR—Chamberlin, P. C., Kawakawa Bay Road No. 2 R.D., Clevedon.
 ZL1BBS—Kilpatrick, G., 48a Polygon Road, St. Heliers, Auckland 5.
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 ZL1BBX—Warriner, A. D., 17 Balgay Street, Christchurch 4.
 ZL1BBY—Brown, F. W. S., 221b Queen Street, Pukekohe.
 ZL1BBZ—Holt, R., 10 Collingwood Road, Waiuku.
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 ZL1BCB—
 ZL1BCC—Crandall, S., Waihi Road, Paeroa.
 ZL1BCD—Roberts, A.R., 33 Elliott Crescent, Rotorua.
 ZL1BCE—Eckett, J. A. B., 23 Pinedale Place, Henderson, Auckland 8.
 ZL1BCF—Williamson, D. E. J., 73 Hillcrest Road, Papatoetoe.
 ZL1BCG—Ridpath, J. I., 50 David Avenue Manurewa.
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 ZL1BCI—Sinclair, N. S., 29 Meadowland Street, Tauranga.
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 ZL1BCL—Lewis, V. A., 38b Burwood Road, Matamata.
 ZL1BCM—Mayhill, F. A., 24 Manson Street, Tauranga.
 ZL1BCN—Messent, A. J., Main Road, Murapara (Box 23).
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 ZL1BCP—Peters, S. J., 43 Wilsher Crescent, Henderson, Auckland 8.
 ZL1BCQ—
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 ZL1BCS—Cole, B. L., 72 Florance Avenue, Orewa.
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 ZL1BCU—Boyd, B. F., 34 Carrington Street, Hamilton.
 ZL1BCV—White, J. W., 58 Kohe Street, Whangarei.
 ZL1BCW—Webber, H. C., 405 Karaka Road, Thames.
 ZL1BCX—Fasher, N. C., 123 Peary Road, Mt. Eden, Auckland 3.
 ZL1BCY—McMillan, D. L., 371 Oey Street, Hamilton.
 ZL1BCZ—Drummond, D. T., 5 Griffiths Place, Hamilton.
 ZL1BDA—Wright, C. C., 3 Livingstone Street, Milford, Auckland 9.
 ZL1BDB—Trevena, M. R., 7 Waimahia Avenue, Weymouth.
 ZL1BDC—Brown, N. G., 8 Tui Grove Te Haumi, Paihia, P.O. Box 136.
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 ZL1BDE—Visser, P., 4 Kauri Crescent, Matamata.
 ZL1BDF—Petherick, G. R., 84 Aroha Avenue, Morningside, Auckland 3.
 ZL1BDG—Mogford, F. L., 74 Buchanan Street, Opatiki.

ZL1BDH—Latham, G. W., 3 Anzac Street, Te Kuiti.
 ZL1BDI—Draper, N., 61 Churchill Road, Murrays Bay, Auckland 10.
 ZL1BDJ—Monk, E. C. (Mrs), Matipo Avenue, Rotorua.
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 ZL1BDM—Hansen, A. F., No. 8 Punga Grove Avenue, Whangarei.
 ZL1BDN—McGivern, J. A., 11 Marlowe Road, Avondale, Auckland 7.
 ZL1BDO—Mancer, E. S., 4 Poto Street, Henderson, Auckland 8.
 ZL1BDP—James, J. R., 53 Hatepe Avenue, Taupo.
 ZL1BDQ—Wilkins, S. J., Baddeleys Beach, R.D. 2, Matakana, Warkworth.
 ZL1BDR—Griffin, E. F., 1 Charlton Avenue, Mt. Eden, Auckland 3.
 ZL1BDS—McKay, G. N., 5 Takitimu Street, Whenuapai.
 ZL1BDT—Ngakura, N. H., 31 Wihongi Street, Kaikohe.
 ZL1BDU—Catton, R., 39 Andrew Road, Howick.
 ZL1BDV—Schischka, G., 4 Gilliam Street, New Lynn, Auckland 7.
 ZL1BDW—Brown-Douglas, F. J., 14 Cross Street, Taumarunui.
 ZL1BDX—James, R. A., 1/21 Kaimanawa Street, Taupo.
 ZL1BDY—Seakins, J. M., 99 Exmouth Road, Northcote, Auckland 9.
 ZL1BDZ—Hoban, C. J. (Mrs), No. 4 R.D., Te Awamutu.
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 ZL1BEB—Williams, P., Kaihere, R.D., Ngatea.
 ZL1BEC—Cobham, W. T. R., 24 Pukeko Street, Rotorua.
 ZL1BED—Patchett, P. B., 35a Roberts Road, Te Atatu South, Auckland 8.
 ZL1BEE—Takapuna Grammar School Radio Club (Trustee: T. F. Turnwald), Lake Road, Takapuna, Auckland 9.
 ZL1BEF—Fitzgerald, B. E., 39 Mount View Road, Melville, Hamilton.
 ZL1BEG—McFarlane, G. M., 3 Tui Place, Tokoroa.
 ZL1BEH—Trye, K. G., 20 Lewisham Street, Howick, Auckland.
 ZL1BEI—Ellis, M. R., 74 Kirkbride Road, Mangere, Auckland.
 ZL1BEJ—McCabe, B. R., 130 Takahe Road, Titirangi, Auckland 7.
 ZL1BEK—McTurk, P. T. R., 40 Silverton Road, Waihi.
 ZL1BEL—Lees, B., 76 Cascades Road, Pakuranga.
 ZL1BEM—Lockwood, D. C., 7 Adams Street, Waihi.
 ZL1BEN—Doggett, G. A., 35 Puriri Road, Manurewa.
 ZL1BEO—Witheyford, P. S., Staff Residence, Northlands Base Hospital, Whangarei.
 ZL1BEP—Sharpe, N. R., Twinpines Orchard, Waimate North, R.D. 1, Ohaeawai.
 ZL1BEQ—McGee, S. R., 3 Ion Road, Kawerau.
 ZL1BER—Crompton, R. P. K., Reinga Road, Kerikeri.
 ZL1BES—Barnes, J. C., 27 Magnolia Grove, Maungaraki, Lower Hutt.
 ZL1BET—Copeman, N. J. P., 13 Stewart Street, Helensville.
 ZL1BEU—Jamieson, L. I. D., Ngunguru, R.D. 3, Whangarei.
 ZL1BEV—Derecourt, M. J., 2 Stonehurst Avenue, Waiuku.
 ZL1BEW—Dodds, P. B., 42 Waimarie Road, Whenuapai Village, Kumeu.
 ZL1BEX—Wilson, A. L. G., 16 Rahiri Road, Mt. Eden, Auckland 4.
 ZL1BEY—Smart, J. B., 157 Rodney Street, Wellsford.
 ZL1BEZ—Miller, P. G., C/- Sergeants Mess, RNZAF Base, Wigram.
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 ZL1BFB—Walker, I. D., 51 Caronia Crescent, Mt. Roskill, Auckland 4.
 ZL1BFC—Hellyar, J. S., 25 Queens Parade, Devonport, Auckland 9.

ZL1BGZ

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 ZL1BFE—Harland, J. C., 9 Papanui Street, Tokoroa.
 ZL1BFF—McGrath, R., 4 Bank Street, Birkenhead, Auckland 10.
 ZL1BFG—Cooper, E. H., 38 Parkinson Avenue, Mt. Roskill, Auckland 4.
 ZL1BFH—Perkins, I. M., 74 Tawari Street, Matamata.
 ZL1BFI—Lilley, E. J., 68 Houchens Road, Hamilton.
 ZL1BFJ—Adams, L. B., 3 Sim Street, Matamata.
 ZL1BFK—Frakes, M. C., 21 Beach Road, Howick, Auckland.
 ZL1BFL—Spayde, S. L., 44 Selwyn Road, Rotorua.
 ZL1BFM—Andrews, T. I., 17 Grey Street, Hamilton.
 ZL1BFN—Mathew, J. C. H., Shepherds Road, Kerikeri.
 ZL1BFO—Griffin, J. D., C/- Mrs D. Yates, Karaka, R.D. 1, Papakura.
 ZL1BFP—Gaeth, O. J., 125 Linton Crescent, Whangamata.
 ZL1BFQ—Daniel, A. G., 8 Clifford Street, Kaikohe.
 ZL1BFR—Beere, J. E. L., Main Road, R.D. 1, Howick.
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 ZL1BFU—
 ZL1BFV—Huckin, G. S., 56 Don Buck Road, Massey, Auckland 8.
 ZL1BFW—
 ZL1BFX—Broadley, C. L., Waiotahi Creek Road, Thames.
 ZL1BFY—Donaldson, D. L., 80 Woolfield Road, Papatoetoe.
 ZL1BFZ—Robertson, D. J., 29c Youngs Road, Papakura.
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 ZL1BGB—Glover, D. R., 5 Wyman Place, Pakuranga.
 ZL1BGC—
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 ZL1BGE—Whitwell, G. R., 274 River Road, Kawerau.
 ZL1BGF—Kerr, I. S., 27 Lewis Street, Paeroa.
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 ZL1BGJ—Morrison, C. W., 3 Duncansby Road, Whangaparaoa.
 ZL1BGK—Bugden, K. G., Nikau Gardens, State Highway 2, Thornton, Whakatane.
 ZL1BGL—Zammit, P., 2 Iwitihi, R.D. 3, Taupo.
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 ZL1BGR—Maddern, D. E., 14 Pukerau Crescent, Te Awamutu.
 ZL1BGS—Waterhouse, F. L. K., Flat 5, Block B, Pensioner Flats, Maitland Street, Tauranga.
 ZL1BGT—Reid, L. R., 17 Luxor Place, Rotorua.
 ZL1BGU—Felt, B., Shelly Beach Road, St. Marys Bay, Auckland.
 ZL1BGV—Roberts, M. J., 11 Grey Street, Hamilton.
 ZL1BGW—Maude, R. de M., 68 Levers Road, Otumoetai, Tauranga.
 ZL1BGX—McKenzie, R. D., 13 Edinburgh Street, Tokoroa.
 ZL1BGY—
 ZL1BGZ—Forsyth, A. B., 37 College Road, Edgecumbs.

ZL1BHA

ZL1BHA—

ZL1BHB—Riley, S. G., 18 Charles Road, Rotorua.

ZL1BHC—Walker, A. N., Crane Road, R.D. 5, Hikurangi.

ZL1BHD—Weddell, E. I., Seaview Avenue, Te Puru, Thames.

ZL1BHE—Matthews, J. F., 26 Oceanview Road, Northcote, Auckland 9.

ZL1BHF—Sloan, W. J., 20 Acorn Street, Royal Oak, Auckland 3.

ZL1BHG—

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ZL1BHI—Dingle, W. M., 27 Caseys Avenue, Hamilton.

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ZL1BIS—

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ZL1BJD—Woods, G., 99 Chapel Street, Tauranga.

ZL1BJE—Appleby, W. M., Moodys Road, R.D. 2, Whakatane.

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ZL1BJK—Turner, R. W., Main Road, Waitoa.

ZL1BJL—Williams, C., R.D. 2, Cambridge.

ZL1BJM—Cain, M. C., 10 Valiant Street, Mangere, Auckland.

ZL1BJN—Thomas, G. A., 2/46 Seabrook Avenue, New Lynn, Auckland 7.

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 ZL1BKO—Blyth, R. A., 6 Holland Avenue, Point England, Glen Innes, Auckland 6.
 ZL1BKP—Searle, K. A., 453 Nelson Road, Gisborne.
 ZL1BKQ—Adams, C. W., 18 Tizards Road, Birkenhead, Auckland 10.
 ZL1BKR—Hill, R. S., 14 Sunline Place, Ngongotaha.
 ZL1BKS—Cunliffe, V. G., Newells Road, R.D. 3, Hamilton.
 ZL1BKT—Dowling, P., 14 Galbraith Avenue, Hamilton.
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 ZL1BKV—Coombs, M. J., 3 Poutini Place, Manurewa.
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 ZL1BKX—Rodgers, A. E., 19 Cradock Street, Avondale, Auckland 7.
 ZL1BKY—Rankin, A. N., 85 Hastings Road, Mairangi Bay, Auckland 10.
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 ZL1BLB—Churcher, B. R., 2 Thorley Street, Mt Eden, Auckland 4.
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 ZL1BLD—Ward, M. T., Silverhill Road, Te Hana.
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 ZL1BLM—
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 ZL1BLU—
 ZL1BLV—Howells, D., 5 Weka Street, Rotorua.
 ZL1BLW—Cook, L. J., McCarthy Street, Waihou.
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 ZL1BRV—Gardiner, P. R., 42 Wordsworth Road, Manurewa.
 ZL1BRW—Boghurst, A. D., 19c Te Anau Place, Pakuranga.
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 ZL1BRZ—Hill, B., 8 McLean Street, Whangarei.
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 ZL1BSZ—
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 ZL1BTF—
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 ZL1TKS—Duncan, A. K., 113 Waipapa Road, Hataitai, Wellington 3.
 ZL1TKT—Pearson, F. W., 19 Tamaki Street, Ngongotaha, Rotorua.
 ZL1TKU—Hilliar, D. J., 13 Chipping Dale, Mangere Bridge, Auckland.
 ZL1TKV—Mickan, J. L., 2a Forsythe Place, Massey, Auckland 8.
 ZL1TKW—Bodman, K. I., 21 Bernard Street, Hamilton.
 ZL1TKX—Greensmith, A. S., Maddrens Road, Marua, R.D. 1, Hikurangi.
 ZL1TKY—Porter, A. L., 50 Ballance Street, Kawerau.
 ZL1TKZ—Blomfield, A. G., 23 Radiata Lane, Birkenhead, Auckland 10.
 ZL1TLA—Koolen, J. F. L., 32 Kings Road, Panmure, Auckland 6.
 ZL1TLB—Scott, M. P., 191 King Street, Cambridge.
 ZL1TLC—May, A. P., 56 Lantana Road, Green Bay, Auckland 7.
 ZL1TLD—Walker, W. D., 46 Mountain View Road, Oturohanga.
 ZL1TLE—Millett, M. J., B739 Railway Settlement, Hinuera.
 ZL1TLF—Cadness, R. H., 109 Glamorgan Drive, Torbay, Auckland 10.
 ZL1TLG—Williams, I. G., 33 Reelick Avenue, Pakuranga.
 ZL1TLH—Dunlop, B. W., 39 Kitenui Avenue, Mt. Albert, Auckland 3.
 ZL1TLI—Craig, N. A., 606 Richmond Street, P.O. Box 496, Thames.
 ZL1TLJ—Edmonds, C. R., 52 Grey Street, Kawerau.
 ZL1TLK—
 ZL1TLL—Wilson, P. G., NZED Village, Mangakino.
 ZL1TLM—
 ZL1TLN—Orrust, F., 37a Sylvia Road, St. Heliers, Auckland 5.
 ZL1TLO—Bouwknegt, H. G., 16 Shortland Street, Whangarei.
 ZL1TLP—Yerex, B. S., 24 High Street, Rotorua.
 ZL1TLQ—McMillan, D. J., 4 Inaka Place, Matamata.

ZL1TLR

ZL1TLR—Walton, R. W., R.D. 2, Maungaturoto, Whangarei.
 ZL1TLS—Voss, E. I., 28 Matipo Street, Taupo.
 ZL1TLT—Egan, D. A., 12 Island View Terrace, Howick, Auckland.
 ZL1TLU—Waterhouse, D. C., 29a Puriri Park Road, Whangarei.
 ZL1TLV—Oxner, E. A., Mossop Road, R.D. 1, Tokoroa.
 ZL1TLW—Innes-Jones, F. A., 81 Waller Avenue, Bucklands Beach.
 ZL1TLX—Drake, M. J., C/- Ararimu, Ramarama.
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 ZL1TLZ—Miller, J. E. (Mrs), 17 Harris Street, Te Puke.
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 ZL1TMD—
 ZL1TME—Schwarz, M. W., Bayly Road, Tirau.
 ZL1TMF—Ralston, W. B., 32 Sylvania Drive, Tauranga.
 ZL1TMG—Greenfield, R. S. T., 33 Tui Crescent, Maunu, Whangarei.
 ZL1TMH—Hutton, W. M., 9 Hoterini Street, Ohope.
 ZL1TMI—Moseley, S. F., 34 Domain Street, Waiuku.
 ZL1TMJ—
 ZL1TMK—Krause, R. E., 7 Gordon Street, Kawerau.
 ZL1TML—
 ZL1TMM—Stocker, R. V., 7 Dalmevy Close, Mairangi Bay, Auckland 10.
 ZL1TMN—
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 ZL1TMP—Cummins, J. E., 80 Pakura Street, Te Awamutu.
 ZL1TMQ—McCarthy, J. W., 2/38 Anthony Crescent, Glenview, Hamilton.
 ZL1TMR—Dean, M. I. J., 8 Tui Crescent, Waatarua, R.D., Oratia.
 ZL1TMS—Watson, C. D., Eastbank Road, R.D. 3, Whakatane.
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 ZL1TMV—Wilkinson, C., 35/139 Greys Avenue, Auckland 1.
 ZL1TMW—Marsh, D. J., No. 7 R.D., Wharehine, Wellsford.
 ZL1TMX—Burnett, D. B., 1b Gilliam Street, New Lynn, Auckland 7.
 ZL1TMY—Studholme, D. L., 22 Anita Avenue, Mt. Roskill, Auckland 4.
 ZL1TMZ—
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 ZL1TNB—
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 ZL1TND—Sapich, S., Forest Hill Road, R.D. 1, Henderson, Auckland 8.
 ZL1TNE—Edwards, W. D., 21 Grey Street, Hamilton.
 ZL1TNF—Ruediger, J., 153 Totara Drive, Hamilton.
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 ZL1TNM—Van Duin, R. J., Upper Queen Street, Pukekohe.

ZL1TNN—

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 ZL1TNP—Pratt, W. R., 304 Shakespeare Street, Cambridge.
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 ZL1TNS—
 ZL1TNT—Maginnity, D. N., 15 Carlyle Street, Te Aroha.
 ZL1TNU—McCusker, A. B., 18 Bowen Street, Kawerau.
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 ZL1TNX—Chappell, P. J., 3 Kiwi Street, Te Kuiti.
 ZL1TNY—Quedley, F. J., 16 Woodhall Road, Epsom, Auckland 3.
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 ZL1TOH—
 ZL1TOI—Fennell, S. G., 15 Buckley Road, Epsom, Auckland 3.
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 ZL1TOU—
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 ZL1TOZ—Kennedy, R. M., Long Bay Road, Coromandel.
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 ZL1TPI—Smirk, A. T., 10 Masons Avenue, Herne Bay, Auckland 2.
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 ZL1TPR—
 ZL1TPS—Bryant, R. S., 44a Pleasant Road, Glen Eden, Auckland 7.
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 ZL1TPU—
 ZL1TPV—
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 ZL1TPX—Manning, B. F., 21 Farmer Street, Te Aroha.
 ZL1TPY—Wanhill, I. G., 37 Nixon Road, Titirangi, Auckland 7.
 ZL1TPZ—
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 ZL1TQK—Earl, S. C., 219 Miro Street, Manunui, Taumarunui.
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 ZL1TQU—
 ZL1TQV—
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 ZL1TRD—Tyson, T. W., Hikamutu, Taumarunui.
 ZL1TRE—
 ZL1TRF—De Wit, R., 1 Pegasus Drive, Rotorua.
 ZL1TRG—Benner, G. T., 51 Puriri Street, Helensville.

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ZL1TRH—Walker, A. V. Mrs, 51 Caronia Crescent, Mt. Roskill, Auckland 4.
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 ZL1TRK—
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 ZL1TRM—Johnson, J. I., 18 Stirling Grove, Tauranga.
 ZL1TRN—Doughty, C. A., Brookley Road, Manurewa, Auckland.
 ZL1TRO—Schulz, P. M., 37 Croall Crescent, Hamilton.
 ZL1TRP—
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 ZL1TRS—
 ZL1TRT—
 ZL1TRU—Hunt, P. J., 29 Cobham Drive, Kawerau.
 ZL1TRV—Huljich, P. A., 137 Totara Road, Whenuapai.
 ZL1TRW—Codling, R. D., 59 Bandon Street, Frankton, Hamilton.
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 ZL1TRY—Keatinge, A. R., 8 Barnard Street, Matamata.
 ZL1TRZ—Martens, P. H., 623 Pukehina Parade, R.D. 9, Te Puke.
 ZL1TSA—James, K. C., 123 McLeod Road, Te Atatu, Auckland 8.
 ZL1TSB—
 ZL1TSC—
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 ZL1TSE—Abernethy, C., 20 Zetland Terrace, Kelburn, Wellington 5.
 ZL1TSF—Fish, A. P., 9 Seaview Terrace, Mt. Albert, Auckland 3.
 ZL1TSG—Hanley, A. B. D., 8/248 Great North Road, Henderson, Auckland.
 ZL1TSH—
 ZL1TSI—Edlin, W. F., 83 Settlement Road, Papakura, Auckland.
 ZL1TSJ—Cope, G. B., 20a Louvain Avenue, Mt. Roskill, Auckland 4.
 ZL1TSK—Ladyman, D. R., 25 Carlton Street, Te Aroha.
 ZL1TSL—Darvil, K. J., 38 Caen Road, Panmure, Auckland 6.
 ZL1TSM—Garnett-Frizelle, H. H., 144b Nixon Street, Hamilton.
 ZL1TSN—Hollis, M. A., 98 The Drive, Epsom, Auckland 3.
 ZL1TSO—Soysa, S. W., 2 Madill Road, St. Andrews, Hamilton.
 ZL1TSP—
 ZL1TSQ—Attrill, J. J., 7 Tawa Street, Mt. Maunganui.
 ZL1TSR—Reynolds, E. W., 13 Coronation Street, Takapuna, Auckland 9.
 ZL1TSS—Armstrong, R. C., 142 King Street, Cambridge.
 ZL1TST—Young, J. R., 56 Allison Street, Opunake.
 ZL1TSU—Osborne, P. L., 14 Oakfield Crescent, Hamilton.
 ZL1TSV—Talbot, I. C., 64 Woodlands Crescent, Browns Bay, Auckland 10.
 ZL1TSW—Sinton, J. J., 4 Whereitia Street, Taupo.
 ZL1TSX—
 ZL1TSY—Law, J. A., 45 South Lynn Road, Titirangi, Auckland 7.
 ZL1TSZ—Thomas, R. V., 141 Douglas Street, Whakatane.
 ZL1TTA—Fairweather, K. D., 33 Savoy Road, Glen Eden, Auckland 7.
 ZL1TTB—Wevers, W. F., 3/268 Meola Road, Pt. Chevalier, Auckland 2.
 ZL1TTC—
 ZL1TTD—Downard, I. F., 252 Malfroy Road, Rotorua.
 ZL1TTE—Cooke, D. C., 13 Walmer Road, Pt. Chevalier, Auckland 2.
 ZL1TTF—

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ZL1TTG—Mellars, L. R., 564 Beach Road, Rotheras Bay, Auckland 10.

ZL1TTH—

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ZL1TTJ—Holmes, C. J., 73b Browns Road, Manurewa.

ZL1TTK—Nettleingham, J., Matahui Road, Katikati.

ZL1TTL—**ZL1TTM—**

ZL1TTN—Goffin, C. P., C/- Police College, Porirua.

ZL1TTO—Curran, W. J., Awaiti Road, Paeroa.

ZL1TTP—Stagpoole, V. M., 10 Hilton Road, Rotorua.

ZL1TTO—

ZL1TTR—Presling, R. C., Vospers Road, R.D. 2, Putaruru.

ZL1TTS—Karrasch, D. F., 24 Brooks Road, Papakura.

ZL1TTT—

ZL1TTU—Godbert, F. D., Waipapa West Road, R.D. 2, Keri Keri.

ZL1TTV—Mather, P. B., 3 Felicity Place, Glenfield, Auckland 10.

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ZL1TTX—Moss, G. D., 54 Alexander Street, Howick.

ZL1TTY—Vujcich, L. M. G., Horrells Road, R.D. 4, Morrinsville.

ZL1TTZ—Broad, A. L. E., Northwood Avenue, R.D. 4, Kaitia.

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ZL1TUC—Cuthbert, E. W., 12 Kitenui Avenue, Mt. Albert, Auckland 3.

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ZL1TUE—

ZL1TUF—Cook, B. W., 34 Sunset Road, Taupo.

ZL1TUG—

ZL1TUH—Addis, B. G., 119 Motatau Road, Papatoetoe, Auckland.

ZL1TUI—

ZL1TUJ—Marr, G. E., 11 Liley Place, Remuera, Auckland 5.

ZL1TUK—Aymes, N. C., Mountain View Road, Otorohanga.

ZL1TUL—Richardson, R. W., 3 McKenzie Avenue, Otorohanga.

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ZL1TUN—

ZL1TUO—Hope, G. L., Terena Street, Mamaku, Rotorua.

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ZL1TUT—Alexander, S. J., Waihou Valley, R.D. 3, Okaihau.

ZL1TUU—

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ZL1TUY—Young, R. A., 21 George Street, Waihi.

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ZL1TVU—

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ZL1TWO—McKinlay, M. P., 55 Salamanca Road, Glenfield, Auckland 10.

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ZL1TWO—Hall, M. J., Norfolk Avenue, Reotahi.

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ZL1TWS—

ZL1TWT—Broughton, P. Y., Kaimaumau, Waiharara, R.D., Kaitia.

ZL1TWU—Bott, B., 12a Peri Street, Tauranga.

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ZL1TWZ—Russell, G. C., 26 Dundee Place, Blockhouse Bay, Auckland 7.

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 ZL1TXJ—Slyfield, P. J., 156 Campbell Road, Greenlane, Auckland 5.
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 ZL1TXV—Byrmand, J. A., 10 Church Street, Onerahi, Whangarei.
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 ZL1TXY—
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 ZL1TYB—Atkinson, G. F., 10 Kohe Kohe Street, Kelston, Auckland 7.
 ZL1TYC—Fitzpatrick, J. D., 7 River Road, Kawerau.
 ZL1TYD—Hill, A. C., 43 South Lynn Road, Titirangi, Auckland.
 ZL1TYE—Brien, G. J., 33 Rosalind Road, Glenfield, Auckland 10.
 ZL1TYF—Towler, T. J., 3/3 Domain Avenue, Ngongotaha.
 ZL1TYG—Millen, T. A., 50 Barry Road, Waihi.
 ZL1TYH—
 ZL1TYI—Bridger, G. D., 102 Hospital Road, Whangarei.
 ZL1TYJ—Ball, R. J., R.D. 1, Turangi.
 ZL1TYK—Dunningham, A. G., 9 Kahu Street, Rotorua.
 ZL1TYL—Taylor, P. J., 14 Gollan Road, Mt Wellington, Auckland 6.
 ZL1TYM—Tuck, P. J., 112 15th Avenue, Tauranga.
 ZL1TYN—Dunlop, B. V., Unit 1, 239 Robertson Road, Mangere, Manukau City.
 ZL1TYO—
 ZL1TYP—Thompson, G. O., Brown Road, R.D. 3, New Plymouth.
 ZL1TYQ—Sadler, W., 35 Patterson Street, Mt. Maunganui.
 ZL1TYR—
 ZL1TYS—Field, B. V., 23 Ross Street, Onerahi, Whangarei.
 ZL1TYT—Lowe, E. R., 86 Dinsdale Road, Hamilton.
 ZL1TYU—Purves, P. S., 8/81 Lakes Road, Hamilton.
 ZL1TYV—Jenkins, M. W., 35 Robertson Street, Rotorua.
 ZL1TYW—Middlemiss, G. D., Eureka Station Road, R.D. 4, Hamilton.
 ZL1TYX—Pabbruwe, H. I., 99 Bradbury Road, Howick.
 ZL1TYZ—Lindesay, D. A., 260 Kepa Road, Mission Bay, Auckland 5.
 ZL1TYZ—Jenner, A. M., 51 Waharoa Road, East Matamata.
 ZL1TZA—Jenner, R. P., 51 Waharoa Road, East Matamata.
 ZL1TZB—Martinson, L. R., 2/24 Colwill Road, Massey, Auckland 8.
 ZL1TZC—McConnachie, K. N., 10 Miro Street, Te Aroha.

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 ZL1TZF—
 ZL1TZG—
 ZL1TZH—Hunt, E. J., 78 McAnnalley Street, Manurewa.
 ZL1TZI—
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 ZL1TZM—Van der Werff, M. L., 2139 Great North Road, Avondale, Auckland 7.
 ZL1TZN—
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 ZL1TZQ—
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 ZL1TZX—Fryer, B. S., 38 Monarch Avenue, Glenfield, Auckland 10.
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 ZL1UAH—
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 ZL1UAM—Crook, S. A., 4 Kelly Street, Rotorua.
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 ZL1UAO—
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ZL1UBO—

ZL1UBP—Peryer, C. J., 66 Richard Farrell Avenue, Remuera, Auckland 5.

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ZL1UBR—

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ZL1UCO—

ZL1UCP—Henneveld, L. R., Whau Valley Road, Kensington, Whangarei.

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ZL1UDO—

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ZL1UDV—Frogley, C. D., 22 Mellows Bay Road, Howick, Auckland.

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ZL1UDY—

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ZL1UEF—Porter, J. W., C/- H. Porter, 45 Ward Street, Pukekohe.

ZL1UEG—Lee, J. A., Oropi Road, Pyes Pa, R.D. 3, Tauranga.

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ZL1UEN—Peters, J. W., 79 Sunset Road, Rotorua.

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 ZL1UGB—
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 ZL1UGU—Bird, C. A., 616 Tararu Road, Thames.
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 ZL1UHU—
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 ZL1UIK—
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ZL1UKD—

ZL1UKE—

ZL1UKF—

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ZL1UKI—Ujdur, R., Main Road, Awanau.

ZL1UKJ—

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ZL1UKN—

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ZL1UKS—

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ZL1UKU—

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ZL1ULA—

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ZL1ULC—Batchelor, M. H., Kotuhu Street, Rotorua.

ZL1ULD—

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ZL1ULN—

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ZL1ULP—

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ZL1UMD—Pope, K. B., 8 Fenton Terrace, Te Puke.

ZL1UME—

ZL1UMF—Edson, D. A., 95 Coronation Road, Morrinsville.

ZL1UMG—Wallace, L. G., House 27, Whakamarau Village, Mangakino.

ZL1UMH—

ZL1UMI—Hardie, M. P., 1 Cronin Place, Beach Haven, Auckland 10.

ZL1UMJ—Reid, D. M., Te Kooti Road, R.D. 5, Kutarere.

ZL1UMK—Winefield, C. S., 7 Kaka Crescent, Tokoroa.

ZL1UML—Harland, W. R., 23 Maraetai Village, Maraetai Dam, Mangakino.

ZL1UMM—York, K. E., 16 Te Kamo Street, Ruakaka, Northland.

ZL1UMN—Barnett, E. W., 11 Williamson Avenue, Morrinsville.

ZL1UMO—Hemsworth, K., 6 Freyberg Place, Howick.

ZL1UMP—Lister, B. A., Jeffs Road, R.D., Papatoetoe.

ZL1UMQ—Melsom, R. C., 1/27 Holand Road, Takapuna, Auckland 9.

ZL1UMR—

ZL1UMS—Allen, P. P., Mawson Avenue, Kerikeri.

ZL1UMT—Marr, L. R., 22 Swan Crescent, Pakuranga.

ZL1UMU—

ZL1UMV—MacKay, T. D., Leith Street, Dunedin.

ZL1UMW—

ZL1UMX—

ZL1UMY—

ZL1UMZ—Cavanaugh, M. A., 6/9 Ranier Street, Ellerslie, Auckland 5.

ZL1UNA—Bellamy, P. R., 6 Rewa Road, Mt Eden, Auckland 4.

ZL1UNB—Gatland, E. C., 19 Forrest Hill Road, Takapuna, Auckland 10.

ZL1UNC—Morgan, H. J., 3 Sonia Avenue, Remuera, Auckland 5.

ZL1UND—Sanders, R. W., Main Road, Glenbervie, Whangarei.

ZL1UNE—Page, G. J., 26 Alastair Avenue, Owata, Rotorua.

ZL1UNF—

ZL1UNG—Bowdler, R. M., 17 Kelston Street, New Lynn, Auckland 7.

ZL1UNH—Williams, H. J., 30 Halberg Street, Glenfield, Auckland 10.

ZL1UNI—Smith, S. R., 49 Hill Road, Manurewa.

ZL1UNJ—Booth, B. W. G., 8 Penney Avenue, Mt. Roskill, Auckland 4.

ZL1UNK—

ZL1UNL—Whittome, G. A., 61 Moire Road, Massey, Auckland 8.
 ZL1UNM—Scouse, P. N., 10 Eastview Road, Glen Innes, Auckland 6.
 ZL1UNN—
 ZL1UNO—Mattler, C. K. H., 25 Seddon Street, Te Kuiti.
 ZL1UNP—Johnson, F. T. J., 49 Youngs Road, Papakura, Auckland.
 ZL1UNQ—Dickinson, S. B., 10 Neems Place, Manurewa.
 ZL1UNR—Brown, D. S., 56 Bertram Street, Warkworth.
 ZL1UNS—Bell, K., 7 June Place, Torbay, Auckland 10.
 ZL1UNT—Matthews, J. H., 13 Radcliffe Street, Whangarei.
 ZL1UNU—Kearney, C. R., 31 Dagenham Street, Manurewa.
 ZL1UNV—Kendall, J. D., 16 Ferguson Avenue, Greenlane, Auckland 5.
 ZL1UNW—Driver, M. J., Purerua, R.D. 1, Kerikeri.
 ZL1UNX—Horn, D. G., Tautiti Road, R.D. 3, Te Aroha.
 ZL1UNY—Fairest, T. R., Tapuwae Road, Poratarao, R.D. 7, Te Kuiti.
 ZL1UNZ—Van Kuilenburg, P. A., 64 Rockfield Road, One Tree Hill, Auckland.
 ZL1UOA—Smith, I. G., 39 Bell Street, Kawerau.
 ZL1UOB—West, B. D., 94a Nelson Street, Opatiki.
 ZL1UOC—Candy, F. A., Puketiti Road, R.D. 1, Okaihau.
 ZL1UOD—Furby, N., Whakamaru NZED Village, Mangakino.
 ZL1UOE—Grayling, R. A., 24 Merchant Avenue, Te Atatu South, Auckland 8.
 ZL1UOF—Hanley, B. D., 8/248 Great North Road, Henderson, Auckland 8.
 ZL1UOG—Redgrave, C. I., R.D. 1, South Kaipara Heads, Helensville.
 ZL1UOH—Ewen, D. T., 113 Main Road, Waipu.
 ZL1UOI—Forlong, R. D., 5/3 June Place, Hamilton.
 ZL1UOJ—Blakey, C. T., Ryans Road, R.D. 5, Wellsford.
 ZL1UOK—Bell, K. A., Somner's Quarry, Mountfield Road, Waipu.
 ZL1UOL—
 ZL1UOM—Jane, M. I., 87 King Street, Waiuku.
 ZL1UON—Zuppicich, A. N., 52a Cameron Road, Hamilton.
 ZL1UOO—Bain, A. M., 58 George Crescent, Buckland, R.D. 2, Pukekohe.
 ZL1UOP—Schultz, T. F., Schultz Road, Waipu.
 ZL1UOQ—Loneragan, O., 84 4th Avenue, Tauranga.
 ZL1UOR—Evans-McLeod, B. E., 21 Laurence Street, Gate Pa, Tauranga.
 ZL1UOS—Davy, K. J. P., Mataiawhera Street, Rotorua.
 ZL1UOT—Davy, C. J., Mataiawhera Street, Rotorua.
 ZL1UOU—Tottenham, R. D., 13a Andrew Road, Howick, Auckland.
 ZL1UOV—
 ZL1UOW—Wells, E. L., 9 Tamaki Bay Drive, Pakuranga, Auckland.
 ZL1UOX—Eisenring, R. A., 4 Renown Avenue, Greenlane, Auckland 5.
 ZL1UOY—Prince, R. P., 104 Freyberg Street, Otumoetai, Tauranga.
 ZL1UOZ—Robb, R., Taumata Road, Pyes Pa, R.D. 3, Tauranga.
 ZL1UPA—Blewett, B. D., 323 Don Buck Road, Massey, Auckland.
 ZL1UPB—Le Cornu, E. M. O., Kiritahi, R.D. 1, Morrinsville.
 ZL1UPC—Heslop, W. T., 19 Corinna Street, Welcome Bay, Tauranga.
 ZL1UPD—Grayson, A. W., 56 Kemp Road, Kerikeri.
 ZL1UPE—Watson, D. L., 2/283 Kohimarama Road, Kohimarama, Auckland 5.
 ZL1UPF—McKee, R. R., 9 Wattle Street, New Lyn, Auckland.
 ZL1UPG—Harris, N. G., 402 Manugatapu Road, Turanga.
 ZL1UPH—McCormack, R. J., House 10, Fri Village, Rotorua.

ZL1UPZ

ZL1UPI—Lietting, A. J., 23 Boyce Avenue, Mt Roskill, Auckland 4.
 ZL1UPJ—Hooson, R. L., Main Dargaville Highway, R.D. 9, Whangarei.
 ZL1UPK—Whittington, A. N., R.D. 5, Tuakau.
 ZL1UPL—Turner, J. H., 184 Levers Road, Tauranga.
 ZL1UPM—Dunne, G. M., 26 Treeways, Pakuranga.
 ZL1UPN—McNaughton, G. B., 12 Pierce Road, Milford, Auckland 9.
 ZL1UPO—Moore, H. J., 22 Pukehana Avenue, Epsom, Auckland 3.
 ZL1UPP—Sinclair, D. J., 86 Alexander Street, Howick.
 ZL1UPQ—Morris, S. A., Weston-Lea Drive, R.D. 2, Hamilton.
 ZL1UPR—Rayner, B. J., 46 York Street, Hamilton.
 ZL1UPS—Nesfield, J. C., 143 Atkinson Road, Titirangi, Auckland 7.
 ZL1UPT—Francis, S. D., 43a Whenurangi Road, Greenlane, Auckland 5.
 ZL1UPU—Adlam, R. A., C/- Avionics Squadron, RNZAF Base, Auckland.
 ZL1UPV—Edwards, P. F., 6 Melody Lane, Otahuhu, Auckland.
 ZL1UPW—
 ZL1UPX—
 ZL1UPY—
 ZL1UPZ—

Amendments

SHIFTING HOUSE?

Remember to advise the following:

AMATEUR LICENCE—

Inform the Radio Inspector at your nearest Post Office Engineers Office—see page 155

BREAK-IN—

Advise the General Secretary, NZART HQ, P.O. Box 40-525, UPPER HUTT, of your new address. Mention your call-sign and membership number.

CALL BOOK LISTING—

To ensure correct list of your address in the *Call Book*, notify Callsign Amendments, P.O. Box 1733, Christchurch. Remember to include your callsign.

ZL2 Callsign Listings

- 2AA—Selwood, G. R., 14 Invercargill Drive, Kelson, Lower Hutt.
- ZL2AB—Wilkinson, D., 8a Koru Road, R.D. 4, New Plymouth.
- ZL2AC—Turnbull, P., 6 Steele Road, Hamilton.
- ZL2AD—Harris, E. W., 83 Ormond Road, Gisborne.
- ZL2AE—Lancaster, A. B., 47 Frank Wilson Terrace, New Plymouth.
- ZL2AF—Wilkinson, J., 30 Lancaster Street, Levin.
- ZL2AG—Bruce, J. R., C/- J. C. Bruce, No. 1 R.D. Taihape.
- ZL2AH—Reed, W., St. J., 11 Wood Street, Upper Hutt.
- ZL2AI—1st Kelburn 1909 Scout Group Radio Club, 39 Ngaio Road, Kelburn, Wellington 5.
- ZL2AJ—Parminter, H. V., 121 The Ridgeway, Wellington 2.
- ZL2AK—Rowson, L. T., 141 Tukapa Street, Westown, New Plymouth.
- ZL2AL—Jennings, L. F., 203 Beresford Street, Hastings.
- ZL2AM—Shirley, J. R., "Burnside", Bayview, Napier.
- ZL2AN—Shepherd, E. R., 203 South Park Road, Hastings.
- ZL2AO—Branigan, C. K., 3 Central Terrace, Lower Hutt.
- ZL2AP—Eade, A., 137 Winchester Street, Levin.
- ZL2AQ—Gabites, J. F., 31 Espin Crescent, Wellington 5.
- ZL2AR—Central Hawkes Bay Branch NZART (Inc.), Pukeora, Waipukurau.
- ZL2AS—Stevens, P. S., 913 Victoria Street, Hastings.
- ZL2AT—Boale, E. W., 301 Frimley Avenue, Hastings.
- ZL2AU—Wilson, W. C., Flat 2, 538 High Street, Lower Hutt.
- ZL2AV—Paterson, P. A., 15 Marriner Street, Palmerston North.
- ZL2AW—Bonnington, R. L., Cable Bay R.D. 1, Nelson.
- ZL2AX—Black, J. W., 20 Thompson Road, Napier.
- ZL2AY—McComb, D. R., 20 Montrose Street, Nelson.
- ZL2AZ—Clarkson, T. R., 35 Walter Road, Lowry Bay, Wellington.
- ZL2BA—Grantham, T. C., P.O. Box 10-367, Wellington.
- ZL2BB—Bradshaw, F. R., 40 Simla Avenue, Havelock North.
- ZL2BC—Gentry, K. R., 8 Chudleigh Grove, Wellington 4.
- ZL2BD—Brown, G. E., 35 Chamberlain Street, Nelson.
- ZL2BE—Woolford, C. J., 16 Caernarvon Drive, Flaxmere, Hastings.
- ZL2BF—
- ZL2BG—Williams, P. G., Mangakuri, Private Bag, Hastings.
- ZL2BH—McGregor, I. J., 20 Davis Crescent, Upper Hutt.
- ZL2BI—Wogan, M. S., 54 Kamahi Street, Stokes Valley.
- ZL2BJ—Gibson, G. A., 14 Seddon Street, Aramoho, Wanganui.
- ZL2BK—Simpson, G. R., 8a Faulkland Drive, Blenheim.
- ZL2BL—Beswick, D. J., 283 Happy Valley Road, Wellington.
- ZL2BM—Nankivell, F. R., 133 Main Road, Bay View, Napier.
- ZL2BN—Tatton, L. A., 102 Smart Road, New Plymouth.
- ZL2BO—Dixon, H. C., 22 Kainui Road, Wellington 3.
- ZL2BP—Walker, J. G., 106 Salisbury Street, Richmond, Nelson.
- ZL2BQ—Mitchell, A. W., 1 View Road, Melrose, Wellington 3.
- ZL2BR—Hunt, A. F., 8 Manu Crescent, New Plymouth.
- ZL2BS—
- ZL2BT—Tanner, A. R., Karere Road, Kairanga, Longburn.
- ZL2BU—Lane, F. J. K., 33 Buckley Road, Melrose, Wellington 3.
- ZL2BV—Tozer, B. R., 16 Godwin Crescent, Wanganui.
- ZL2BW—Harling, D. S., 142 Quebec Road, Nelson.
- ZL2BX—Creswell, A. F., 17 Atiawa Street, Petone.
- ZL2BY—Berry, R. E., 29 Benares Street, Khandallah, Wellington 4.
- ZL2BZ—Dunn, A. E., 33 MacArthur Street, Levin.
- ZL2CA—Vernall, R. B., 90 Campbell Street, Wellington 5.
- ZL2CB—Bartlett, J. R., 18 Lynda Avenue, Paparangi, Wellington 4.
- ZL2CC—Rowe, C. F., 28 Clyma Street, Upper Hutt.
- ZL2CD—Hamer, W. R., 40 Awa Road, Wellington 3.
- ZL2CE—Bicknell, J. A., Papawai Road, Greytown.
- ZL2CF—Southern Hawkes Bay Vintage Radio Club, (Trustee: A. E. Law), Private Bag, Mangatōro, Dannervirke.
- ZL2CG—Cornick, M. L., 23 Oakley Avenue, Marton.
- ZL2CH—McGrath, F. P., 4 Cautley Street, Richmond, Nelson.
- ZL2CI—Sinton, A. J., 6 Chester Street, Greenmeadows, Napier.
- ZL2CJ—Hitchcock, R. F., 18 Wikipiwhi Crescent, Palmerston North.
- ZL2CK—Fleming, J. G., 33 Clifton Drive, Waitara.
- ZL2CL—
- ZL2CM—Hastings, F. W., 258 Waterloo Road, Lower Hutt.
- ZL2CN—Innes, D. D., 1247 High Street, Taita, Wellington.
- ZL2CG—Neumer, G., 48 Ava Street, Petone.
- ZL2CP—Cormack, J. B. B., 63 Queenwood Road, Levin.
- ZL2CQ—Henderson, J. M., Howie Road, Fern Flats, R.D. 2, Marton.
- ZL2CR—Miller, N., 36 Stanley Street, Berhampore, Wellington 2.
- ZL2CS—Anderson, B. R. S., 13 Pembroke Road, Stratford.
- ZL2CT—Glasgow, S. J., 40 Fairs Road, Palmerston North.
- ZL2CU—Bell, C., 22 Oswald Street, Gisborne.
- ZL2CV—Fulton, J. M. L. H., 60 Shelbourne Street, Nelson.
- ZL2CW—Gilbert, G. B., 18 Edgecombe Street, Newlands, Wellington 4.
- ZL2CX—Dolan, J. B., 9 Devon Road, Wanganui.
- ZL2CY—Francois, L. G., 21a Avon Place, Richmond, Nelson.
- ZL2CZ—
- ZL2DA—Henderson, B. G., 5 Waipapa Terrace, Wellington 3.
- ZL2DB—Brown, A. D., 138 Wakefield Street, Wellington 1.
- ZL2DC—Chisholm, W. P., 86 Featherston Street, Palmerston North.
- ZL2DD—Scott, D. F., 68 Chatsworth Road, Silverstream.
- ZL2DE—Davis, G. S. F., 40 Leicester Street, Palmerston North.
- ZL2DF—Fraser, D. L., 9 Bentinck Street, Upper Hutt.
- ZL2DG—Bayley, G. S., 902 Churchill Street, Hastings.
- ZL2DH—Welsh, J. W., 37 Hamilton Road, Queenstown.
- ZL2DI—Short, J. H., 80 Savage Crescent, Palmerston North.
- ZL2DJ—
- ZL2DK—Holst, E. A. O., Highway 56, Baines R.D. 7, Palmerston North.
- ZL2DL—MacDonald, J. L., 32 Grey Street, Marton.
- ZL2DM—
- ZL2DN—Lucas, D. C., 30 Russell Street, Westport.
- ZL2DO—Wifer, M. A., 138 Beach Road, Haumoana.
- ZL2DP—Budd, G. L., 59 The Drive, Tawa, Wellington.
- ZL2DQ—
- ZL2DR—Danrell, R. A., 43 Matai Street, Waikanae.
- ZL2DS—Horowhenua Branch NZART Inc., (Trustee: E. P. Tombs), Ihakara, R.D. 1, Levin.
- ZL2DT—Cordy, J. G. G., 50 Strathmore Avenue, Wellington 3.
- ZL2DU—Millane, M. L., 132 Campbell Street, Karori, Wellington 5.
- ZL2DV—Campbell, B. E., 111 Mount View Road, Wanganui.
- ZL2DW—Hughes, W. J. T., 25 Cobden Street, Gisborne.
- ZL2DX—Patchett, G. P., 223 Sutherland Road, Lyall Bay, Wellington 3.
- ZL2DY—Parsons, A. D., 30 John Street, Upper Hutt.
- ZL2DZ—Brasell, C. R., 20 Rimutaka Street, Paraparaumu.

ZL2FA

ZL2FA—Butler, G. B., 46 Winter Street, Gisborne.
 ZL2FB—Matthews, S. C., 36 Peters Avenue, Palmerston North.
 ZL2FC—Coutts, C. G., 35 Daniel Street, Masterton.
 ZL2FD—Butel, D., 39 Mulberry Street, Lower Hutt.
 ZL2FE—Falkner, B. A., 49 Karina Terrace, Palmerston North.
 ZL2FF—Roberts, N. M., 10 Malda Grove, Khandallah, Wellington 4.
 ZL2FG—Torrle, A. W., 66 Ferguson Street, Palmerston North.
 ZL2FH—Garth, P. E., Birch Hill, Motu.
 ZL2FI—Gaunt, P. J., 2 Peterhouse Street, Tawa, Wellington.
 ZL2FJ—Withy, D. G., 16 Kenmore Street, Newlands, Wellington 4.
 ZL2FK—Huggins, W. P., 495 Karaka Bay Road, Wellington 3.
 ZL2FL—Kuring, K. C., 60b Eatwell Avenue, Paraparaumu Beach.
 ZL2FM—Burr, E. J., 87 Stanley Road, Gisborne.
 ZL2FN—Heinz, W. E., 74 Beasley Avenue, Paparangi, Wellington.
 ZL2FO—Brennan, C. F., Tuamoana Road, Lake Rotoiti, Rotorua.
 ZL2FP—
 ZL2FQ—Burgoyne, T. A., 158 St. Vincent Street, Nelson.
 ZL2FR—Dyett, N. D., 71 Coutts Street, Wellington 3.
 ZL2FS—Priest, J. R., 26 Woolcombe Terrace, New Plymouth.
 ZL2FT—Dixon, C. W., 76 Lahore Street, Wairoa.
 ZL2FU—Hird, E. J., 61 Mantell Street, Seatoun, Wellington 3.
 ZL2FV—Richter, B. E., 32 Puriri Terrace, Palmerston North.
 ZL2FW—Harbridge, L. W., 20 Mascot Street, Tawa.
 ZL2FX—Wright, R. J., 11 Church Street, Wellington 1.
 ZL2FY—Harkett, R. J., 57 Ellice Street, Mt Victoria, Wellington 1.
 ZL2FZ—Reeve, R. P., 129 South Road, Masterton.
 ZL2GA—Johnson, D. F. T., 15 Field Street, Upper Hutt.
 ZL2GB—Lovie, I. G. B., 166 Kennedy Road, Napier.
 ZL2GC—Ruane, M., 12 Oakleigh Street, Maungaraki, Lower Hutt.
 ZL2GD—Beaby, R. E., 53 McKinley Crescent, Wellington 2.
 ZL2GE—Brown, J. E., 8 Cardinal Place, Glendowie, Auckland 5.
 ZL2GF—Cooper, C., 14 Rewai Street, Paraparaumu.
 ZL2GG—Smith, W. T., 17 Oxford Street, Palmerston North.
 ZL2GH—Attewell, B. E., 19 Iranui Road, Gisborne.
 ZL2GI—Banks, K. G., 29 Taunton Place, Stoke, Nelson.
 ZL2GJ—Pearce, R. A., 17 Lake Ferry Road, R.D. 2, Featherston.
 ZL2GK—Motueka Branch NZART (Trustee: J. Ross), 30 Trewavas Street, Motueka.
 ZL2GL—Dormer, F. G., Marquet Place, Tairua via Thames.
 ZL2GM—Minshall, G. T., 57 Bedford Street, Northland, Wellington 5.
 ZL2GN—Reakes, G. C., 5 Paisley Street, Levin.
 ZL2GO—Fowles, H. G., 71 Rimu Road, Paraparaumu.
 ZL2GP—
 ZL2GQ—Morgan, R. S. H., 39 Larsen Crescent, Tawa.
 ZL2GR—Stiles, G. R., 34 Brougham Street, Nelson.
 ZL2GS—Henry, A. S., 2C Crescent Street, Richmond.
 ZL2GT—
 ZL2GU—Hanley, R. H., 15 Pirie Street, Palmerston North.
 ZL2GV—Hutton, J. D., Porirua Pharmacy, 18 Mungavin Avenue, Porirua.
 ZL2GW—Beatson, A. P., Orinoco, R.D. 1, Motueka.
 ZL2GX—White, J. M., 152 Lytton Road, Gisborne.
 ZL2GY—Taillie, L. I., Old Post House, Te Kemara Avenue, Pahia.

ZL2GZ—

ZL2HA—Gentry, L. J. (Mrs), 8 Chudleigh Grove, Wellington 4.
 ZL2HB—Anderson, R. W., 17 Moonstone Grove, Upper Hutt.
 ZL2HC—Bradbury, N. H., 19 Avon Street, Waterloo, Lower Hutt.
 ZL2HD—Andrews, J. R., 66 Khandallah Road, Khandallah, Wellington 4.
 ZL2HE—Law, A. E., Mangatoro, Private Bag, Dannervirke.
 ZL2HF—French, W. B., 4 Rata Place, Masterton.
 ZL2HG—Breen, P. W., 75 Douglas McLean Avenue, Napier.
 ZL2HH—Simpson, L. J., 4 Seddon Street, Waikanae.
 ZL2HI—Willis, M. W., 41 Wyoming Avenue, Murrays Bay, Auckland 10.
 ZL2HJ—Garrett, W. E., 22 Waiwera Place, New Plymouth.
 ZL2HK—Reader, D. M., Eastern Bays, R.D., Duvauchelle.
 ZL2HL—Gray, I. T., River Road, Reparoa South.
 ZL2HM—Dinnan, E. J., 6 Warren Street, Paparangi, Wellington 4.
 ZL2HN—Dayman, F. R., 31 Fergusson Drive, Gisborne.
 ZL2HO—Warner, B. A., 8 Willow Grove, Wainuiomata.
 ZL2HP—Kendrick, T. J., 3 Ascot Street, Palmerston North.
 ZL2HQ—White, L., Ladies Mile, Eltham.
 ZL2HR—Pannett, B. W. J., 60 Larsen Crescent, Tawa, Wellington.
 ZL2HS—Shennan, C. V., Great North West Highway (3), P.O. Box 30, Turakina.
 ZL2HT—Hooker, D. D., 17 Durham Drive, Havelock North.
 ZL2HU—Craig, T. M., C/- 8 Linley Place, Levin.
 ZL2HV—Hutt Valley Branch NZART Inc., (Trustees: R. B. Glassey and P. R. Williams), P.O. Box 30-519, Lower Hutt.
 ZL2HW—Marsh, N. O., 16 Harris Street, Waitara.
 ZL2HX—Cossgrave, D. A., 7 Torquay Terrace, Wellington 2.
 ZL2HY—Green, W. J., 6 Ash Street, Gisborne.
 ZL2HZ—Eckford, T. S., 47 Park Terrace, Blenheim.
 ZL2IA—Sturm, A. B., 288 Dowse Drive, Lower Hutt.
 ZL2IB—Dannervirke Branch NZART Inc., (Trustee: B. W. Amies), 8 Ruahine Street, Dannervirke.
 ZL2IC—Sharman, L. A., 43 Tom Parker Avenue, Napier.
 ZL2ID—Black, A. E., 8 McLintock Street, Westpark, Wellington 4.
 ZL2IE—Millard, O. J., Main Road, Clive.
 ZL2IF—Rolle, E. G., 2/14 Arapiki Road, Stoke, Nelson.
 ZL2IG—Tombs, E. P., Ihakara, R.D. 1, Levin.
 ZL2IH—
 ZL2II—Caldwell, D. G., 38 Jubilee Road, Khandallah, Wellington 4.
 ZL2IJ—
 ZL2IK—Mulhare, P. J., 53 Exeter Crescent, Napier.
 ZL2IL—Pottinger, R. S., 32 De Menech Grove, Avalon, Lower Hutt.
 ZL2IM—McLea, O. F., 322 Devon Street West, New Plymouth.
 ZL2IN—Crumpton, R. E., 27 Kapiti Crescent, Titahi Bay.
 ZL2IO—Collins, E. S., Main Road, Wakapuaka, R.D. 1, Nelson.
 ZL2IP—Treeby, R. J., 7 Turehu Street, New Plymouth.
 ZL2IQ—Cassidy, R., 360 Trafalgar Square, Nelson.
 ZL2IR—Cuttriss, N. A., 90 Normandale Road, Lower Hutt.
 ZL2IS—
 ZL2IT—Lilley, E. C. C., 3/10 Caxton Street, Napier.
 ZL2IU—Purdey, R. G., 17 Akatea Street, Berhampore, Wellington 2.
 ZL2IV—Gorman, D. D., 11 David Crescent, Karori, Wellington 5.
 ZL2IW—
 ZL2IX—Parker, C. H., Tiraumea Road, Pahiatua.
 ZL2IY—Gorman, W. D., 15 Hildreth Street, Karori, Wellington 5.
 ZL2IZ—Bartlett, J. R., Valley Road, Gisborne.

ZL2JA—Wanganui Branch NZART (Inc.), (Trustees: B. E. Stewart, F. R. Withers), 2 Peat Street, Wanganui. P.O. Box 7058, St. Johns.

ZL2JB—
ZL2JC—Cook, S. A., 57 Stanley Crescent, Nelson.
ZL2JD—Duncan, J. R., 7 Crown Hill, Onepoto, Titahi Bay.
ZL2JE—Morison, R. D., 40 Kiriwai Road, Paramata.
ZL2JF—
ZL2JG—Anderson, G. A., 20 Leybourne Avenue, Waikanae.
ZL2JH—Nicol, D. S., 12 Hewitts Road, R.D., Linton.
ZL2JI—Thompson, J. P., 1 Healey Place, Gisborne.
ZL2JJ—Byam, S. P., R.D. 2, Waverley.
ZL2JK—Butler, D. B., Gorge Road, R.D., Otaki.
ZL2JL—Prime, D. R., 57 Waerenga Road, Otaki.
ZL2JM—Moore, J. A., 1 Denbigh Street, Feilding.
ZL2JN—Hodder, A. A., 394 Somme Parade, Wanganui.
ZL2JO—Lambert, N. H., 19 Isobel Grove, Wainuiomata.
ZL2JP—Hinchcliffe, R. G., Castlepoint Lighthouse, P.O. Box 183, Masterton.
ZL2JQ—White, J. T., 31 Cawthron Crescent, Nelson.
ZL2JR—Bradley, R. G., 125 Conclusion Street, Ascot Park, Porirua.
ZL2JS—Black, I. W., 46 Harris Street, Marton.
ZL2JT—Mackie, J. B., 8 Tarata Street, Stoke.
ZL2JU—
ZL2JV—Crawford, C. R. H., 20 Chapman Crescent, Naenae.
ZL2JW—Jarvis, M., 52 Churton Drive, Johnsonville, Wellington 4.
ZL2JX—Hodgson, E. R., 20 Colombo Street, Palmerston North.
ZL2JY—Vincent, G. C., Muhunoa East Road, R.D. 20, Ohau, Levin.
ZL2JZ—Dawson, A. H., 34 Hudson Avenue, Upper Hutt.
ZL2KA—Blakeley, P. W., 78 Upland Road, Kelburn, Wellington 5.
ZL2KB—Kapiti Branch 69 NZART Inc. (Trustee: E. A. McPhee), Paraparaumu Beach, P.O. Box 1609.
ZL2KC—Moess, C. R., 13 Churchill Avenue, Feilding.
ZL2KD—Shepherd, D. A. C., 13 View Road, Titahi Bay.
ZL2KE—Smith, W. A. D., Ngakoti Street, Urenui.
ZL2KF—Fellows, S. K., 21 Harbourview Road, Wellington 5.
ZL2KG—Sharland, K. O., Kina Beach Road, R.D. 1, Upper Moutere.
ZL2KH—Bennett, V. H., 57 Victoria Avenue, Palmerston North.
ZL2KI—Armstrong, M. W., 6a North Street, Ava, Petone.
ZL2KJ—Casey, B. F., 45 Ames Street, Paekakariki.
ZL2KK—Kerr, R. F., 22 Pope Street, Cambourne, Pimmerton.
ZL2KL—Johns, T. H., 4 Sydney Place, Wanganui.
ZL2KM—Robertson, G. A., 34 Upham Street, Taradale.
ZL2KN—Trainor, A. P. T., 118 Dimock Street, Titahi Bay, Wellington.
ZL2KO—Manawatu Branch NZART Inc., (Trustee: R. H. Hanley), 15 Pirie Street, Palmerston North. P.O. Box 1718.
ZL2KP—Lowe, E. E., 17 Ellesmere Crescent, Palmerston North.
ZL2KQ—Spier, M. E., 231a Scott Street, Blenheim.
ZL2KR—Cole, K. R., 10b Pohutukawa Crescent, Raumati Beach.
ZL2KS—Marlborough Branch NZART Inc., (Trustee: F. Stretch), Wither Road, Extension, Blenheim.
ZL2KT—Brooker, R. G., Ikanui Road, Hastings.
ZL2KU—Donald, R. J., Long Bay Road, Wyuna Bay, R.D., Coromandel.
ZL2KV—Martin, C. J. T., Mountain Road, Inglewood.
ZL2KW—
ZL2KX—Wickstead, C. G., 1/25 Avondale Road, Taradale, Napier.
ZL2KY—Conner, M. G., 3 Oxford Crescent, Upper Hutt.
ZL2KZ—Kingston, G., 53 Tannadyce Street, Wellington 3.

ZL2NC

ZL2LA—Landsdown Scout Group, Burling Park, Roberts Road, Masterton.
ZL2LB—Milner, M. O., 38 Lincoln Avenue, Tawa.
ZL2LC—
ZL2LD—Munn, P. M., 111 Essex Street, Masterton.
ZL2LE—Pinhey, J., 210 Tukapa Street, New Plymouth.
ZL2LF—Dingley, P. D., C/- Rex Orange, 12 Munro Street, Napier.
ZL2LG—Dunning, S. P., 17 Kanpur Road, Wellington 4.
ZL2LH—Sharland, R. T., 409 Wakefield Quay, Nelson.
ZL2LI—Simpson, C. J. C., 125 Broderick Road, Johnsonville, Wellington 4.
ZL2LJ—O'Grady, P. L., 8 Cambridge Street, Tawa.
ZL2LK—Karamu High School Amateur Radio Club, (Trustee: L. F. Jennings), Windsor Avenue, Hastings.
ZL2LL—Ready, C. S., 46 Rhodes Street, Newtown, Wellington 2.
ZL2LM—Merrick, L. F., 22 Bledisloe Avenue, Nelson.
ZL2LN—Davenport, N. B., 186 High Street, Motueka.
ZL2LO—Kerr, C. M., 73 Cornfoot Street, Wanganui.
ZL2LP—Wickham, H. W., 42 Wilford Street, Upper Hutt.
ZL2LQ—Coote, D., 19 Corlett Road, Pimmerton.
ZL2LR—Schollum, W. D., 150 Rutene Road, Gisborne.
ZL2LS—Kirkland, F. S., Petane Grange, R.D. 2, Napier.
ZL2LT—
ZL2LU—Bustard, A. T., 102a Hillcrest Road, Raumati Beach.
ZL2LV—Ryan, J. F., 44 Sylvan Avenue, Waikanae.
ZL2LW—Wright, L. J., 14 Tennyson Street, Upper Hutt.
ZL2LX—Motion, R., 5 View Road, Melrose, Wellington 3.
ZL2LY—Masters, W. C., 8 Waerenga Road, Otaki.
ZL2LZ—Rumsey, J. R., 21 Malone Road, Lower Hutt.
ZL2MA—McGuire, K. J., 70 Dimock Street, Titahi Bay.
ZL2MB—Montgomerie, J. C., 11 Gardiner Place, Havelock North.
ZL2MC—McPhee, E. A., 15 Bluegum Road, Paraparaumu Beach.
ZL2MD—Mills, C. W., 43 Great North Road, Wanganui.
ZL2ME—Roe, C. R., 44 Daysh Street, Naenae, Lower Hutt.
ZL2MF—O'Leary, B. J., 31 Durie Street, Wanganui.
ZL2MG—Waimarino Branch NZART Inc. (Trustee: G. W. Luscombe), Main Road, Waiouru.
ZL2MH—Neal, E. W., 64 Mairangi Road, Wadestown, Wellington 1.
ZL2MI—McCulloch, J. G., 81 Kemp Street, Kilbirnie, Wellington 3.
ZL2MJ—Perry, F. G., Gorge Road, Otaki.
ZL2MK—Puddy, R. D., 42 Chester Street, Taradale, Napier.
ZL2ML—Castles, C. R., 2 Kauri Street, Gisborne.
ZL2MM—Adcock, H. F., 78 Opaki Road, Masterton.
ZL2MN—Meyer, L. H., 23 Canterbury Street, Tamatea, Napier.
ZL2MO—Brown, N. L., 33 Milton Street, Upper Hutt.
ZL2MP—Powell, W. H., Vogel Street, Shannon.
ZL2MQ—Crook, P. M., 6 Bale Place, Havelock North.
ZL2MR—Blair, D. I., 9 Dickson Crescent, Wanganui.
ZL2MS—Thomasen, L. H., 5 Princes Street, Feilding.
ZL2MT—Railton, G. H., 8 Dell Road, Raumati South.
ZL2MU—Jupp, A. L., 1322 Devon Road, 42 R.D., Waitara.
ZL2MV—Fail, D. G., 68 Brightwater Terrace, Palmerston North.
ZL2MW—Clark, M. J., 115 Maxwell Road, Blenheim.
ZL2MX—Bellini, B. C., 11 Handley Place, New Plymouth.
ZL2MY—Spackman, T. J., 1 Ash Place, R.D. 4, New Plymouth.
ZL2MZ—Pool, B. L., 9 Rembrandt Avenue, Linden.
ZL2NA—Shanks, J. M., 21 Pokohiwi Road, Normandale, Lower Hutt.
ZL2NB—Barlow, F. E., 15 Sutherland Crescent, Melrose, Wellington 3.
ZL2NC—Lethbridge, P. J., 7 Salcombe Terrace, New Plymouth.

ZL2ND

- ZL2ND—Shaw, A. J., "Little Broom", R.D. 2, Napier.
 ZL2NE—Cavanagh, K. J., Grays Road, R.D. 1, Plimmerton.
 ZL2NF—Frazer, G. C., 14 Hinton Road, Napier.
 ZL2NG—Aked, M. S., 10 Vaucluse Avenue, Paraparaumu Beach.
 ZL2NH—Bayly, R. B., Wainui Road, Gisborne.
 ZL2NI—Dumbleton, G. W., 6 Naughton Terrace, Kilbirnie, Wellington 3.
 ZL2NJ—Tarrant, P. E., 104 Main Street, Foxton.
 ZL2NK—Donaldson, B. J., Wellington Radio, P.B., Wellington.
 ZL2NL—Clinch, V. J., 20 Scotland Street, Picton.
 ZL2NM—Stewart, H. A. S., Lockwood Road, R.D. 5, Palmerston North.
 ZL2NN—Pye, J. C., 33 Wyndham Road, Pinehaven, Upper Hutt.
 ZL2NO—Grace, K. E., 9 Te Ara Road, Pukerua Bay.
 ZL2NP—Smith, F. J. A., 78 Meeanee Road, Taradale, Napier.
 ZL2NQ—Evaroa, D. T., C/- Makara Radio, Private Bag, Karori, Wellington.
 ZL2NR—Rubery, T. F., 3 McDonald Place, Marton.
 ZL2NS—Douche, W. P., 347 Ohiro Road, Brooklyn, Wellington 2.
 ZL2NT—Sutton, C. H., 6 Andrew Street, Stoke, Nelson.
 ZL2NU—Budd, L. A., 69 Tahuri Street, Manaia, Taranaki.
 ZL2NV—Johnston, A. F., 21 Brooklin Avenue, Atawhai, Nelson.
 ZL2NW—Newcombe, C. H., 28 Coverdale Street, Napier.
 ZL2NX—Bell, L. G., 80 Seatoun Heights Road, Wellington 3.
 ZL2NY—Weissberg, B. G., Otuhu Road, R.D. 9, Whangarei.
 ZL2NZ—Milner, G. L. (Mrs), 38 Lincoln Avenue, Tawa, Wellington.
 ZL2OA—Wairarapa Branch NZART, Hood Aerodrome, Manaia Road, Masterton.
 ZL2OB—Pye-Smith, J., St Arnaud, R.M.D., Nelson.
 ZL2OC—Lambie, W. L., 230 Taita Drive, Lower Hutt.
 ZL2OD—Barnes, W. D., 142 Renall Street, Masterton.
 ZL2OE—Logan, D. J., 42 Horokiwi Road, Newlands, Wellington 4.
 ZL2OF—Fentelow, L. C., Kina Road, No 1 R.D., Opanake.
 ZL2OG—Chisnall, R. R., 135 Muller Road, Blenheim.
 ZL2OH—McMillan, W. I., 7 Hillary Street, Tawa.
 ZL2OI—Upchurch, G. E., 22d Puriri Street, Wanganui.
 ZL2OJ—
 ZL2OK—Dickson, A. J., 18 Manuka Street, Palmerston North.
 ZL2OL—Sigglekow, R. W., 9 Raukawa Street, Stokes Valley.
 ZL2OM—Blagdon, R. W., 9 Knights Avenue, Paraparaumu Beach.
 ZL2ON—Symons, R. T., 11 Blenheim Street, Taradale.
 ZL2OO—Smith, A. H., Rangiotu-Rongotea Road, R.D. 7, Palmerston North.
 ZL2OP—Scambary, G. E., 54 Athlone Crescent, Lower Hutt.
 ZL2OQ—Prichard, G. H., 14 Queen's Road, New Plymouth.
 ZL2OR—Osborne, D. O., 9 Greenock Place, Palmerston North.
 ZL2OS—Lonsdale, J., 41 Maxwell Avenue, Wanganui.
 ZL2OT—Girling, J. R., 23 Miro Street, New Plymouth.
 ZL2OU—
 ZL2OV—Lee, W. C., 11 Henderson Street, Karori, Wellington 5.
 ZL2OW—Forbes, W. D., 28 Strathmore Avenue, Seatoun, Wellington 3.
 ZL2OX—Turner, R., 10 Guadeloupe Crescent, Grenada Village, Wellington 4.
 ZL2OY—Dobbing, S. J., 56 Pohutukawa Drive, Pukete, Hamilton.
 ZL2OZ—Martin, O. W., 21b Cadman Street, Dannevirke.
 ZL2PA—Leete, J. B., 22 Landsdowne Crescent, Masterton.
 ZL2PB—McLaren, H. B., 49 Green Street, Tahunanui, Nelson.
 ZL2PC—Mitchell, G. W., 20 Tainui Street, Raumati Beach.
 ZL2PD—Woodfield, A. O. J., 8 Beatty Avenue, Karori, Wellington 5.
 ZL2PE—Watkins, H. L., 73 Argyle Avenue, Palmerston North.
 ZL2PF—King, T., 126 Russell Street, Gisborne.
 ZL2PG—Laird, A. K., 79 Totara Crescent, Waterloo, Lower Hutt.
 ZL2PH—Hanify, G. C. P., 18 Rangiora Avenue, Kaiwharawhara, Wellington 4.
 ZL2PI—Treleaven, A. R., 88 Monrad Street, Palmerston North.
 ZL2PJ—Spellman, P. J., 36 Record Street, New Plymouth.
 ZL2PK—Allan, J. L., 56 Para Place, Miramar, Wellington 3.
 ZL2PL—Young, C. T., 3a Princeton Road, Raumati Beach.
 ZL2PM—Coneybeer, G. B., 103 Campbell Street, Wanganui.
 ZL2PN—Robinson, V. E., 43 Hillcrest Street, Masterton.
 ZL2PO—Tout, R. E., 547 Rocks Road, Nelson.
 ZL2PP—Sinclair, J. D. J., 13 Marlowe Street, Stoke, Nelson.
 ZL2PQ—Sayer, L. A., 84 Herbert Street, Masterton.
 ZL2PR—Speedy, S. B., "Woodbank", P.B. Dannevirke.
 ZL2PS—Petone Technical Inst. Radio Club, 19 Camillia Terrace, Lower Hutt.
 ZL2PT—Meyrick, B. B. P., 14 Churcher Street, Feilding.
 ZL2PU—Pye, J. T., 33 Wyndham Road, Pinehaven, Upper Hutt.
 ZL2PV—Molony, M., 66 Longfellow Street, Upper Hutt.
 ZL2PW—Vickers, E., 120 Heta Road, New Plymouth.
 ZL2PX—Nelson Polytechnic Radio Society, C/- Electrical Engineering Department, P.B. Nelson.
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 ZL2PZ—Russell, D. L., 105 Orangi Kaupapa Road, Wellington 5.
 ZL2QA—Kermeen, L. V., 22 Chittick Street, Stokes Valley.
 ZL2QB—Trustum, H. N. J., 35 Waimea Road, Waikanae Beach, Waikanae.
 ZL2QC—Noble, W. A., 161 Grand Drive, Remuera, Auckland 5.
 ZL2QD—de la Cour, C., 17 The Drive, Tawa.
 ZL2QE—Byrn, H. L., 77 Renall Street, Masterton.
 ZL2QF—Patea Branch NZART Inc., (Trustee: D. W. Robinson), 88 Wanawapou Road, Hawera.
 ZL2QG—Brunton, W.R., 98 Hospital Road, Blenheim.
 ZL2QH—Barnes, C. J., 8 Second Street, Masterton.
 ZL2QI—Cheesman, R. A., 20 Parkway, Wainuiomata.
 ZL2QJ—Lane, L. A., 41 Punga Street, Tangimoana.
 ZL2QK—Kenny, E. J., 5 Townley Street, Gisborne.
 ZL2QL—Neilson, L., 187 West Street, Greytown.
 ZL2QM—Burry, J. P. P., 4 Barnett Place, Piramai.
 ZL2QN—Burrell, G. A., 20a Tawa Terrace, Tawa.
 ZL2QO—
 ZL2QP—Smith, W. E., 7 Fox Street, Opanake.
 ZL2QQ—Cook, S. T., 57 Stanley Crescent, Nelson.
 ZL2QR—Abel, A. J., 20 Ranfurly Road, Feilding.
 ZL2QS—Padman, N. B., 12a McHardy Street, Havelock North.
 ZL2QT—
 ZL2QU—Hitchins, M. J., 56 Tutere Street, Waikanae.
 ZL2QV—
 ZL2QW—Carr, P., 21 Hardie Grove, Featherston.
 ZL2QX—Robinson, D. M., 21 Blackmore Drive, Rotorua.
 ZL2QY—Neilson, P. D. (Mrs), 13 Matene Street, Otaki.
 ZL2QZ—Wright, B. E., 27 Stanley Street, Wainuiomata.
 ZL2RA—Petrie, B. J. N., 17 Glen Road, Raumati South.
 ZL2RB—Thompson, C. I. N., 19 Bideford Street, New Plymouth.
 ZL2RC—Jackett, N. K., 404 Pepper Street, Hastings.
 ZL2RD—Andrews, N. A., Wensley Road, Richmond, Nelson.

ZL2RE—Norling, E. W. J., 17 Ngarimu Street, Palmerston North.

ZL2RF—Fletcher, A. E., 480 Ferguson Drive, Upper Hutt.

ZL2RG—Robb, P. J., 19 Seon Place, Birkdale, Auckland 10.

ZL2RH—Munro, C. R., Holborn Parade, Foxton Beach.

ZL2RI—Savell, B. E., 4 Burnham Street, Petone.

ZL2RJ—Hopgood, D. J., 45 Lomita Road, Johnsonville, Wellington 4.

ZL2RK—McKenzie, K., 17 Karepa Street, Brooklyn, Wellington 2.

ZL2RL—Berg, L. B., 8 Waikare Avenue, Lower Hutt.

ZL2RM—Ross, A., 35 Purau Avenue, Diamond Harbour, Lyttelton.

ZL2RN—Royal Naval Amateur Radio Society, (NZ Branch), (Trustee: N. A. T. Hardy), 55 Kakariki Grove, Waikanae.

ZL2RO—Ashford, J. W., 99 Queen Street, Richmond.

ZL2RP—Goodger, B. E. G., 15 Waterworth Avenue, Napier.

ZL2RQ—Small, J., 3 Bristol Street, Upper Hutt.

ZL2RR—Tucker, S. A., 48a Cleghorn Street, Blenheim.

ZL2RS—Will, J. H., P.O. Box 249, Feilding.

ZL2RT—Jackson, H. R., Takarei Terrace, Mokau.

ZL2RU—Rowe, I. S., 88 Washington Avenue, Brooklyn, Wellington 2.

ZL2RV—Wells, R. E., Tawhara Station, Wairoa.

ZL2RW—Farrell, P. J., 30 Coverdale Street, Napier.

ZL2RX—Randall, R. E. B., 32 Rotomanu Crescent, Mangakino.

ZL2RY—Baker, P. N., 100 Tiriti Road, Titahi Bay.

ZL2RZ—Wall, A. M., "Glentui", Homeward Road, R.D. 12, Masterton.

ZL2SA—Hamer, B., 5 Harewood Grove, Fendalton Park, Upper Hutt.

ZL2SB—Petherick, E. R., 23 Anaru Street, Raumati Beach.

ZL2SC—Sickler, R. A., 3 Mahoe Street, New Plymouth.

ZL2SD—White, R. L., 74 Norbiton Road, Foxton.

ZL2SE—

ZL2SF—Lewis, A. W., 18 Finlay Terrace, Mt. Cook, Wellington 2.

ZL2SG—Kingston, R. H., 19 Trigg Crescent, Taradale, Napier.

ZL2SH—Beale, A. L., 14 Te Oti Street, Paraparaumu Beach.

ZL2SI—Winn, W. H., 7a Telford Crescent, Oakura.

ZL2SJ—Norden, A. P., 81 Horoka Street, Stokes Valley.

ZL2SK—Adamson, D. P., 17 Florence Avenue, Palmerston North.

ZL2SL—Gibson, E. N., House 11, Makara Radio, Private Bag, Karori, Wellington 5.

ZL2SM—Knox, G., 46 Moores Valley Road, Wainioma.

ZL2SN—Black, R. B., Omaha Road, R.D. 5, Hastings.

ZL2SO—McDonnell, D., 124 Cook Street, Palmerston North.

ZL2SP—Pahiatua Branch NZART (Inc.), (Trustee: H. Angelini), Main Road North, Pahiatua.

ZL2SQ—McQuillan, H., Tasman R.D. 1, Upper Moutere.

ZL2SR—Carran, S. R., 26 Arawa Road, Hataitai, Wellington 3.

ZL2SS—

ZL2ST—Roife, D., 12 Haydon Street, Palmerston North.

ZL2SU—Harris, J. R., 3 John Street, Stokes Valley.

ZL2SV—Searle, J. N. L., 62 Gurney Road, Kelson, Lower Hutt.

ZL2SW—Wedderspoon, W., F7/2 Scarborough Terrace, Mount Victoria, Wellington 3.

ZL2SX—Andrews, D. V., 66 Khandallah Road, Wellington 4.

ZL2SY—Hartwell, L. W., 41 Kells Avenue, Wanganui.

ZL2SZ—Pye, E. G. (Mrs), 33 Wyndham Road, Pinehaven, Upper Hutt.

ZL2TA—McNearnie, K. B., 8 Dunk Place, Palmerston North.

ZL2TB—Linney, E., 191 California Drive, Totara Park, Upper Hutt.

ZL2VB

ZL2TC—Dale, K. W., 4 Foyle Street, Wellington 2.

ZL2TD—Murphy, A., Haven Road, Collingwood, Nelson.

ZL2TE—Ireson, S., 21 Woodleigh Street, New Plymouth.

ZL2TF—McKelvie, H. J. M., 32 Fitzroy Street, Napier.

ZL2TG—Parker, B. W., 59 Routley Crescent, Upper Hutt.

ZL2TH—Weenink, H., 16 Mahoe Street, Lower Hutt.

ZL2TI—Conner, D. P., 40 Marewa Road, Hataitai, Wellington 3.

ZL2TJ—Torley, J. D., 37 Fitzroy Road, Napier.

ZL2TK—Garing, T. R., 17 Cotswold Crescent, Newlands, Wellington 4.

ZL2TL—Wright, H. A. L., 130 Pukepapa Road, Marton.

ZL2TM—Mulvena, M. J., 82 Whites Road, Hope.

ZL2TN—Brighting, T. L., 18 Ashford Avenue, Palmerston North.

ZL2TO—Waitara Branch NZART (Trustee: D. B. Allen), 1 Brookes Terrace, Waitara.

ZL2TP—Pascoe, E. J., 22 Centennial Crescent, Gisborne.

ZL2TQ—Jensen, R. T., 33 Iona Road, Havelock North.

ZL2TR—Laurie, G., 37 Handyside Street, Linden, Wellington.

ZL2TS—Nixon, H. W. J., 19 Bay Drive, Titahi Bay, Wellington.

ZL2TT—Wills, R. E., 20 Bledisloe Crescent, Wainuiomata.

ZL2TU—

ZL2TV—Boyer, J. P., 32 Beachville Crescent, Nelson.

ZL2TW—McCutcheon, O. D. F., C/- 13 Moeller Street, Taradale.

ZL2TX—Hardy, N. A. T., 55 Kakariki Grove, Waikanae.

ZL2TY—

ZL2TZ—Scott, L. V., 7/46 Washington Avenue, Brooklyn, Wellington 2.

ZL2UA—Vickers, E. R., 87 Townsend Road, Miramar, Wellington 3.

ZL2UB—Lowe, J. M., 23 Te Whiti Road, Korokoro, Petone.

ZL2UC—Saunderson, R. W., 26 Waiho Terrace, Porirua.

ZL2UD—Rodda, P. J., 11 Avion Terrace, Paraparaumu Beach.

ZL2UE—Kibblewhite, K. W., 13 Rangitikei Street, Wanganui East.

ZL2UF—Arthur, D. B., 216a Harris Street, Kaiti, Gisborne.

ZL2UG—Richardson, A. S., 9 Rimu Street, New Plymouth.

ZL2UH—Leslie, D. A., 3 Carter Street, Belmont, Lower Hutt.

ZL2UI—Bailey, I. L., 42 Catlins Crescent, Palmerston North. 2UJ—Allan, L. L. (Mrs), 56 Para Place, Miramar, Wellington 3.

ZL2UK—Hufts, C. H., 11 Margaret Street, Levin.

ZL2UL—Lyford, A. W., 8 Roto Street, Tahunanui, Nelson.

ZL2UM—Hollard, C. S., Main Road, Urenui R.D., New Plymouth.

ZL2UN—Robinson, C. B., 58 Denbigh Road, Fielding, P.O. Box 429.

ZL2UO—Ellison, W. L., 1 Ra Roa Flats, Main North Road, Westshore, Napier.

ZL2UP—Pert, P. E., 7 Agate Grove, Upper Hutt.

ZL2UQ—Williams, R. C., 16 Brooker Grove, Newlands, Wellington 4.

ZL2UR—Lockie, H. A., 70 Cashmere Avenue, Wellington 4.

ZL2US—Gawn, J. E., 44 Lonsdale Crescent, Wellington 3.

ZL2UT—Davoren, B. J., 25 Rutene Street, Gisborne.

ZL2UU—Hannah, R. J., 806 Dufferin Street, Hastings.

ZL2UV—Kibble, A. R., Horokiwi Hill, Petone.

ZL2UW—Naulls, R. D., 14 Miriona Grove, Paekakariki.

ZL2UX—

ZL2UY—Parker, H. J., 15 Bush Street, Naenae, Lower Hutt.

ZL2UZ—Spotswood College Amateur Radio Club, (Trustee: B. P. Finch), Private Bag, New Plymouth.

ZL2VA—Vaughan, D. L., 3 Chaffey Crescent, Titahi Bay, Wellington.

ZL2VB—Browne, A. H., 98 Renown Road, Raumati South.

ZL2VC

ZL2VC—Zawodny, C. J., 21 Holdsworth Road, New Plymouth.

ZL2VD—Tideman, A. L., R.D. 2, Nelson.

ZL2VE—Hansen, G. H., 9 Sanders Avenue, Napier.

ZL2VF—Ross, J., Post Office, Motueka.

ZL2VG—Smith, I. R., "Lyndon", R.D. 3, Te Karaka.

ZL2VH—Upper Hutt Branch NZART Inc., (Trustee: G. F. Smith), Upper Hutt Civil Defence Buildings, Upper Hutt.

ZL2VI—Manning, E. E., 655 Aberdeen Road, Gisborne.

ZL2VJ—Angelini, H. J., R.D., Pahiatua.

ZL2VK—Wallace, I. R., 22 Parson Street, Wanganui.

ZL2VL—

ZL2VM—Bull, M. B., 51 Liverpool Crescent, Napier.

ZL2VN—Gaudin, W. G., 18 Trafalgar Street, New Plymouth.

ZL2VO—Hayman, G. C., 73 Makora Road, Masterton.

ZL2VP—Cheshire, A. H., 5 Seddon Street, Upper Hutt.

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ZL2VR—Chapman, D. J., 459 Kennedy Road, Napier.

ZL2VS—Miller, H. R., 41 Alexandra Street, Marton.

ZL2VT—Arthur, A. J. (Mrs), 216a Harris Street, Gisborne.

ZL2VU—Freeman, J. F., 88 Marell Drive, Red Beach, Orewa.

ZL2VV—Henry, R. G., 76 Virginia Road, Wanganui.

ZL2VW—Gray, O. T., 16 Gonville Avenue, Wanganui.

ZL2VX—Dickson, S., 67 Mills Road, Wellington 2.

ZL2VY—Klein, B. J., 49 Milne Crescent, Taita.

ZL2VZ—Eyles, J. R., 30 Surrey Street, Richmond.

ZL2WA—Wellington VHF Group (Trustee: P. R. Williams), P.O. Box 12-259, Wellington.

ZL2WB—Wellington Branch NZART Inc., (Trustee: W. D. Gorman), 40 Awe Road, Seatoun, Wellington 3.

ZL2WC—Crabtree, W. D., P.O. Box 87, Napier.

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ZL2WE—Stead, J. C., 908 Clive Street, Hastings.

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ZL2WH—McAuley, A. W., 151 Townsend Road, Miramar, Wellington 3.

ZL2WI—Wilkinson, J. G., 40 Konene Street, Rotorua.

ZL2WJ—Ross, J. B., Moncrieff Avenue, Tahunanui, Nelson.

ZL2WK—Hattersley, S. G., 15 Rata Street, Nelson.

ZL2WL—Hurrell, L. W., 9 Hereford Place, Tamatea, Napier.

ZL2WM—Lagerstedt, E. C., 83 Gordon Street, Dannevirke.

ZL2WN—Carlisle, J. W., 32 Nile Street, Lower Hutt.

ZL2WO—Burnett, A. M. R., 51 Cawthorn Crescent, Wakatu, Nelson.

ZL2WP—Ohakea Transmitting Club, (Trustee: J. L. McDonald), RNZAF Base, Ohakea.

ZL2WQ—

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ZL2AAB—Cole, G. H., 26 Wensley Road, Richmond.

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ZL2AAD—Bartlett, L. R., 9 Waverley Street, Gisborne.

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ZL2AAS—McCutcheon, H. A., 351 High Street, Dannevirke.

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ZL2ABF—Foley, T. J., 115 Taradale Road, Napier.

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ZL2ANL—McNeill, J. H., 19 Russell Street, Marton.

ZL2ANM—Butler, R. J., 1a Blake Street, Waitara.

ZL2ANN—Rahotu Coastal Branch NZART Inc., (Trustee: C/- L. C. Pentelov), Kina Road, Opunake.

ZL2ANO—

ZL2ANP—Williamson, J. J., Waituna, 9 R.D., Feilding.

ZL2ANQ—Keane, Rev. P. M., 61 Main Road, Makaraka, Gisborne.

ZL2ANR—Robertson, J., 100 Cluny Road, Plimmerton.

ZL2ANS—Martin, D. W., 111 Avenue Road, Greenmeadows, Napier.

ZL2ANT—

ZL2ANU—Bennett, K. P., 44b Wither Road, Blenheim.

ZL2ANV—

ZL2ANW—White, R. W., 10 Wairere Road, Wanganui.

ZL2ANX—Central Institute of Technology Radio Club, (Trustee: D. St. J., Keenan), C1T, Somme Road, Trentham.

ZL2ANY—Williams, C. F., 10 Atkinson Street, Normanby.

ZL2ANZ—Barber, V. L., 36 Roslyn Road, Napier.

ZL2AOA—Wall, T. F., Mahaki, R.D. 1, Martinborough.

ZL2AOB—Parker, D. T., 7 Darwin Road, Gisborne.

ZL2AOC—Hamilton, A. M. M., 39 Ngaio Road, Keltburn, Wellington 5.

ZL2AOD—Catterall, J. A., Parkers Road, Tahunanui, Nelson.

ZL2AOE—Wood, T. E., 12 Rerewe Grove, Oaklands, Upper Hutt.

ZL2AOF—Reardon, V. W., Autler Road, Manaia.

ZL2AOG—Green, G. R., 168 High Street, Bulls.

ZL2AOH—Tompkins, M. A., Karewarewa Road, Rangiwhia.

ZL2AOI—Malkin, E., 1007 Konini Street, Hastings.

ZL2AOJ—Ryder, S. F., 67 Gillespies Road, Upper Hutt.

ZL2AOK—Ross, D. H., 5 Stamford Grove, Lower Hutt.

ZL2AOL—McBeth, D. O., Ridgewood Drive, R.D. 1, New Plymouth.

ZL2AOM—

ZL2AON—Crossley, R. S., 15 Broadhead Avenue, Wanganui.

ZL2AOO—

ZL2AOP—Mackintosh, A. B., 34 Marian Drive, Gisborne.

ZL2AOQ—Moodie, L. S., 105 Messines Road, Karori, Wellington 5.

ZL2AOR—Langevad, M. W., 21 Estuary Road, Weymouth, Auckland.

ZL2AOS—

ZL2AOT—Yanko, P. L., 35 Freyberg Terrace, Greymouth.

ZL2AOU—Howan, V. E. (Mrs), 59 Houghton Bay Road, Wellington 3.

ZL2AOV—McNeil, D. A., 58 Fraser Avenue, Johnsonville, Wellington 4.

ZL2AOW—Purvis, R. H., Violet Street, Waihi.

ZL2AOX—Edwards, M. R., Nui Dat Barracks, Fort Dorset, Seatoun, Wellington.

ZL2AOY—Robertson, J. G., 550 Queen Street, Levin.

ZL2AOZ—Davidson, W. E., No. 10 R.D., Palmerston North.

ZL2APA—Chippendale, J. G., R.D. 29, Kaponga.

ZL2APB—

ZL2APC—Burton, H., 34 Hathaway Avenue, Wellington 5.

ZL2APD

ZL2APD—Holmwood, E. A., 23 Featherston Street, Palmerston North.

ZL2APE—Parnell, J. C., 87 Duncan Terrace, Wellington 3.

ZL2APF—Lusty, F. W., 40 Ihia Street, Waitara.

ZL2APG—Sutherland, N., 75 Weld Street, Wellington 1.

ZL2APH—Haisman, R. A., 27 Valley Road, Gisborne.

ZL2API—Gillette, H. C., 6 Mahoe Avenue, Palmerston North.

ZL2APJ—Vaughan, R. G., 205 Rosetta Road, Raumati Beach.

ZL2APK—Campbell, E. P., 7 Reeve Drive, Havelock North.

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ZL2APQ—Aydin, A., 71 Weka Street, Nelson.

ZL2APR—Pope, T. R., 80 Victoria Street, Carterton.

ZL2APS—Sullivan, D. H., 51 Bath Street, Levin.

ZL2APT—Ropata, P. T., 11 Kittyhawk Row, Bulls.

ZL2APU—

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ZL2APW—Vickerman, J. R., 187 Belvedere Road, Carterton.

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ZL2APY—Hartwig, G., 66 Lincoln Street, Ashhurst.

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ZL2AQE—Shorland, J. H., 12 Lenox Grove, Wellington 4.

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ZL2AQI—Cheyne, J. A., 12 Aberdeen Avenue, Palmerston North.

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ZL2AQM—

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ZL2AQS—Duckworth, P. D., 7 Einstein Street, Gisborne.

ZL2AQT—Gabb, K. J., 2 Bath Street, Trentham.

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ZL2AQV—Smith, R. E., 8 Dell Road, Raumati South.

ZL2AQW—Laing, D. J. H., 6 McDonald Street, Taita, Lower Hutt.

ZL2AQX—MacArtney, R. A., 7 Fromont Street, Wanganui.

ZL2AQY—Olson, E. L., 58 Titania Street, Stratford.

ZL2AQZ—Edgecombe, C. J., Ngawhini Road, Ararata, R.D., Hawera.

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ZL2ARF—

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ZL2ARH—Robinson, D. A., 25 Hurahura Road, Gisborne.

ZL2ARI—Wills, A. J., 73 Donovan Road, Paraparaumu.

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ZL2ARK—Wilkins, R. R., Iona Road, Havelock North.

ZL2ARL—Prior, R. T., 28 Shelley Street, Palmerston North.

ZL2ARM—Peel, J. S., 19 The Esplanade, Westshore, Napier.

ZL2ARN—Stewart, D. G., 1 Edgewater Street, Waikanae.

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ZL2ARQ—

ZL2ARR—House, T. S. R., 115 Brougham Street, Wellington 2.

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ZL2ARV—Black, R. C., 25 Marsden Road, Stoke, Nelson.

ZL2ARW—Williams, P. R., 15 Pinny Avenue, Lower Hutt.

ZL2ARX—Pomfret-Brown, G. E., 34 Leicester Street, Stoke, Nelson.

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ZL2ASF—Fogerty, S. F., 367 High Street, Motueka.

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ZL2ASK—Tuffnell, B. R., 5 Champion Road, Richmond.

ZL2ASL—Leitch, J. H., Dudley Road, R.D. 6, Inglewood.

ZL2ASM—Glew, R. E., 58 Hendersons Line, Marton.

ZL2ASN—Soughton, R. G., 29 Moore Street, Featherston.

ZL2ASO—Sewell, J. R., 57 Hine Street, Wainuiomata.

ZL2ASP—Colquhoun, T. R., 39 Melrose Street, Island Bay, Wellington 2.

ZL2ASQ—

ZL2ASR—Gilli, A. H., Middle Road, R.D. 11, Hastings.

ZL2ASS—

ZL2AST—Groombridge, J. E., 15 Oakleigh Street, Maungaraki, Lower Hutt.

ZL2ASU—Grainger, R. E., 6 Joli Street, Karori, Wellington 5.

ZL2ASV—

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ZL2ASZ—

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 ZL2ATQ—No. 21 Squadron Air Training Corps Radio Club, (Trustee: W. B. French), Cornwall Place, Masterton.
 ZL2ATR—
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 ZL2AUD—Martin, W., 4 Bella Grove, Naenae, Lower Hutt.
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 ZL2AUG—Farquharson, W. L., 12b Collie Street, Manurewa.
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 ZL2AUO—Bould, J. R., 5 Beatty Street, Levin.
 ZL2AUP—Stephens, D. A., 2 Riverbend Road, Napier.
 ZL2AUQ—Delaware Guide Company Radio Club, (Trustee: J. H. Bromley, 56 Tui Glen Road, Atawhai, Nelson.
 ZL2AUR—Tong, Tse-Ying, 24 Flanders Avenue, Napier.
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 ZL2AVG—
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 ZL2AVQ—Dement, F. W. H., 162 Bartholemew Road, Levin.
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 ZL2AVS—Heath, B. O., 32 Nikau Street, Eastbourne.
 ZL2AVT—Tremear, K. D., 12a Thynne Street, Foxton.
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 ZL2AVV—Hewitt, I. R., 21 Camerons Line, R.D. 5, Feilding.
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 ZL2AWW—Hawera Branch NZART (Inc.), 2 Milmo Street, Hawera.
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ZL2AXC

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 ZL2AXW—
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 ZL2AZX—
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 ZL2BAK—
 ZL2BAL—Laing, A. J., 4/454 Church Street, Palmerston North.
 ZL2BAM—Durdle, B. M., 27a Montana Place, New Plymouth.
 ZL2BAN—Davison, G., Forlongs Road, R.D. 7, Feilding.
 ZL2BAO—Wilson, J. E., 808 Kiwi Street, Hastings.
 ZL2BAP—McDonald, R. N., 17 Brougham Street, Wellington 1.
 ZL2BAQ—Carr, P. H., 17 Timaru Grove, Kelson, Lower Hutt.
 ZL2BAR—Allardice, M. H., 49 Raykott Terrace, Wellington 4.
 ZL2BAS—Longly, S. McL., 9 Lambton Road, Napier.
 ZL2BAT—Ramage, B. H., 39 West Street, Greytown.
 ZL2BAU—Mallett, P. J., 40 Martin Street, Monaco.
 ZL2BAV—
 ZL2BAW—McCarron, J. R., 24 Marewa Road, Hataitai, Wellington 3.
 ZL2BAX—Stevens, E. F., 60 Kuratatawhiti Street, Greytown, Wairarapa.
 ZL2BAY—Elvy, S. J., 176a Scott Street, Blenheim.
 ZL2BAZ—Forrester, I. J., 3 Duncraig Road, Silverstream, Upper Hutt.
 ZL2BBA—Rundie, W. J., 5 Downsview Place, Pukerua Bay.
 ZL2BBB—Hearn, W. J., 125 Renown Road, Raumati.
 ZL2BBC—
 ZL2BBD—Urwin, H. C. R., 14 Brook Street, Nelson.
 ZL2BBE—
 ZL2BBF—Feickert, B., 61 Field Street, Silverstream.
 ZL2BBG—Withers, F. R., 19 Brassey Road, Wanganui.

ZL2BBH—Jansen, J. H., 1 Pufflett Road, Havelock North.
 ZL2BBI—
 ZL2BBJ—Corney, A. C., 43 Clutha Avenue, Wellington 4.
 ZL2BBK—
 ZL2BBL—Barwick, L. G. A., 2/14 Rotherham Street, Christchurch 4.
 ZL2BBM—Black, E. G., 119 The Ridgeway Vogeltown, Wellington 2.
 ZL2BBN—Finch, B. P., 142 Brooklands Road, New Plymouth.
 ZL2BBO—Lealand, T. P., 16a Hunter Street, Hawera.
 ZL2BBP—Childs, P. L., 30 Snowdens Crescent, Blenheim.
 ZL2BBQ—Edgar, M. M., 8A Lemari Avenue, Stoke, Nelson.
 ZL2BBR—1st Greytown Scout Troop R.C. (Trustee: J. Bicknell, Papawai Road, Greytown).
 ZL2BBS—Doig, A. M., 68 Arlie Road, Pimmeton.
 ZL2BBT—Grove, K. E., 3 Lomond Street, Newlands, Wellington 4.
 ZL2BBU—Pearmain, C. E., 47 Alton Street, Nelson.
 ZL2BBV—Gorst, T. H., 2 Belmont Street, Havelock North.
 ZL2BBW—Byles, T. W., 16 Wedgewood Grove, Palmerston North.
 ZL2BBX—Buchanan, T. M., 9 Manchester Street, Petone.
 ZL2BBY—Bray, H. J. J., 7 Alexandra Road, Wellington 3.
 ZL2BBZ—Dickson, L. P., Lower Okoki Road, 45 R.D., Urenui.
 ZL2BCA—Scott, D. L., 10 Waimea Road, Nelson.
 ZL2BCB—Tunncliffe, C. G., 128 Vogel Street, Palmerston North.
 ZL2BCC—Chang, A. G. M., 3 Maple Grove, Maungaraki, Lower Hutt.
 ZL2BCD—Dean, F. R. J., 47 Tweed Road, Papakowhai.
 ZL2BCE—Race, C. P., 985 Fergusson Drive, Upper Hutt.
 ZL2BCF—Pratt, D. H., 15 Trigg Streetm Momona, Dunedin.
 ZL2BCG—Jackson, J., 19 Grey Street, Motueka.
 ZL2BCH—Brayshaw, K. V., 63 Balfour Street, Wellington 2.
 ZL2BCI—Brownlie, J. A., Nga-Tuhoe Station, Private Bag 191, Wairoa.
 ZL2BCJ—Hui, S. Y., 7/4 Scarborough Terrace, Mt. Victoria, Wellington 1.
 ZL2BCK—Thorp, G. R., 110 Riverbend Road, Napier.
 ZL2BCL—Dagg, A. H., 77 Barker Road, Marewa, Napier.
 ZL2BCM—Hargreaves, D. P., 301 Beresford Street, Hastings.
 ZL2BCN—Littin, P. L., 56 Tanera Crescent, Brooklyn, Wellington 2.
 ZL2BCO—Gooch, G. M., Mangatarata Road, Waipukurau.
 ZL2BCP—Bromley, J. H., 56 Tui Glen Road, Atawhai, Nelson.
 ZL2BCQ—
 ZL2BCR—
 ZL2BCS—Hooker, B. C. A., 704a Duke Street, Hastings.
 ZL2BCT—Clements, D. J., Main Road, Greytown.
 ZL2BCU—Stephenson, W. R., Allandale R.D. 1, Greytown.
 ZL2BCV—Williams, C. W., 151 Waihi Road, Hawera.
 ZL2BCW—Kerr, M. J. B., 50a Chelmsford Street, Wellington 4.
 ZL2BCX—Luxford, J. W., R.D. 9, Feilding.
 ZL2BCY—Wallen, E. J., 66 Wildish Street, Gisborne.
 ZL2BCZ—Bailey, I. K., 21 Monrad Street, Palmerston North.
 ZL2BDA—Angus, R. H. R., 89 Tareadale Road, Napier.
 ZL2BDB—Herbert, J. W., 2 Rose Flats, 17 Totara Street, Upper Hutt.
 ZL2BDC—Smith, A. A., 18 Nikau Street, Wanganui.
 ZL2BDD—Harris, R. S., Mt. Addo, R.D. 4, Blenheim.
 ZL2BDE—Gisborne Boys' High School Radio Club (Trustee: W. G. Renner), Roebuck Road, Gisborne.
 ZL2BDF—Garratt, H., 172 Knights Road, Lower Hutt.
 ZL2BDG—Head, B. P., 80 Somerset Road, Wanganui.
 ZL2BDH—Hulse, J. C., Pughs Road, R.D., Richmond.

ZL2BEZ

ZL2BDI—Grenfell, N. W., 112 Fitzherbert Street, Featherston.
 ZL2BDJ—Sutherland, G. D. K., 40 Budge Street, Blenheim.
 ZL2BDK—Rodda, D. G., 94 Tikoki Street, Masterton.
 ZL2BDL—McLachlan, R. M., 152 Te Mata Road, Havelock North.
 ZL2BDM—Mote, B. J., 55 Burness Road, Greenmeadows, Napier.
 ZL2BDN—New Plymouth Branch NZART (Trustee: J. Pinhey), Marsland Hill, New Plymouth.
 ZL2BDO—Inglewood High School Radio Club, (Trustee: F. H. Cramer), 34 James Street, Inglewood.
 ZL2BDP—Hutchens, W. R., 87 Matai Road, Raumati South.
 ZL2BDQ—Johnson, W. J., 363 Westminster Avenue, Napier.
 ZL2BDR—Greig, N. A., 145 Normandale Road, Lower Hutt.
 ZL2BDS—Corbett, A. A., 587 Featherston Street, Palmerston North.
 ZL2BDT—Robotham, R. W., 30 East Street, Palmerston North.
 ZL2BDU—Pickett, B. T., 4 Harrow Place, Palmerston North.
 ZL2BDV—Inge, S. R., 9 High Street, Island Bay, Wellington 2.
 ZL2BDW—Smith, G. B., 1299 Fergusson Drive, Upper Hutt.
 ZL2BDX—Hedderick, R. A. M., 6 Karen Crescent, Hamilton.
 ZL2BDY—Tait, M. A., 6A Miro Street, Masterton.
 ZL2BDZ—Johnson G. V., Oete Road, Kohinui, R.D. 2, Pahiatua.
 ZL2BEA—Oliver, R. D., 109 Wise Street, Wainuiomata.
 ZL2BEB—Harnett, R. M. T., 53/24 Rolleston Street, Newtown, Wellington.
 ZL2BEC—Hislop, R. G., 44 Donnelley Drive, Wainuiomata.
 ZL2BED—Dunkley, G. J., 53c Chatsworth Road, Silverstream.
 ZL2BEE—Williams, D., 12 Kippenberger Street, Masterton.
 ZL2BEF—London, P. R., 24 Golf Road, Manor Park, Upper Hutt.
 ZL2BEG—Cropp, B. A., 7 Blue Mountains Road, Silverstream.
 ZL2BEH—Trye, K. G., 20 Lewisham Street, Howick.
 ZL2BEI—Hastings Branch NZART (Trustee: A. J. H. Gilchrist), 309-311 Lyndon Road East, Hastings.
 ZL2BEJ—Squire, D. N., White Rose Dairy, Main Road, Okato.
 ZL2BEK—Campbell, L. T., 14 Leighton Avenue, Lower Hutt.
 ZL2BEL—Hoogeveen, W., 35 Ramanui Avenue, Hawera.
 ZL2BEM—Mackrell, T. F., Mata School, P.B. Tokomaru Bay.
 ZL2BEN—Fretter, M. S. E., 144 Mount View Road, Wanganui.
 ZL2BEO—Colley, M. J., 31 Croucher Street, Richmond.
 ZL2BEP—Whiteford, P. C., 54 Aurora Terrace, Wellington 1.
 ZL2BEQ—Penberthy, P. M., 5 R.D., Rangitiki Line, Newbury, Palmerston North.
 ZL2BER—Crompton, R. P. K., Reinga Road, Kerikeri.
 ZL2BES—Catt, D. V., 16 Wyndham Street, Carterton.
 ZL2BET—Toomath, B. E., 24 Nile Street, Lower Hutt.
 ZL2BEU—
 ZL2BEV—Vondruska, A. J. J. M., 14 Awarua Street, Ngaio, Wellington 4.
 ZL2BEW—Brownie, R. S., 34 Shakespeare Avenue, Upper Hutt.
 ZL2BEX—Ramsay, D. A., Fox Hill, R.D. 1, Wakefield.
 ZL2BEY—Wilkins, A. G. J., 138 Ironside Road, Wellington 4.
 ZL2BEZ—Clark, A. R., 22 Henry Street, Blenheim.

ZL2BFA

ZL2BFA—Parkinson, R. M. (Mrs), 38 Sovereign Street, Nelson.
 ZL2BFB—Wilde, R. H., 179 Cook Street, Palmerston North.
 ZL2BFC—Cattermole, B. L., 7a Cheyne Walk, Newlands, Wellington 4.
 ZL2BFD—Walshe, R. J., 42 Wainuiomata Road, Wainuiomata.
 ZL2BFE—Edgar, F., North Street, Motueka.
 ZL2BFF—Cummerfield, G. C., 3 Croxley Place, Palmerston North.
 ZL2BFG—Webley, H. R., 32e Mission Street, Lower Hutt.
 ZL2BFH—Holt, D., 117 Iranui Road, Gisborne.
 ZL2BFI—Young, D. E., 97 Rosetta Road, Raumati South.
 ZL2BFJ—Ireland, P. J., 45 George Street, Levin.
 ZL2BFK—Potroz, K. N., 206 Mayfair Avenue, Hastings.
 ZL2BFL—
 ZL2BFM—Thomas, K. F., 24 Upjohn Street, New Plymouth.
 ZL2BFN—Crabtree, J. A., 2 Nagpur Terrace, Khandallah, Wellington 4.
 ZL2BFO—
 ZL2BFP—Kinge, G. H., 62 Oak Street, Gisborne.
 ZL2BFQ—
 ZL2BFR—Wiggins, H. N., 23 Slacks Road, Palmerston North.
 ZL2BFS—Rushton, G. A. W., 2/57 Rajkot Terrace, Broadmeadows, Wellington 4.
 ZL2BFT—Cavanagh, B. J., 67 Alexander Avenue, Napier.
 ZL2BFU—Lacey, G., 27 Bledisloe Street, Masterton.
 ZL2BFV—McIver, W. C., 22a Ballance Street, New Plymouth.
 ZL2BFW—Peters, R. E. F., 50 Arapiki Road, Stoke, Nelson.
 ZL2BFX—
 ZL2BFY—Lambert, R., 12 Betts Avenue, Masterton.
 ZL2BFZ—Thum, F. A., 107 Houghton Bay Road, Wellington 3.
 ZL2BGA—Grainger, K. B., 7 Tudor Court, Paraparamu Beach.
 ZL2BGB—Barnett, C. J., 169 Derwent Street, Island Bay, Wellington 2.
 ZL2BGC—
 ZL2BGD—York, R. W. F., 41a Nelson Street, Blenheim.
 ZL2BGE—Boyle, L., 37 Lewis Avenue, Wanganui.
 ZL2BGF—Toms, R. V., 45 Moncur Drive, Rotorua.
 ZL2BGG—Collins, A. P. B., 517 Fitzroy Avenue, Hastings.
 ZL2BGH—Bridge, G. H., 38 Ngatoto Street, Ngaio, Wellington 4.
 ZL2BGI—Pycroft, W. J., 12 Ellesmere Avenue, Miramar, Wellington 3.
 ZL2BGJ—Jonas, G. M., C/- Wellington Radio, Karori, Wellington.
 ZL2BGK—England, V. I. (Mrs), 29 Horokiwi Road, Newlands, Wellington 4.
 ZL2BGL—Conway, I. W., Caseys Road, Blind River, Seddon.
 ZL2BGM—Munro, P. J., 1/80 Henakura Avenue Taupo.
 ZL2BGN—Eccles, K. R., 3 Rice Crescent, Newlands, Wellington 4.
 ZL2BGO—Grove, P. E., 38 Tilbury Street, Lower Hutt.
 ZL2BGP—Griffith, K. C., 235 Karori Road, Wellington 5.
 ZL2BGQ—Buckton, G. S., 93 Middle Renwick Road, Blenheim.
 ZL2BGR—McEwen, E. J., 17 Intermediate Street, Masterton.
 ZL2BGS—Benson, C. C., 8a Clinton Way, Mornington, Wellington 2.
 ZL2BGT—Bennett, P., 19 Wainui Street, Nelson.
 ZL2BGU—Clemens, W. E., 5 Lowry Street, Richmond.
 ZL2BGV—Simpson, W. N., 23 High Street North, Motueka.
 ZL2BGW—Kisby, M., 33 Woodhouse Avenue, Wellington 5.
 ZL2BGX—Smith, W. H., 65 Sefton Street, Wadestown, Wellington 1.

ZL2BGY—Bennett, A. J., 26 Prospect Terrace, Johnsonville, Wellington.
 ZL2BGZ—McLean, G. M., 24 Buick Street, Petone.
 ZL2BHA—Squadron 27 Blenheim A.T.C., (Trustee: F. Stretch, Omaka Aerodrome, Blenheim).
 ZL2BHB—Kitching, L. A., 9 Isel Place, Stoke, Nelson.
 ZL2BHC—Wilcox, C., 26 Te Miti Street, Paekakariki.
 ZL2BHD—Bateman, G. W., 54 Murray Avenue, Hawera.
 ZL2BHE—Walker, D. C., 24 Victoria Road, New Plymouth.
 ZL2BHF—Meachen, J. A., 31 Perry Street, Silverstream, Upper Hutt.
 ZL2BHG—Lawson, J. R., 144 Hospital Road, Blenheim.
 ZL2BHH—Burnham, E. D., 15 Tawa Street, Levin.
 ZL2BHI—Orams, K. J., 13 Eagle Street, Wellington 5.
 ZL2BHJ—
 ZL2BHK—Johnson, D. H., 85 Holdsworth Avenue, Trentham.
 ZL2BHL—Fowler, R. L., Main Road, R.D. 3, Riwaka.
 ZL2BHM—Matthews, E. F., Ngamatapouri, R.D. Waitotara.
 ZL2BHN—Allardyce, J. P. G., St. Patrick's College, Evans Bay Parade, Kilbirnie, Wellington 3.
 ZL2BHO—Henderson, R. L., Waiohiki.
 ZL2BHP—Walker, J., 4 St. Ronans Avenue, Lower Hutt.
 ZL2BHQ—Miller, A., 27 Fairfield Avenue, Lower Hutt.
 ZL2BHR—Inwood, R. G., 150 High Street, Bulls.
 ZL2BHS—Bowden, C. J., 300 Rintoul Street, Berhampore, Wellington 2.
 ZL2BHT—McLaren, D. M., 37 Nile Street, Nelson.
 ZL2BHU—Reddan, J. F., 5 Edinburgh Crescent, Blenheim.
 ZL2BHV—Kilgour, A. D., 12 Miriona Grove, Paekakariki.
 ZL2BHW—Quayle, R. P., 7 Te Pari Pari Road, Pukerua Bay.
 ZL2BHX—Vernon, T. J. E., 1 Whio Street, Taihape.
 ZL2BHY—Johnson, B. L., 25 John Street, Trentham, Upper Hutt.
 ZL2BHZ—Searle, P. M., 58 Russell Street, Gisborne.
 ZL2BIA—
 ZL2BIB—Meikle, D. A., 25 Hudson Avenue, Bulls.
 ZL2BIC—MacLeod, D., 18 Manuwai Drive, Matua, Tauranga.
 ZL2BID—Gordon, A. F. W., 64 King Street, Taradale, Napier.
 ZL2BIE—Phillips, E. L., 52 Stephenson Street, Blenheim.
 ZL2BIF—McKain, S. J., 1354 Main North Road, R.D. 42, Waitara.
 ZL2BIG—Bingham, W. J., Elizabeth Street, Feilding.
 ZL2BIH—Ward, A. L., C/- 3 Severn Terrace, Palmerston North.
 ZL2BII—Wincer, R. A., Ronga Valley, R.D. 1, Rai Valley.
 ZL2BIJ—Pugh, A. G. E., 6 Smith Street, Paekakariki.
 ZL2BIK—Pearce, W. M., 117a Hospital Road, Blenheim.
 ZL2BIL—Morris, R. K., 5 Lilac Lane, Maungaraki, Lower Hutt.
 ZL2BIM—Green, A. K., 71 Frederick Street, Hillsborough, Auckland 4.
 ZL2BIN—Fletcher, G. L., 9 Jackson Street, Marybank, Nelson.
 ZL2BIO—Barnes, D. J., 16 Jackson Street, Nelson.
 ZL2BIP—Staples, P., 1 Sturdee Street, Wairoa.
 ZL2BIQ—Thorner, G. S., 3 Mars Avenue, Sandringham, Auckland 3.
 ZL2BIR—Kidd, P. R., 70 McLeod Street, Upper Hutt.
 ZL2BIS—Porter, I. G., 14 Avonside Drive, Christchurch 1.
 ZL2BIT—Central Institute of Technology Radio Club, (Trustee: H. J. Maxwell), Electronics Department, Heretaunga.
 ZL2BIU—McCaw, J. I., 3 Thornley Street, Titahi Bay.
 ZL2BIV—Kendall, G. N., Ohiwa Harbour Road, R.D. 3, Opotiki.
 ZL2BIW—Rusbatch, G., 116 Lyndhurst Road, Hastings.
 ZL2BIX—Archer, D. R., Main Highway, R.D. 9, Palmerston North.
 ZL2BIY—Galyer, R. A., 906 Albert Street, Hastings.
 ZL2BIZ—Stephenson, W. V., 460 Te Moana Road, Waikanae.

- ZL2BJA—Salmen, A. H., 8 Mudie Street, Lower Hutt.
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 ZL2BJC—Hill, I. McK. G., 29 Holdsworth Avenue, Trentham.
 ZL2BJD—Robson, E. H., 64 Alexander Avenue, Napier.
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 ZL2BJF—Beaumont, A. P., 39 Peck Street, Lower Hutt.
 ZL2BJG—McGregor, B. A., 10 Saville Row, Johnsonville, Wellington 4.
 ZL2BJH—Woodward, C. A., 37 Cockayne Road, Khandallah, Wellington 4.
 ZL2BJI—Robinson, D. W., 88 Manawapou Road, Hawera.
 ZL2BJJ—Coss, R. J., 17 Margaret Street, Palmerston North.
 ZL2BJK—Lindsay, R. H., 32 Waiti Crescent, Lower Hutt.
 ZL2BJL—French, P. W., 77a Pahiatua Street, Palmerston North.
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 ZL2BJN—Cooper, S. D., 225 St. Aubyn Street, New Plymouth.
 ZL2BJO—Cathcart, S. J., 17 Westhaven Grove, Palmerston North.
 ZL2BJP—De Grey, P. J., 156 Brooklands Road, New Plymouth.
 ZL2BJQ—Guest, R., 15 Webber Street, Paraparumu Beach.
 ZL2BJR—Wilkinson, K. S., C/- W. St. J. Reed, 11 Wood Street, Upper Hutt.
 ZL2BJS—Jamieson, D. R., 2 Waipuna Street, Blenheim.
 ZL2BJT—Navy League Sea Cadets Radio Club, (Trustee: R. J. Hiller), MV *Tutira*, 4 Guildford Street, Levin.
 ZL2BJU—Thompson, J. J., 15 Golf Road, Paraparumu Beach.
 ZL2BJV—Menzies, K. J., Main Road, Grovetown, Blenheim.
 ZL2BJW—Halligan, G., 23 Heathcote Place, Palmerston North.
 ZL2BJX—Thompson, J. S., 124 Manuka Street, Stokes Valley.
 ZL2BJY—
 ZL2BJZ—Murdock, H. D. A., 15 Arawa Street, Raumati Beach.
 ZL2BKA—Dale, J. S. A., 16 Kiwi Road, Devonport, Auckland 9.
 ZL2BK3—
 ZL2BKC—
 ZL2BKD—Barriball, E. C., 66 Bell Street, Linden.
 ZL2BKE—Glassey, E. C., 422 Jackson Street, Petone.
 ZL2BKF—Tompkins, B. H., Upper Wairau Road, R.D. 4, New Plymouth.
 ZL2BKG—Thorpe, R., 10 Harewood Grove, Silverstream.
 ZL2BKH—Wharton, C. D., Tinui School House, Blackhill Road, Tinui.
 ZL2BKI—Hurst, J. J., 154 Kahu Road, Paremata.
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 ZL2BKK—Powell, D. B., 34 Dundee Street, Invercargill.
 ZL2BKL—Allen, B. W., Hursthouse Road, R.D. 2, Patea.
 ZL2BKM—Meek, A. P., 41 Huntleigh Park Way, Ngaio, Wellington 4.
 ZL2BKN—Burling, B. N. G., 62 Hospital Road, P.O. Box 4022, Napier.
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 ZL2BKQ—Hardcastle, J. L., 2/11 Rotomahana Terrace, Remuera, Auckland 5.
 ZL2BKR—Truman, H. J., 21 Rintoul Grove, Stokes Valley.
 ZL2BKS—Brown, K. J., 2/8 Motueka Street, Ngaio, Wellington 4.
 ZL2BKT—Pike, H. M. R., C/- Mr A. Neilson, 13 Matene Street, Otaki.
 ZL2BKU—Burton, F. S., 9 Broadhead Avenue, Wanganui.
 ZL2BKV—Catt, A. C., 14 Mary Street, Masterton.
 ZL2BKW—Harrowfield, T. R., 22 Buick Crescent, Palmerston North.
 ZL2BKX—Nightingale, P. H., 35 Shakespeare Avenue, Upper Hutt.
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 ZL2BKZ—Rodrigues, J. F. C., 115 Brooklands Road, New Plymouth.
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 ZL2BLB—Robertson, L. J., 15a Bayswater Place, Newlands, Wellington 4.
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 ZL2BLF—Kooy, W., 39 Waiho Terrace, Porirua.
 ZL2BLG—Patterson, R. A., 338 High Street, Dannevirke.
 ZL2BLH—Ellison, D. M., Highway 2, Opapa, Hawkes Bay.
 ZL2BLI—Inkster, D. J., 12 Thames Street, Ohakune.
 ZL2BLJ—Hodgkinson, J., Medway Street, Rongatea.
 ZL2BLK—
 ZL2BLL—Shaw, V. S., 13a Weathers Place, Taradale, Napier.
 ZL2BLM—Rait, N. A. H., 2 Revans Street, Featherston.
 ZL2BLN—Scarrott, P. E., Buchanan Road, Bay View, Hawkes Bay.
 ZL2BLO—Moore, P. C., 8 Maxwell Street, Napier.
 ZL2BLP—Rogers, G. K., 7 Barclay Street, Newlands, Wellington 4.
 ZL2BLQ—Mangin, S. G., 33 West Street, Greytown.
 ZL2BLR—Withey, R. W., 5 Manawapou Road, Hawera.
 ZL2BLS—Lavery, M. W., 16 Morrissey Street, Hawera.
 ZL2BLT—Bourke, R. H., 179 Fairfield Road, Hawera.
 ZL2BLU—Smith, W. B., 12 Clifford Street, Hawera.
 ZL2BLV—Christian, J. M., 19 Homelands Avenue, Feilding.
 ZL2BLW—Batt, L. A., 33 Waterhouse Road, Masterton.
 ZL2BLX—McLauchlan, A. C. L., 122 Redwood Avenue, Tawa.
 ZL2BLY—
 ZL2BLZ—Soma, B., 52 Gloaming Hill Road, Titahi Bay.
 ZL2BMA—Calvert, R. H. G., Fabians Road, R.D. 1, Greytown.
 ZL2BMB—Walker, M. K. R., 58 Ernest Street, Ranui Heights, Porirua.
 ZL2BMC—Childs, J. R., 5 Savage Crescent, Waipukurau.
 ZL2BMD—Pearson, R. K., 22 Parakai Street, Paraparumu.
 ZL2BME—Clarke, G. R., 33 Tirangi Road, Wellington 3, P.O. Box 14-175, Kilbirnie.
 ZL2BMF—
 ZL2BMG—Dunlop, J. A., 23 Tarata Street, Wanganui.
 ZL2BMH—Irving, J. E., C/- Irvings Dairy, Bridge Street, Bulls.
 ZL2BMI—Sears, E. J., Ferry Road, Spring Creek, Havelock.
 ZL2BMJ—Railton-Jacks, P. N., 31 Seaforth Avenue, Palmerston North.
 ZL2BMK—Bowman, R. F., 146 Conclusion Street, Ascot Park, Porirua.
 ZL2BML—McCormick, C. D. K., 13 Main Road, Westshore, Napier.
 ZL2BMM—Pickering, L. D., 8 Andrew Street, Blenheim.
 ZL2BMN—Irving, J. E., 30 Achilles Street, Stratford.
 ZL2BMO—Garrod, J., 8 Alfred Sheat Street, Richmond, Nelson.
 ZL2BMP—Barnes, T. H., 25 Maymorn Road, Te Marua, Upper Hutt.
 ZL2BMQ—Mouat, W. A., C/- Pukeroa Home, P.B., Waipukurau.
 ZL2BMR—Vining, L. G., 49 Havelock Avenue, Palmerston North.
 ZL2BMS—Moore, M. B., 65f Whites Line East, Lower Hutt.
 ZL2BMT—Harris, G. F., 15 Montana Road, Upper Hutt.

ZL2BMU

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ZL2BMV—Hathaway, R. L. S., 18 Adams Lane, Blenheim.

ZL2BMW—Foster, P. K., 76 Sefton Street, Wellington 1.

ZL2BMX—McIver, D., 65 Doraito Road, New Plymouth.

ZL2BMY—Meek, E., 16 Grant Street, Dannevirke.

ZL2BMZ—Murray, P. L., 43 Lorne Crescent, Flaxmere, Hastings.

ZL2BNA—Hitchman, G. J., Feilding Road, Feilding.

ZL2BNB—Walker, R. A., 4 Westerham Place, Nelson.

ZL2BNC—Cook, R. A., 4 Malda Grove, Khandallah, Wellington 4.

ZL2BND—Smith, T. W., 1 Antico Street, Melrose, Wellington 3.

ZL2BNE—Marr, N. C., 22 Dillon Street, Blenheim.

ZL2BNF—Grant, L. G., 34 Ferguson Street, Bay View, Napier.

ZL2BNG—Gibellini, J. A., 71 Point Road, Monaco, Nelson.

ZL2BNH—Bastin, F. T., 103 Gascoigne Street, Hastings.

ZL2BNI—Gardner, N. N., 158 Nile Street East, Nelson.

ZL2BNJ—French, M. J., 6 Islington Street, Trentham.

ZL2BNK—Moore, C. J., HMNZS *Tamaki*, Vauxhall Road, Devonport, Auckland 9.

ZL2BNL—Cook, M. J., 111 Riwai Street, Paraparaumu.

ZL2BNM—McKay, P. G., Rowley Crescent, Grovetown, Blenheim.

ZL2BNN—Robinson, H. T., 18 Collingwood Street, Lower Hutt.

ZL2BNO—Taylor, R. D., 21 McLaren Street, Mangaroa, Upper Hutt.

ZL2BNP—Johnson, P. G., 6 Huia Street, Pahiatua.

ZL2BNQ—Claydon, K. W., 183 Tukapa Street, New Plymouth.

ZL2BNR—Bos, F., 34 Albert Street, Pahiatua.

ZL2BNS—Townshend, A. P., 35a Marybank Road, Nelson.

ZL2BNT—Hudson, G. J., 5 Konini Street, Masterton.

ZL2BNU—Ryba, K. A., 65 Te Awe Awe Street, Palmerston North.

ZL2BNV—Lowe, P. A., 47a Austin Street, Mt. Victoria, Wellington 1.

ZL2BNW—Walbridge, S. W., 62 Kings Crescent, Lower Hutt.

ZL2BNX—Isherwood, K., 22 Elm Street, Gisborne.

ZL2BNY—Harrison, W. F., 21 Churchill Avenue, Wairoa.

ZL2BNZ—Trubshaw, J. R., Main Highway, R.D. 4, Palmerston North.

ZL2BOA—Thorp, M. D., 110 Riverbend Road, Napier.

ZL2BOB—Priest, E. W., 21 Winchester Street, Palmerston North.

ZL2BOC—Longburn Adventist College Radio Club, P.O. Box 1, Longburn.

ZL2BOD—Gilchrist, L. J. (Mrs), 20 Vogel Street, Hawera.

ZL2BOE—Large, R. A., 44 Donnelley Drive, Wainuiomata.

ZL2BOF—Nixon, S. M., 131a Motuhara Road, Plimmerton, Wellington.

ZL2BOG—Joyce, G. T., Valley Road, Gisborne.

ZL2BOH—Hadfield, L. C., 52 Percy Street, Blenheim.

ZL2BOI—Moretti, G. S., 12 Milverton Avenue, Palmerston North.

ZL2BOJ—Harris, R. E., 14 Hamua Place, Waitara.

ZL2BOK—

ZL2BOL—Biggins, B. F., 70 Lohia Street, Khandallah, Wellington 4.

ZL2BOM—Phillips, O. K., 118 Long Melford Road, Palmerston North.

ZL2BON—Farley, R. G., Yacht *Phoebetria*, Havelock.

ZL2BOO—Hope, M. R., The Teme, R.D. 6, Blenheim.

ZL2BOP—Bradley, R. L., 7 Chichester Street, Gisborne.

ZL2BOQ—Groat, J. E., 586 Ferguson Street, Palmerston North.

ZL2BOR—Smith, J. W., 68 Golders Road, Upper Hutt.

ZL2BOS—Grant, H. H., 15 Grove Street, Nelson.

ZL2BOT—Kennedy, S. R., 52 Mangati Road, Bell Block, New Plymouth.

ZL2BOU—Carter, A. F., 13 Todd Place, Richmond, Nelson.

ZL2BOV—Griffiths, B. A., Main North Road, Urenui.

ZL2BOW—Howan, A. R., 59 Houghton Bay Road, Houghton Valley, Wellington 3.

ZL2BOX—Holwerda, R. R., 66 Kiwiwai Road, Paramata.

ZL2BOY—Clarke, R. G., 3 Whitby Place, New Plymouth.

ZL2BOZ—Flowers, F. J., Cemetery Road, Dannevirke.

ZL2BPA—Scutts, 114 Maupuia Road, Miramar, Wellington 3.

ZL2BPB—Sandilands, L. C., 30 Weir Terrace, Waiouru.

ZL2BPC—Hayward, E. V., 155 Washington Road, Nelson.

ZL2BPD—Donovan, P. E., 24 Kano Street, Karori, Wellington 5.

ZL2BPE—Vennix, J. H., 112 Brougham Street, Wellington 1.

ZL2BPF—Colter, M. C., 24 Rodney Street, Woburn, Lower Hutt.

ZL2BPG—Harding, B. P., 55 Hillside Drive, Maoribank, Upper Hutt.

ZL2BPH—Simmonds, J. H., Kahutara Road, R.D. 1, Featherston.

ZL2BPI—Watt, I. D., 9 Edelweiss Grove, Timberlea, Upper Hutt.

ZL2BPJ—Millett, J. J. M., 24 Kiwi Street, Masterton.

ZL2BPK—Johns, B. K., 83 Brougham Street, Mt. Victoria, Wellington 1.

ZL2BPL—Kerlake, M. G. R., 11 Chilton Grove, Lower Hutt.

ZL2BPM—McIntyre, D. R., Masterton Road, R.D. 4, Pahiatua.

ZL2BPN—Thompson, I., 8 Dampier Avenue, Palmerston North.

ZL2BPO—Mainwaring, P., 7 Chichester Drive, Silverstream, Upper Hutt.

ZL2BPP—South Wairarapa Amateur Radio Club, P.O. Box 163, Featherston.

ZL2BPQ—

ZL2BPR—

ZL2BPS—Stewart, P. J., Akatarawa Road, R.D. 2, Upper Hutt.

ZL2BPT—

ZL2BPU—

ZL2BPV—

ZL2BPW—

ZL2BPX—Thompson, S. A., 8 Dampier Avenue, Palmerston North.

ZL2BPY—Crook, D. J., 11 Forward Street, Greenmeadows, Napier.

ZL2BPZ—Trayes, D. J., Beach Road, Ahipara, Northland.

ZL2N . . .

ZL2TAA—Stanners, J. L., 81 Eder Street, Island Bay, Wellington 2.

ZL2TAB—Hinton-Cooper, K. E., 49 Titania Street, Stratford.

ZL2TAC—

ZL2TAD—Mallinson, E. J., 84 Seymour Street, Blenheim.

ZL2TAE—Cooney, G. P., 2/240 Fergusson Drive, Silverstream.

ZL2TAF—

ZL2TAG—Bennett, A. G., 33 Ngatitoa Street, Tawa.

ZL2TAH—Pope, H. N., 171 Howick Road, Blenheim.

ZL2TAI—Stannard, S. J., 25a Colchester Street, Newlands, Wellington 4.

ZL2TAJ—Squires, D. R., 6 Waipounamu Drive, Lower Hutt.

ZL2TAK—Ingham, C. G., 138 Dowse Drive, Maungaraki, Lower Hutt.

ZL2TAL—Gyde, R. V., 148a Pioneer Road, New Plymouth.

ZL2TAM—Cooper, I. L., 116 Rutene Road, Gisborne.

ZL2TAN—Fairbairn, R., 49 Salisbury Road, Richmond.

ZL2TAO—Oldham, I. D., 31 Harbour View Road, Lower Hutt.

ZL2TAP—Baker, W. R. E., 118 Taylor Terrace, Tawa.
 ZL2TAQ—Hadfield, C. I., 42 Benmore Avenue, Palmerston North.
 ZL2TAR—Ingham, J. D., 138 Dowse Drive, Maungaraki, Lower Hutt.
 ZL2TAS—Marsh, J. K., Main Road, Oakura, New Plymouth.
 ZL2TAT—Smith, K. R., 12 Marewa Road, Hataitai, Wellington.
 ZL2TAU—Wilson, S. J., 77 Wadestown Road, Wellington 1.
 ZL2TAV—Bodell, E. W., 42 Ormond Street, Woodville.
 ZL2TAW—
 ZL2TAX—Barnes, E. J., 54 Brooker Grove, Newlands, Wellington 4.
 ZL2TAY—Crook, R. J., 23 Patanga Crescent, Thorndon, Wellington.
 ZL2TAZ—
 ZL2TBA—Higgott, L. G., Main Road, Wharekaho Beach, Whitianga.
 ZL2TBB—Drew, A. L. B., 16 Tuatoru Street, Eastbourne.
 ZL2TBC—
 ZL2TBD—Owen, N. A., 45d Oxford Street, Tawa.
 ZL2TBE—Hood, S. W., 122 Duncan Street, Wanganui.
 ZL2TBF—Carnley, L. J., 14 Buckley Road, Wellington 3.
 ZL2TBG—Snelson, K. H., 12 Staites Drive North, Whitby, Porirua.
 ZL2TRH—Henderson, G. J., 30 Wisteria Grove, Lower Hutt.
 ZL2TBJ—Kuiti, N. M., 68 Milton Terrace, Picton.
 ZL2TBJ—
 ZL2TBK—Love, G. A., 2 Karaka Crescent, Levin.
 ZL2TBL—Lott, A. G., 11 Poynter Street, Blenheim.
 ZL2TBM—Bradley, G. S., 125 Tasman Street, Wellington 2.
 ZL2TBN—Shennan, B. V., 31 Rossiter Avenue, Lower Hutt.
 ZL2TBO—Cameron, C. R., 21 Woodman Drive, Linden.
 ZL2TBP—Norgrove, A. E., C/- BCNZ Receiving Station Quartz Hill, Makara, Private Bag, Karori, Wellington 5.
 ZL2TBO—Wills, R. E., 12d City View Grove, Lower Hutt.
 ZL2TBR—
 ZL2TBS—Ward, L. A., 11 Pinny Avenue, Lower Hutt.
 ZL2TBT—Marfell, E. M., 1082 Fergusson Drive, Upper Hutt.
 ZL2TBU—Stevens, J. E. R., 48 Chesterton Street, Johnsonville, Wellington 4.
 ZL2TBV—Cocker, G. D., 8 Aquarius Drive, Rotorua.
 ZL2TBW—
 ZL2TBX—
 ZL2TBY—Annand, R. C., 67 Joll Road, Havelock North.
 ZL2TBZ—Milsom, M. A., 79 Barnard Street, Wadestown, Wellington.
 ZL2TCA—Poulsen, J. M., 12 Campbell Street, Fielding.
 ZL2TCB—Dobbs, A. J., 14 Oaklands Grove, Upper Hutt.
 ZL2TCC—Brown, G. R., 28 John Street, Stokes Valley.
 ZL2TCD—Phillips, A. R. J., Mount St. Mary Seminary, Church Road, Napier.
 ZL2TCE—Taylor, I. L., 1 High Road, Hawera.
 ZL2TCF—Clifford, I. R., 9 Falcon Street, Porirua.
 ZL2TCG—Stipkovits, S., 76 View Road, Houghton Bay, Wellington 3.
 ZL2TCH—Coombridge, J. P., Marchant Road, Kaitoke.
 ZL2TCI—Calhaem, I. M., 19 Solander Place, Whitby, Paremata.
 ZL2TCJ—Preston, R. T., 16b Witako Street, Lower Hutt.
 ZL2TCK—Kerdelmidis, G., 70 Chelsea Street, Christchurch 6.
 ZL2TCL—Lacey, J. D., 39 Poto Road, Lower Hutt.
 ZL2TCM—Downs, F. W. P., 58a Chatsworth Road, Silverstream.
 ZL2TCN—Barnhill, J. D., 26 Garfield Street, Brooklyn, Wellington 2.

ZL2TFL

ZL2TCO—Denton, S. B., 18 Roto Street, Tahunanui, Nelson.
 ZL2TCP—Foley, M. J., Mt. Saint Mary's Seminary, Church Road, Taradale.
 ZL2TCQ—
 ZL2TCR—
 ZL2TCS—Aston, A. G., 91 Hair Street, Wainuiomata.
 ZL2TCT—McFarlane, P. H., 4 Lambiey Road, Titahi Bay, Wellington.
 ZL2TCU—Milne, R. J., Chemistry Division, DSIR, Private Bag, Petone.
 ZL2TCV—Sainsbury, R. P., 34 York Street, Masterton.
 ZL2TCW—Wheatley, M. J., 92 Oxford Street, Ashhurst.
 ZL2TCX—James, B. T., 1/413a Main Road, Stoke, Nelson.
 ZL2TCY—Ball, P. S., 15 Padnell Crescent, Newlands, Wellington.
 ZL2TCZ—Stratford High School Radio Club, (Trustee: P. Greenwood), P.O. Box 204, Stratford.
 ZL2TDA—Dawson, D. J., 35 McLean Street, Woodville.
 ZL2TDB—Gloag, G. F., 39 Ross Street, Woodville.
 ZL2TDC—Crook, D. J., 11 Forward Street, Greenmeadows, Napier.
 ZL2TDD—Clarke, T. R., 192 Helston Road, Paparangi, Wellington 4.
 ZL2TDE—Apperley, E. S., 27 Torridon Road, Miramar, Wellington 3.
 ZL2TDF—Dicker, J. L., Waimea West, R.D., Brightwater, Nelson.
 ZL2TDG—Gill, J. I., 16 Greer Crescent, Tawa.
 ZL2TDH—Cathro, D. G., 9a Motueka Street, Ngaio, Wellington 4.
 ZL2TDI—Doney, P. A., 7 York Street, Gonville Junction, Wanganui.
 ZL2TDJ—
 ZL2TDK—Bibby, G. S., 9 Fromont Street, Wanganui East.
 ZL2TDL—
 ZL2TDM—
 ZL2TDN—Therkleson, G. L., 25 Taieri Crescent, Kelso, Lower Hutt.
 ZL2TDO—Hyde, P. R., 26 Randwick Crescent, Moera, Lower Hutt.
 ZL2TDP—Charles, C. F., 87 Pasadena Crescent, Totara Park, Upper Hutt.
 ZL2TDQ—
 ZL2TDR—Gilchrist, H. T., 261 Te Moana Road, Waikanae.
 ZL2TDS—Boyd, C. B., 39 Cuba Street, Palmerston North.
 ZL2TDT—
 ZL2TDU—Walker, G. J., 4/35 Green Street, Tahunanui, Nelson.
 ZL2TDV—Grover, D., 3 Kanpur Road, Broadmeadows, Wellington 4.
 ZL2TDW—Devenport, B., C/- Coventry Station, Private Bag, Muriwai, Gisborne.
 ZL2TDX—Simmons, P. R., Blenheim Fire Station, P.O. Box 196, Blenheim.
 ZL2TDY—Richards, J. H., 633 High Street, Lower Hutt.
 ZL2TDZ—Morrison, C. M. K., 63a Church Street, Devonport, Auckland 9.
 ZL2TFA—
 ZL2TFB—Cox, R. J. C., 20 Storey Avenue, Hamilton.
 ZL2TFC—Carruthers, B. M., 940 Mangorei Road, New Plymouth.
 ZL2TFD—Peters, J. M., 2 Vogel Place, Napier.
 ZL2TFE—Mitchell, C. A., BCNZ Home, Titahi Bay.
 ZL2TFF—Symon, D. R., 8 Richmond Street, New Plymouth.
 ZL2TFG—Crawley, W. G., 75 Somerset Road, Wanganui.
 ZL2TFH—
 ZL2TFI—Pickett, B. M., 9 Amyes Road, Christchurch 4.
 ZL2TFJ—
 ZL2TFK—McEwen, C. R., 59 Amanda Avenue, Dinsdale, Hamilton.
 ZL2TFL—Bone, P. M. C., 1004 Francis Hicks Avenue, Hastings.

ZL2TFM

ZL2TFM—Dewar, D. B., Onslow Road, Patutahi.
 ZL2TFN—Hoeksema, R. C., 11 Rhodes Drive, Palmerston North.
 ZL2TFO—Brown, E. J., 5 Thames Street, New Plymouth.
 ZL2TFP—Blackley, L. C., 26 Kaitawa Crescent, Paraparaumu.
 ZL2TFO—McMillan, R. H., 30 Matipo Street, Eastbourne.
 ZL2TFR—
 ZL2TFS—
 ZL2TFT—Stohr, F. A., 36a Pretoria Street, Lower Hutt.
 ZL2TFU—
 ZL2TFV—Etheridge, P. R., 4 Wharf Street, New Plymouth.
 ZL2TFW—Van Gorkom, H., 17 Makora Road, Otaihangā, Paraparaumu.
 ZL2TFX—Underwood, C. F., 60 Cavendish Road, Christchurch 5.
 ZL2TFY—
 ZL2TFZ—Sayer, J. B., 55 Cockburn Street, Masterton.
 ZL2TGA—Phillips, T. H., 30 Ngatitōa Street, Porirua.
 ZL2TGB—Edwards, A. T., 35 Bledisloe Crescent, Wainuiomata.
 ZL2TGC—O'Leary, C. M., 21 Isabel Grove, Wainuiomata.
 ZL2TGD—Scott, S. P., 11 Rudd Crescent, Blenheim.
 ZL2TGE—Hughes, T., 2 Chatham Street, Wellington 2.
 ZL2TGF—Moore, T. E., 24 Normanby Street, Newtown, Wellington 2.
 ZL2TGG—Porritt, G. R. E., 114 Akatarawa Road, Upper Hutt.
 ZL2TGH—Miller, G. A., 8 Hughes Avenue, Palmerston North.
 ZL2TGI—Steenenson, A. D., St. Andrews Road, Havelock North.
 ZL2TGJ—Johnson, T. S., 512 Huia Street, Hastings.
 ZL2TGK—Gill, I. L., 69 Cambria Street, Nelson.
 ZL2TGL—Rumsey, F. C., 21 Malone Road, Lower Hutt.
 ZL2TGM—Meads, G. T., 3 Moa Street, Inglewood.
 ZL2TGN—Berry, R. M., 10 Nimon Street, Havelock North.
 ZL2TGO—
 ZL2TGP—Collegiate School Radio Club, (Trustee: J. B. Storey), Liverpool Street, Wanganui.
 ZL2TGO—Greenbank, R. J., 31 Somes Crescent, Newlands, Wellington 4.
 ZL2TGR—Barraud, J. M., 1 Michigan Crescent, Totara Park, Upper Hutt.
 ZL2TGS—Leckie, G. F., Flat 3, 36 Pascal Street, Palmerston North.
 ZL2TGT—
 ZL2TGU—Layton, G. R., 54a Nicholson Road, Khandallah, Wellington 4.
 ZL2TGV—Illingsworth, R. J., 178 Main Road, Tawa.
 ZL2TGW—Clifford, K. S., 22 Tarawa Street, Paekakariki.
 ZL2TGX—Morrison, J. F., 27 Mulgrave Street, Ashhurst.
 ZL2TGY—
 ZL2TGZ—Allmand, H. M., Te Horo.
 ZL2THA—
 ZL2THB—Cole, R. K., 117 Rewai Street, Paraparaumu.
 ZL2THC—Erikson, A. M., 8a Cautley Street, Richmond.
 ZL2THD—Riggs, P. T., 470 Stokes Valley Road, Stokes Valley.
 ZL2THE—Allen, J. G. J., 4 Nicholls Avenue, Lower Hutt.
 ZL2THF—Chean, Y. C., 23 Myrtle Street, Lower Hutt.
 ZL2THG—Mackie, A. J., 8 Tarata Street, Stoke, Nelson.
 ZL2THH—Robbins, B. J., Quartz Hill, P.B. Wellington.
 ZL2THI—Marshall, D. W., 195 Egmont Street, Patea.
 ZL2THJ—Gill, T. B., 69 Cambria Street, Nelson.
 ZL2THK—Simcox, J., Racecourse Road, P.O. Box 327, Waipukurau.
 ZL2THL—Leask, D. W., 11 Cannon Street, New Plymouth.
 ZL2THM—
 ZL2THN—Osmond, C. M., 124 Tilley Road, Paekakariki.
 ZL2THO—Parker, D. A., 55 Argyle Avenue, Palmerston North.
 ZL2THP—Dewsnap, A. V., 30 Ruru Crescent, Heretaunga, Upper Hutt.

ZL2THQ—Newlands, R. G., 42 Old Porirua Road, Ngaio, Wellington 4.
 ZL2THR—Poletti, K. M., Finnerty Road, 21 R.D., Stratford.
 ZL2THS—Shaw, J. L., 13a Weathers Place, Taradale, Napier.
 ZL2THT—
 ZL2THU—Cropp, I. E., 7 Blue Mountains Road, Silverstream.
 ZL2THV—Neill, W. J., 14 Martin Grove, Normandale, Lower Hutt.
 ZL2THW—Muir, A. W., 1 Fox Street, Ngaio, Wellington 4.
 ZL2THX—Blanchard, D. C., 13h York Crescent, New Plymouth.
 ZL2THY—McCarthy, W. S., 26 Bangor Street, Flaxmere, Hastings.
 ZL2THZ—
 ZL2TIA—Clough, D. H., 3 Argyle Place, New Plymouth.
 ZL2TIB—Annabell, R. B. S., Makakaho, Waiotara Valley.
 ZL2TIC—Wildbore, D. I., 7 Tawa Street, Levin.
 ZL2TID—Baker, N. E., 118 Taylor Terrace, Tawa.
 ZL2TIE—Guildford, A. E., 117 Townsend Road, Wellington 3.
 ZL2TIF—Leckie, D. A., 12 Pendarrow Crescent, Wainuiomata.
 ZL2TIG—Mair, D. I., Lower Bull Road, R.D. 2, Patea.
 ZL2TIH—
 ZL2TII—Prosser, R. H. C., 9/14 Kirkwood Avenue, Ilam, Christchurch 4.
 ZL2TIJ—Ordish, J. I., 12a Constable Street, Newtown, Wellington 2.
 ZL2TIK—Buchanan, I. A., Motuopa, R.D. 2, Turangi.
 ZL2TIL—Maxwell, D. M., 8 Martin Grove, Lower Hutt.
 ZL2TIM—Lumsden, K. M., 18 Cargill Street, Papakura, Auckland.
 ZL2TIN—
 ZL2TIO—Sheard, C. J., 6 Greenock Place, Palmerston North.
 ZL2TIP—McConnel, O. D., 34 Wodwich Close, Whitby, Parnata.
 ZL2TIQ—Brieseman, P. J., 14 Tainui Terrace, Tawa.
 ZL2TIR—Donoghue, R. H., 10 Finnimore Terrace, Wellington 2.
 ZL2TIS—Winton, L. J., 44 Coventry Avenue, Tamatea, Napier.
 ZL2TIT—Taylor, A. F., 54 Emano Street, Nelson.
 ZL2TIU—Brownlie, S. M., Ligar Bay, R.D. 1, Takaka.
 ZL2TIW—
 ZL2TIW—Anderson, A. E., 76 Skibo Street, Dunedin.
 ZL2TIX—Smith, T. R., 31 Bird Grove, Stokes Valley.
 ZL2TIY—Harmsworth, J., Jonkers Road, Waitakere, Auckland 7.
 ZL2TIZ—Gilchrist, J. V., 96 Newlands Road, Newlands, Wellington 4.
 ZL2TJA—Walker, A. L., 53 Green Street, Tahunanui, Nelson.
 ZL2TJB—Fitzsimons, D. F., 44a Waimea Road, Nelson.
 ZL2TJC—Wakely, B., 30 Lees Grove, Wainuiomata.
 ZL2TJD—
 ZL2TJE—Brett, L. H., 1/50 Buckley Road, Melrose, Wellington 3.
 ZL2TJF—Graham, G. J., 32 Caldwell Road, Wogdbourne, Blenheim.
 ZL2TJG—McBain, J. R., 18 Pandora Avenue, Rotorua.
 ZL2TJH—O'Shea, P. F., 39 Liverpool Crescent, Flaxmere, Hastings.
 ZL2TJI—Bould, R. M., 97 Ohariu Road, Wellington 4.
 ZL2TJJ—Hannon, G. J., 600 Massey Street, Hastings.
 ZL2TJK—Williams, G. C., 18 Ronberg Street, Palmerston North.
 ZL2TJL—Thompson, R. E., 25 Findlay Street, New Plymouth.
 ZL2TJM—Baker, R. E., 95 Ruahine Street, Palmerston North.
 ZL2TJN—Cristensen, T. G., Main Highway, R.D. 2, Whirinaki, Napier.

ZL2TJO—Brice, D., 43 Fairview Avenue, Feilding.
 ZL2TJP—Bryant, P., 62 Clarence Street, Vogeltown, Wellington 3.
 ZL2TJO—Hawker, B. C., 1 Avion Terrace, Paraparaumu.
 ZL2TJR—Robinson, G. N., 2/25 Essex Road, Mt. Eden, Auckland 3.
 ZL2TJS—Sivyer, G. R., 11 Wisteria Grove, Maungaraki, Lower Hutt.
 ZL2TJT—Schmidt, J. T., 9 Ponderosa Grove, Maoribank, Upper Hutt.
 ZL2TJU—Singleton, R. J., 9 Westleigh Way, Newlands, Wellington 4.
 ZL2TJV—Pointon, A. C., 21 Balgownie Avenue, Gonville, Wanganui.
 ZL2TJW—Stewart, K. F., 1 Caversham Road, Mosston, Wanganui.
 ZL2TJX—Evans, E. T., 16 Davidson Avenue, Napier.
 ZL2TJY—Frazer, G. J., 14 Hinton Road, Taradale, Napier.
 ZL2TJZ—Sutton, M. O., 1/32 Churchill Avenue, Richmond.
 ZL2TKA—Rickards, C. M., 21a Longview Drive, New Plymouth.
 ZL2TKB—Cook, M. A. L., 84 Green Street, Tahunanui, Nelson.
 ZL2TKC—
 ZL2TKD—
 ZL2TKE—
 ZL2TKF—Hodge, D. M., 19 King Street, Fielding.
 ZL2TKG—Wright, M. A., 28 Cunliffe Street, Wellington 4.
 ZL2TKH—
 ZL2TKI—Sanson, I. M., C/- P.O. Box 65, Waitangi, Chatham Islands.
 ZL2TKJ—Harmsworth, A. G., Jonkers Road, Waitakere.
 ZL2TKK—De La Cour, L. R., 17 The Drive Tawa, Wellington.
 ZL2TKL—Thornton, W. H., 404 Hart Drive, Hastings.
 ZL2TKM—McRoberts, K., 49 Arrow Street, Nelson.
 ZL2TKN—Andrews, S. R., 26 Tokomaru Drive, Havelock North.
 ZL2TKO—
 ZL2TKP—Fleming, A. J., 33 Clifton Drive, Waitara.
 ZL2TKQ—Meads, A. M., 272 High Street, Eltham.
 ZL2TKR—Brown, R. G., 64b Tipahi Road, Nelson.
 ZL2TKS—Winter, R. M., 54 Chapter Street, Christchurch 5.
 ZL2TKT—Verry, A. C., 52 Athlone Crescent, Lower Hutt.
 ZL2TKU—
 ZL2TKV—Burns, F. N. R., 1010 Waipuna Street, Hastings, P.O. Box 3051.
 ZL2TKW—Butt, A. J., 26 Hornsey Road, Melrose, Wellington 3.
 ZL2TKX—Reynolds, M. G., Wilder Settlement Road, R.D. 1, Porangahau.
 ZL2TKY—Pattle, K. A., 10 Woodstock Terrace, Tawa.
 ZL2TKZ—Wilkinson, K. T., 177a Ocean Beach Road, Mount Maunganui.
 ZL2TLA—Lagerstedt, B. A., 26 Russell Road, Wainuiomata.
 ZL2TLB—
 ZL2TLC—Wills, M. J., 19 Ruskin Road, Newlands, Wellington 4.
 ZL2TLD—McAllister, G. B., P.O. Box 3675, Wellington.
 ZL2TLE—Campbell, W. H. R., Paerau Road, R.D. 1, Masterton.
 ZL2TLF—Sargent, D. J., Motukawa Road, R.D. 7, Inglewood.
 ZL2TLG—
 ZL2TLH—
 ZL2TLI—Wood, M. K., 5 Moki Street, Titahi Bay, Wellington.
 ZL2TLJ—Jones, B. L., 11 Turville Crescent, Newlands, Wellington 4.
 ZL2TLK—Ram, A., 70 Percy Dyatt Drive, Karori, Wellington 5.

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 ZL2TLM—Fowles, G. F., 90 Clarence Cox Crescent, Napier.
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 ZL2TMC—Savory, M. O., 15 Mana Avenue, Titahi Bay.
 ZL2TMD—Charlton, G. H., 5 Marne Street, Palmerston North.
 ZL2TME—
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 ZL2TMG—Williamson, D. E., 83 Main Road, Titahi Bay.
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ZL2TTQ—

ZL2TTR—

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ZL2TZC—Rumens, K. W., 13 St. Catherines Terrace, Tawa.

ZL2TZD—Hoy, M. H., 39 Highland Park Parade, Pakuranga, Auckland.

ZL2TZE—Conza, P. J., 4 McFarlane Place, Blenheim.

ZL2TZF—Hutley, D. A., 5 Westbourne Road, Remuera, Auckland 5.

ZL2TZG—Sargent, G. R., Motukawa Road, R.D. 7, Inglewood.

ZL2TZH—Helson, N. G., 18 Potomaru Street, Lower Hutt.

ZL2TZI—Harmsworth, W. A., Jonkers Road, Waitakere, Auckland 7.

ZL2TZJ—Heard, N. H., 28 Tawa Terrace, Tawa.

ZL2TZK—Edwards, R. V., 191 Oxford Street, Ashhurst.

ZL2TZL—

ZL2TZM—Russell, S. G., 85 Rugby Street, Palmerston North.

ZL2TZN—Springer, M. J., 33 Duigan Street, Wanganui.

ZL2TZO—Martin, G. T., R.D. 5, Longlands, Hastings.

ZL2TZP—

ZL2TZQ—Thompson, R. M., R.D. 8, Nikau, Pahiatua.

ZL2TZR—Collins, G. J., 44 Tararua Terrace, Palmerston North.

ZL2TZS—Barriball, O. P., C/- Pukeiti Lodge, R.D. 4, New Plymouth.
 ZL2TZT—King, M. J., 4a Anthony Street, Linden.
 ZL2TZU—Selwood, G. R., 14 Invercargill Drive, Kelson, Lower Hutt.
 ZL2TZV—Tong, B. J., 99a Manawatu Street, Palmerston North.
 ZL2TZW—
 ZL2TZX—Hoskins, R. H., 25 Ludlam Crescent, Lower Hutt.
 ZL2TZY—
 ZL2TZZ—Meek, E. P., 16 Grant Street, Dannevirke.
 ZL2UAA—
 ZL2UAB—McKerrow, R. J., Outward Bound School, Anikiwa.
 ZL2UAC—Pedder, R. A., 8 Thomas Hook Street, Tawa.
 ZL2UAD—MacDonald, J. R., 39 Aniseed Grove, Upper Hutt.
 ZL2UAE—Milroy, R. J., 41 Castlereagh Street, Wainuiomata.
 ZL2UAF—Hill, M. B., 25a Woodmancote Road, Khandallah, Wellington 4.
 ZL2UAG—Rumsey, D. C., 64 Tasman Road, Otaki Beach.
 ZL2UAH—Butler, N. A., 23 McKenzie Avenue, Raumati South.
 ZL2UAI—Slater, P., 25 Stanley Avenue, Palmerston North.
 ZL2UAJ—
 ZL2UAK—Huberts, G. H., 24 Lysnar Street, Gisborne.
 ZL2UAL—Huberts, K., 24 Lysnar Street, Gisborne.
 ZL2UAM—Pollard, P. B., 29 Seddon Crescent, Gisborne.
 ZL2UAN—Wills, A. R., 10 Castle Crescent, Stokes Valley.
 ZL2UAO—Murphy, G. R., 274 Songer Street, Stoke, Nelson.
 ZL2UAP—Heard, G. R., 24 Clearmont Crescent, New Plymouth.
 ZL2UAQ—McCrea, D. J., 115 Ferguson Street, Palmerston North.
 ZL2UAR—Finlay, E. McD., 51 Chamberlain Street, Tahunanui, Nelson.
 ZL2UAS—Slater, D. J., 35 Wyndham Road, Ashhurst.
 ZL2UAT—Griffith, R. L., 81 River Terrace, Brightwater, Nelson.
 ZL2UAU—
 ZL2UAV—Mulder, D. J., 28 McGuire Street, Hawera.
 ZL2UAW—
 ZL2UAX—
 ZL2UAY—Terris, C. A., 45 Marlowe Street, Stoke, Nelson.
 ZL2UAZ—Pearless, D. H., 107 McLeod Street, Upper Hutt.
 ZL2UBA—Maitland, I. J., 93 Wellington Road, Wainuiomata.
 ZL2UBB—Gibson, R. I., 31 Hobart Street, Wellington 3.
 ZL2UBC—
 ZL2UBD—
 ZL2UBE—Davies, R. G., 21 Gentian Street, Timberlea, Upper Hutt.
 ZL2UBF—Graham, R. A., 270 Stout Street, Gisborne.
 ZL2UBG—Lowe, C. W., 27 St Hill Lane, Havelock North.
 ZL2UBH—Cole, L. R., 8 London Road, Korokoro.
 ZL2UBI—Terris, R. D., 45 Marlowe Street, Stoke, Nelson.
 ZL2UBJ—Curran, B. I., 43 Porangahau Road, Waipukurau.
 ZL2UBK—Webber, D., 4 Victory Crescent, Tawa.
 ZL2UBL—Harper, G. D. J., 13 Sunbrae Drive, Silverstream.
 ZL2UBM—Taylor, G. J. W., Hammericks Road, R.D. 3, Blenheim.
 ZL2UBN—Briggs, A. G., 580 Lowe Street, Hastings.
 ZL2UBO—
 ZL2UBP—Riordan, I. M., Upper Takaka, Nelson.
 ZL2UBQ—Freer, R. I. R., 240 Kennedy Road, Napier.
 ZL2UBR—Christie, A. J., 259 Cambridge Street, Levin.
 ZL2UBS—
 ZL2UBT—
 ZL2UBU—Howie, I. M. C., 9 Trellissick Crescent, Ngaio, Wellington 4.
 ZL2UBV—
 ZL2UBW—Greenwood, P., 41 Simons Street, New Plymouth.

ZL2UEB

ZL2UBX—Grubner, L., 290e Cockayne Road, Ngaio, Wellington 4.
 ZL2UBY—Hucker, O. W., 61 Polson Street, Wanganui.
 ZL2UBZ—
 ZL2UCA—Gilchrist, R. J., 51 Hendersons Lane, Marton.
 ZL2UCB—Rimmer, B. J., 24 McDonald Street, Napier.
 ZL2UCC—Mantell, W. R., 41 Edgecumbe Street, Wellington 4.
 ZL2UCD—Calvert, D. A., Fabians Road, R.D. 1, Greytown.
 ZL2UCE—
 ZL2UCF—
 ZL2UCG—Birchall, O. J., 20 Hillcrest Drive, Palmerston North.
 ZL2UCH—
 ZL2UCI—Rawdon, P. D., 2 Picasso Grove, Belmont, Lower Hutt.
 ZL2UCJ—Stewart, P. J., Akatarawa Road, C/- Postal Counter, Post Office, Upper Hutt.
 ZL2UCK—Pahl, D. G., 57 Greenwood Street, Motueka.
 ZL2UCL—White, R. J., 9 Kings Crescent, Porirua.
 ZL2UCM—Mordecai, D. M. R., 257 Mill Road, Otaki.
 ZL2UCN—Burston, E. S. D., Pakihikura, R.D. 3, Huntville.
 ZL2UCO—Young, B. D., 97 Rosetta Road, Raumati South.
 ZL2UCP—Doney, G. I., 7 York Street, Wanganui.
 ZL2UCQ—
 ZL2UCR—
 ZL2UCS—McPherson, M. E., 19 Alexandra Street, Marton.
 ZL2UCT—Oborn, D. E., 91 Norton Park Grove, Lower Hutt.
 ZL2UCU—Carter, R. S., 101b Scott Street, Blenheim.
 ZL2UCV—Wright, S. W., 28 Wallscourt Place, Normanby.
 ZL2UCW—
 ZL2UCX—Davis, S. I., 37 Golf Road, Tahunua, Nelson.
 ZL2UCY—Lawrence, R. A., Pembroke Road, R.D. 21, Stratford.
 ZL2UCZ—
 ZL2UDA—
 ZL2UDB—Learmouth, B. H., Main Road, Kopane, R.D. 6, Palmerston North.
 ZL2UDC—Lark, M. J., Beach Road, Motueka.
 ZL2UDD—Reese, L. W. J., 50 Harold Holt Avenue, Napier.
 ZL2UDE—Senior, R. J., 34 Lahore Street, Wairoa.
 ZL2UDF—Webb, V. M., 12 Laurent VC Street, Hawera.
 ZL2UDG—Phillips, R. S., 42 Caldwell Road, Woodbourne, Blenheim.
 ZL2UDH—Knebel, D. J., 28 Chartwell Drive, Crofton Downs, Wellington 4.
 ZL2UDI—
 ZL2UDJ—Ritchie, L. T., 26 Maunder Street, Marton.
 ZL2UDK—
 ZL2UDL—Nixon, T. J., 16 Balliol Drive, Tawa.
 ZL2UDM—Graves, R. D. H., 2 Anglesey Place, Palmerston North.
 ZL2UDN—
 ZL2UDO—Mulligan, G. D., 224 Karori Road, Wellington 5.
 ZL2UDP—Cooper, A. J., 6 Denholm Road, Napier.
 ZL2UDQ—Bos, F., 34 Albert Street, Pahiatua.
 ZL2UDR—Cole, G. P., 58 Woodhouse Avenue, Wellington 5.
 ZL2UDS—Durbridge, D. S., 19 Colombo Street, Palmerston North.
 ZL2UDT—Clarkson, M. J., 14 Skippage Road, Featherston.
 ZL2UDU—Parker, H. R., 59 Routley Crescent, Upper Hutt.
 ZL2UDV—Lambert, J., 12 Betts Avenue, Masterton.
 ZL2UDW—Cheer, B. W., 17 Merton Crescent, Napier.
 ZL2UDX—Lawn, M. J., 2 Kiwi Place, Tawa.
 ZL2UDY—
 ZL2UDZ—Andrews, I. F., 66 Shakespeare Avenue, Upper Hutt.
 ZL2UEA—Goldfinch, R. Q., 15 Arthur Hobson Avenue, Piriwai.
 ZL2UEB—Wilkinson, J., 69a Park Road, Carterton.

ZL2UEC

ZL2UEC—

ZL2UED—

ZL2UEE—Gardner, A. P., 6 Alberta Road, New Plymouth.

ZL2UEF—Whittaker, J. W., 128 Moohan Street,
Wainuiomata.ZL2UEG—Thorp, R. J., 26 Southwark Avenue, Tamatea,
Napier.

ZL2UEH—Ames, M. L., Queen Street East, R.D. 1, Levin.

ZL2UEI—McConnel, W. K., 41 Riddlers Crescent, Petone.

ZL2UEJ—

ZL2UEK—

ZL2UEL—Lane, J. R., C/- NZED, Woodlands Road, R.D.
3, Woodville.ZL2UEM—Miller, C. D., 72b Blackrock Road, Newlands,
Wellington 4.ZL2UEN—Wakefield, W. J., 52 Totara Street,
Wainuiomata.ZL2UEO—Stucke, P. W. S., Highup Lindups Road, Upper
Moutere.

ZL2UEP—McNab, P. C., P.O. Box 138, Blenheim.

ZL2UEQ—Berger, R., 38a Morley Street, New Plymouth.

ZL2UER—

ZL2UES—

ZL2UET—Harding, B. P., 55 Hillside Drive, Maoribank,
Upper Hutt.

ZL2UEU—Hislop, R. G., 44 Donnelley Drive, Wainuiomata.

ZL2UEV—Tong, J., 52b Truscott Avenue, Johnsonville,
Wellington 4.

ZL2UEW—Aurisch, P. J., 2 Taranaki Street, Wanganui.

ZL2UEX—

ZL2UEY—Collins, G. N., 16 Oxford Street, Marton.

ZL2UEZ—Conroy, T. R., 37 Stratford Street, Blenheim.

ZL2UFA—Wilson, B. D., 4 Potutu Grove, Upper Hutt.

ZL2UFB—

ZL2UFC—Meek, P. K., 42 McLeod Street, Upper Hutt.

ZL2UFD—

ZL2UFE—Vickers, M. P., 2 George Street, Eltham.

ZL2UFF—Pannek, R., 11 Miro Street, Upper Hutt.

ZL2UFG—Randall, J. H., 7a Sunny Glen, Waikanae.

ZL2UFH—Huntingdon, R. J., 11 Thistle Street, Napier.

ZL2UFI—

ZL2UFJ—Baker, G. C., 110 Wood Street, Palmerston
North.

ZL2UFK—

ZL2UFL—Cotter, M. C., 24 Rodney Street, Woburn, Lower
Hutt.

ZL2UFM—Lambert, A. C., 44 Strange Street, Waitara.

ZL2UFN—Blyde, G. R., 18 Egmont Street, Kaponga.

ZL2UFO—Davies, S. P., 226 Mitchell Street, Brooklyn
Wellington 2.ZL2UFP—Cordy, M., 50 Strathmore Avenue, Strathmore
Park, Wellington 3.ZL2UFQ—Asmus, J. M., 16 Palliser Place, Palmerston
North.ZL2UFR—Gibson, B. S., 142 Te Mata Road, Havelock
North.

ZL2UFS—Kent, A. A., 5 Raymond Terrace, Lower Hutt.

ZL2UFT—Johnston, A. A., 26 Grey Street, Woodville.

ZL2UFU—Page, A., 6 Matai Place, Otaki.

ZL2UFV—

ZL2UFW—Baldwin, T. N., 38 Princess Street, Waitara.

ZL2UFX—

ZL2UFY—Whale, D. M., 301 Kennedy Road, Napier.

ZL2UFZ—

ZL2UGA—

ZL2UGB—

ZL2UGC—

ZL2UGD—Herbert, J. O., Mataro Road, RD 45, Urenui.

ZL2UGE—

ZL2UGF—Burling, M. L., 51 Catherine Crescent, Pararangi,
Newlands, Wellington 4.ZL2UGG—Syme, D. R., 17 Rogers Road, Bay View,
Napier.ZL2UGH—Newport, C. W., 162 Kawai Street South,
Nelson.

ZL2UGI—

ZL2UGJ—

ZL2UGK—George, S. B., 6 Seymour Street, Waitara.

ZL2UGL—Southam, J. E., 32 Kandy Crescent, Ngāio,
Wellington 4.

ZL2UGM—Thomson, B. J., 16 Victory Crescent, Tawa.

ZL2UGN—Gregory, B., 46 Corinna Street, Porirua.

ZL2UGO—Harper, I. R., 12 Findhorn Place, Papakowhai.

ZL2UGP—Pears, D. M., 17 Palmer Crescent, Heretaunga,
Upper Hutt.ZL2UGQ—Comrie, A. C., 31 Wellington Road,
Wainuiomata.ZL2UGR—Smith, P. R., Unit 1 53 Clifford Road,
Johnsonville, Wellington 4.

ZL2UGS—Jones, B. R., 24 Matanina Grove, Haywards.

ZL2UGT—

ZL2UGU—

ZL2UGV—Senior, J. I. M., 34 Lahore Street, Wairoa.

ZL2UGW—Cumings, L. J., 76 Brandon Street,
Featherston.

ZL2UGX—

ZL2UGY—Reisima, A. J., 31 Perry Street, Silverstream,
Upper Hutt.

ZL2UGZ—Hodgkinson, J., Medway Street, Rongotea.

ZL2UIA—Brandwood, M. D., 10a Te Kiteroa Grove,
Churton Park, Wellington 4.ZL2UIB—Morrish, I. D., 47 Everest Street, Khandallah,
Wellington 4.

ZL2UIC—Kerley, P., 38 Somerset Street, New Plymouth.

ZL2UID—Imamura, K., 5 Rama Crescent, Khandallah,
Wellington 4.

ZL2UIE—Rozmus, J. E., 101 Gonville Avenue, Wanganui.

ZL2UIF—Ward, T. W., 1/358 Devon Street East, New
Plymouth.

ZL2UIG—Merrilees, P. R., 44 Golders Road, Upper Hutt.

ZL2UIH—

ZL2UII—Goodall, R. N., 31 Plymouth Road, Flaxmere,
Hastings.

ZL2UIJ—Marr, Y. E., 3 Crown Hill, Titahi Bay.

ZL2UIK—

ZL2UIL—Davidson, M. W., 12 Highfield Place, Levin.

ZL2UIM—Duffy, M. J., 23 Ngarara Road, Waikanae.

ZL2UIN—Gregory, A., 46 Corinna Street, Porirua.

ZL2UIO—

ZL2UIP—Hills, J. D., 16 Miro Street, New Plymouth.

ZL2UIQ—Baldwin, P. J., 12 Airedale Place, Waitara.

ZL2UIR—Were, G., 180 Regan Street, Stratford.

ZL2UIS—Hoogeveen, W., 35 Ramanui Avenue, Hawera.

ZL2UIT—Cash, I. M., 40 Hutchins Street, Waitara.

ZL2UIU—

ZL2UIV—Candy, S. T. R., P.O. Box 56-072, Linden, Tawa.

ZL2UIW—

ZL2UIX—Abel, A. J., 20 Ranfurly Road, Feilding.

ZL2UIY—Baird, S. L. C., 22 The Sounding, Whitby,
Paramata.

ZL2UIZ—Armstrong, P. A., 26 Ferndale Place, Feilding.

ZL2UJA

ZL2UJB

ZL2UJC

ZL2UJD

ZL2UJE

ZL2UJF

ZL2UJG

ZL2UJH

ZL2UJI

ZL2UJJ

ZL2UJK

ZL2UJL

ZL2UJM

ZL2VHP—Manawatu Branch NZART, (Trustees: H. N.
Wiggins, and S. J. Cathcart). (Beacon Station
located at Mt. Stewart, Mt. Biggs Road,
Palmerston North.)

ZL3 Callsign Listings

- ZL3AA—Cheeseman, J. P., 20 Stanley Crescent, Nelson.
 ZL3AB—
 ZL3AC—Christchurch Branch NZART Inc., (Trustee: D. J. MacKay), Galbraith Avenue, Avonside, Christchurch 6.
 ZL3AD—Donehue, W. R., No. 1 R.D., Timaru.
 ZL3AE—Festing, D. A., Main Road, Oxford, North Canterbury.
 ZL3AF—Ashburton Branch NZART Inc., (Trustees: V. P. Lovett and K. W. Stirling), Mona Square, Ashburton.
 ZL3AG—Roberts, G. C., 59 Thomson Street, Ashburton.
 ZL3AH—Jones, D. L., 53 Wales Street, Halswell, Christchurch 3.
 ZL3AI—Fraser, D. J., Glenmark Street, Waipara.
 ZL3AJ—McDonald, K. R., 74 McBratneys Road, Christchurch 6.
 ZL3AK—Sandford, G. G., 44/3 Peel Street, Geraldine.
 ZL3AL—Smythe, G. C., 300 Withells Road, Christchurch 4.
 ZL3AM—Kirk, R. E., 43 Dover Street, Christchurch 1.
 ZL3AN—Duff, B. F., 30 Frensham Crescent, Christchurch 6.
 ZL3AO—Bell, M. W., 203 Weston Road, Christchurch 5.
 ZL3AP—Tomlinson, H. C., 446 Hills Road, Christchurch 5.
 ZL3AQ—Lovett, V. P., 148 Alford Forest Road, Ashburton.
 ZL3AR—Whyte, B. T., 17 Cambridge Street, Ashburton.
 ZL3AS—Sams, C. G. A., 80 Straven Road, Christchurch 1.
 ZL3AT—Marquet, L. J., 23 Nortons Road, Christchurch 4.
 ZL3AU—
 ZL3AV—Wills, S. P., 26b Marshall Street, Christchurch 2.
 ZL3AW—
 ZL3AX—Tillman, N. W., 69 Soleares Avenue, Christchurch 8.
 ZL3AY—Mason, G. E., Mason's Flat, Hawarden.
 ZL3AZ—Rayner, D. A., 23 Waitohi Street, Christchurch 4.
 ZL3BA—Drumm, B. G., 12 Martin Street, Hamilton.
 ZL3BB—Gray, G. W., 6 Muir Street, Wanganui.
 ZL3BC—Harrison, J., "Pinaki" Motunau, R.D., Greta Valley.
 ZL3BD—Ludwig, M., 105 Beachville Road, Christchurch 8.
 ZL3BE—Christchurch Boys' High School Radio Club, (Trustee: T. J. S. Wignall), Straven Road, Christchurch 1.
 ZL3BF—Salt, S. J., 234 Ilam Road, Fendalton, Christchurch 4.
 ZL3BG—Himing, L. C., 23 Coopers Road, Shirley, Christchurch 6.
 ZL3BH—Bowman, G. R. B., 158 Revell Street, Hokitika.
 ZL3BI—Brice, K. L., 18 College Avenue, Christchurch 5.
 ZL3BJ—Hunter, L. C., 42 Stanton Crescent, Christchurch 2.
 ZL3BK—Halliburton, G. A., 6 Barlow Street, Christchurch 4.
 ZL3BL—Holland, B. N., 75 Blankney Street, Christchurch 4.
 ZL3BM—Cook, D., 5 Swindells Road, Waikuku Beach, North Canterbury.
 ZL3BN—Sim, G. W., 47 Teesdale Street, Christchurch 5.
 ZL3BO—King, M. R., 2/16 Tuahine Crescent, Wainui, Gisborne.
 ZL3BP—Mountford, T. G., 141a Otupua Road, Timaru.
 ZL3BQ—Urwin, A. J. (Mrs), 30 Ryeland Avenue, Christchurch 4.
 ZL3BR—White, M. G., Mangawhero Road, P.O. Box 62, Eltham 5.
 ZL3BS—Tweedie, S. B., 167 Wales Street, Oaklands, Christchurch 3.
 ZL3BT—White, E. L., 5 Clementine Lane, Christchurch 8.
 ZL3BU—McNeill, E. D., 43b Bowenvale Avenue, Christchurch 2.
 ZL3BV—Schaef, L. M., 10 Bridge Street, Greymouth.
 ZL3BW—Burt, G. L., 114 Marsden Road, Greymouth.
 ZL3BX—Patrick, B. L., 422 Innes Road, Christchurch 5.
 ZL3BY—Halford, B. B., P.O. Box 16-055, Hornby, Christchurch 4.
 ZL3BZ—Johnson, C., 10 Harris Street, Pleasant Point.
 ZL3CA—Sandford, T. W., Unwin Road, Orton R.D., Temuka.
 ZL3CB—Newton, B. A. (Mrs), 23 Crofton Road, Christchurch 5.
 ZL3CC—Crosby, K. G., 138 Peel Street, Westport.
 ZL3CD—Smillie, J. W., 7 Barnes Street, Timaru.
 ZL3CE—Hewson, J. N., 20 Darroch Street, Christchurch 5.
 ZL3CF—Lec, C., 7 Harcourt Street, Grey Lynn, Auckland 2.
 ZL3CG—Silverwood, K., Waimangaroa.
 ZL3CH—McKnight, S. G. J., 24 Celia Street, Christchurch 8.
 ZL3CI—Isherwood, B., 134 Park Street, Hokitika.
 ZL3CJ—Bell, R. G., 50b Murray Place, Christchurch 1.
 ZL3CK—Seay, M. R., Meadowcroft, 3 R.D., Christchurch.
 ZL3CL—McKay, A. D. G., 2 Cedars Street, Christchurch 2.
 ZL3CM—Burrell, K. M., 5 Jacaranda Grove, Maungaraki, Wellington.
 ZL3CN—
 ZL3CO—Wylie, P. B., 101 Englefield Road, Christchurch 5.
 ZL3CP—Parton, C. W., 78 Diamond Avenue, Spreydon, Christchurch 2.
 ZL3CQ—
 ZL3CR—Harvey, C. R., 27 The Terrace, Timaru.
 ZL3CS—Downer, G. H., Larcombs Road, No. 5 R.D., Christchurch.
 ZL3CT—Bennett, R. S., 38 Omaha Crescent, Twizel.
 ZL3CU—Moffatt, S. Z., 33 Bidwell Street, Timaru.
 ZL3CV—Gilligan, M. S. J., 368 Barrington Street, Christchurch 2.
 ZL3CW—Gitsham, F. J., C/- Regional Engineers Office, P.O. Box 1473, Christchurch.
 ZL3CX—Raper, T. C., C/- Bible College, 221 Lincoln Road, Henderson, Auckland 8.
 ZL3CY—Hutchison, D. E., 44 Hawthorndon Road, Christchurch 4.
 ZL3CZ—Felmingham, C. E., 97 Cowper Street, Greymouth.
 ZL3DA—Fletcher, G. K., 16 Kahu Street, Burnham, Christchurch.
 ZL3DB—Buschl, B. D., 6/30 Gambia Place, Papanui, Christchurch 5.
 ZL3DC—Grindrod, R. J., 103 Gardeners Road, Christchurch 5.
 ZL3DD—Mitchell, A. R., 55 Shoreham Street, Blockhouse Bay, Auckland 7.
 ZL3DE—Hawes, S. C., Timaru Hospital, Timaru.
 ZL3DF—Yoeman, J. C., 110 Bristol Street, Christchurch 1.
 ZL3DG—Hood, N. D., 47A Aorangi Road, Christchurch 5.
 ZL3DH—Hardie, W. S., 245a Harewood Road, Christchurch 5.
 ZL3DI—Tylee-Porter, G. J., Crossgates Farm, Cryers Road, Southbridge, R.D. 3, Christchurch.
 ZL3DJ—Gill, M. E., "Becksote", No. 1 R.D., Ashburton.
 ZL3DK—
 ZL3DL—Barker, L. G., 37 Burwood Road, Christchurch 9.
 ZL3DM—Calvert, R. L., 253a Waimairi Road, Christchurch 4.
 ZL3DN—Westland Branch NZART Inc., (Trustee: D. F. Martin), 28 High Street, Greymouth.
 ZL3DO—Sharp, V. E. E., 10 Sewell Street, Linwood, Christchurch 6.
 ZL3DP—Meikle, B., District Engineers' Office, Post Office, Nelson.
 ZL3DQ—Boddy, A. W., 9 Bolton Avenue, Spreydon, Christchurch 2.
 ZL3DR—Godfrey, R. J., Main South Road, R.D. 2, Kaikoura.

ZL3DS

ZL3DS—Brewster, D. W., 860 Avonside Drive, Christchurch 6.

ZL3DT—

ZL3DU—Wilson, V. J., 33 Roseberry Street, Christchurch 2.

ZL3DV—Jefferis, E. W., 15 Kingsgate Place, Christchurch 5.

ZL3DW—Edward, L. N. M., 45d Glenharrow Avenue, Christchurch 4.

ZL3DX—McGee, W. H., 11 Glenavon Place, Christchurch 4.

ZL3DY—Firman, R. K., 181 Morgans Road, Timaru.

ZL3DZ—Thomson, G., 24 George Street, Pleasant Point.

ZL3FA—Davis, M. C., 30 City View Terrace, Birkenhead, Auckland 10.

ZL3FB—Schroeder, W. F., The Vicarage, 8 Roxburgh Street, Christchurch 2.

ZL3FC—Guthrie, M. W., 74 Merivale Lane, Christchurch 1.

ZL3FD—

ZL3FE—Brown, R. A., 17 Rathlin Street, Christchurch 5.

ZL3FF—Kelly, I. J. H., 74 Heta Road, New Plymouth.

ZL3FG—**ZL3FH—**

ZL3FI—Smith, E. S., 112 Russell Street, Westport.

ZL3FJ—Brown, D. A., 62 Hudson Street, Christchurch 5.

ZL3FK—Hepburn, L. D., 22 Gwynfa Avenue, P.O. Box 1410, Christchurch 2.

ZL3FL—Cox, W. F., 55 Daniels Road, Christchurch 5.

ZL3FM—Campbell, R. J., 6 Candys Road, Christchurch 3.

ZL3FN—Wilson, R. J., 9 Sumner Street, Christchurch 2.

ZL3FO—Blackmore, J. H., 364 Riverlaw Terrace, St. Martins, Christchurch 2.

ZL3FP—Kyle, E. A. J., 12a Mountfort Street, Christchurch 2.

ZL3FQ—Hamlin, J. H., 26 Brabourne Street, Christchurch 2.

ZL3FR—Fisher, R. G., Sarjants Road, Te Puru, Thames.

ZL3FS—Seed, D. P. (Mrs), 831 Cashmere Road, Halswell, Christchurch 3.

ZL3FT—

ZL3FU—McPhail, T. K., 7 Ostend Place, Christchurch 4.

ZL3FV—McCracken, W. D., 14 Northcote Road, Papanui, Christchurch 5.

ZL3FW—O'Brien, J. R., 508 Marine Parade, Christchurch 7.

ZL3FX—

ZL3FY—Gardner, R., 62 Palatine Terrace, Christchurch 2.

ZL3FZ—Fraser, B. H. L., 113 Beresford Street, Christchurch 7.

ZL3GA—Allan, N. J., 11 Longmuir Street, Christchurch 4.

ZL3GB—Cronin, D. W., 86 St. Martins Road, St. Martins, Christchurch 2.

ZL3GC—Baker, D. M., 10 Lisava Avenue, Timaru.

ZL3GD—Kingan, S. G., Anama, R.D. 8, Ashburton.

ZL3GE—Welford, A. R., 12 Devon Street, Timaru.

ZL3GF—Boal, W. A., 145 South Bay Parade, South Bay, Kaikoura.

ZL3GG—Hamilton, H. G., 25 Whitby Street, Christchurch 5.

ZL3GH—Mitchell, N. J., 15 Blossomdale Place, Christchurch 5.

ZL3GI—Halliburton, G. J., 6 Barlow Street, Fendalton, Christchurch 4.

ZL3GJ—Reynolds, A. E., 117 Roker Street, Christchurch 2.

ZL3GK—Richardson, T. C. W., 5 Cicada Place, Christchurch 4.

ZL3GL—Phillips, R. J., 15 Wyn Street, Hoon Hay, Christchurch 2.

ZL3GM—

ZL3GN—Dacombe, A. N., 33a Huntsbury Avenue, Christchurch 2.

ZL3GO—Scott, T. R., Ruapuna, No. 5 R.D., Ashburton.

ZL3GP—Middlemiss, P. G., 71 Kelly's Road, Christchurch 5.

ZL3GQ—Watson, P. W., Hamptons Road, R.D. 4, Christchurch.

ZL3GR—Archer, R. G., 12 Takahe Drive, Cashmere, Christchurch 2.

ZL3GS—Wright, G. M., 25 Dunedin Street, Christchurch 5.

ZL3GT—Somerville, J. H., 14 Park Lane, Timaru.

ZL3GU—Keys, J. R., 60 Huxley Street, Sydenham, Christchurch 2.

ZL3GV—Kerdelmidis, T., Fiat 3, 421 Worcester Street, Christchurch 1.

ZL3GW—

ZL3GX—Chapman, A. S., 7 Dellow Place, Christchurch 2.

ZL3GY—Morgan, D. K., 6a Mendip Place, Christchurch 5.

ZL3GZ—Smith, H. E., North Road, Clinton.

ZL3HA—Arnold, H. F., 23 Cornwell Street, Christchurch 1.

ZL3HB—Deans, R. H., Tara, Coalgate.

ZL3HC—Brittenden, C. E. R., 329 Wainoni Road, Christchurch 7.

ZL3HD—Chambers, D. H., 5 Stiles Place, Dallington, Christchurch 6.

ZL3HE—Harris, J. G., 528 Hagley Avenue, Christchurch 1.

ZL3HF—

ZL3HG—Davy, K. T., 17 Hatton Street, Timaru.

ZL3HH—Wylie, R. L., 21 Vickery Street, Kaiapoi.

ZL3HI—Holtum, J. W. A., 44 Melrose Road, Island Bay, Wellington 2.

ZL3HJ—Hyndman, A. W., 270 Halswell Junction Road, Christchurch 3.

ZL3HK—Hayes, W. F., 90 Bright Street, Cobden, Greymouth.

ZL3HL—Thompson, S. A., 48 Tosswill Road, Prebbleton.

ZL3HM—Evans, C. E., 123 Beach Road, Kaikoura.

ZL3HN—Holtum, J. W., 461 Johns Road, Harewood, Christchurch 5.

ZL3HO—Lowry, R. C., 10 Palmers Road, North Beach, Christchurch 9.

ZL3HP—Hildebrand, D. E., 26 Ballance Street, Runanga.

ZL3HQ—Moors, E. M. C., 8 Torlesse Street, Southbrook, Rangiora.

ZL3HR—Leitch, A., 113 Beresford Street, Christchurch 7.

ZL3HS—Kempthorne, J. H., 44 Cannon Hill Crescent, Christchurch 8.

ZL3HT—Lyford, A. R., 156 Pembroke Road, Stratford.

ZL3HU—Sandford, B. D., 205c Waimea Terrace, Christchurch 2.

ZL3HV—

ZL3HW—Wallace, C. W., 14 Brookby Crescent, Christchurch 4.

ZL3HX—Marshall, D. A., 4 Geisha Road, Waikuku, North Canterbury.

ZL3HY—Fleming, J. G., 107 Lonsdale Street, Christchurch 9.

ZL3HZ—Southgate, W. A., 7 Paeroa Street, Christchurch 4.

ZL3IA—Tyerman, P. F., 9 Elstow Place, Christchurch 2.

ZL3IB—Walker, J. R. L., 19 Athol Terrace, Christchurch 4.

ZL3IC—McCulloch, E. N., 21 Norwich Street, Christchurch 6.

ZL3ID—Pettigrew, W. L., 148 Peel Street, Westport.

ZL3IE—Hopkinson, L. G., 107 Evans Street, Timaru.

ZL3IF—Stickings, P. C., 5 Kowhai Street, Ravensbourne, Dunedin.

ZL3IG—

ZL3IH—Preston, W. L., Rhoborough Downs, Fairlie.

ZL3II—

ZL3IJ—Inglis, J. M., 288 Estuary Road, Christchurch 7.

ZL3IK—Murray, J. C., 3 Kitchener Place, Opawa, Christchurch 2.

ZL3IL—**ZL3IM—**

ZL3IN—Cox, R., 16 College Avenue, Christchurch 5.

ZL3IO—Crossman, G. D., 2 Wallingford Road, Temuka.

ZL3IP—Anderson, J., 40a Sneyd Street, Kaiapoi.

ZL3IQ—Drummond, W. P., 11 Reid Crescent, Ashburton.

ZL3IR—Benson, A. F., 32 Euston Street, Christchurch 4.

ZL3IS—Soanes, G. A., 245 Westminster Street, Christchurch 1.
 ZL3IT—MacDonald, J. D., 42 Buchanan Street, Timaru.
 ZL3IU—Gray, N. G., Springburn, R.D. 1, Ashburton.
 ZL3IV—Cumming, R. W., Arthurstown Road, Hokitika.
 ZL3IW—Madden, G. R. H., 139 Soleares Avenue, Christchurch 8.
 ZL3IX—Hope, G. M., 25 Jonning Place, Redwood, Christchurch 5.
 ZL3IY—Vickery, K., 139 Raven Street, Kaiapoi.
 ZL3IZ—Duncan, A., 8 D'Arcy Street, Richmond.
 ZL3JA—Avery, J. L., 59 Taylors Mistake Road, Sumner, Christchurch 8.
 ZL3JB—Nutley, A., C/- Alp Sports, 216 Hereford Street, Christchurch 1.
 ZL3JC—Watson, J. P., 64 MacDonald Street, Timaru.
 ZL3JD—
 ZL3JE—Stewart, D. A., 33 King Street, Pareora.
 ZL3JF—Henderson, H. P., 35 Hillview Crescent, Timaru.
 ZL3JG—Rawstorn, G. J., 108 Monks Spur Road, Christchurch 8.
 ZL3JH—Kingston, E. W. A. H., 18 Smith Street, Woolston, Christchurch 6.
 ZL3JI—Foulds, L. F., 131 Cuthberts Road, Christchurch 6.
 ZL3JJ—Crump, M. W., 9 Peraki Street, Kaiapoi.
 ZL3JK—Williams, H. E., 51 Westholme Street, Christchurch 5.
 ZL3JL—McFarlane, A. R., 48 Chalmers Avenue, Ashburton.
 ZL3JM—Bennett, P. W., 319 King Street, Temuka.
 ZL3JN—Mummery, B. H., 8 McIntyre Street, Christchurch 1.
 ZL3JO—Papesch, A. J. G., 25 Powell Crescent, Christchurch 4.
 ZL3JP—Langley, E. W., 22a Neill Street, Hornby, Christchurch 4.
 ZL3JQ—Poll, A. K., 155 Halswell Road, Christchurch 2.
 ZL3JR—Kelly, S. J. C., 6b Peters Lane, Christchurch 2.
 ZL3JS—Pruden, H. C. L., 84 Cresswell Avenue, Christchurch 6.
 ZL3JT—Ward, C. A., 329 Wainoni Road, Christchurch 7.
 ZL3JU—Sorensen, A. G., 62 Shortland Street, Christchurch 6.
 ZL3JV—MacGeorge, B. A., 9 Opie Street, Waimate.
 ZL3JW—Anderson, R. A., 9 Greenwood Street, Mairehau, Christchurch 1.
 ZL3JX—Rowlands, T. E., "Ruthin", R.D. Kaiapoi.
 ZL3JY—Stalker, J. P., Greenpark, No. 4 R.M.D., Christchurch.
 ZL3JZ—Dumbleton, R. S., 8 Bradford Avenue, Christchurch 2.
 ZL3KA—Macer, J., 31 Colwyn Street, Christchurch 5.
 ZL3KB—
 ZL3KC—Cuttriss, S. A., 33 Brabourne Street, Christchurch 2.
 ZL3KD—Diedrichs, G. H., 16 Kildare Terrace, Lincoln.
 ZL3KE—McGrath, R. E., 42 Lyndhurst Crescent, Christchurch 7.
 ZL3KF—Pettitt, E. R., 6a Usk Street, Timaru.
 ZL3KG—Willmott, W. R., C/- Willmotts Drapers, 26 Royal Arcade, Timaru.
 ZL3KH—
 ZL3KI—Jackson, D. W., 42 Churchill Street, Kaikoura.
 ZL3KJ—Jones, E. V., 155 Derby Street, Westport.
 ZL3KK—Goodare, T. T., 8 Cutts Road, Christchurch 4.
 ZL3KL—Howell, B. C., No. 6 Deepdale Street, Christchurch 5.
 ZL3KM—Woodfield, M. K., 74 Marlborough Street, Greymouth.
 ZL3KN—Ellis, T. C., Flat 3, 460 Gloucester Street, Christchurch 1.
 ZL3KO—Stroobant, A. D., 19 Rothesay Bay Road, Rothesay Bay Auckland 10.
 ZL3KP—Parr, W. E., 30 Cranbrooke Ave, Christchurch 5.
 ZL3KQ—Hellyar, G. I., 7 Jameson Avenue, Christchurch.

ZL3ML

ZL3KR—Hughes, A. G., 4 Exton Street, Christchurch 5.
 ZL3KS—Downer, M. H., 34 Torquay Place, Christchurch 5.
 ZL3KT—Olsson, E. E., 14 Bentley Street, Christchurch 4.
 ZL3KU—Waters, K. A., 11 Burnett Street, Timaru.
 ZL3KV—Brown, H. H., 22 Birkenhead Street, Christchurch 4.
 ZL3KW—Faass, S. R. F., 13a Miriana Street, Maungatapu, Tauranga.
 ZL3KX—Harrington, R. J., Mount Harris Road, 9 R.D., Waimate.
 ZL3KY—Talbot, A. D., 37 Park View Terrace, Timaru.
 ZL3KZ—Neilson, J. B., 37 Eastling Street, Bishopdale, Christchurch 5.
 ZL3LA—Ludbrook, S. W., 255 Woodham Road, Christchurch 6.
 ZL3LB—Hamilton, W. R., 17 Braithwaite Street, Christchurch 4.
 ZL3LC—Corner, P. E., 7 Deepdale Street, Christchurch 5.
 ZL3LD—Saunders, B. C., 14 Stackhouse Avenue, Christchurch 5.
 ZL3LE—Guard, B. N., 80 Hassall Street, Timaru.
 ZL3LF—
 ZL3LG—Jackson, C. J., 74 Cambridge Street, Ashburton.
 ZL3LH—Muir, D.N., 104 Torea Street, Granity.
 ZL3LI—Neal, J. V., 3 Branscombe Street, Timaru.
 ZL3LJ—Wigram Radio Hobbies Club, (Trustee: D. K. Hampton), RNZAF Station, Wigram, Christchurch 4.
 ZL3LK—McGowan, J. S., 75 Eastern Terrace, Christchurch 2.
 ZL3LL—Leadley, J. M., "Woodlands", R.D. 7, Ashburton.
 ZL3LM—Burrell, N. W., 63 Kotare Street, Christchurch 4.
 ZL3LN—Penney, V. J., 326 Riverlaw Terrace, Christchurch 2.
 ZL3LO—Cairns, A., 21a Soleares Avenue, Christchurch 8.
 ZL3LP—Brown, H. P., 8 Neill Street, Hornby, Christchurch 4.
 ZL3LQ—Paltridge, K. K., 131 Warrington Street, Christchurch 1.
 ZL3LR—
 ZL3LS—Miller, G. C., 47 Cox Street, Christchurch 1.
 ZL3LT—Stanbury, A. C., 43 Dunedin Street, Northcote, Christchurch 5.
 ZL3LU—Campbell, G. R., 24 Rosamund Place, Christchurch 3.
 ZL3LV—Davey, R. L., 30 Grassmere Street, Christchurch 5.
 ZL3LW—Lowe, C. A. K., 15 Auburn Avenue, Christchurch 4.
 ZL3LX—Kirkpatrick, I. J., 99 Bickerton Street, Christchurch 6.
 ZL3LY—Eddington, J. A., 23 Ferner Street, Christchurch 6.
 ZL3LZ—
 ZL3MA—Kingswell, G. N., "Highlands", P.O. Box 93, Geraldine.
 ZL3MB—Wilson, M. J. G., 23 Vauxhall Street, Christchurch 5.
 ZL3MC—McKenzie, D. S., 176 Ilam Road Christchurch.
 ZL3MD—
 ZL3ME—Bramley, C. J., 7 Edward Street, Prebbleton.
 ZL3MF—Oates, D. J., Carters Beach, C/- P.O. Box 20, Westport.
 ZL3MG—Urlwin, R. A., 30 Ryeland Avenue, Christchurch 4.
 ZL3MH—Macer, D. R. J., 31 Colwyn Street, Christchurch 5.
 ZL3MI—Sullivan, R. E., 103a Jeffreys Road, Christchurch 5.
 ZL3MJ—Lewis, C. T., 30 Te Rama Place, Christchurch 6.
 ZL3MK—Phillips, A. S., 148 Brookside Terrace, Bryndwr, Christchurch 5.
 ZL3ML—McNicol, A. D., 26 Gainsford Street, Christchurch 4.

ZL3MM

ZL3MM—Hills, R. I., 25 Rapaki Road, Christchurch 2.

ZL3MN—

ZL3MO—Murphy, P. C., 60 Dunns Avenue, Pines Beach, Kaiapoi.

ZL3MP—Cardwell, A. M., 18 Edward Avenue, St. Albans, Christchurch 1.

ZL3MQ—McMaster, R. J., 8 Greens Road, Kaiapoi R.D. 1.

ZL3MR—Warner, J. A., 11 Goulds Road, Timaru.

ZL3MS—Brash, J. P., 14 Rydal Street, Christchurch 2.

ZL3MT—

ZL3MU—Henshall, E. H. (Mrs), 281 Innes Road, Christchurch 5.

ZL3MV—Morrin, E. C., 45 Wychbury Street, Spreydon, Christchurch 2.

ZL3MW—Watt, J. M., 44 Ward Street, Kaikoura.

ZL3MX—Cason, A. V., 198 Otupua Road, Timaru.

ZL3MY—Searle, R. W., P.O. Box 33, Harihari.

ZL3MZ—Garlick, P. R., 23 Lydia Street, Greymouth.

ZL3NA—Robinson, D. G., Kowhitirangi, R.D., Hokitika.

ZL3NB—Swann, A., 29 Manor Place, Bryndwr, Christchurch 5.

ZL3NC—Ingram, R. C., Rapahoe, Greymouth.

ZL3ND—Liddell, C. G., 356 Avonside Drive, Christchurch 6.

ZL3NE—Gyde, R. M., 26 Anita Avenue, Mt. Roskill, Auckland 4.

ZL3NF—Long, R. O., 103 Grey Street, Ashburton.

ZL3NG—

ZL3NH—Rogers, P. J., Corner Cashmere and Happy Home Roads, Christchurch 3.

ZL3NI—Walker, D. N., 7 Levens Lane, Temuka.

ZL3NJ—

ZL3NK—Gollidge, C. W., 28 Vialou Street, P.O. Box 740, Hamilton.

ZL3NL—Tait, A. McM., 8 Ashbourne Street, Christchurch 5.

ZL3NM—Young, R. S., Anarewa Crescent, Stephens Bay, Motueka.

ZL3NN—Walshe, J. R., 79 Wellington Street, Picton.

ZL3NO—Johannis, K. L., 33 Wilton Crescent, Christchurch 5.

ZL3NP—Johnstone, G. V. O., 23 Roswell Place, Christchurch 4.

ZL3NQ—Drever, G. R., 139 Belt Road, Ashburton.

ZL3NR—Campbell, L. S., 83 Farrington Avenue, Christchurch 5.

ZL3NS—Ostitis, T., 128 Brookside Terrace, Christchurch 5.

ZL3NT—Blackwell, G. C., 3 Dobson Street, Christchurch 2.

ZL3NU—Collett, L. M., 263 Cannon Hill Crescent, Christchurch 8.

ZL3NV—O'Connor, E. P., 6 Stephens Street, Rangiora.

ZL3NW—Macintosh, R. M., Main North Road, R.D. 1, Kaiapoi.

ZL3NX—Smith, W. C., 71 Glenroy Street, Woolston, Christchurch 6.

ZL3NY—Stapley, G. P., 73 Davis Crescent, Ashburton.

ZL3NZ—Fletcher, J., 187 Lincoln Road, Christchurch 2.

ZL3OA—MacDonald, B. A., 21 Moffitt Street, Brooklyn, Wellington 2.

ZL3OB—McCann, C. P., 26 Mount View Drive, Rotorua.

ZL3OC—Horne, R. C., 115 Blackett Street, Rangiora.

ZL3OD—Barnes, G. J., 9 Strack Place, Redwood, Christchurch 5.

ZL3OE—Richards, D. L., 38 Frankleigh Street, Christchurch 2.

ZL3OF—Milne, I. F., 137 Southampton Street, Christchurch 2.

ZL3OG—Sandford, C. J., 38 St. Albans Avenue Mt. Eden, Auckland 3.

ZL3OH—Knoef, F. J. C., 54 Harbour Road, Christchurch 9.

ZL3OI—

ZL3OJ—Digby, N. M., 93a Perry Street, Christchurch 5.

ZL3OK—**ZL3OL—**

ZL3OM—Ferrand, C., 14 Leverett Place, Christchurch 9.

ZL3ON—Nicholls, J. B., 3 Cliff Street, Christchurch 8.

ZL3OO—

ZL3OP—Prebble, N. W., 134 Waimairi Road, Christchurch 4.

ZL3OQ—Sorensen, E. A., 37 Hendon Street, St. Albans, Christchurch 1.

ZL3OR—Sewell, J. M., 120 Stanmore Road, Linwood, Christchurch 1.

ZL3OS—

ZL3OT—Bromley, R. N., 391 Sawyers Arms Road, Christchurch 5.

ZL3OU—Bellamore, A. H., 87 Radley Street, Christchurch 2.

ZL3OV—Scrivener, E. H., Flax Cottage, Main North Road, Waikuku.

ZL3OW—Coman, H. O., 24 Digby Place, Christchurch 6.

ZL3OX—

ZL3OY—Coull, G., 45 Seven Oaks Drive, Christchurch 5.

ZL3OZ—Burberry, R. L., 25 Percival Street, Beckenham, Christchurch 2.

ZL3PA—Jenner, D. J., Waitangi, Chatham Islands.

ZL3PB—Lobb, G. W., 64 Peel Street, Westport.

ZL3PC—Abernethy, J. L., 21 Murray Street, Rangiora.

ZL3PD—Pluck, R. L., Forbes Road, Tai Tapu.

ZL3PE—Carruthers, J. E., 80 Gilberthorpes Road, Hornby, Christchurch 4.

ZL3PF—Asher, A. S., 168 Maidstone Road, Christchurch 4.

ZL3PG—Thomson, G., 59 Grey Road, Timaru.

ZL3PH—Rowe, B., 250 Grahams Road, Burnside, Christchurch 5.

ZL3PI—Bartrum, B. R., 31b Bowenvale Avenue, Cashmere, Christchurch 2.

ZL3PJ—Grewar, M. A., 244 Hampden Street, Hokitika.

ZL3PK—Tapper, J. R., C/- 104 Mooray Avenue, Christchurch 5.

ZL3PL—Lobb, R. E. (Mrs), 64 Peel Street, Westport.

ZL3PM—McGee, P. D., 1 Craigieburn Street, Darfield.

ZL3PN—Boorer, G. F., 48a Newton Street, Timaru.

ZL3PO—Turner, D. K., 39 Dillons Point Road, Blenheim.

ZL3PP—Robinson, P. C., 140 Douglas Street, Timaru.

ZL3PQ—Were, D. A., 97 Campbell Road, Onehunga, Auckland 6.

ZL3PR—Petersen, C. M., 24 Derby Street, Westport.

ZL3PS—Davidson, F. W., 25 Sledmere Street, Bryndwr, Christchurch 5.

ZL3PT—Douglas, J. C. (Miss), "Giggleswick", Seymour Street, Millerton.

ZL3PU—Higgs, R. B., 51 Roker Street, Christchurch 2.

ZL3PV—Walker, W., Springston.

ZL3PW—Bevin, J. F., 25 Taylor Avenue, Christchurch 5.

ZL3PX—Chapman, G. A., 35 Harrison Street, Christchurch 1.

ZL3PY—

ZL3PZ—Jackson, W. B., 42 Churchill Street, Kaikoura.

ZL3QA—Prentice, A. E., 8b Peters Lane, Spreydon, Christchurch 2.

ZL3QB—McGlashan, D. C., 501b Ilam Road, Christchurch 5.

ZL3QC—Mullis, N. A., 104 Mooray Avenue, Christchurch 5.

ZL3QD—Arcus, A. C., 3 Manuka Street, Nelson.

ZL3QE—Browne, E. M. J., 9 Sarsfield Street, Southbridge.

ZL3QF—Cotton, M., 10 Hugh Street, Kaiapoi.

ZL3QG—Ross, G. L., 255 Cannon Hill Crescent, Christchurch 8.

ZL3QH—Stanton, K. A., 7 Ruthergien Avenue, P.O. Box 31-095, Christchurch 4.

ZL3QI—Wornall, C. J., 5 Menlo Terrace, St. Andrews Hill, Christchurch 8.

ZL3QJ—Havord, P. R., 16 Worsleys Road, Christchurch 2.

ZL3QK—Dawson, R., 41 Garlands Road, Christchurch 2.

ZL3QL—Carrell, T. D., 33 Ryeland Avenue, Christchurch 4.
 ZL3QM—Blackie, B. W., 27 West Belt, Rangiora.
 ZL3QN—Barber, F. E., 20 Lomax Place, Christchurch 4.
 ZL3QO—Allan, J. M., Pittville Street, North Loburn, R.D. 2 Rangiora.
 ZL3QP—Spence, R. D., 15a Kidson Terrace, Christchurch 2.
 ZL3QQ—Seed, T. J., 831 Cashmere Road, Halswell, Christchurch 3.
 ZL3QR—Gillman, G. H., 104 Rangiora Road, Woodend.
 ZL3QS—Sword, J. A. D. S., 395 Halswell Road, Christchurch 3.
 ZL3QT—Delis, J. B. G., 455a Johns Road, Harewood, Christchurch 5.
 ZL3QU—Borrell, R. P., 93 Chapter Street, Christchurch 5.
 ZL3QV—Smith, R. H., 76 Santa Maria Avenue, Christchurch 8.
 ZL3QW—
 ZL3QX—Mayo, G. J. L., 9 Westenra Terrace, Christchurch 2.
 ZL3QY—Belcher, E. W., 1 Hall Street, Cobden, Greymouth.
 ZL3QZ—Daniels, F. J. H., Ngakawau, via Westport.
 ZL3RA—Riach, C. D., 25 Buffon Street, Waltham, Christchurch 2.
 ZL3RB—Davis, A. W., Aylesbury, No. 1 R.D., Christchurch.
 ZL3RC—Signal, C. B., 4 Ranfurly Street, Timaru.
 ZL3RD—Davey, D. R., 44 Teesdale Street, Burnside, Christchurch 5.
 ZL3RE—Bott, R. A., 8 Blakiston Street, Christchurch 2.
 ZL3RF—Dickey, C. N., 20 Todd Avenue, Christchurch 5.
 ZL3RG—Jaeger, R. A., 400 Queens Drive, Lyall Bay, Wellington.
 ZL3RH—Pumpa, P. G., 2 Thornton Street, P.O. Box 57 Darfield.
 ZL3RI—Hughes, J. O., 82 Hall Street, Cobden, Greymouth.
 ZL3RJ—Hutton, B. G., 5 Rosamund Place, Christchurch 3.
 ZL3RK—McKenzie, T. J., 73 Cygnet Street, Christchurch 9.
 ZL3RL—Tunncliffe, D. N., 17 Panorama Road, Christchurch 8.
 ZL3RM—Lauder, B. C., 10 Seafeld Place, Christchurch 7.
 ZL3RN—Yeates, D. R., 69 St. Andrews Hill Road, Christchurch 8.
 ZL3RO—Walsh, G. J., 22 Grants Road, Gisborne.
 ZL3RP—Nobbs, R. L., 22 Shand Crescent, Christchurch 4.
 ZL3RQ—
 ZL3RR—North Canterbury Amateur Radio Club, (Trustee: R. C. Horne), Civil Defence HQ Building, Percival Street, Rangiora.
 ZL3RS—Campbell, D., 61 Hall Street, Cobden, Greymouth.
 ZL3RT—Rayner, L. A., 5 Redwood Place, Oxford, North Canterbury.
 ZL3RU—Bennett, R. G. T., 60 Kirkwood Avenue, Christchurch 4.
 ZL3RV—Rigg, I. K., 50 St. John Street, Christchurch 6.
 ZL3RW—MacKay, D. J., 22 Waipara Street, Christchurch 2.
 ZL3RX—South Westland Branch NZART Inc., (Trustee: G. R. B. Bowman), Police Station, Hokitika.
 ZL3RY—Clark, E. J., 5 Albert Terrace, Christchurch 2.
 ZL3RZ—King, S. P., 12 Nayland Street, Christchurch 8.
 ZL3SA—Gibbs, R. A., 11 Pandora Street, Christchurch 9.
 ZL3SB—Riordan, A. A. C., 95 Crofton Road, Harewood, Christchurch 5.
 ZL3SC—Shearman, G. D., 68 Proctor Street, Christchurch 5.
 ZL3SD—Powell, M. B., 229 Wairakei Road, Christchurch 5.
 ZL3SE—Harvey, M. A., 130 Wills Street, Ashburton.
 ZL3SF—Maloney, J. N., 31 Middlepark Road, Christchurch 4.

ZL3UD

ZL3SG—Harbeck, A. D., 28 Martbern Crescent, Christchurch 5.
 ZL3SH—Gourdie, W., 18 Anvers Place, Spreydon, Christchurch 2.
 ZL3SI—Little, G. W., 81A Banks Avenue, Christchurch 6.
 ZL3SJ—Fraser, G. J., 206 Major Hornbrook Road, Christchurch 8.
 ZL3SK—Patrick, T. L., 422 Innes Road, Christchurch 5.
 ZL3SL—Leeming, D. S., 92 Clyde Road, Christchurch 4.
 ZL3SM—Graham, B. N., 90 Churchill Street, Kaikoura.
 ZL3SN—Oldham, J. E., 40 Russell Street, Westport.
 ZL3SO—Kilkelly, J. W., Haselden Street, Westport.
 ZL3SP—
 ZL3SQ—Hadfield, A. I., 1/284 Manchester Street, Christchurch 1.
 ZL3SR—Webster, R. D., 10a Rarangi Road, St. Heliers, Auckland 5.
 ZL3SS—Langrish, T. F., 36 Bowenvale Avenue, Christchurch 2.
 ZL3ST—Williams, K. E., 2/31 Truro Street, Sumner, Christchurch 8.
 ZL3SU—Orchard, P. J., 15 Palmerston Street, Greymouth.
 ZL3SV—Watson, G. L., P.O. Box 262, Motueka.
 ZL3SW—Carter, D. R., Mt. Gay, Pleasant Point.
 ZL3SX—Silcock, F. N., 26 Sylvia Street, North Brighton, Christchurch 9.
 ZL3SY—Thomas, P. A., 270 Centaurus Road, Christchurch 2.
 ZL3SZ—Dalrymple, D. L., 65 Frankleigh Street, Christchurch 2.
 ZL3TA—Ritchie, M. V. H., 11 Hands Road, Hillmorton, Christchurch 2.
 ZL3TB—
 ZL3TC—Smith, T. M. (Mrs), North Road, Clinton.
 ZL3TD—Daly, P. P., 117 Emmett Street, Shirley, Christchurch 1.
 ZL3TE—Turner, J. N., 2/202a Main Road, Redcliffs, Christchurch 8.
 ZL3TF—Isles, P. R., 50 Woodville Street, Christchurch 1.
 ZL3TG—Copland, G. M., 11 Peel Street, Christchurch 5.
 ZL3TH—Gould, P. N., No. 10 R.D., Waimate.
 ZL3TI—Button, B. H., 86 Lake Terrace Road, Burwood, Christchurch 6.
 ZL3TJ—Currie, W. J., 31 Haselden Street, Westport.
 ZL3TK—Martin, D. F., 28 High Street, Greymouth.
 ZL3TL—Paterson, M. S., 120 Hastings Street, Christchurch 2.
 ZL3TM—Buchanan, W. A., 49 Peel Street, Geraldine.
 ZL3TN—Dowling, D. W., Fairview, R.D. 2, Timaru.
 ZL3TO—Harvey, S. J., F3/368 Brougham Street, Christchurch 2.
 ZL3TP—MacLean, A. G., 9 Horton Street, Pleasant Point.
 ZL3TQ—Agnew, G. A., 282 Waterloo Road, Hornby, Christchurch 4.
 ZL3TR—Haynes, J. C., 26 Roosevelt Avenue, Christchurch 1.
 ZL3TS—Smith, A. E., 23 Deloraine Street, Christchurch 2.
 ZL3TT—Symes, A. C. O., 5 Gilwell Street, Christchurch 6.
 ZL3TU—Sharnock M. A., 6 Ashby Place, Christchurch 5.
 ZL3TV—Ching, W. M., 108 Eton Street, Ashburton.
 ZL3TW—Riley, T. R., 19 Sullivan Avenue, Opawa, Christchurch 2.
 ZL3TX—Strong, W. S., 20e Hackthorne Road, Christchurch 2.
 ZL3TY—McQuarrie, R. J., 14 Weenink Road, Greymouth.
 ZL3TZ—Rio, N. N., C/- Chatham Islands Radio, Chatham Islands.
 ZL3UA—Mulholland, F. S. T., 4 Bramwell Street, Dallington, Christchurch 6.
 ZL3UB—Stevenson, H. H., 16 Wilsons Road, Christchurch 2.
 ZL3UC—Eden, G. G., 278b Memorial Avenue, Christchurch 5.
 ZL3UD—

ZL3UE

ZL3UE—Prattley, R. H., Ellesmere Road, R.D. 2, Christchurch.

ZL3UF—Prue, B. O., 111 Union Street, New Brighton, Christchurch 7.

ZL3UG—Lewis, G. H., 173 Palmers Road, Christchurch 9.

ZL3UH—Lewitt, T. W., 139 Grimseys Road, Christchurch 5.

ZL3UI—

ZL3UI—Gitsham B. L. (Mrs), C/- Regional Engineers Office, P.O. Box 1473, Christchurch.

ZL3UK—

ZL3UL—Smith, A. F., 39 Wesley Street, Kaiapoi.

ZL3UM—Boyes, G. S., 6 Marshall Street, Christchurch 2.

ZL3UN—Marshall, A. J., No. 7 R.D., Ashburton.

ZL3UO—Hutton, F. W. A., 17 Manhire Street, Spreydon, Christchurch 2.

ZL3UP—McNicholl, M. W., 32 English Street, Christchurch 4.

ZL3UQ—Black, A. W., 48 Checketts Avenue, Halswell, Christchurch 3.

ZL3UR—South Canterbury NZART Inc., (Trustee: S. Z. Moffatt), 32 Newton Street, Timaru.

ZL3US—Smith, P. G., 6 Cameron Street, Ashburton.

ZL3UT—Hartley, D., 23 Wellington Street, Linwood, Christchurch 1.

ZL3UU—Gordon, M., 3 Rydal Street, Christchurch 2.

ZL3UV—Coles, L. F., 232 Shortland Street, Christchurch 6.

ZL3UW—Conroy, H., 51 Bellbrook Crescent, Shirley, Christchurch 1.

ZL3UX—Vincent, L. L., Lismore, R.D. 5, Ashburton.

ZL3UY—Brown, A. G., 355 Pine Avenue, South Brighton, Christchurch 7.

ZL3UZ—McKenzie, C. D., 333 Wainoni Road, Christchurch 7.

ZL3VA—Williams, D. T., 13 Liggins Street, Christchurch 6.

ZL3VB—Winter, D., 8 Baretta Street, Christchurch 2.

ZL3VC—Walton, W. E., 74 Patten Street, Christchurch 6.

ZL3VD—

ZL3VE—No. 36 (ATC) Squadron Radio Club (Trustee: M. W. Duncan, Army Hall, Gresson Street, Greymouth).

ZL3VF—

ZL3VG—Burling Claridge, J. A., Motor Camp, Main South Road, Hokitika.

ZL3VH—Roosen, A. C. M., P.O. Box 80, 40 Forbes Road, Tai Tapu.

ZL3VI—Meihuish, B. J., 34 St Andrews Hill Road, Christchurch 8.

ZL3VJ—MacGeorge, A. A. G., 10 Manurewa Street, Christchurch 4.

ZL3VK—Lawrence, J. E., 25 Andrew Street, Timaru.

ZL3VL—Ellen, S. N., 65 Dunedin Street, Papanui North, Christchurch 5.

ZL3VM—

ZL3VN—Bradley, J. N., 169 Weston Road, Christchurch 5.

ZL3VO—Elder, J., 30 Maling Street, Christchurch 6.

ZL3VP—Bradshaw, G. J., 159 Ashgrove Terrace, Christchurch 2.

ZL3VQ—

ZL3VR—McMaster, A. S. (Mrs), Greens Road, R.D. 1, Kaiapoi.

ZL3VS—Uden, B. G., C/- 56 Whitcombe Street, Temuka.

ZL3VT—Vasta, A. I., 13 Kaka Road, South Bay, Kaikoura.

ZL3VU—Hayes, R. S., 7 Flannery Street, Leeston.

ZL3VV—Christchurch West Amateur Radio Club, Holmes Park Reserve, (Trustees: D. Borgfeldt and L. Hunter, 6 Barlow Street, Christchurch 4).

ZL3VW—Winskill, I. E., Caverhill, No. 1 R.D., Cheviot.

ZL3VX—Farry, R. I., 18 Sunvale Terrace, Christchurch 2.

ZL3VY—Dixon, A. P., 16 Kildare Terrace, Lincoln.

ZL3VZ—Paterson, A. J., 52 Cavendish Road, Christchurch 5.

ZL3WA—Howarth, R. J., 175 Fifield Terrace, Christchurch 2.

ZL3WB—Russell, J., 3 Hussar Place, Christchurch 2.

ZL3WC—Reeves, N. J., Carters Beach, R.D. 2, Westport.

ZL3WD—Gilbert, G. R., 3 Lyttelton Street, Lincoln.

ZL3WE—Longson, H. J. O., 21 Kinnaird Place, Spreydon, Christchurch 2.

ZL3WF—Wade, D. L., 8 Sabys Road, Halswell, Christchurch 3.

ZL3WG—Baird, J. F., 11 Aynsley Terrace, Christchurch 2.

ZL3WH—St. Andrews College Radio Club, (Trustees: F. W. A. Hutton and G. W. Little, Papanui Road, Christchurch 5).

ZL3WI—Wilkinson, J. F., 14 Hewlings Street, Christchurch 1.

ZL3WJ—Young, W. H., 74a Innes Road, Christchurch 5.

ZL3WK—Martin, E., (Mrs), 867 Ferry Road, Christchurch 2.

ZL3WL—O'Connell, G. E., 31 Murray Street, Greymouth.

ZL3WM—Oliver, J. A., Main Road, Tai Tapu.

ZL3WN—Askey, G., 106 North Avon Road, Christchurch 1.

ZL3WO—Welsh, L. D., 18 Woodlands Place, Christchurch 7.

ZL3WP—Reefton-Buller Branch NZART (Trustee: T. E. Wallis, 88 Wakefield Street, Westport).

ZL3WQ—Mackay, C. J., 34 Peel Street, Cobden, Greymouth.

ZL3WR—Martin, V. E., 867 Ferry Road, Christchurch 2.

ZL3WS—Tombling, F., 20 Derwent Street, Christchurch 5.

ZL3WT—Duncan, M. W., 37 Mountfort Street, Christchurch 2.

ZL3WU—Wright, A. F., 65 Ludstone Road, Kaikoura.

ZL3WV—Rigby, F., 54 Greenpark Street, Christchurch 2.

ZL3WW—Werry, B. W., 123 Dyers Pass Road, Christchurch 2.

ZL3WX—Smillie, B., 19 Greenfield Place, Christchurch 5.

ZL3WY—Yeates, J. M. (Mrs), 69 St. Andrews Hill Road, Christchurch 8.

ZL3WZ—

ZL3AAA—Garlick, R. A., 23 Lydia Street, Greymouth.

ZL3AAB—Garlick, Z. H. (Mrs), 23 Lydia Street, Greymouth.

ZL3AAC—Sneddon, J., 30 Hoterini Street, Ohope.

ZL3AAD—Alderson, G. E., 7 Priors Road, R.D. 1, Rangiora.

ZL3AAE—Millard, H. W., 41 Jeffreys Road, Christchurch 5.

ZL3AAF—Crichton, R. J. C., 98 Estuary Road, Christchurch 7.

ZL3AAG—Batterbury, C., C/- The Vicarage, Main Road, Mayfield.

ZL3AAH—O'Brien, W. M., 255 Estuary Road, Christchurch 7.

ZL3AAI—Grey, G. R., 89 Walters Road, Christchurch 5.

ZL3AAJ—Werner, S. H., 74 Seven Mile Road, Runanga.

ZL3AAK—Wathne, S. R., 487 Greens Road, Christchurch 5.

ZL3AAL—Vincent, R. K., 5 Miro Street, Karoro, Greymouth.

ZL3AAM—Matheson, M. D., 4 South Belt, Rangiora.

ZL3AAN—Colville, L. M., 115 Cameron Street, Ashburton.

ZL3AAO—Ballantyne, S. T., 9 Wilsons Road, St. Martins, Christchurch 2.

ZL3AAP—Ashburton Air Scout Group (Trustee: A. J. Marshall), Manio-o-roto Park, Chalmers Avenue, Ashburton.

ZL3AAQ—Banks, L. F., Buller Gorge, P.B. Westport.

ZL3AAR—Adams, P. H. L., 7 Alexander Terrace, Greymouth.

ZL3AAS—Silke, A. J., 9 Parker Street, Christchurch 4.

ZL3AAT—van Waelsden, F. H. A. M., 208 Grimseys Road, Christchurch 5.

ZL3AAU—Miller, J. G., 30 Fairford Street, Christchurch 5.

ZL3AAV—Hart, L. J. W., 61 Wakefield Street, Westport.

ZL3AAW—Swinton, A. D., Gainsborough Motor Lodge, 263 Bealey Avenue, Christchurch 1.

ZL3AAX—Clark, E. R., 5 Chedworth Avenue, Christchurch 5.
 ZL3AAY—Bowie, A. F. S., 10 Claremont Avenue, Christchurch 5.
 ZL3AAZ—Harris, G. P., 218 Lyttelton Street, Christchurch 2.
 ZL3ABA—Allan, S. L., 56 Para Street, Wellington.
 ZL3ABB—McKay, D. J., 55 Wingate Street, Christchurch 5.
 ZL3ABC—Hooker, R. O., 272 Wainoni Road, Christchurch 7.
 ZL3ABD—Hancock, C. W. I., 17 Mafeking Street, Christchurch 7.
 ZL3ABE—Roberts, B. D., 135 Russell Street, Westport.
 ZL3ABF—Webbink, J. H., 11 Wattle Drive, Christchurch 9.
 ZL3ABG—Winter, M. F., 19 Kaplan Avenue, Christchurch 4.
 ZL3ABH—Middlemiss, I. R., 427 Linwood Avenue, Christchurch 6.
 ZL3ABI—Hagley High School Radio Club, (Trustee: A. S. Asher), Hagley High School, Hagley Avenue, Christchurch 1.
 ZL3ABJ—Jensen, B. D., 21 Colwyn Street, Christchurch 5.
 ZL3ABK—Keen, H. A., 36 Lindsay Street, Timaru.
 ZL3ABL—Brookes, I. A., 34 Allnatt Street, Temuka.
 ZL3ABM—
 ZL3ABN—Lawry, D. W., Emerson Crescent, Church Bay, Banks Peninsula.
 ZL3ABO—
 ZL3ABP—Snushall, J. G., "Conway Hills", Private Bag, Kaikoura.
 ZL3ABQ—Bailey, K. W., 15 Webb Street, RNZAF Base, Woodbourne.
 ZL3ABR—
 ZL3ABS—Smith, G. B., 39 Roberta Drive, Christchurch 2.
 ZL3ABT—
 ZL3ABU—
 ZL3ABV—Jackson, P., McQueens Road, Cheviot.
 ZL3ABW—
 ZL3ABX—
 ZL3ABY—O'Sullivan, K. D., 16 Ashmore Avenue, Cobden, Greymouth.
 ZL3ABZ—
 ZL3ACA—ZL3 Canterbury 10-10 Chapter (Trustee: B. H. Mummery), 8 McIntyre Street, Christchurch 1.
 ZL3ACB—Mollison, G. W. P., 517 Russley Road, Christchurch 5.
 ZL3ACC—Chambers, C. H., 21 De Ville Place, Christchurch 6.
 ZL3ACD—Batchelor, G. W., 41 Kirkwood Avenue, Christchurch 4.
 ZL3ACE—Dodgshun, J. C., 10 Devonport Lane, Christchurch 1.
 ZL3ACF—Richardson, J. T., 3 Monowai Crescent, Christchurch 9.
 ZL3ACG—Heyward, K. W., 61 Niven Street, Christchurch 7.
 ZL3ACH—White, D. J., 7 R.D., Waimate.
 ZL3ACI—Shirley Boys' High School Radio Club, (Trustee: C. J. Wornall), North Parade, Christchurch 1.
 ZL3ACJ—Parker, T. L., 4 Margot Lane, Christchurch 8.
 ZL3ACK—Leeming, N. V., 17 Heaton Rhodes Place, Christchurch 2.
 ZL3ACL—Bidlake, R. P., 72a Canada Street, Timaru.
 ZL3ACM—Zampese, M. J. (Mrs), 26 Olwyn Terrace, Frankton, Hamilton.
 ZL3ACN—Honey, R. M., 167 Brittan Street, Hokitika.
 ZL3ACO—
 ZL3ACP—Van Slooten, F., 16 Greenhurst Street, Christchurch 4.
 ZL3ACQ—
 ZL3ACR—Chapman, A. R. B., 35 Proctor Street, Christchurch 5.
 ZL3ACS—Borgfeldt, C. D., 37 Blankney Street, Hornby, Christchurch 4.

ZL3AFL

ZL3ACT—Patten, G. J., 435 Lower Styx Road, Christchurch 9.
 ZL3ACU—McKay, B., 23 Palmside Street, Christchurch 2.
 ZL3ACV—Hickman, K. A., 5 Cotswold Avenue, Christchurch 5.
 ZL3ACW—Crawford, W. E. H., 29 Bounty Street, Christchurch 5.
 ZL3ACX—Robbins, K. F., 83 Springfield Road, Christchurch 1.
 ZL3ACY—
 ZL3ACZ—Ingram, R. T., 80 Romily Street, Westport.
 ZL3ADA—Bell, R. W., 32 Flower Street, Christchurch 5.
 ZL3ADB—Crase, G. E., 63 Wakefield Street, Westport.
 ZL3ADC—
 ZL3ADD—
 ZL3ADE—Ayre, G., RNZAF Station, Wigram, Christchurch 4.
 ZL3ADF—Hirtzel, J. E., 5/512 St. Asaph Street, Christchurch 1.
 ZL3ADG—Burnside High School Radio Club, (Trustee: G. J. Carlisle), Greers Road, Christchurch 5.
 ZL3ADI—Boote, R. J., 8 Hinton Road, Karoro, Greymouth.
 ZL3ADI—Ingram, A. W. W., 60 Nortons Road, Christchurch 4.
 ZL3ADJ—Jennings, L. W., 5 Ilex Place, Kaiapoi.
 ZL3ADK—Fitzgerald, K. P., 24 Mathers Road, Christchurch 2.
 ZL3ADL—Wise, R. A., 36 Springs Road, Sockburn, Christchurch 4.
 ZL3ADM—Fitzgerald, E. O., 8 Blossomdale Place, Bishopdale, Christchurch 5.
 ZL3ADN—Nicholson, R. S., 84 Kendal Avenue, Burnside, Christchurch 5.
 ZL3ADO—
 ZL3ADP—MacDonald, D. C., 14 Glassey Drive, P.O. Box 294, Ashburton.
 ZL3ADQ—Hamilton, J. C., 178 Halswell Junction Road, Christchurch 3.
 ZL3ADR—Pritchard, B. D., 14 Selwyn Street, Leeston.
 ZL3ADS—Squire, D. D., Waitohi, Temuka.
 ZL3ADT—Johnson, R. D., 189 Queensbury Street, Christchurch 6.
 ZL3ADU—Van der Knapp, H., 150 Tautahanga Road, Turangi.
 ZL3ADV—Phillips, R. W., 148 Brookside Terrace, Christchurch 5.
 ZL3ADW—Phillips, H. J. (Mrs), 148 Brookside Terrace, Christchurch 5.
 ZL3ADX—
 ZL3ADY—Cady, F. M., 52 Aorangi Road, Christchurch 5.
 ZL3ADZ—Wignall, T. J. S., 15 Plynlimon Road, Christchurch 5.
 ZL3AFA—Kelly, C. W. B., 34 Liverton Crescent, Christchurch 5.
 ZL3AFB—Stirling, K. W., 127 Trevors Road, Ashburton.
 ZL3AFC—Simpson, P. R., No. 3 R.D., Karamea.
 ZL3AFD—Haberecht, D. C., 272 Wainoni Road, Christchurch 7.
 ZL3AFE—Zampese, L., 26 Olwyn Terrace, Frankton, Hamilton.
 ZL3AFF—O'Brien, C. M., 255 Estuary Road, Christchurch 7.
 ZL3AFG—Wylys, W. G., C/-Dr T. J., Seed, 831 Cashmere Road, Halswell, Christchurch 3.
 ZL3AFH—Latham, W. I., 168 McKenzie Avenue, Christchurch.
 ZL3AFI—Hillmorton High School Radio Club, (Trustee: M. J. Prior), 18 Sundale Terrace, Christchurch 2.
 ZL3AFJ—Stone, W., 69 Mary Street, Papanui, Christchurch 5.
 ZL3AFK—Mason, J. L., 9 Greenwood Street, Christchurch 1.
 ZL3AFL—Chalk, J. A., 46 Osburne Street, Amberley.

ZL3AFM

ZL3AFM—

ZL3AFN—Griffiths, J. P., 105 Brougham Street, Westport.

ZL3AFO—Christensen, P. J., 37 Northcote Road, Papanui, Christchurch 5.

ZL3AFP—Smith, D. L., 53 Farquhars Road, Christchurch 5.

ZL3AFQ—Duxbury, I. N., 99 Maidstone Road, Christchurch 4.

ZL3AFR—

ZL3AFS—Pearcy, E. A., 239 Condell Avenue, Papanui, Christchurch 5.

ZL3AFT—Williamson, C. N., St. John of God Hospital, Nash Road, Halswell, Christchurch 2.

ZL3AFU—Lealand, A. N., 26 Marriner Street, Sumner, Christchurch 8.

ZL3AFV—Henden, J. R., 221 Innes Road, St. Albans, Christchurch 5.

ZL3AFW—Wilson, W. E., 232 Coast Road, Wainuiomata.

ZL3AFX—Morrin, M. E., 45 Wychbury Street, Christchurch 2.

ZL3AFY—Clements, R. J., 5 Northfield Road, Christchurch 5.

ZL3AFZ—Hall, C. L., 20 Sumner Street, Spreydon, Christchurch 2.

ZL3AGA—Bolland, N., 12 Brent Place, Christchurch 5.

ZL3AGB—Barrett, T., 47 Arnold Street, Sumner, Christchurch 8.

ZL3AGC—Perkins, C. M., C/- K. East, Greys Road, Amberley.

ZL3AGD—Holland, A. D., 5 Parkland News, 326 The Terrace, Wellington.

ZL3AGE—Holland, J. A. (Mrs), 5 Parkland News, 326 The Terrace, Wellington.

ZL3AGF—Blanchard, J. S., 82 Grey Road, Timaru.

ZL3AGG—Pope, G. C., 21 Beverley Hill, Timaru.

ZL3AGH—Banks, J., 418 Greers Road, Christchurch 5.

ZL3AGI—Leys, T., 46 Waratah Street, Christchurch 7.

ZL3AGJ—Whitlow, T. J., 45 Geddis Street, Rangiora.

ZL3AGK—Lucas, T. H., 8 Wilryan Avenue, Christchurch 9.

ZL3AGL—

ZL3AGM—Jackson, B. A., 42 Churchill Street, Kaikoura.

ZL3AGN—Vuleta, M. S., 19 Aviemore Street, Timaru.

ZL3AGO—McManus, T. C., Maungati, R.D. 2, Timaru.

ZL3AGP—Thomson, G. G., 10 Hanrahan Street, Christchurch 4.

ZL3AGO—Harris, D. W., 67 Ayers Street, Rangiora.

ZL3AGR—McAllister, C. R., 8 Lakewood Drive, Christchurch 6.

ZL3AGS—Murray, A. G., 92 Hackthorne Road, Cashmere, Christchurch 2.

ZL3AGT—Foster, I. M., Cronadun, R.D. 1, Reefton.

ZL3AGU—Dallimore, S. C., 26 Marybank Road, Atawhai, Nelson.

ZL3AGV—Sampson, D., 4 Islay Place, Christchurch 4.

ZL3AGW—Enright, M. T., 437 Barrington Street, Christchurch 2.

ZL3AGX—McCutcheon, R. B. W., 9 Gunns Crescent, Christchurch 1.

ZL3AGY—Moyle, J. R., 169 Riccarton Road, Christchurch 4.

ZL3AGZ—Allen, N. G., 26 Hennessy Place, Spreydon, Christchurch 2.

ZL3N . . .

ZL3TAA—Fletcher, J. N., 13 Snapper Road, Stillwater, R.D. 3, Silverdale.

ZL3TAB—Hyde, I. E., 4 Powell Crescent, Christchurch 4.

ZL3TAC—Collins, B. A., 21 Manor Place, Christchurch 5.

ZL3TAD—Cullen, L., 46 Wilton Crescent, Christchurch 5.

ZL3TAE—Clark, M. W., 114 Charles Street, Linwood, Christchurch 1.

ZL3TAF—Taege, B. S., 84 Racecourse Road, Christchurch 4.

ZL3TAG—Down, S. J., 219 Grahams Road, Christchurch 5.

ZL3TAH—Heese, B. J., 37 Woodlands Place, Christchurch 7.

ZL3TAI—Grandiek, J. N., 1 Outram Street, Napier.

ZL3TAJ—

ZL3TAK—Woods, A. K., 6 Waipara Street, Christchurch 2.

ZL3TAL—Harrison, K. B., 5 Kevin Street, Christchurch 2.

ZL3TAM—Mason, G. J., 6 Bideford Place, Christchurch 6.

ZL3TAN—Vanden Broek, C. P. A., 363 Greers Road, Christchurch 5.

ZL3TAO—MacPherson, I. W., 27 Dunbarton Street, Christchurch 5.

ZL3TAP—Van Schooten, L. A. A., 85 Kingsford Street, Christchurch 6.

ZL3TAQ—

ZL3TAR—Johnson, H. M., 102 Warrington Street, St Albans, Christchurch.

ZL3TAS—Ross, P. J., 4 Oakfield Street, Christchurch 5.

ZL3TAT—Baker, E. J. A., Murray Place, Lake Tekapo.

ZL3TAU—Butcher, P. W., 16 William Street, Lincoln.

ZL3TAV—Parr, W. B., 16a Wildberry Street, Christchurch 2.

ZL3TAW—

ZL3TAX—Churchward, M. J., 1/39c Middleton Road, Christchurch 4.

ZL3TAY—Ross, I. J., 35 Purau Avenue, Diamond Harbour, Lyttelton.

ZL3TAZ—Greer, R. B., 365 Armagh Street, Christchurch 1.

ZL3TBA—

ZL3TBB—Wormald, R. G., 247a Wairakei Road, Christchurch 5.

ZL3TBC—Grenfell, A. D., 61 Dunbars Road, Christchurch 3.

ZL3TBD—Symonds, A. C., 19 Stiles Place, Christchurch 6.

ZL3TBE—Pritchard, D. V., C/- 67 Beverley Road, Timaru.

ZL3TBF—

ZL3TBG—O'Neill, T. J., 89 Pages Road, Christchurch 6.

ZL3TBH—Osborne, R. R. W., C/- Camp David R.D. 3, Waipara.

ZL3TBI—

ZL3TBJ—Baird, K. A., 18 Grey Crescent, Kaiapoi.

ZL3TBK—Foster, I. M., Cronadun, R.D. 1, Reefton.

ZL3TBL—

ZL3TBM—

ZL3TBN—

ZL3TBO—Strachan, I. S., 41 New Brighton Road, Christchurch 6.

ZL3TBP—Evans, J. S., 11 Eros Place, Christchurch 9.

ZL3TBQ—Johnstone, D. E., 291 Burwood Road, Christchurch 9.

ZL3TBR—Black, D. R., 11 David Street, New Plymouth.

ZL3TBS—Johnson, J. G., Main Road, Pohara, R.D. 1, Takaka.

ZL3TBT—Lee, M. O., 260 Cashmere Road, Christchurch 3.

ZL3TBU—

ZL3TBV—Heazlewood, C. R., 4 Westmoreland Place, Christchurch 4.

ZL3TBW—Stevenson, N. H., 16 Kendal Grove, Wainuiomata.

ZL3TBX—Lilly, M. A., 600 Halswell Road, Christchurch 3.

ZL3TBY—Dowie, T. D. M., C/- 257 West Street, Ashburton.

ZL3TBZ—Smith, P. G., Maronan Road, No. 8 R.D., Ashburton.

ZL3TCA—Knewstubb, F. R., 219b Beach Road, Christchurch.

ZL3TCB—

ZL3TCC—Norris, T. P., 60 Peer Street, Christchurch 4.

ZL3TCD—Ireland, A. J., 76 Conway Street, Christchurch 2.

ZL3TCE—Cobb, P. B., 351 Lyttelton Street, Christchurch 2.
 ZL3TCF—Newton, G. R., 30 Tones Road, Papanui, Christchurch 5.
 ZL3TCG—Deans, J. M., Tara, Coalgate.
 ZL3TCH—Chapman, M. H., 23 Huntsbury Avenue, Christchurch 2.
 ZL3TCI—Lucas, P. K., Cape Foulwind Road, R.D. 2, Westport.
 ZL3TCJ—Collister, C. V., 14 English Street, Christchurch 4.
 ZL3TCK—Hayward, B. L., 2 Merito Place, Ohope, Wakatane.
 ZL3TCL—Averill, T. L. F., 99 Puriri Street, Christchurch 4.
 ZL3TCM—Ramsey, R. B., 31 Rollesby Street, Christchurch 2.
 ZL3TCN—
 ZL3TCO—Stein, M. S. D., 376 Manchester Street, St. Albans, Christchurch 1.
 ZL3TCP—Parish, I. J., 7 Shotover Street, Queenstown.
 ZL3TCQ—Jack, K. S., 45 Hornbrook Street, Temuka.
 ZL3TCR—
 ZL3TCS—Morris, N., 73 Grampian Road, Christchurch 5.
 ZL3TCT—McCaw, R. C., 6 Farndale Place, Christchurch 4.
 ZL3TCU—Duxbury, J. S., 51 Aorangi Road, Christchurch 5.
 ZL3TCV—Rumens, F. A., 51a Wainoni Road, Christchurch 6.
 ZL3TCW—Hickman, A. E., 5 Cotswold Avenue, Christchurch 5.
 ZL3TCX—
 ZL3TCY—Farrall, N. R., 12 Muir Avenue, Christchurch 3.
 ZL3TCZ—
 ZL3TDA—
 ZL3TDB—Milne, O. D., 12 Stanbury Avenue, Christchurch 2.
 ZL3TDC—Thomson, R. Y., 6 Princes Street, Temuka.
 ZL3TDD—Marks, J. W. J., 20 Dobson Street, Christchurch 2.
 ZL3TDE—Masters, R. L., 2 Hay Street, Oriental Bay, Wellington 1.
 ZL3TDF—Smith, B. A., "Charodale", Old West Coast Road, 1 R.D., Christchurch.
 ZL3TDG—Jenkins, R. M., 62c Rockingham Road, Christchurch 7.
 ZL3TDH—Clark, N. L., 37 Radbrook Street, Christchurch 4.
 ZL3TDI—Telfer, P. B., 39 Liverton Crescent, Christchurch 5.
 ZL3TDJ—Beazley, D. A., Punga Grove, Hans Bay, Lake Kaniere.
 ZL3TDK—Emmett, B. A., 446 Bower Avenue, Christchurch 9.
 ZL3TDL—
 ZL3TDM—Harding, J. M., 15 Elm Grove, Christchurch 1.
 ZL3TDN—Tait, J. J., 30 Hargood Street, Christchurch 6.
 ZL3TDO—Cottle, D. E., 31 Chester Street West, Christchurch 1.
 ZL3TDP—Parker, B. D., 18 Godley Street, Temuka.
 ZL3TDQ—Downey, E. J., 67 Tuckers Road, Christchurch 5.
 ZL3TDR—Smith, K. J., 17 Tyne Street, Timaru.
 ZL3TDS—Taylor, E. G., 335 Hills Road, Christchurch 1.
 ZL3TDT—Drury, B. D., 20 Ryeland Avenue, Fendalton, Christchurch 4.
 ZL3TDU—
 ZL3TDV—Wyles, G. L. M., 416 Memorial Avenue, Christchurch 5.
 ZL3TDW—Felgate, I. F., RNZAF Base, Hobsonville, Auckland.
 ZL3TDX—Woods, B. M., 2 Cresswell Avenue, Burwood, Christchurch 6.
 ZL3TDY—Cavill, J. P., 36 Outram Grove, Kelson, Lower Hutt.

ZL3TGV

ZL3TDZ—Dineen, R. T., 82 Greenpark Street, Christchurch 2.
 ZL3TFA—Hall, B. W., 27 John Street, Temuka.
 ZL3TFB—Boal, W. J., 32 Trafalgar Street, New Plymouth.
 ZL3TFC—
 ZL3TFD—Rhodes, D., Rapaki, P.O. Box 44, Lyttelton.
 ZL3TFE—
 ZL3TFF—Harris, G. T., 14 Ocean View Terrace, Sumner, Christchurch 8.
 ZL3TFG—MacKay, D. R., 56 Purchas Street, Christchurch 1.
 ZL3TFH—Hudson, R. F., 109 Shakespeare Street, Greymouth.
 ZL3TFI—Wright, B. A., 311 Riccarton Road, Christchurch 4.
 ZL3TFJ—Lundy, R. J., 47 White Street, Rangiora.
 ZL3TFK—Weir, R. G., 64a Selwyn Street, Christchurch 2.
 ZL3TFL—Wood, P. J., 48 Saunders Street, Dunedin.
 ZL3TFM—MacFarlane, M. J., Whatawhata Hill Country Research Station, Private Bag, Hamilton.
 ZL3TFN—Wood, K. L. B., 15 Ardmore Place, Christchurch 5.
 ZL3TFO—Parks, L. R., 158 Mairehau Road, Christchurch 9.
 ZL3TFP—Davies, B. K., 6 Manurewa Street, Christchurch 4.
 ZL3TFQ—Dawkes, R. L. Flat 2, 209 Queensbury Street, Christchurch 6.
 ZL3TFR—Smales, K. A., 18 Portfield Street, Macandrew Bay, Dunedin.
 ZL3TFS—Soal, D. F., 62 Nelson Street, Ashburton.
 ZL3TFT—Maunder, H. B., 23 Buchanans Road, Christchurch 4.
 ZL3TFU—Mathieson, H. M., 349 Main South Road, Hornby, Christchurch 4.
 ZL3TFV—Burke, J. P., 246 Main North Road, Redwood, Christchurch 5.
 ZL3TFW—Van Til, H. J., 32a Awamutu Grove, Lower Hutt.
 ZL3TFX—West, R. O., 73 Dunbars Road, Christchurch 3.
 ZL3TFY—Tizzard, R. W., 9 Cherry Place, Christchurch 5.
 ZL3TFZ—Wilson, D. W. T., Seafield, No. 7 R.D., Ashburton.
 ZL3TGA—Aitken, G. D., 38 Hooker Avenue, Bryndwr, Christchurch 5.
 ZL3TGB—Graham, J. C., 170 Hampshire Street, Christchurch 7.
 ZL3TGC—Looyer, T. A., 63 Halberg Street, Christchurch 6.
 ZL3TGD—Daigneault, P., 258 Edgeware Road, Christchurch 1.
 ZL3TGE—
 ZL3TGF—Rae, P. D., 5 Winters Road, Christchurch 5.
 ZL3TGG—Noble, P. J., 18 Pahi Place, West Harbour, Auckland 8.
 ZL3TGH—Bell, H. R., Upper Parsonage Road, Waimate.
 ZL3TGI—Lintott, N., 49 Jocelyn Street, Christchurch 5.
 ZL3TGJ—Cherry, W. D., 131 Rose Street, Somerfield, Christchurch 2.
 ZL3TGK—Brown, P. G., Acton Road, Rakaia.
 ZL3TGL—Van Lindt, R., 10 Silverdale Place, Christchurch 6.
 ZL3TGM—Flecknoe, G. A., 6 Kyeburn Place, Christchurch 4.
 ZL3TGN—
 ZL3TGO—
 ZL3TGP—Parkyn, P. R., 86 Rahera Street, Christchurch 2.
 ZL3TGQ—
 ZL3TGR—Timewell, I. D., 40 Victoria Street, Timaru.
 ZL3TGS—Mantell, G. N., 1 Logie Place, Christchurch 6.
 ZL3TGT—Buxton, A. W., 31a McBratneys Road, Christchurch 6.
 ZL3TGU—Bissland, D. J., 2 Highgate Avenue, Christchurch 1.
 ZL3TGV—Winslade, R. H., 15 Hunt Street, Timaru.

ZL3TGW

ZL3TGW—Hart, A. R. K., 11 Hampton Road,
Christchurch 5.

ZL3TGX—Henry, D. H., 34 Alexandra Street,
Christchurch 1.

ZL3TGY—

ZL3TGZ—Moyle, C. M., 169 Riccarton Road,
Christchurch 4.

ZL3THA—Heaton, J., 58 Fifth Street, Cobden, Greymouth.

ZL3THB—Cree, R. A., 18 Woolley Street, Christchurch 6.

ZL3THC—Holden, R. W., 454 Colombo Street,
Christchurch 2.

ZL3THD—Claydon, R. C., 45 Liverton Crescent,
Christchurch 5.

ZL3THE—Bartlett, K. E., Fairdown, R.D. 1, Westport.

ZL3THF—Higley, D. J., 171 Main Road, Amberley.

ZL3THG—Keeley, L. J., 23 Willis Street, Ashburton.

ZL3THH—Smith, G. R., 110 Pages Road, Christchurch 6.

ZL3THI—Hurrell, M. A., 1 Helmores Lane, Christchurch 1.

ZL3THJ—Philpott, J. W., 3 Argo Place, Christchurch 5.

ZL3THK—Errington, G. S., 39b Helmores Lane,
Christchurch 1.

ZL3THL—Hillary, D. N., 84 Isleworth Road,
Christchurch 5.

ZL3THM—Sandford, N. D., 45 Torrens Road, Hillmorton,
Christchurch 2.

ZL3THN—Price, G. D., 358 Breezes Road, Christchurch 7.

ZL3THO—

ZL3THP—Platt, R. G., Main South Road, Rolleston.

ZL3THQ—Corbett, R. K., 1 Dalton Place, Christchurch 5.

ZL3THR—

ZL3THS—Hopwood, P. R., 36a Clivedon Place,
Christchurch 5.

ZL3THT—

ZL3THU—McMaster, B. T. R., 72 Fleete Street,
Christchurch 6.

ZL3THV—Bennett, B. D., 319 King Street, Temuka.

ZL3THW—Dela Mare, D. G., 6 Taramea Street,
Christchurch 2.

ZL3THX—Ferriss, A. E., 50 Marriner Street,
Christchurch 8.

ZL3THY—Fearn, R. D., 27 Bledisloe Terrace, Hamilton.

ZL3THZ—Barron, A. D., 124 St. James Avenue,
Christchurch 5.

ZL3TIA—

ZL3TIB—Hely, M. O., 76 Santa Rosa Avenue,
Christchurch 3.

ZL3TIC—Foubister, M. A., 94 Hoon Hay Road,
Christchurch 2.

ZL3TID—Dyer, W. M., 25 Bronwyn Street, Christchurch 5.

ZL3TIE—

ZL3TIF—

ZL3TIG—McNeill, R. G., 78 McMaster Street, Invercargill.

ZL3TIH—Braas, B., 4 Wendover Street, Christchurch 5.

ZL3TII—Freeth, G. D., 25 Ngarimu Street, Christchurch 6.

ZL3TIJ—Wilde, R. C., Gladstone Street, Hawarden.

ZL3TIK—Rodgers, P. N., 29 Porter Street, Ashburton.

ZL3TIL—Errington, J. G., 39b Helmores Lane,
Christchurch 1.

ZL3TIM—

ZL3TIN—Saville, P. G., 2 Smartlea Street, Christchurch 2.

ZL3TIO—Stewart, P. G. C., 76 Patten Street,
Christchurch 6.

ZL3TIP—

ZL3TIQ—McCorkindale, D. R., 52 Canada Street, Timaru.

ZL3TIR—Williams, P. S., 24 Newnham Terrace,
Christchurch 4.

ZL3TIS—Donnelly, E. J., 249 Bower Avenue,
Christchurch 9.

ZL3TIT—

ZL3TIU—

ZL3TIV—

ZL3TIW—Armstrong, E. W., 15 London Street, Weston.

ZL3TIX—Stevens, J. B., 410 Wairakei Road,
Christchurch 5.

ZL3TIY—Fyffe, N. B. H., 31a McBratneys Road,
Christchurch 6.

ZL3TIZ—Dixon, B. J., 81 Shakespeare Street, Greymouth.

ZL3TJA—

ZL3TJB—Johnstone, P., 419 Cashmere Road,
Christchurch 3.

ZL3TJC—

ZL3TJD—Wilson, P. J., 58 Harrow Street, Christchurch 1.

ZL3TJE—

ZL3TJF—

ZL3TJG—Robinson, S. R., P.O. Box 252, Nelson.

ZL3TJH—Robinson, P. J., 20 Leonie Place,
Christchurch 7.

ZL3TJI—

ZL3TJJ—Ward, A. J., 99 Panorama Road, Christchurch 8.

ZL3TJK—Price, J. G., 31 Rhodes Street, Timaru.

ZL3TJL—Lye, R. D., 7 Cromer Place, Christchurch 7.

ZL3TJM—Dillon, G. A., 5a Cameron Street,
Christchurch 2.

ZL3TJN—

ZL3TJO—Sutherland, J. G., 12 Jocelyn Street,
Christchurch 5.

ZL3TJP—Walker, R. W., C/- 56a Burwood Road,
Christchurch 9.

ZL3TJQ—

ZL3TJR—Carter, R. S., 34 Cameron Street, Ashburton.

ZL3TJS—Whitfield, B. W., 101 Soleares Avenue, Mt.
Pleasant, Christchurch 8.

ZL3TJT—Nicol, J. R., 10 Lochee Street, Christchurch 4.

ZL3TJU—McConnell, M. M., 90 Springfield Road,
Christchurch 1.

ZL3TJV—Osborne, K. W., 67 MacDonald Street, Timaru.

ZL3TJW—Pollard, J. P. W., 363 Hills Road,
Christchurch 1.

ZL3TJX—Laughton, T. J., 43 Rowley Avenue, Hoon Hay,
Christchurch 2.

ZL3TJY—Allan, S. E. (Mrs), Pittville Street, North Loburn,
R.D. 2, Rangiora.

ZL3TJZ—McKim, J. L., 17 Wattle Drive, Christchurch 9.

ZL3TKA—Gumbrell, C. B., 31 Parkinson Avenue,
Christchurch.

ZL3TKB—

ZL3TKC—

ZL3TKD—Godfrey, C. Y., R.D. 2, Kaikoura.

ZL3TKE—Vallance, D. J., 39 Vancouver Crescent,
Wainoni, Christchurch.

ZL3TKF—Greentree, P. C., 31 Rata Street, Christchurch 4.

ZL3TKG—

ZL3TKH—MacRae, G. A., 434 Harewood Road,
Christchurch 5.

ZL3TKI—Empson, T. M., 53 McKenzie Avenue,
Christchurch 2.

ZL3TKJ—

ZL3TKK—Chapman, A. F., 17 Baker Street, Ashburton.

ZL3TKL—O'Callaghan, D. P., 353 Hills Road,
Christchurch 1.

ZL3TKM—Cox, A. R., 54 Hawkesbury Avenue, St. Albans,
Christchurch 1.

ZL3TKN—Hill, J. R., 253 Avonhead Road, Christchurch 4.

ZL3TKO—Jaynes, V., 9 Walsh Street, Hamilton.

ZL3TKP—Gardiner, I. D., 197 Weston Road,
Christchurch 5.

ZL3TKQ—

ZL3TKR—Dwyer, D. S., 15 Cygnet Street, Christchurch 9.

ZL3TKS—Thomas, A. J., 327 Armagh Street,
Christchurch 1.

ZL3TKT—Grant, L. J., C/- Mrs J. Stackhouse, 16 Clayton
Road, Amberley.

ZL3TKU—Barr, R., 542 Halswell Road, Christchurch 3.

ZL3TKV—Lang, A. N., 62 Rahera Street, Christchurch 2.

ZL3TKW—Williamson, I. S., C/- 14 Ebbing Place,
Christchurch 5.

ZL3TKX—Patterson, H. W., 33 Leinster Terrace, Lincoln.

ZL3TKY—Goodwin, P. G., 92 Edward Avenue,
Christchurch 1.

- ZL3TKZ—Creek, A. R., 88 Randolph Street, Christchurch 6.
 ZL3TLA—Reed, B. S., 16 Mackenzie Avenue, Opawa, Christchurch 2.
 ZL3TLB—Crawford, C. R., 81 Balrudry Street, Christchurch 4.
 ZL3TLC—
 ZL3TLD—
 ZL3TLE—Weir, D. R. (Mrs), 64a Selwyn Street, Christchurch 2.
 ZL3TLF—
 ZL3TLG—Steffensen, K. A., 190 Rutland Street, Christchurch 5.
 ZL3TLH—
 ZL3TLI—Rowe, B. C. T., 40 Harris Street, Waimate.
 ZL3TLJ—McConnell, D. A., 84 Gardiners Road, Christchurch 5.
 ZL3TLK—Trethowen, I. S., Glenmark Drive, Waipara, North Canterbury.
 ZL3TLL—Kerr, B. A., Pohara, RD 1, Takaka.
 ZL3TLM—Mills, M. D., 75a Arthur Street, Blenheim.
 ZL3TLN—
 ZL3TLO—McCombs, J. D., 8 Freeman Street, Christchurch 8.
 ZL3TLP—Hughes, T. R. J., 32 Grampian Street, Christchurch 5.
 ZL3TLQ—Harrall, E. D., 90 Gayhurst Road, Dallington, Christchurch 6.
 ZL3TLR—Lee, P. B., 23a Salford Avenue, Christchurch 5.
 ZL3TLS—Serra, K. C., 46 Trent Street, Avonside, Christchurch 1.
 ZL3TLT—James, K. D., 46 Lydia Street, Greymouth.
 ZL3TLU—Chapman, R. C., 30 Picton Avenue, Christchurch 1.
 ZL3TLV—Chapman, B. R. (Mrs), 30 Picton Avenue, Christchurch 1.
 ZL3TLW—Perry, S. J., 255 Hoon Hay Road, Christchurch 2.
 ZL3TLX—Vickers, L. W., 17 Walkers Road, Lyttelton.
 ZL3TLY—Beckett, M. C., 2 Pages Road, Lyttelton.
 ZL3TLZ—Harrison, M. C., 3 Veitch Road, Christchurch 5.
 ZL3TMA—Hull, P. F., 585 Devon Street East, New Plymouth.
 ZL3TMB—
 ZL3TMC—McGregor, W. L., Flat 2, 11 Gibbon Street, Christchurch 2.
 ZL3TMD—
 ZL3TME—Boyd, R. V., 404 Cashmere Road, Christchurch 3.
 ZL3TMF—Wilson, J. O., 9 Merton Street, Hobsonville, Auckland.
 ZL3TMG—
 ZL3TMH—Hutchison, B., 15 Tabart Street, Christchurch 2.
 ZL3TMI—Kerdelmelidis, C., 33 Kingham Place, Christchurch.
 ZL3TMJ—Hughes, R. E., 158 Jollie Street, Hokitika.
 ZL3TMK—Officer, B. C., P.O. Box 1650, Dunedin.
 ZL3TML—Mallon, G. F., 5 Chelsea Street, Christchurch 5.
 ZL3TMM—
 ZL3TMN—
 ZL3TMO—
 ZL3TMP—
 ZL3TMQ—Pot, M. J., 5 Racecourse Road, Ashburton.
 ZL3TMR—
 ZL3TMS—
 ZL3TMT—Yee, C. Y., 2 Papanui Road, Christchurch 1.
 ZL3TMU—
 ZL3TMV—Nicholls, P. J., 33 Seven Mile Road, Runanga.
 ZL3TMW—
 ZL3TMX—Lovell, J. D., 41 Yardley Street, Avonhead, Christchurch 4.
 ZL3TMY—Payne, D. W., 204 Rutland Street, Christchurch 5.
 ZL3TMZ—Dale, A. J. E., 30 Cuffs Road, Christchurch 6.
 ZL3TNA—
 ZL3TNB—Phillips, J. S., Flat 1, 64 Packe Street, Christchurch 1.
 ZL3TNC—Parker, M. J., 99 Gardiners Road, Christchurch 5.
 ZL3TND—Taylor, M. L., 21 Newmark Street, Christchurch 5.
 ZL3TNE—Egan, P. D., 664 George Street, Dunedin.
 ZL3TNF—Cooper, K. J., 3 Wherstead Road, Christchurch 2.
 ZL3TNG—Hulston, G. F., 15 Roker Street, Christchurch 2.
 ZL3TNH—Drowley, C. A., 9 Whitby Place, Kaikoura.
 ZL3TNI—Sinclair, L. C., 28 Palmside Street, Christchurch 2.
 ZL3TNJ—
 ZL3TNK—von Biel, H. A., 15 Leinster Road, Christchurch 1.
 ZL3TNL—Maunseil, P. B., 4 Ashcroft Place, Christchurch 5.
 ZL3TNM—
 ZL3TNN—Searle, G. G., C/- Post Office, Hokitika.
 ZL3TNO—Pearce, S. J., 21 Glenmore Avenue, Christchurch 5.
 ZL3TNP—Cook, C. A., 188 Beach Road, Christchurch 9.
 ZL3TNQ—Riordan, G. B., 25a Taylors Avenue, Christchurch 5.
 ZL3TNR—Freeman, L. P., 11 Cyanet Street, Christchurch 9.
 ZL3TNS—Clay, P. D., 18 Bateups Road, Richmond, Nelson.
 ZL3TNT—Withers, N. C., 57 Bristol Street, Christchurch 1.
 ZL3TNU—Grueber, P. R., 23 Fairford Street, Christchurch 5.
 ZL3TNV—King, J. H., 69 Withells Road, Avonhead, Christchurch 4.
 ZL3TNW—McRobie, W. D., 47 Maltby Avenue, Timaru.
 ZL3TNX—Allison, H. C. F., 31 Naseby Street, Christchurch 1.
 ZL3TNY—
 ZL3TNZ—Gillick, K. J., 119a Prestons Road, Christchurch 5.
 ZL3TOA—Gowers, R. J., 5 Longly Place, Riccarton, Christchurch 2.
 ZL3TOB—
 ZL3TOC—Marshall, R. W., 19 Fraser Crescent, Twizel.
 ZL3TOD—Robertson, C., 15 Wittys Road, Avonhead, Christchurch 4.
 ZL3TOE—Steel, P. J., 57 Woolley Street, Christchurch 7.
 ZL3TOF—Warren, P. A., 4/57 Sherborne Street, Christchurch 1.
 ZL3TOG—Smith, R. J., 30 Aurora Street, Christchurch 4.
 ZL3TOH—Fordyce, A. A., 35 Juniper Street, Christchurch 5.
 ZL3TOI—King, A. F., The Chalets, Barry Street, P.O. Box 129, Cromwell.
 ZL3TOJ—Mayers, D. R., Loburn, R.D. 2, Rangiora.
 ZL3TOK—Prier, N. G., 39 Camden Street, Christchurch 5.
 ZL3TOL—
 ZL3TOM—
 ZL3TON—Homewood, B. S. D., 69a Aorangi Road, Christchurch 5.
 ZL3TOO—
 ZL3TOP—Back, C. R., Wellington Street, Christchurch 1.
 ZL3TOQ—
 ZL3TOR—Turnbull, J. W. M., 304 Cannon Hill Crescent, Christchurch 8.
 ZL3TOS—
 ZL3TOT—Cross, M. J.,
 ZL3TOU—
 ZL3TOV—
 ZL3TOW—Smith, M. G., 327 Waimairi Road, Christchurch 5.
 ZL3TOX—Wilson, D. A., 189 Ashburton-Rakaia Gorge Road, Methven.

ZL3TOY

ZL3TOY—Britnell, C. B., 7 Impala Place, Christchurch 4.
ZL3TOZ—Hurst, D. W., 12 Orr Street, Ashburton.
ZL3TPA—Elliott, R. W., 32 Clifford Avenue, Fendalton, Christchurch 1.
ZL3TPB—
ZL3TPC—Payne, A. T., 9 Factory Road, Bellfast, Christchurch 5.
ZL3TPD—Cornish, B. J., 5 Birchdale Place, Christchurch 3.
ZL3TPE—
ZL3TPF—Trumper, M. A., 15 Peraki Street, Kaiapoi.
ZL3TPG—Gordon, I. N., 10 Murdoch Street, Christchurch 5.
ZL3TPH—Grey R. W., 33 Gilby Street, Linwood, Christchurch 1.
ZL3TPI—Parry, D. G., 18 Sunvale Terrace, Cashmere, Christchurch 2.
ZL3TPJ—Van Roy, H. P. A., 453 Mairehau Road, Christchurch 9.
ZL3TPK—Roberts, B. M., 135 Russell Street, Westport.
ZL3TPL—Davidson, A. H., 143 Eastern Terrace, Christchurch 2.
ZL3TPM—
ZL3TPN—
ZL3TPO—
ZL3TPP—
ZL3TPQ—
ZL3TPR—Coyle, C. J., 159 Ashmore Street, Halfway Bush, Dunedin.
ZL3TPS—Moyle, J. R., 19 Marley View Street, Christchurch 2.
ZL3TPT—Thompson, B. N., 18 Gunns Crescent, Christchurch 2.
ZL3TPU—Jackson, W. G., 117 Fisher Parade, Pakuranga, Auckland.
ZL3TPV—Davy, K. T., 17 Hatton Street, Timaru.
ZL3TPW—
ZL3TPX—
ZL3TPY—Fotheringham, J. P., 260 Waterloo Road, Lower Hutt.
ZL3TPZ—Campbell, G. J., 23 O'Briens Road, Sockburn, Christchurch 4.
ZL3TQA—
ZL3TQB—English, K. A., 9 Roberts Road, Christchurch 4.
ZL3TQC—Graham, J. N., 90 Churchill Street, Kaikoura.
ZL3TQD—Roxburgh, J. G., 13 Pound Road, Leeston.
ZL3TQE—Aitchison, M. S., 61 Longfellow Street, Christchurch 2.
ZL3TQF—
ZL3TQG—
ZL3TQH—Wiltshire, R., 21 Pascoe Avenue, Christchurch 1.
ZL3TQI—Beveridge, G. W., 9 Macaulay Place, Twizel.
ZL3TQJ—Morrison, L. I., 39 Simon Street, Twizel.
ZL3TQK—Whitfield, S. J. N., 48 Hawthornden Road, Christchurch 4.
ZL3TQL—Burling Claridge, G. R., C/- Motor Camp, Hokitika.
ZL3TQM—Steele, T. M., 3/100, Martin Street, Upper Hutt.
ZL3TQN—Strachan, J. W., 13 Rimu Street, Timaru.
ZL3TQO—Gardiner, P. K., 237 Greers Road, Christchurch 5.
ZL3TQP—
ZL3TQO—Allan, L. R., 45 Pine Avenue, Christchurch 7.
ZL3TQR—Judkins, W. D., 12 Buchanans Road, Christchurch 4.
ZL3TQS—Fazackerley, J. I., 3/82 Linwood Avenue, Christchurch 1.
ZL3TQT—Batchelor, G. W., 41 Kirkwood Avenue, Christchurch 4.
ZL3TQU—Westhead, K. M., 387 Pine Avenue, Christchurch 7.
ZL3TQV—Pringle, J. R., 335 Waimairi Road, Christchurch 4.

ZL3TOW—Novotny, V. G., 69 Gregan Crescent, Christchurch 5.

ZL3TOX—Statter, S. E., 7 Oakfield Street, Christchurch 5.
ZL3TOY—Francis, C. G., 6 Pratt Street, Christchurch 9.
ZL3TOZ—Williams, N. D., 16 Vancouver Crescent, Christchurch 6.

ZL3TRA
ZL3TRB
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ZL3TRX
ZL3TRY
ZL3TRZ

Amendments

ZL4 Callsign Listings

- ZL4AA—Bell, F. D., Private Bag, Shag Valley Station, Palmerston.
- ZL4AB—Gray, H. A., 102 Brownston Street, Wanaka.
- ZL4AC—
- ZL4AC—Bradwin, C. C., "Popotunoa", R.D. 1, Clinton.
- ZL4AE—
- ZL4AF—Falconer, A. E., Whiterig, No. 1 R.D., Gore, P.O. Box 214.
- ZL4AG—Boshier, R. F., 30 Ayton Drive, Glenfield, Auckland 10.
- ZL4AH—Sansom, W. R., 17 Renfrew Street, Dunedin.
- ZL4AI—Shore, K. H., 1 Upland Street, Dunedin.
- ZL4AJ—Agnew, A. C., 105 Cavell Street, Dunedin.
- ZL4AK—Dowman, W. F., 99 Ain Street, Oamaru.
- ZL4AL—Eastern Southland Branch NZART Inc., (Trustee: A. N. Allan), R.D. 4, Charlton, Gore.
- ZL4AM—Earland, F. P., 88 Main South Road, Burnside, Green Island, Dunedin.
- ZL4AN—Tunncliffe, W. M., 32 Holyhead Road, Outram.
- ZL4AO—Allan, A. N., Charlton, No. 4 R.D., Gore.
- ZL4AP—Smith, R. C., Pine Bush, No. 5 R.D., Invercargill.
- ZL4AQ—Whyte, R. A., 7 Charles Street, Gore.
- ZL4AR—Cole, R. S., 46 Walton Park Avenue, Fairfield, Dunedin.
- ZL4AS—Gray, L. C., 16 Lincoln Terrace, Balclutha.
- ZL4AT—Treweek, C. A. (Mrs), 9 Layard Street, Invercargill.
- ZL4AU—Ernst, R. W., Awarua Radio, Invercargill.
- ZL4AV—Pickford, L. C., Taiapa Road, R.D. 9, Invercargill.
- ZL4AW—Pickford, W. J., Black Road, 9 R.D., P.O. Box 491, Invercargill.
- ZL4AX—Sandford, H. D., 37 Martin Road, Fairfield, Dunedin.
- ZL4AY—McLeod, J. H., 284 Talbot Street, Invercargill.
- ZL4AZ—Sidey, T. K. S., 16 Tolcarne Avenue, Dunedin.
- ZL4BA—Jones, G. L., 8 Yare Lane, Balclutha.
- ZL4BB—Brookes, R. G., 319 Tramway Road, Invercargill.
- ZL4BC—Ferris, J. L., Manuherikia Road, Alexandra.
- ZL4BD—Helean, F. P., 3 Passmore Crescent, Maori Hill, Dunedin.
- ZL4BE—Whiteley, F., 31 Maybank Street, Opoho, Dunedin.
- ZL4BF—Smith, L. K., 1a Wycherley Drive, Bucklands Beach, Auckland.
- ZL4BG—Mitchell, J. R., 49 McKerrow Street, Dunedin.
- ZL4BH—East Otago High School Radio Club, (Trustee: M. G. Askin), P.O. Box 58, Palmerston, Otago.
- ZL4BI—Caldwell, J., Seaward Road, Edendale, Invercargill.
- ZL4BJ—Wickens, J. R., 9 Fleet Street, Masterton.
- ZL4BK—McDonald, N. M., 16 Howard Street, Macandrew Bay, Dunedin.
- ZL4BL—Millar, T. E., 17a Normanby Street, St. Kilda, Dunedin.
- ZL4BM—Ashley, F. O., Rata Road, Otatara RD 9, Invercargill.
- ZL4BN—Collett, D. K., 27 Devon Street, Otatara.
- ZL4BO—Jackson, V. R., Milton Park, R.D. 1, Invercargill.
- ZL4BP—Collett, W. G., 35 Wharfedale Street, Macandrew Bay, Dunedin.
- ZL4BQ—Brown, A. R., Wainakura Road, Kakanui, Oamaru.
- ZL4BR—Thompson, H. G., 47 Forth Street, Maitua.
- ZL4BS—
- ZL4BT—McKenzie, J. D., 268 Wai-iti Road, Timaru.
- ZL4BU—Stephens, R. D., 34 Kildare Street, Invercargill.
- ZL4BV—McConnell, J. R., 73 Banks Street, Invercargill.
- ZL4BW—Williamson, B. C., Horrace Street, Cromwell.
- ZL4BX—Anderson, J. L., 64 Main Road, Brighton, Dunedin.
- ZL4BY—Jenner, M. G., 40 Murano Street, Dunedin.
- ZL4BZ—Eve, G. R., C/- Tauraroa Area School, R.D. 8, Whangarei.
- ZL4CA—Williamson, A. E., Leicester Street, Hampden.
- ZL4CB—English, O. C., 82 Isleworth Road, Christchurch 5.
- ZL4CC—Checketts, C. V. (Mrs), 21 Highfield Terrace, Invercargill.
- ZL4CD—Dimmock, C., 92 Exmouth Street, Invercargill.
- ZL4CE—Searle, J. H., 71 Connors Street, Invercargill.
- ZL4CF—McLaren, A. D., 16 Melbourne Street, South Dunedin.
- ZL4CG—Bathurst, C. F., Mokotua, R.D. 7, Invercargill.
- ZL4CH—Spry, W. D., 19 Strathern Avenue, Avonhead, Christchurch 4.
- ZL4CI—
- ZL4CJ—Angell, J. C., 24 Douglas Street, P.O. Box 161, Wakatipu, Queenstown.
- ZL4CK—Wark, A. J., 1 Sutcliffe Street, Dunedin.
- ZL4CL—Cameron, M. E. (Mrs), 46 Cargill Street, Dunedin.
- ZL4CM—Martin, A. J. T., 8 Lark Street, Oamaru.
- ZL4CN—Peterson, A., McN., 26 Aotea Street, Dunedin Et.
- ZL4CO—Thomas, R. E., Avon Street, P.O. Box 23, Athol, Southland.
- ZL4CP—Shea, A. E., 23 Kaka Road, St. Leonards, Dunedin.
- ZL4CQ—
- ZL4CR—Middleton, C. E., 36 Green Street, Mosgiel.
- ZL4CS—Finlay, C. S., 5/2 Will Street, Green Island, Dunedin.
- ZL4CT—Southland Boys High School Radio Club, (Trustee: R. W. Evans), Herbert Street, Invercargill.
- ZL4CU—Dudley, G. J., Pomona Road, R.D. 11, Invercargill.
- ZL4CV—McKenzie, J., 234 George Street, Invercargill.
- ZL4CW—Barker, W. G., 30 Kowhai Avenue, Invercargill.
- ZL4CX—Warburton, N. O. (Mrs), 75a Shetland Street, Dunedin.
- ZL4CY—McNeill, T. J., 39 Eton Street, Otatara.
- ZL4CZ—Brain, E. R., 38 Cranley Street, Dunedin.
- ZL4DA—Harman, I. A., 49 Alexander Street, Abbotsford, Green Island.
- ZL4DB—Cahill, E., Earnsclough Road, Alexandra.
- ZL4DC—Cambridge, D. A. H., R.D. 1, Cromwell.
- ZL4DD—Anderson, R. A., 39 Glendinning Avenue, Dunedin.
- ZL4DE—Magon, T. E., C/- Awarua Radio, Private Bag, Invercargill.
- ZL4DF—
- ZL4DG—Wolf, W. G. W., 1 Freyberg Road, Fairfield, Dunedin.
- ZL4DH—Hope, D. F., 48 Prince Street, Winton.
- ZL4DI—Bain, C. R., 24 McKerrow Street, Waverley, Dunedin.
- ZL4DJ—Baird, R. A., Dunstan Road, 2 R.D., Alexandra.
- ZL4DK—
- ZL4DL—Leslie, A. J., 8 Stanley Street, Mornington Dunedin W1.
- ZL4DM—Crockett, W. M., Glenpark, Dunback Road, Palmerston.
- ZL4DN—Sharp, J. R., 41 Greenhill Avenue, Wakari, Dunedin.
- ZL4DO—Sutton, R. J., Woodhill Forest, R.D. 3, Waimauku.
- ZL4DP—Ewens, W. S., 215 Broughton Street, Gore.
- ZL4DQ—Maslen, I. A., 62 Chambers Street, Dunedin.
- ZL4DR—Irving, J. T., 28 King Street, Mosgiel.
- ZL4DS—Carr, D. W., 46 Saunders Street, Dunedin.
- ZL4DT—Pregdy, S. G., 105 Glenross St., Dunedin.
- ZL4DU—Stiglish, C. A., 58 Argyle Street, Mornington, Dunedin.
- ZL4DV—Richards, P. D., Waipori Falls, Otago.
- ZL4DW—Babington, A. M., 162 Pomona Street, Invercargill.
- ZL4DX—Anstice, S. R., 293 York Place, Dunedin.
- ZL4DY—Daniel, E. H., 29 Dairy Street, Mornington, Dunedin.

ZL4DZ

ZL4DZ—Willetts, N. E., 23 Yarmouth Street, Balclutha.

ZL4FA—

ZL4FB—Boulton, J. R., 26 Leltrum Street, Cromwell.

ZL4FC—Dominey, R. J., Residence 5, Awarua Radio.

ZL4FD—Hedge, H. G., 86 Nichol Street, Lake Hawea.

ZL4FE—McConnachie, M. J., 3 Lakeside Drive, Lake Waitaki.

ZL4FF—

ZL4FG—Russell, W. J., 255 Yarrow Street, Invercargill.

ZL4FH—Hall, J. N., 8 Watkin Street, Pine Hill, Dunedin.

ZL4FI—Askin, M. G., Moeraki, R.D. 2, Palmerston, Otago.

ZL4FJ—Austin, F. J., 8 Dunblane Street, Dunedin.

ZL4FK—Fisher, K. G., 192 Rutland Street, Christchurch 5.

ZL4FL—Farquharson, D. A., Signal Hill, Dunedin.

ZL4FM—Ramsay, K., 79 Banks Street, Invercargill.

ZL4FN—Egan, M. A. (Mrs), 181 Helensburgh Road, Dunedin.

ZL4FO—Gorman, F. J., 8 Scutari Street, Wyndham.

ZL4FP—McLeod, R. J., 134 Bay View Road, Dunedin.

ZL4FQ—Ballantyne, R. E., 125 London Street, Dunedin.

ZL4FR—Jeromson, W. J., 196 Highcliff Road, Dunedin.

ZL4FS—Faulkner, D. N., C/- Awarua Radio Station, Invercargill.

ZL4FT—Mitchell, G. L., 42 District Road, Sawyers Bay, Dunedin.

ZL4FU—

ZL4FV—Willoughby, J. R., 136 Elizabeth Street, Invercargill.

ZL4FW—Watson, P. J., Curio Bay, No. 1 R.D., Tokanui, Invercargill.

ZL4FX—O'Reilly, P. R., 60 Surrey Street, Dunedin.

ZL4FY—Dunlop, R. M., 82 Catherine Street, Invercargill.

ZL4FZ—Smart, R. G., 99 Joy Street, Christchurch 6.

ZL4GA—Homer, G. C., 5 Conway Street, MacAndrew Bay, Dunedin.

ZL4GB—Carter, D. J., 60 Antrim Street, Invercargill.

ZL4GC—Shand, T. J., 52 Bremner Road, Fairfield, Dunedin.

ZL4GD—Wilkey, T. G., 184 Gore Street, Bluff.

ZL4GE—Hurring, C. J., 1a Belmont Lane, Dunedin.

ZL4GF—Balan, S. C., 45a Brandon Road, Glen Eden, Auckland 7.

ZL4GG—Boddy, K. H., 47 Newcastle Street, Clyde.

ZL4GH—Hay, J. K., 1/188 Victoria Avenue, Remuera, Auckland 5.

ZL4GI—St. Peters College Radio Club, (Trustee: R. Paulson), Kakapo Street, Gore.

ZL4GJ—Service, T. R., 5 Bremridge Place, Hamilton.

ZL4GK—Colvin, L. J., 37 Locksley Avenue, Dallington, Christchurch 6.

ZL4GL—Gilder, N. J., 37 Pomona Street, Gore.

ZL4GM—Ellis, D. J., 146 Exmouth Street, Invercargill.

ZL4GN—Lodge, S. F., 35 Graham Street, Mosgiel.

ZL4GO—Thomas, M. E., NZED, Roxburgh, Private Bag, Roxburgh.

ZL4GP—Harnett, P. J., 3 Crosby Street, Dunedin.

ZL4GO—Southland Branch NZART Inc., (Trustee: R. N. Checketts), Eltrick Street, P.O. Box 1260, Invercargill.

ZL4GR—Earland, M. E. (Mrs), 88 Main South Road, Green Island, Dunedin.

ZL4GS—Graham, E. J. W., F2/426 Armagh Street, Christchurch 1.

ZL4GT—Skinner, L. C., 200 Surrey Street, Dunedin.

ZL4GU—Mussen, R. L., 30 Lyon Street, Invercargill.

ZL4GV—Seidelin, H. P., 22 Maryhill Terrace, Dunedin.

ZL4GW—McDonald, B. N., 39 Louisa Street, Invercargill.

ZL4GX—Collie, D. B., 48 Thurso Street, Invercargill.

ZL4GY—Wills, M. E., 48 Purdue Street, Invercargill.

ZL4GZ—Mitchell, B. A. E., 23 Wharenui Road, Rotorua.

ZL4HA—Young, B. S., 9 Crescent Street, Purakanui, Dunedin.

ZL4HB—Russell, V. T., 39 Swinton Street, Invercargill.

ZL4HC—Waters, M. J., 244 Brockville Road, Dunedin.

ZL4HD—Findlater, J. L. L., 37 Gormack Street, Balclutha.

ZL4HE—Montgomery, A. M., 4 Hoylake Street, Outram.

ZL4HF—Kindon, H. A. R., 53 Montague Street, Dunedin.

ZL4HG—McNeill, S. J. E., 40 Arawa Street, Dunedin.

ZL4HH—St. Pauls High School Amateur Radio Club, (Trustee: K. H. Sellar), 240 Rattray Street, Dunedin.

ZL4HI—Bruce, F., 170 Pine Hill Road, Dunedin.

ZL4HJ—Bulger, J. W., 1 King Street, Mosgiel.

ZL4HK—McNaught, R. G., 309 Ythan Street, Invercargill.

ZL4HL—Smirk, A. H., 68 Cannington Road, Maori Hill, Dunedin.

ZL4HM—Whelan, M. L., 142 West Street, Invercargill.

ZL4HN—Booth, W. J., Drummond, Southland.

ZL4HO—Sutton, K. E., 97 Grey Street, Invercargill.

ZL4HP—Rait, B. G., Longwood, No. 1 R.D., Riverton.

ZL4HQ—Williams, J. C., 143 Albert Street, Invercargill.

ZL4HR—Nisbet, G. J., 50 Clermiston Avenue, Corstorphine, Dunedin.

ZL4HS—Marsh, W. E. J., Wah Road, Otatara, R.D. 9, Invercargill.

ZL4HT—Powley, D. M. L., 17 Colchester Crescent, Newlands, Wellington 4.

ZL4HU—James Hargest High School Radio Club (Trustee: F. Taylor), Layard Street, Invercargill.

ZL4HV—Baxter, R. M., 456 Peninsula Road, Kelvin Heights, Queenstown.

ZL4HW—Robertson, K. W., C/- Awarua Radio, Private Bag, Invercargill.

ZL4HX—Paulson, R., St. Peters School, Kakapo Street, Gore.

ZL4HY—Baxter, P. M. (Mrs), 456 Peninsula Road, Kelvin Heights, Queenstown.

ZL4HZ—Hagen, K. B., 1 NZED Substation Findlay Road, Invercargill.

ZL4IA—Baker, J. C., P.O. Box 111, Wanaka.

ZL4IB—

ZL4IC—Cockeram, M. R., 262 Ythan Street, Invercargill.

ZL4ID—Hill, S. G., 54 Rhodes Terrace, Dunedin.

ZL4IE—Mason, J. A., 29 Cannington Road, Dunedin.

ZL4IF—Christie, J. B., 18 Shandon Road, Dunedin.

ZL4IG—Fox, A. R. E., 39 David Street, (P.O. Box 475), Invercargill.

ZL4IH—Frame, S. R., 38 Melbourne Street, Invercargill.

ZL4II—Hollebon, K. W., Irvine Road, 2 R.D., Dunedin.

ZL4IJ—Duerden, T. W. M., 166 Layard Street, Invercargill.

ZL4IK—Emslie, C. R., 44 Barr Street, Balaklava, Dunedin.

ZL4IL—Salmon, J. D., 7 Picardy Street, Dunedin.

ZL4IM—Norton, J., Pukerau, Southland.

ZL4IN—Faulkner, W. E., 124 Frank Street, Gore.

ZL4IO—Harkness, J. W., 74 Mulford Street, Concord, Green Island, Dunedin.

ZL4IP—Patterson, B. R., 66 Koremata Street, Green Island, Dunedin.

ZL4IQ—Knowles, D. C., 3 Watkin Street, Dunedin.

ZL4IR—Jensen, M. O., 16 Delpha Street, Dunedin.

ZL4IS—Smirk, B. A., 68 Cannington Road, Maori Hill, Dunedin.

ZL4IT—Sawyers, R. N., 32 Leckhampton Street, Caversham Glen, Dunedin.

ZL4IU—Swale, C. S., 28 Hastings Street, Ohai.

ZL4IV—Looser, E. A., 6b Lunciman Street, Green Island, Dunedin.

ZL4IW—Holden, P. J., 175 Scott Street, Dunedin.

ZL4IX—Hasler, D. G., 9 White Road, Burnham.

ZL4IY—Piercy, H. J., 206 Bowmont Street, Invercargill.

ZL4IZ—Jeffery, I. W., P.O. Box 96, Balfour, Southland.

ZL4JA—Birse, K. C., 19 Heaphy Street, New Plymouth.

ZL4JB—Rose, J. R., Otatara, Invercargill.

ZL4JC—McLennan, E. J. (Mrs), 11 Emerson Street, Concord, Dunedin.

ZL4JD—Dudley, J. T., 11 Fraser Street, Waikiwi, Invercargill.

ZL4JE—Elliot, J., 36 Grange Street, Dunedin.

- ZL4JF—South Otago Branch NZART (Trustee: J. L. L. Findlater), Main South Road, Balclutha.
- ZL4JG—MacDonald, E. R., 318 Main South Road, Green Island Dunedin.
- ZL4JH—Harrow, J. C., 529 Tweed Street, Invercargill.
- ZL4JI—Woods, J. R., Taiepa Road, Otatara, R.D. 9, Invercargill.
- ZL4JJ—Ferris, R. J., 269 Stokes Valley Road, Stokes Valley.
- ZL4JK—Stanton, M. G., R.D. 6, Gore.
- ZL4JL—Stewart, R. D., 4 Arawa Street, Gore.
- ZL4JM—Richardson, J., Aurorai Station, Private Bag, Omakau.
- ZL4JN—Haig, A. V., 43 Melbourne Street, Dunedin.
- ZL4JO—Johnstone, M. O., Newhaven, 1 R.D., Otago.
- ZL4JP—McKenzie, G. A., Waiparu, No. 7 R.D., Gore.
- ZL4JQ—Torrance, A. M., 5 Hart Street, Dunedin.
- ZL4JR—Rait, J. N. (Mrs), Longwood, No. 1 R.D., Riverton.
- ZL4JS—Stonehouse, R. P. M., 63 Bamborough Street, Invercargill.
- ZL4JT—Jennings, J. T., 5 Danube Street, Dunedin.
- ZL4JU—Middleton, C. H., C/- Alpine Helicopters, R.D. 1, Cromwell.
- ZL4JV—Barry, J. M., 26 Brougham Street, Westport.
- ZL4JW—Watson, R. J., 13 Oregon Drive, Kelvin Heights, Queenstown.
- ZL4JX—
- ZL4JY—Otago Branch NZART (Trustee: R. W. G. Kingston), 109 Macandrew Road, Dunedin.
- ZL4JZ—
- ZL4KA—Spence, P. C., 62 Roy Crescent, Concord, Dunedin.
- ZL4KB—Gearing, W. J., Felldene Farm, R.D. 2, Wakefield, Nelson.
- ZL4KC—Air Training Corps Radio Club, No. 12 Invercargill Squadron, (Trustee: R. A. McNeill), Army Hall, Victoria Avenue, Invercargill.
- ZL4KD—
- ZL4KE—Colyer, J. V., 17 Clutha Street, Alexandra.
- ZL4KF—France, K. N., 41 Glencarron Street, Alexandra.
- ZL4KG—Rhodes, T. W., 78 Spottiswoode Street, Dunedin E1.
- ZL4KH—Shine, D. H. J., 11 Northview Crescent, Roslyn, Dunedin.
- ZL4KI—Poole, F. L., Marama Avenue, Otatara, P.O. Box 575, Invercargill.
- ZL4KJ—Robertson, D. C., 45 Maitland Street, Invercargill.
- ZL4KK—Gillick, M. M., 30 Oakland Street, Dunedin E1.
- ZL4KL—Lister, K. B., 37 Marine Parade, Macandrew Bay, Dunedin.
- ZL4KM—Craig, A. J., 3 Milner Street, Oamaru.
- ZL4KN—Findlater, R. B., 88 George Street, Invercargill.
- ZL4KO—Williams, T. J., 48 Every Street, Dunedin.
- ZL4KP—Cochrane, W. G., 19 Centennial Avenue, Balclutha.
- ZL4KQ—Symonds, J. R., 27 Lewin Street, Balclutha.
- ZL4KR—Pearce, A. M., 173 Helensburgh Road, Dunedin.
- ZL4KS—Orion, A., 25 Cass Street, Temuka.
- ZL4KT—Waring, D., 183 Shetland Street, Dunedin.
- ZL4KU—Taylor, S. J., 12 Chelmsford Street, Invercargill.
- ZL4KV—Patton, J. A., 2 Douglas Place, R.D. 7, Te Puke.
- ZL4KW—Kibblewhite, K. C., Larch Hill, Frankton Road, Queenstown.
- ZL4KX—McCormick, B. P., 39 Moana Crescent, Dunedin.
- ZL4KY—Jones, H. A., 1 Edinburgh Place, Balclutha.
- ZL4KZ—
- ZL4LA—McKellar, I. C., 34 Claremont Street, Dunedin.
- ZL4LB—Beagley, G. T., Precelley Street, Allanton, R.D. 2, Mosgiel.
- ZL4LC—Carroll, E. P., 6 Benhar Street, Dunedin.
- ZL4LD—Haines, P. C., 37 Wairoa Street, Dunedin.
- ZL4LE—Evans, L. M., Tussock Creek, R.D. 6, Invercargill.
- ZL4LF—Masterton, D., 17 Lochend Street, Dunedin.
- ZL4LG—Beardmore, G. F., 22 Woodside Terrace, Andersons Bay, Dunedin.
- ZL4LH—Milsom, P. S., 20 Lanark Street, Mosgiel.
- ZL4LI—Amon, L. E. S., 700 Castle Street, Dunedin.
- ZL4LJ—McKenzie, A. I., 24 Scotland Terrace, Green Island, Dunedin.
- ZL4LK—Whitty, M. J., 20 Edinburgh Street, Green Island, Dunedin.
- ZL4LL—Benson, J. A., 15 Heath Street, Andersons Bay, Dunedin.
- ZL4LM—Nallawalla, A., C/- 1 Upland Street, Dunedin.
- ZL4LN—Tall, E. J., 19 Graham Street, Mosgiel.
- ZL4LO—Singleton, J. (Mrs), Waikawa R.D. 1, Tokanui.
- ZL4LP—Seilar, K. R., 34 City Road, Dunedin.
- ZL4LQ—Corstorphine Radio Club, (Trustee: G. J. Nisbet), 50 Clemiston Avenue, Dunedin.
- ZL4LR—Hunt, F. G., 38 Dame Street, Waikouaiti.
- ZL4LS—Howie, G. A., 12 Theyers Street, Alexandra.
- ZL4LT—
- ZL4LU—Costard, T. J., 17 Stirling Street, Andersons Bay, Dunedin.
- ZL4LV—Johnson, P. W., Saddle Hill Road, P.O. Box 71, Dunedin.
- ZL4LW—Woodford, L. A., 90 Palmerston Street, Riverton.
- ZL4LX—Evans, R. W., 66 Carnarvon Street, Invercargill.
- ZL4LY—Macaskill, D. J., 34 Stirling Street, Invercargill.
- ZL4LZ—Telford, B., Ruru Avenue, Otatara, R.D. 9, Invercargill.
- ZL4MA—Fergusson, T. R., 592 Tay Street, Invercargill.
- ZL4MB—Andrews, S. E., 14 Como Street, Dunedin.
- ZL4MC—McGowan, D. F., 7 Arthur Street, Oamaru.
- ZL4MD—Hayes, K. J., Orlive Street, Cromwell.
- ZL4ME—
- ZL4MF—Bell, J. W., 66 Elizabeth Street, Invercargill.
- ZL4MG—McKenzie, W. J., 9 Main Street, Tuatapere.
- ZL4MH—McKenzie, E. D., 6 Drivers Road, Dunedin.
- ZL4MI—Tidbury, S. J., R.D. 2, Dunedin.
- ZL4MJ—Mitchell, J. S., 109 Layard Street, Invercargill.
- ZL4MK—Kingston, R. W. G., 12 Kenilworth Street, Waverley, Dunedin.
- ZL4ML—Lamont, M. S., 3 Garden Place, Glenleith, Dunedin.
- ZL4MM—Murray, R. W., Ripponvale, Cromwell.
- ZL4MN—Mosley, J. D., 67 Gladstone Road, Dunedin.
- ZL4MO—Askey, A. J., 30 Murano Street, Waverley, Dunedin.
- ZL4MP—Crichton, J., 14 Bernica Street, Port Chalmers.
- ZL4MQ—Reynolds, W. J., 189 George Street, Invercargill.
- ZL4MR—Mabon, A. C., 29 Crosby Street, Dunedin.
- ZL4MS—Dalliesi, P. J. C., Chertsey Court, 217d Ruahine Street, Terrace End, Palmerston North, P.O. Box 5284.
- ZL4MT—Matthews, R. H., Main Road, Mokotua, R.D. 1, Invercargill.
- ZL4MU—Cook, R. K., 230 Crawford Street, Invercargill.
- ZL4MV—Dawson, G. L., 32 Vernon Street, Invercargill.
- ZL4MW—Ward, W. T. R., 29 Wellesley Avenue, Invercargill.
- ZL4MX—Govan, W. A., 28 Ann Street, Dunedin.
- ZL4MY—Tweek, M. E., 9 Layard Street, Invercargill.
- ZL4MZ—Sherlaw, W. G., Waipori Falls.
- ZL4NA—Dinkelaar, F., 59 Stirling Road, Benhar.
- ZL4NB—Barkman, D. J., 42 Nairn Street, Kaikorai, Dunedin.
- ZL4NC—Holding, N., 93 Dunrobin Street, Waverley, Dunedin.
- ZL4ND—Cunningham, P. J., 63 High Street, Mosgiel.
- ZL4NE—Smith, B. A. C., C/- The Hostel, Pompalona Hutt, Te Anau.
- ZL4NF—
- ZL4NG—Simmons, R. H., 544 Tay Street, Invercargill.
- ZL4NH—McRadden, P., 93 Tomahawk Road, Andersons Bay, Dunedin.
- ZL4NI—Braddock, A. R. (Mrs), 39 Norton Street, Gore.
- ZL4NJ—Scott, I. R., 514 Yarrow Street, Invercargill.

ZL4NK

ZL4NK—Kan, N. C. Y., 90 North Road, North East Valley, Dunedin N.E.1.

ZL4NL—Taylor, A. J., 37 Dipton Street, Invercargill.

ZL4NM—Taylor, F., 318 Chelmsford Street, Invercargill.

ZL4NN—Gibb, L., 22 Bridger Street, Dunedin.

ZL4NO—Davidson, M., 34 View Street, Invercargill.

ZL4NP—Goodin, N. H., 325 Tomahawk Road, Dunedin.

ZL4NQ—Queenstown Branch (75) NZART (Trustee: K. C. Kibblewhite), Council Chambers, Ballarat Street, Queenstown.

ZL4NR—McVie, K. R., 29 Granville Terrace, Dunedin.

ZL4NS—Hagen, R. L., House 1, NZED Substation, Findlay Road, Invercargill.

ZL4NT—No. 46 (Mosgiel) Squadron ATC Radio Club, (Trustee: P. S. Milsom), Taieri Airport, Dunedin.

ZL4NU—Mackay, A. J., Montana, 2 R.D., Heriot.

ZL4NV—Selwyn, T. A., C/- NZED Substation, R.D. 2, Cromwell.

ZL4NW—Lee, N. P. C., 51 Dome Street, Invercargill.

ZL4NX—Etevenaux, D. H., 46 Greenock Street, Dunedin.

ZL4NY—Young, P. F., No. 3 R.D., Winton.

ZL4NZ—Reid, K. W., 25 Highfield Terrace, Invercargill.

ZL4OA—McCutcheon, M. C., Littles Road, Dalefield, Queenstown.

ZL4OB—Jackson, G. A., 88 Ravenswood Road, Dunedin.

ZL4OC—Smith, R. F., 4 Spiers Road, Dunedin.

ZL4OD—Parsons, R. D., 69 Oreti Street, Invercargill.

ZL4OE—Cumming, C. L., 2 Hinkley Terrace, Company Bay, Dunedin.

ZL4OF—Adams, C. A., 38 Warden Street, Opoho, Dunedin.

ZL4OG—No. 28 (Gore) Squadron, ATC Radio Club, (Trustee: R. A. Whyte), Drill Hall, Avon Street, Gore.

ZL4OH—McNeill, R. A., 7 Whitney Street, Blenheim.

ZL4OI—Sim, R. J., Henderson Street, Wingatui.

ZL4OJ—Collie, D. B., 147 Tory Street, Wellington.

ZL4OK—McGlinn, A. J., 61 Youghal Street, Wanaka, P.O. Box 20.

ZL4OL—McAlevy, M. J., Double Hill Road, Waitati.

ZL4OM—McIver, P. D., 5/18 Avon Street, Oamaru.

ZL4ON—Summerell, B. W., 15 Carnarvon Street, Invercargill.

ZL4OO—Central Otago Branch NZART, Dunstan Road, R.D. 2, Alexandra.

ZL4OP—Morris, D. P., 134 Stobo Street, Invercargill.

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ZL4PB—Christie, D. A., 116 Birdwood Avenue, Beckenham, Christchurch 2.

ZL4PC—Haigh, F., C/- 99 Eglinton Road, Mornington, Dunedin.

ZL4PD—Neill, K. G., 38 Teignmouth Street, Green Island, Dunedin.

ZL4PE—Blyth, B. W., Price Road, Winton.

ZL4PF—Lindsay, M. G., C/- Wellington Radio, Private Bag, Wellington.

ZL4PG—Lloyd, D. A., 180 Forbury Road, Dunedin.

ZL4PH—Drayton, G. J., 64 Margaret Street, Invercargill.

ZL4PI—Huband, G. J., 70 Spencer Street, Dunedin.

ZL4PJ—Blain, W. A., 640 Tay Street, Invercargill.

ZL4PK—McLean, G. P., 87 Easter Crescent, Dunedin.

ZL4PL—

ZL4PM—Marsh, P., 33 Falcon Street, Dunedin.

ZL4PN—Skeet, B. R., 15 Arnott Street, Alexandra.

ZL4PO—Price, L. J., C/- Chatham Island Radio.

ZL4PP—Cairns, J. G., Coal Creek, Roxburgh.

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ZL4PR—Russell, P. F., Bryson Road, Otatara, 9 R.D., Invercargill.

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ZL4PU—Watson, G. M., Oamaru Airport, Oamaru.

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ZL4QY—Williams, J. W., 72 Russell Street, Alexandra.

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ZL4RB—Naish, A. W., Kakanui, 5 R.D., Oamaru.

ZL4RC—Wekking, J. H. J., 38 Jollie Road, Twizel.

ZL4RD—Perrin, L. D., Kakapuaka, R.D. 3, Balclutha.

ZL4RE—Murgatroyd, E. M., 97 Factory Road, Mosgiel.

ZL4RF—Osborne, H. F., 8 Conway Crescent, Invercargill.

ZL4RG—Calvert, K. G., Centre Bush, 2 R.D., Winton.

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 ZL4RR—Moore, J. S. F., 49 Nelson Street, Dunedin.
 ZL4RS—Jonker, J. A., 31 Burns Street, Milton.
 ZL4RT—Smith, D. J., "Avoca", 2 R.D., Gore.
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 ZL4RV—Tampin, A. F. K., 57 Argyle Street, Dunedin.
 ZL4RW—Bailey, W. D., 35 Tyne Street, Roslyn, Dunedin.
 ZL4RX—MacDiamid, R. M., C/- Knox College, Arden Street, Dunedin.
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 ZL4RZ—Johnson, G. C., 476 Herbert Street, Invercargill.

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 ZL4TKF—
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 ZL4TLC
 ZL4TLD
 ZL4TLE
 ZL4TLF
 ZL4TLG
 ZL4TLH
 ZL4TLI
 ZL4TLJ
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 ZL4TLO
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 ZL4TLQ
 ZL4TLR
 ZL4TLS
 ZL4TLT
 ZL4TLU
 ZL4TLV

ZL4TLW
 ZL4TLX
 ZL4TLY
 ZL4TLZ

Amendments

ZK1AA—Kings, S., P.O. Box 66, Matavera, Rarotonga.
ZK1AC—Francis, R., P.O. Box 47, C/- Cablewireless Ltd.,
Rarotonga.
ZK1AD—Dean, A., P.O. Box 259, C/- Post and
Telecommunications, Rarotonga.
ZK1AF—Sjolund, E. A., Ex SMØAGD.
ZK1AG—Story, F., P.O. Box 525, Nikao, Rarotonga.
ZK1AH—Hosking, A. V., P.O. Box 459, Nikao, Rarotonga.
ZK1AN—Davis, Sir Thomas, Prime Minister's Department,
Rarotonga.
ZK1AQ—Malcom, R., Atiu Island.
ZK1AR—Darling, R. S., QSL via WB6HGH.
ZK1BA—Grantham, T., C/- NZMOT, Rarotonga.
ZK1BB—Cook Island Boys' Brigade, C/-ZK1AD, P.O. Box
259, Rarotonga.
ZK1BC—Bayly, R., Arorangi, Rarotonga.
ZK1BD—Ellis, M., C/- NZMOT, Rarotonga.
ZK1BF—Feikirt, B., Rarotonga.
ZK1BG—Gordon, B., QSL via ZL1AAA.
ZK1BP—Savage, H., P.O. Box 168, Takuvaine, Rarotonga.
ZK1BS—Boy Scouts, P.O. Box 120, Rarotonga.
ZK1BT—Aiturai, T., Tupapa, Rarotonga.
ZK1BW—Waters, B., Tupapa, Rarotonga.
ZK1CA—Naulls, R., Rarotonga.
ZK1CG—Rivera, V., P.O. Box 618, Rarotonga.
ZK1CH—Colquhoun, R., Rarotonga.
ZK1CI—Francis, M. T., C/- ZL2BNJ.
ZK1CP—Utanga, T., P.O. Box 98, Rarotonga.
ZK1CQ—Wright, R., QSL via ZL1AMO.
ZK1CR—Holt, R., ex ZL1BBZ.
ZK1CS—Swoboda, W., P.O. Box 19, Matavera, Rarotonga.
ZK1CT—Guinea, Dr. A., P.O. Box, Atupa, Rarotonga.
ZK1CV—Blake, R., P.O. Box 143, Ruatonga, Rarotonga.
ZK1CX—Pearson, N., P.O. Box 15, Rarotonga.
ZK1CY—Tuatal, P.O. Box 209, Matavera, Rarotonga.
ZK1DA—Dobson, A., P.O. Box 269, Rarotonga.
ZK1DB—Gibbons, A., P.O. Box 277, Rarotonga.
ZK1DC—Saphore, E., QSL via 3D2ES.
ZK1DD—Clarke, D. J., Atutaki.
ZK1DF—Parker, J., via FO8DF.
ZK1DG—Goodger, J., Rarotonga.
ZK1DP—Shan, Y., C/- P.O. Box 259, Rarotonga.
ZK1DQ—Lang, B., Rarotonga.
ZK1DR—Cresswell, A., Rarotonga.
ZK1DW—Wilson, W. O., Rarotonga.
ZK1DX—Inwood, R., NZMOT, Rarotonga.
ZK1GC—Clarke, G. R., NZMOT, Rarotonga, QSL via
ZL2BME.
ZK1GE—Clarke, G., NZMOT, Rarotonga, QSL via
ZL2TPE.
ZK1JS—Scutts, L. J., ex ZK2JS, Niue Islands.
ZK1MA—Tupou, T., C/- ZK1CY, Matavera, Rarotonga.
ZK1RE—Ellis, R. K., P.O. Box 49, Rarotonga.
ZK1WL—Latham, W. J., Penrhyn Island.

Fiji

3D2AA—Aisake, A., Lot 19 Vunimoli Road, Labasa.
 3D2AJ—McIsaac, A. J., P.O. Box 425, Suva.
 3D2AN—Wooller, M. J., P.O. Box 184, Suva.
 3D2CC—Carter, T. F., Box 461, Lautoka.
 3D2CM—Northcott, R. L., P.O. Box 1168, Suva.
 3D2CS—Broadbridge, E. K., P.O. Box 1046, Suva.
 3D2CT—Jimenez, C. T., P.O. Box 567, Suva.
 3D2DI—Smith, W. J., P.O. Box 184, Suva.
 3D2DM—Meyers, D. D., P.O. Box 184, Suva.
 3D2EC—Corner, R. E., Wakaya Island.
 3D2EF—Finlay, E. McD., P.O. Box 3248, Lami, Suva.
 3D2ER—Singh Raj, P.O. Box 184, Suva.
 3D2ES—Saphore, E., C/- UN Mineral Resources Department, Suva.
 3D2FK—Kloss, F. R., P.O. Waiyevo, Taveuni, Fiji Islands.
 3D2GH—George, J. M., P.O. Box 3126, Lami.
 3D2JG—Goodrich, J. D., Box 1168, Suva.
 3D2MP—Prakash, M., P.O. Box 5324, Raiwaqa, Suva.
 3D2MR—Mar, G., 41 Boron Road, Suva, Fiji Islands.
 3D2NB—Harding, F. W., C/- MV *Tuicakau II*, Marine Department, Suva.
 3D2PG—Glover, P. J., P.O. Box 5090, Raiwaqa, Suva.
 3D2PS—Schulz, A. F. P., P.O. Box 1168, Suva.
 3D2PT—Truscott, W. P., P.O. Box 270, Suva.
 3D2RA—Allan, P. R., Box 631, Suva.
 3D2RH—Hallen, R. B., C/- Cincpacrep, American Embassy, Suva.
 3S2SS—First Suva Scout Group, Box 2344 Government Buildings, Suva.
 3D2UR—USP Amateur Radio Club, Box 1168, Suva.
 3D2ZM—Frazier, P. E., G.P.O. Box 184, Suva.

Tonga

A35AO—Otaki, A.
 A35BA—Johnson, B. A.
 A35CG—Gardiner, C. H.
 A35CQ—Hypnarouski, J. F.
 A35EA—Wight, R. W.
 A35EB—Bradley, E. D.
 A35ES—Shimizu, E.
 A35FI—Amateur Club of Tonga, Nuku'alofa.
 A35FF—Fechner, F.
 A35GH—Hanna, T.
 A35JG—Gardiner, J. M.
 A35JH—Henderson, J. L.
 A35JL—Lee, J., Nuku'alofa.
 A35JM—Maynard, J. H.
 A35LH—Hanna, T. L. (Mrs).
 A35LJ—Orchard, L. J.
 A35LM—MacMillan, L. A.
 A35MA—Chesher, R. H.
 A35MJ—Donns, M. J.
 A35MK—Knowle, M. C.
 A35MO—Orchard, M. P.
 A35MP—Potts, D. M., Nei'afu, Vava'u.
 A35MS—Schuster, M.
 A35NK—Knowle, J. N.
 A35PG—Goldstern, P., Nei'afu, Vava'u.
 A35PP—Cairns, J. G.
 A35RS—Sutton, R. J.
 A35SA—Moore, R. J., Nuku'alofa.
 A35SD—Davis, J. D.
 A35SN—Lippman, W. A.
 A35TB—Bender, T. R.
 A35WW—Nagi, A.
 A35ZH—Hoover, H.

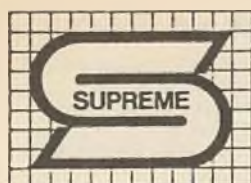
Niue

ZK2AE—Coleman, H. A., P.O. Box 57, Niue Island.
 ZK2BW—Now ZK1BW, see Cook Island listing.
 ZK2IK—now ZL2IK, see New Zealand listing.
 ZK2JL—Lee, J. R., P.O. Box 15, Nukua'lofa, Tonga.
 ZK2NU—Niue Amateur Radio Club, P.O. Box 37, Niue Island.
 ZK2RD—Douglas, R., P.O. Box 37, Niue Island.
 ZK2RS—now ZL4DO, see New Zealand listing.
 ZK2ST—Tiakia, S., P.O. Box 37, Niue Island.

Vanuatu

YJ8DE—Discombe, R., P.O. Box 56, Port Vila, Efate Island.
 YJ8DX—Vanuatu Amateur Radio Society, C/- Robert Leong, P.O. Box 50, Port Vila, Efate Island.
 YJ8ES—Santo Amateur Radio Society, C/- James Hige, Santo Radio Station, P.O. Box 162, Luganville, Santo Island.
 YJ8FB—Beardsley, F., P.O. Box 604, Port Vila, Efate Island.
 YJ8GG—des Fontains, G. G., PRV, Norsup, Malekula Island.
 YJ8GX—Georges, A. S., Civil Aviation Department, Port Vila, Efate Island.
 YJ8JH—Hannaford, J. W., P.O. Box 665, Port Vila, Efate Island.
 YJ8JL—Laub, C. J., P.O. Box 828, Port Vila, Efate Island.
 YJ8JN—Nixon, J. R., P.O. Box 276, Port Vila, Efate Island.
 YJ8LT—Gaetan, L., Anabourou, P.O. Box 423, Port Vila, Efate Island.
 YJ8MC—Clement, M. M., P.O. Box 731, Port Vila, Efate Island.
 YJ8NCW—Colling-Wood, J. B., P.O. Box 342, Port Vila, Efate Island.
 YJ8NJW—Watson, J. E., P.O. Box 683, Port Vila, Efate Island.
 YJ8NKB—Barlow, A. K., P.O. Box 730, Port Vila, Efate Island.
 YJ8OK—Watson, T. L., P.O. Box 683, Port Vila, Efate Island.
 YJ8PM—Moderan, P., P.O. Box 226, Luganville, Santo Island.
 YJ8RF—Fewster, R., P.O. Box 743, Port Vila, Efate Island.
 YJ8RG—Graham, R. S., P.O. Box 229, Port Vila, Efate Island.
 YJ8TT—Cheung, A., P.O. Box 63, Luganville, Santo Island.
 YJ8VDL—Lum, D. J., P.O. Box 65, Luganville, Santo Island.
 YJ8VH—Schulz, C. S., P & T Radio Section, Port Vila, Efate Island.
 YJ8VOB—O'Brien, C. J., P.O. Box 743, Port Vila, Efate Island.
 YJ8VRL—Leong Robert, P.O. Box 50, Port Vila, Efate Island.
 YJ8YD—Didou, J.-Y., P.O. Box 196, Luganville, Santo Island.
 YJ8YS—Yatuka Sato, SPFC, P.O. Box 19, Luganville, Santo Island.

Amendments



SUPREME AERIALS FOR THE RADIO ENTHUSIAST

BANDMASTER 20-17-15-12-10

A new addition to our range of beam antennas.

- * Operates 20, 17, 15, 12, 10 metres.
- * Front to Back Ratio up to 20 db.
- * S.W.R., Less than 1.8 to 1 at resonance.
- * Maximum Element Length, 3.66 metres.
- * Power Rating: 300 Watts P.E.P.
- * FEED: 52 ohm coax
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This is our latest vertical designed for excellent DX operation for those with small sections - this would be the best vertical around.

- * Operates 160, 80, 40 and 20 metres
- * Full height of 12m used on all bands
- * Fed with 52 ohm co-ax
- * Suitable for modern transmitters
- * 5/8 wavelength on 20 metres with low angle of radiation
- * Easily mounted to post or building
- * Air wound Hi-Q resonators
- * No tuner required

DISCONEMASTER

This aerial is the ideal broadband antenna for the VHF enthusiast or the listener with a scanning receiver. Available for the Commercial Service Operator.

- * Broadband coverage 70 MHz to above 450 MHz
- * Full 16 element performance
- * No matching required
- * Universal mounting bracket
- * Very low angle of radiation
- * Plus aircraft and commercial bands
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- * Extra strong aluminium hub \$117-90
- * Commercial version \$162-00

SLIM MASTER

A new "convenient" aerial for the VHF hand held operator, to give added gain over the Rubber Duckie for portable operation.

- * Convenient fold away portable aerial
- * Up to 6 dB gain over Rubber Duckie
- * Complete in convenient carry satchel
- * Easily and quickly "erected"
- * Flexible 1.5m long
- * Fitted with BNC plug
- * Completely enclosed
- * Ideal for portable or home station \$25-00

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BANDMASTER 20-15-10

This beam is proving to be the most popular HF beam around ZL, giving top performance at an attractive price.

- * Rated up to 300 watts
- * Lightweight enclosed traps
- * Boom length 3.66m, element length 7.79m
- * Feedline 52 ohm co-ax
- * Broadband coverage of 20, 15 and 10 metres
- * Front to back ratio up to 20 dB
- * SWR less than 1.5 to 1.0 resonance
- * Anodised aluminium throughout \$394-65

POWERMASTER

This tribander, has the same specification as the BANDMASTER, but is rated up to 2 KW. \$453-60

SIGNALMASTER

Extremely popular versatile 7 band vertical that requires little space and effort to erect - really great for those who want all band operation but with little available space.

- * Automatic operation
- * Single 52 ohm feedline
- * Easy to install
- * No tuner required
- * Covers 160 through to 10 metres plus 30 metres
- * Full height of 8cm effectively used on all bands
- * Air wound HI-Q resonators
- * SWR less than 1.5 to 1.0 resonance \$291-60

WIREMASTER

This versatile all band dipole is extremely popular, enabling dipole operation on more than 1 band. The most popular combination is 80 and 40 metres with 1 feedline. Available in any frequency for the Commercial Service Operator.

- * Easily installed system
- * Two or more dipoles presented to transmitter
- * Any combination of frequencies available
- * Full aerial kit available
- * Traps are totally enclosed
- * Real space saver
- * Low SWR at resonance
- * Traps are low loss design \$53-50 pair
- * Commercial \$91-00 pair

MOBILEMASTER

This is the ultimate aerial for the mobile enthusiast - is a must for today's solid state transceiver, giving truly automatic operation on 4 bands. Just switch bands - the aerial takes care of itself. No tops or whips to change.

- * Operates 80, 40, 20, 15 and 10 metres
- * Easy to tune with tip tuning
- * SWR better than 1.5 to 1.0 at resonance
- * Helically wound on tapered fibreglass
- * Fits standard 5/8" base
- * Stored in convenient carry tube
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- * No matching network required
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FT709R...P.O.A.

FT757GX

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FT2700RH — TWO-IN-ONE

The ultimate 2M and 70cms FM radio built on Yaesu's new die-cast aluminium chassis, allowing 25W output on both bands. Two 4-bit CPU's allow simple operation of the dual VFO's 10 channel memory, with back up. Dual receiver front ends local synthesisers, IF's and transmitter RF stages gives full duplex capability. Comprehensive scanning facilities allow continuous or skip scanning between memory channels in the same band, combined with a MHz switch for changing from one band to another. Large green LCD gives aesthetically pleasing and easy to read display of transceiver operating status incl. memory and reverse repeater at a glance. The P.O/S meter is a distinctive two colour graphical LCD incorporated into the main display.



FT270R/RH — LARGE ON OUTPUT

FT270R/RH is a 2M FM Transceiver built on a unique diecast aluminium heat-sink with ducting which allows a continuous 45W output (RH model). The R model is rated at 25W output. The LCD display uses large 5mm digits allowing easy reading of all transceiver functions. Dual 4-bit microprocessors allow quick operation of dual VFO's, ten memories and scanning. Upper and lower band scanning limits can be set as well as monitoring priority memory channel. Optional voice synthesiser is available to give an audible indication of frequency, at the touch of a button.



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VHF Converter (optional)

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Standard features include: a speech processor, switchable choice of J-FET pre-amp or 20dB pin diode attenuator and two VFO's, marker, 4 variable tuning rates, pass band tuning, notch, variable noise blanker, monitor switch, direct feed mixer in the front end, full break-in on CW and AMTOR compatibility.

The first IF is 70.045 MHz. Any XIT and RIT adjustment is shown on the display. The transmitter features high reliability 2SC2904 transistors in a low IMD (-32dB@100W) full 100% duty cycle. For more detailed information on this excellent set, please get in touch with us.



ICOM IC-R71

What more can be said about this receiver that has not been said already - the choice of the experts.

IC-751.....\$2842-00
IC-O2A.....\$529-00
IC-R71... ..\$P.O.A.

HS-10) \$98-95
HS-10SB)

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—1985—

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The Official Journal of New Zealand Association of Radio Transmitters (Inc.).

Published monthly except January. *Call Book* supplement published each June.

Editor: Craig Crawford, ZL3TLB.

- All Articles, Advertising, Hamads, Letters to the Editor, Amendments to *Call Book* Listing.

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BREAK-IN
P.O. Box 1733
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The monthly NZART Official Broadcast is made by:

ZL2IY, WELLINGTON
3900 kHz

on the last Sunday of each month except December, when the broadcast is made on the Sunday before Christmas.

The time of the broadcast is 8 p.m., except when New Zealand Daylight Time is operating the broadcast time is 9 p.m.

Members and Branches are welcome to submit material to ZL2IY for consideration for inclusion in the broadcasts.

CONFERENCE OFFICIAL BROADCAST

The Official Conference Broadcast is held on the Sunday of Queen's Birthday Weekend at 8 p.m.

TELETEXT

NZART Teletext Editor,
Tony Dale ZL3TMZ,
Cuffs Road,
Christchurch
Phone (03) 887-913.

TVNZ
Teletext
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SLOW MORSE TRANSMISSIONS

Slow Morse broadcasts are made from the following NZPO-authorized stations:

ZL2KB—Frequency: 3550 kHz, Lower Side Band.

Time—1845 to 1930 hours. Monday to Friday, inclusive.
Programme—Computer generated random morse in groups, with readout, at speeds rising from 5 to 14 wpm each month.

ZL2ABJ—Frequency: 3530 kHz.

Time—1930 to 2000 hours. Tuesdays and Thursdays.
Transmission content is plain language as advised in *Break-In*.

Reception reports welcomed by each station.

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A monthly net of all AREC Section Leaders is held on the 3rd Monday of each month at 7.30 p.m. Net is conducted by OC AREC, ZL2EX on 3900 kHz, Upper Sideband.

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The New Zealand Association of Radio Transmitters Incorporated

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1926-27	E. A. Shrimpton	Z2XA
1928	R. J. Orbell	OZ1AX
1929	R. J. Orbell	ZL1AX
1930	T. R. Clarkson	ZL1FQ
1931	H. P. V. Brown	ZL3CG
1932	D. Wilkinson	ZL2AB
1933	N. W. Laugesen	ZL3AS
1934	W. F. Collett	ZL4BP
1935	C. N. Edwards	ZL1AA
1936	W. M. Hall	ZL2BH
1937	R. B. Dodds	ZL4FK
1938	L. G. Petrie	ZL2OV
1939	F. W. Sellens	ZL2MY
1940	B. E. Jackson	ZL2FJ
1941-42	W. Fouhy	ZL2LB
1943-44	C. G. Liddell	ZL2BI
1945-46	E. B. Lough	ZL2OG
1947-49	C. G. Liddell	ZL2BI
1949-50	J. F. Freeman	ZL2AFB
1950-51	C. T. Berry	ZL2BY
1951-53	W. J. Wainwright	ZL3LI
1953-55	R. H. Hanley	ZL2GU
1955-58	H. F. Arnold	ZL3HA
1958-60	J. F. Freeman	ZL1VA
1960-62	G. McB. Salt	ZLICK
1962-64	R. T. Woodfield	ZL2VN
1964-66	C. G. Liddell	ZL3ND
1966-69	H. Burton	ZL2APC
1969-70	W. R. Hamer	ZL2CD
1970-72	D. A. Lloyd	ZL4PG
1972-73	D. E. Cleland	ZL1IY
1973-74	J. F. C. Johnson	ZL2AMJ
1974-77	W. D. Gorman, M.B.E.	ZL2IY
1977-83	A. G. Godfrey	ZL1HV
1983-85	D. J. Mackay	ZL3RW
1985-	T. D. Carrell	ZL3QL

HONORARY LIFE MEMBERS

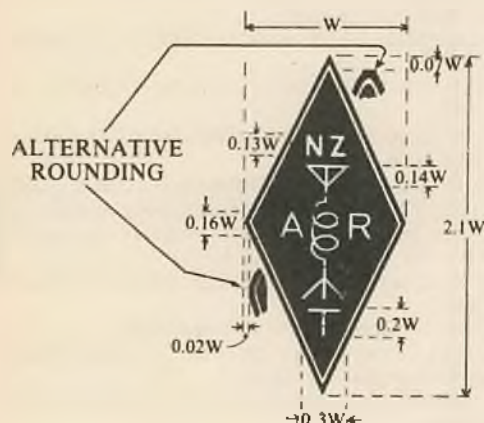
1947	W. D. Gorman, ZL2IY
1948	J. F. Freeman, ZL2AFB/2VU
1948	T. R. Clarkson, ZL2AZ
1950	Mrs W. Hall
1953	R. Cassey, ZL2IQ
1961	J. M. White, ZL2GX
1964	H. F. Arnold, ZL3HA
1966	C. G. Liddell, ZL3ND
1980	F. R. W. Andrews, ZL2IJ
1982	G. C. Blackwell, ZL3NT
1983	A. G. Godfrey, ZL1HV

Milestones

- 1923 Regulations for Amateur, Experimental and Broadcasting stations gazetted on January 17.
By June, nine licences had been issued.
First amateur radio contact with Australia on April 26, 1923, between Frank Bell 4AA and Chas McClurcan 2CM on 160 metres.
- 1924 May 22, Ivan O'Meara 2AC in Gisborne, contacted C. Braggio CB8 in Argentina.
September 21, 4AA made first two-way contact with 6BCB in North America, on 118 metres.
October 18, 6 p.m., the first-ever direct 2-way radio contact with Britain, between Shag Valley 4AA Frank Bell, and London, Cecil Goyder 2GZ, on 92 metres.
- 1925 International Amateur Radio Union formed in Paris on April 18, with 23 countries represented. Z4AA Member of Executive Committee. Number of licences reached 100.
- 1926 In Auckland on August 16, the New Zealand Association of Radio Transmitters formed. Subscription 2/6d for six months.
First portable transmitter/receiver licence to 2GA.
- 1927 International Telecommunication Union Conference in Washington established internationally-agreed frequency bands.
Sangster Shield contest started.
- 1928 January, first issue of *Break-In*.
On September 23, Hilton Arthur OZIAN made first overseas contact on 10 metres working Australian station OA3CP in Melbourne.
- 1929 ZL became the amateur radio prefix for New Zealand. NZART admitted to IARU.
Harmonically related bands came into use.
QSL Bureau handled 390 inward cards at a cost of 13/8d.
NZART negotiated a reduction in licence fee from £2/2/- to £1/10/-.
- 1930 March 11, 9 p.m., ZL1AA made contact with F8AW for first 10 metre contact between New Zealand and Europe.
Myrtle Earland, ZL3AG, first YL operator.
- 1931 February 3, Napier earthquake—the genesis of AREC.
QSL Bureau handling outward cards at ½d each within New Zealand and 1d each for overseas.
- 1932 March 6, first AREC Field Day.
Radio Regulations gazetted, increase in morse test speed to 12 wpm.
- 1933 NZART log book available at 1/6d.
Official broadcasts resumed at 15 wpm.
- 1934 Two-way aeronautical mobile contact made on 5 metres (60 MHz) between ZL4BV and ZL4CA.
NZART became an Incorporated Society.
- 1935 TV experiments authorised on the 5 metre band and on wavelengths below 1 metre.
ZL2RC and ZL2OG communicated over a 8.5 mile path on 5 metres.
VK/ZL/OC contest started.
- 1936 First E-M-E attempts, on 5 metres using ICW.
- 1938 First TV article published in *Break-In*.
- 1939 World War II closed down amateur radio for the duration. *Break-In* published in cyclo-styled form throughout.
- 1945 December 8, 7.30 p.m., "H' Night". Amateur radio in New Zealand resumed on 3.5 to 3.96 MHz and 58.5 to 60 MHz only. Morse test at 15 wpm.
- 1946 Memorial Contest started.
50 to 54 MHz made available.
Call Book included in NZART subscription as service to members.
Official broadcasts by ZL2IY commenced.
- 1947 First two-way contact across Cook Strait on 50 MHz.
50 MHz record made by ZL1HY and ZL4BK at 635 miles.
- 1948 First article on SSSC (SSB) in *Break-In*.
First contacts on 2400 MHz, by ZL4BP and ZL4DH.
First two-way trans-Tasman contacts on 50 MHz.
- 1949 The Maori language accepted as plain language for amateur radio.
Name of REC changed to Amateur Radio Emergency Organisation (AREO) but changed almost immediately to Amateur Radio Emergency Corps (AREC).
144 to 148 MHz made available.
144 MHz record contact by ZL3AQ and ZL3JX at 54 miles.
World record 50 MHz contact between ZL4GY and USA.
- 1951 ZL2ACB and ZL3LE make the first inter-district contact 144 MHz.
World record 144 MHz contact, 1340 miles between ZL3AR and VK2AH.
- 1952 Frequency Measuring Contest started.
National Field Day started.
First two-way SSB contact, between ZL1AU and ZL1QS.
First ZL2 to ZL4 contact on 2 metres between ZL2SM and ZL4BN.
21 to 21.45 MHz available.
Examination became 50 multi-choice questions.
- 1953 420 MHz record contact of 50 miles between ZL3AR and ZL3AQ.
- 1954 First two-way contact on 10GHz, between ZL2AKP and ZL2GQ.
First transistor articles in *Break-In*.
First transistorised transmitter, on 160 metres by ZL4GP.
Foreign languages permitted as plain language for amateur radio.
- 1956 First two-way RTTY contact between New Zealand ZL1WB and USA W0BP.
- 1958 On-air demonstration of 405 line TV on 420 MHz by ZL2APC.
- 1959 Midnight January 31, 50 to 51 MHz withdrawn for use by Channel 1 TV.
- 1960 ZL2GX achieves world first 300 DXCC.

- 1961 OSCAR-1 launched December 14, first heard by ZL2HP on December 17
- 1962 Minimum age for amateur operators' certificate reduced to 14 years.
Maximum power limit raised from 100 watts to 150 watts final anode input power.
WARO formed.
- 1963 Doug Gorman ZL2IY awarded MBE in Birthday Honours for services to amateur radio and SAR.
Non-morse licence for operation above 144 MHz introduced.
- 1964 First hand-held 2 metre solid-state transceiver demonstrated by ZL2APC.
- 1965 First all-electronic scanning receiver demonstrated by ZL2APC.
First Auckland to South Island QSO on 144 MHz, by ZL1AZR and ZL2ASF.
- 1966 Integrated circuits mentioned in *Break-In*.
- 1967 First mention of FETs in *Break-In*.
Establishment of beacons on 144, 432 and 1215 MHz approved.
Slowscan TV on HF bands approved.
Reciprocal Licensing introduced.
- 1968 IARU Region 3 Association formed, at Sydney.
- 1969 Use of "Hertz" adopted by NZPO.
World Record E-M-E contact between ZL1AZR and SM7BAE on 144 MHz.
ZM prefix permitted for Cook Bi-centenary.
ZL1WE appointed command station for Australia—OSCAR-5
- 1970 First amateur band repeater authorised in Christchurch.
"Bandplan Committee" formed for 2 m repeaters.
New New Zealand Radio Regulations introduced.
Grades I, II and III replaced the HF permit system.
First participation in JOTA.
- 1971 2 metre FM repeaters established at Whangarei and Waikato.
ITU Space Conference in Geneva.
Birth of Amateur Satellite Service.
Second IARU Region 3 conference, in Tokyo.
- 1972 All grades of operators authorised to work through OSCAR-6.
ZL1WB appointed Command Station for OSCAR-6.
- 1973 Morse speed reduced to 12 wpm for Grade I Operators.
- 1974 ZM prefix permitted for Commonwealth Games.
First full-colour ATV test-pattern transmitted by ZL2TAR.
- 1975 Third IARU Region 3 Conference, in Hong Kong.
- 1976 Use of 1803 to 1813 kHz authorised.
Golden Jubilee of NZART celebrated.
Sir William Pickering guest speaker at conference.
Tone digits first used on a repeater, by ZL2AMJ.
Licence fee raised to \$6.00.
First full-colour cover for *Break-In*.
- 1977 Novice grade licence introduced.
- 1978 40 metres band extended to 7.3 MHz on a non-interference basis.
Fourth IARU Region 3 Conference, in Bangkok.
Wellington ATV repeater operational.
First two-way contact on 24 GHz, by ZL2ARW and ZL2TRV.
- 1979 Licence fee raised to \$10.00.
Hart Postlethwaite WB6CQW guest speaker at Conference.
- WARC in Geneva, NZART paid for an Amateur Service representative (ZL2AMJ) to attend as a member of the New Zealand delegation.
Term of office of President and Council extended to two years.
50 to 50.15 MHz sharing arrangement introduced.
First Cook Strait crossing by two-way ATV, by ZL2TWM and AL2ASF.
First 432 MHz E-M-E contact with USA by ZL2BCG, and K5JL.
432 MHz E-M-E record contact by ZL2BCG and 15MSH.
- 1980 World record E-M-E contact between ZL3AAD and DL9KR on 432 MHz.
QSL Bureau handled 247 000 cards at a cost of \$1300.
Frequency Management Working Group established.
Callsigns made permanent for operators moving between radio districts.
- 1981 Conference opened by His Excellency the Governor-General.
ZL0 prefix introduced for visitors to NZ.
Random 5-letter groups approved for morse broadcasts from approved stations.
144 MHz bandplan changes to 600 kHz offset for FM repeaters.
- 1982 Licence fee raised to \$13.
10.1 MHz band made available.
Non-morse operators permitted on 51 to 53 MHz band.
Fifth IARU Region 3 Association Conference, at Manila.
AREC 50th Birthday celebrations.
Tasman Sea crossed on 1296 MHz, by ZL1AVZ and VK2BDN.
- 1983 World Communications Year, ZM prefix used.
Tom Clarkson ZL2AZ received MBE in Birthday Honours List for services to amateur radio.
New Frequency Allocation List gives extended band at 1.8 MHz, and new bands above 47 GHz, Grade II and Novice Bands at 28 MHz. CW or Phone, identification by RTTY operators no longer a regulatory requirement. Bandplans and emissions for the Amateur Service to regulate.
Packet radio used in New Zealand by ZLs 1AOX, 1WN, 1UEK. World record for packet radio by ZL1AOX and W3IOI on 28 MHz band.
First NZ to Chatham Islands contacts on 144 MHz band by ZL4OY/C and ZL3AR.
First ZL-ZL moon bounce contact between ZL3AAD and ZL2AQE on the 432 MHz band on July 16.
A similar feat achieved on August 15 on the 1296 MHz band.
First 610 MHz contact in ZL by ZL2AQE and ZL2ARW on December 3, between Mt. Kaukau and Kakanui.
World Amateur Radio International Conference (WARIC) held in Tokyo.
- 1984 Chatham, Kermadec, and Auckland/Campbell Islands became ZL7, ZL8, and ZL9 respectively.
Review of Amateur Service by NZPO.
Morse transmission authorised for Grade III operators.
First operation from the top of Mt. Cook (ZL3TIG, hand-held 2 m).
- 1985 18.068 MHz band made available.
Sixth IARU Region 3 Association Conference, at Auckland, with visit by IARU President.

The NZART Badge and Emblem



The NZART Badge (first developed in 1926) comprises a diamond emblem, one unit wide, 2.1 units high, with white or silver lettering and lines on a black background.

The letters NZART in plain block capitals appear.

The symbol for an aerial (two completed triangles), an inductor (two and one-half turns in an anticlockwise direction, descending), and a counterpoise (three radial lines with tips in line) appear neatly between the letters NZ (0.13 units high) and T (0.2 units high) with the letters A and R (0.16 units high) to the left and right of the inductor, respectively. All lines and lettering are 0.02 units thick. The inductor to fit a rectangle 0.18 by 0.32 units. The counterpoise dimensions to be the same as the aerial 0.3 units wide by 0.14 units high. The diamond is outlined with an enclosing line.

The points of the diamond may be sharp, or alternatively, rounded. If rounded, the reduction at the widest point to be 0.02 units and 0.07 units at the top and bottom points.

The tolerance on all dimensions is $\pm 5\%$.

[This specification developed by NZART Council in 1982.]

Break-In of November 1982, page 24, gives more details of the NZART badge.

"Break-In" Wrapper

Please check your *Break-In* wrapper and inform NZART Headquarters of ANY errors, no matter how small.

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Official Journal of the
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2



New Zealand Association of Radio Transmitters

INC

(Founder Member of the International Amateur Radio Union Region 3 Association)



Mail to: GENERAL SECRETARY, NZART HEADQUARTERS, P.O. BOX 40-525, UPPER HUTT, NEW ZEALAND.

PLEASE UPDATE MY EXISTING MEMBERSHIP RECORD AS FOLLOWS ☐ PLEASE ENROL ME AS A NEW MEMBER ☐

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as at April 1, 1985

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 Rait, M. P., ZL474, Longwood, No. 1 R.D., Riverton.
 Rait, S. M., ZL498, Longwood, No. 1 R.D., Riverton.
 Ramsay, R. W., 4 R.S., Eketahuna.
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as at April 1, 1985

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3

Break-In and Call Book by airmail

OVERSEAS MEMBERS MAY RECEIVE *BREAK-IN AND CALL BOOK* BY AIRMAIL IF REQUIRED

APPLY TO THE GENERAL SECRETARY FOR DETAILS

NZART BRANCH DIRECTORY

01 ASHBURTON

Clubroom Address: Vintage Car Club Rooms, Maronan Road, Tinwald, Ashburton.
Branch Callsign: ZL3AF.
Trustee's Callsigns: ZL3AFB; ZL3AQ.
Branch Net Frequency: 144.600.
Date/Time of Net: Mondays 8.30 p.m.
Secretary: J. M. Leadley, ZL3LL.
Postal Address for Correspondence: P.O. Box 361, Ashburton.
President: L. L. Vincent, ZL3UX.
AREC Section Leader: A. F. Chapman, ZL3TKK, 17 Baker Street Ashburton. Phone 7737.
Meeting Information: Second Monday each month except January. Vintage Car Club Rooms. Tinwald. 7.30 p.m.

02 AUCKLAND

Clubroom Address: 400 St John's Road, Meadowbank, Auckland 5. (Down driveway beside Telephone Exchange opposite St. Helens Bay Road intersection).
Branch Callsign: ZL1AA.
Trustee's Callsigns: ZL1CZ; ZL1BBS.
Branch Net Frequency: HF-3.650 MHz. VHF 146.6 MHz.
Date/Time of Net: HF: Mondays 2100 NZST. VHF: Mondays and Wednesdays 2015 NZST.
Secretary: R. N. (Ross) Keatinge, ZL1BNV. Phone 546-471.
Postal Address for Correspondence: P.O. Box 18-003, Glen Innes, Auckland 6.
President: J. S. (John) Rea, ZL1AZR. Phone 589-053.
AREC Section Leader: D. M. (Don) Webster, ZL1CY, 46 Speight Road, Kohimarama, Auckland 5. Phone 555-554 (home), 737-999 Ex 8551 (work).
Deputy Section Leader: D. G. (Dave) Dingley, ZL1TIA, 2139 Great North Road, Avondale, Auckland 7. Phone 889-394 (home), 885-730 (work).
Meeting Information: Third Tuesday of each month from January to November at 7.30 p.m. AGM is on second Tuesday in December. January meeting is informal. AREC meets on the last Wednesday of each month having five Wednesdays.
Radio Classes: Enquire from Secretary.
Other Information: Branch Contact Officers, ZL1AZR and ZL1BNV (as above) or R. J. (Bob) Murphy, ZL1AFU (Phone 560-634). Visitors to Auckland are most welcome at meetings. Clubrooms are often open on Saturday mornings.

03 WESTERN SUBURBS RADIO CLUB INC

Clubroom Address: 3000 GT North Road, New Lynn, opposite Hire Pool.
Branch Callsign: ZL1RK.
Trustee's Callsigns: ZL1ST; ZL1BSL.
Branch Net Frequency: 3570 kHz, 146.525.
Date/Time of Net: HF: 7.30 p.m., non-meeting Mondays. VHF: 7.30 p.m., Thursdays.
Secretary: N. E. Smith, ZL1ST.
Postal Address for Correspondence: P.O. Box 15-122, New Lynn, Auckland 7.
President: David Ash, ZL1BZC.
AREC Section Leader: Andrew Mitchell, ZL3DD, 55 Shoreham Street, Blockhouse Bay, Auckland 7. Phone 887-244 (home), 799-011 (work).
Deputy Section Leader: Kevin Rutter, ZL1ARP. Phone 675-798 (work), 572-890 Ext 838 (work).
Meeting Information: First and third Mondays of each month at 7.30 p.m. except Public Holidays.
Radio Classes: Tuesday at Kelston B.H.S., Wednesday Rutherford H.S. 7.00 p.m., Lecturer ZL1AXT. Phone 768-488.

04 CAMBRIDGE RADIO CLUB

Clubroom Address: "Band Rotunda" Learnington Domain, Scott Street, Learnington, Cambridge.
Branch Callsign: ZL1ASW.
Trustee's Callsign: ZL1HP.
Branch Net Frequency: 146.575, 3.560.
Date/Time of Net: 0900 NZST.
Secretary: R. C. Armstrong, ZL1TSS.
Postal Address for Correspondence: 142 King Street, Cambridge.
President: Des. H. Hamblin, ZL1HP.
AREC Section Leader: A. R. Boyce, ZL1AFV, 26 Shakespeare Street, Learnington. Phone (Cambridge) 6107 (home), (Cambridge) 7169 (work).
Deputy Section Leader: P. E. Collins, ZL1AGS, 185 Victoria Street, Cambridge. Phone (Cambridge) 4654 (home), (Cambridge) 7169 (work).
Meeting Information: Last Tuesday month 7.30 p.m., visitors welcome.
Radio Classes: Mondays 7.30 p.m., Instruction. Tuesday's 7.30 p.m., Construction the Monday meetings are run as work shops with subjects announced on 595 Waikato each Sunday night.

05 CHRISTCHURCH

Clubroom Address: 27 Galbraith Avenue, Christchurch.
Clubroom Telephone Number: 899-626.
Branch Callsign: ZL3AC.
Trustee's Callsign: ZL3RW.
Branch Net Frequency: Christchurch 675.
Date/Time of Net: Sunday, 11.00 a.m.
Secretary: B. B. Halford, ZL3BY.
Postal Address for Correspondence: P.O. Box 1733, Christchurch.
President: J. E. Carruthers, ZL3PE.
AREC Section Leader: Geoff Chapman, ZL3PX, 35 Harrison Street, Christchurch 1. Phone 851-815 (home), 790-900 Ext 842 (work).
Deputy Section Leader: Gareth Bradshaw, ZL3VP, 159 Ashgrove Terrace, Christchurch 2. Phone 35-406 (home), 790-900 Ext 881 (work).
Meeting Information: First Wednesday each month at 7.45 p.m. (Branch and General); Second Wednesday each month at 7.45 p.m. (AREC); Third Wednesday each month at 7.45 p.m. (VHF).
Radio Classes: Tuesday and Thursday 7.00 to 9.00 p.m., February to September. (Enquires to Tricity House Ltd., 209 Manchester Street, Christchurch).
Other Information: Contact information: D. J. Mackay, ZL3RW, Phone 383-211 (home), 60-410 (work); J. E. Carruthers, ZL3PE, Phone 497-441; G. Bradshaw, ZL3VP, Phone 35-406 (home), 790-900 Ext. 881 (work).
Repeater Trustees: D. J. Mackay, ZL3RW.

06 DANNEVIRKE BRANCH N.Z.A.R.T.

Clubroom Address: Civil Defence H.Q.—Corner Queen and Princess Streets, Dannevirke.
Branch Callsign: ZL2IB.
Trustee's Callsign: ZL2ABT.
Branch Net Frequency: 3860 kHz.
Date/Time of Net: Sunday 0930 Hours.
Secretary: O. W. Martin, ZL2OZ.
Postal Address for Correspondence: 21b Cadman Street, Dannevirke.
President: Wayne Jacobsen.
AREC Section Leader: A. E. Law, ZL2HE, Private Bag, Dannevirke. Phone 25-808 (home), 25-808 (work).
Deputy Section Leader: K. Browning, ZL2TPQ, 68 Cole Street, Dannevirke. Phone 6322 (home), 6322 (work).
Meeting Information: Fourth Monday of each month, contact Secretary phone 7415 as possible meeting could be in Woodville.
Repeater Trustees: Keith Browning, ZL2TPQ; Gary Gicag, ZL2TDB.

07 Not Allocated.

08 EASTERN SOUTHLAND

Clubroom Address: C/o W. E. Faulkner, 124 Frank Street, Gore.
Branch Callsign: ZL4AL.
Trustee's Callsign: ZL4AO.
Secretary: W. E. Faulkner, ZL4IN.
Postal Address for Correspondence: 124 Frank Street, Gore.
President: J. Graham, ZL4RO.
AREC Section Leader: R. A. Whyte, ZL4AQ, 7 Charles Street, Gore.
Phone 6793 (home), 7433 (work).
Deputy Section Leader: A. N. Allan, ZL4AO, "Charlton" R.D. 4, Gore.
Phone 7288 (home).
Meeting Information: Fourth Tuesday each month at places arranged.
Repeater Trustees: A. N. Allan, ZL4AO; R. Todd, ZL4TCD.

09 Not allocated.

10 FRANKLIN AMATEUR RADIO CLUB (INC)

Clubroom Address: Stadium Drive, Pukekohe.
Branch Callsign: ZL1SA.
Trustee's Callsign: ZL1US.
Branch Net Frequency: 3700 kHz, 145.00 MHz.
Date/Time of Net: Sunday 9.00 a.m. on 3700 kHz, Sunday 7.30 p.m. on 145.00 MHz.
Secretary: R. Holt, ZL1BBZ, Phone (Waiuku) 59-549 (home), (Waiuku) 58-089 (Auckland) 758-999 (Wellington) 738-118 all Ext. 8745 (work).
Postal Address for Correspondence: 10 Collingwood Rd, Waiuku.
President: R. J. Jeffares, ZL1BTR, Phone (Auckland) 597-688 (home), (Auckland) 263-6421 (work).
AREC Section Leader: N. G. Herrold, ZL1BXX, Hall Road, R.D. 1, Waiuku. Phone (Waiuku) 58794 (home), (Waiuku) 59318 (work).
Deputy Section Leader: C. J. Shaker, ZL1BOT, 18 Mason Avenue, Pukekohe. Phone (Pukekohe) 87-350 (home), (Tuakau) 68-696 (work).
Deputy Section Leader: B. R. Littlewood, ZL1ULI, 34 Mason Avenue, Pukekohe. Phone (Pukekohe) 89-568 (home), (Pukekohe) 89-139, (Auckland) 774-129 (work).
Meeting Information: Third Tuesday every month 8.00 p.m.

11 GISBORNE AMATEUR RADIO CLUB INC.

Clubroom Address: Kaiti Hall, Gisborne.
Branch Callsign: ZL2AA.
Trustee's Callsign: ZL2ANQ.
Branch Net Frequency: 146.90.
Date/Time of Net: Sunday 1100.
Secretary: Keith Isherwood, ZL2BNX.
Postal Address for Correspondence: P.O. Box 1017, Gisborne.
President: Basil Davoren, ZL2UT.
AREC Section Leader: Roly Haisman, ZL2APH, 27 Valley Road, Gisborne. Phone 86-422 (home), 85-098 (work).
Deputy Section Leader: Rib Compter, ZL2AJQ, 35 Endcliffe Road, Gisborne. Phone 88-636 (home), 85-099 (work).
Meeting Information: Every second Monday each month at 7.30 p.m. activities meeting every fourth Monday each month at 7.30 p.m.
Radio Classes: For information contact president or secretary.
Repeater Trustees: ZL2TNP ZL2UBF.

12 HAMILTON RADIO CLUB

Clubroom Address: Seddon Road, Hamilton.
Branch Callsign: ZL1UX.
Trustee's Callsign: ZL1AZZ.
Branch Net Frequency: 3.680 MHz, 146.525.
Date/Time of Net: HF: Monday 7.30 p.m. VHF: Thursday 8.30 p.m.
Secretary: C. R. Hawkins, ZL1BXX.
Postal Address for Correspondence: P.O. Box 606, Hamilton.
President: K. J. Lewis, ZL1RN.
AREC Section Leader: C. V. Tait, ZL1AKI, 2 Grassy Downs Place, Hamilton. Phone 492-616 (home).
Deputy Section Leader: P. G. Darrall, ZL1AZZ, 11 Irene Crescent, Hamilton. Phone 75-757 (home), 78-669 Ext. 72 (work).
Meeting Information: First Wednesday of month at clubroom, Seddon Road.
Radio Classes: Tuesday at 7.30 p.m. at Clubrooms, Seddon Road

13 HASTINGS/HAVELOCK NORTH

Clubroom Address: Civil Defence H.Q. Lyndon Road E, Hastings.
Branch Callsign: ZL2BEI.
Trustee's Callsign: ZL2BIW.
Branch Net Frequency: 3.615 MHz.
Date/Time of Net: Sundays 9.30 a.m. (NZ Time)
Secretary: Jocelyn Wilson, ZL2BAO.
Postal Address for Correspondence: P.O. Box 3060, Hastings.
President: Gwyn Ruschbach, ZL2BIW.
AREC Section Leader: Pete Stevens, ZL2AS, 901 Victoria Street, Hastings. Phone 89-726 (work).
Meeting Information: Every fourth Wednesday of each month at 7.30 p.m. in C.D. H.Q.
Repeater Trustees: ZL2AN (2 m); R. Shepard, ZL2IT (2 m); E. Lilly, ZL2AQR (6 m rpt) R. Crawley.

14 HAWERA AMATEUR RADIO CLUB

Clubroom Address: Civil Defence Room, District Council Building, Albion Street, Hawera.
Branch Callsign: ZL2AWW.
Trustee's Callsign: Roy Simpson, ZL2AYH.
Secretary: Peter Williams, ZL2TOJ.
Postal Address for Correspondence: 132 Manawapou Road, Hawera.
President: Roy Simpson, ZL2AYH.
AREC Section Leader: Ian Wards, ZL2AHA, Lower Manutahi Road, R.D. 2, Patea. Phone (062) 24-222.
Meeting Information: Third Monday every month, Civil Defence room, District Council Building, Albion Street, Hawera.

15 CENTRAL HAWKES RADIO CLUB

Clubroom Address: "Pukeora" Home of Disabled, P.O. Box 591.
Branch Callsign: ZL2AR.
Trustee's Callsign: ZL2ACP.
Branch Net Frequency: 3650 kHz.
Date/Time of Net: Sunday 2000 NZT.
Secretary: J. Simcox, ZL2THK.
Postal Address for Correspondence: P.O. Box 327 Waipukurau.
President: G. M. Gooch, ZL2BCO.
Meeting Information: Third Monday.
Contact officer G. Gooch P.O. Waipukurau, Phone 88-130 Ext. 80.

16 HOROWHENUA

Branch Callsign: ZL2DS.
Trustee's Callsign: ZL2IG.
Branch Net Frequency: 3590 kHz, Levin 720.
Date/Time of Net: HF: 0900 every Sunday. VHF: 1000 every Sunday.
Secretary: E. D. Burnham, ZL2BHH.
Postal Address for Correspondence: 15 Tawa Street, Levin.
President: R. F. Christie, ZL2ARC.
AREC Section Leader: C. J. Donoghue, ZL2BAF, 9 Highfield Place, Levin. Phone (Levin) 87-695 (home).
Deputy Section Leader: R. F. Christie, ZL2ARC, 259 Cambridge Street, Levin. Phone 83-330 (home), 87-035 (work).
Meeting Information: Monthly on fourth Wednesday except December Contact Secretary re venue. Phone 85-970 (home) 48-795 (work).
Repeater Trustees: Levin 720 ZL2CP ZL2BAF.

17 HUNTLY

Club Inactive.

18 HUTT VALLEY

Clubroom Address: Birch Street, Lower Hutt.
Clubroom Telephone Number: 669-951.
Branch Callsign: ZL2HV.
Trustee's Callsigns: ZL2ASO, ZL2ARW.
Branch Net Frequency: 80 m, 2 m.
Date/Time of Net: HF: Sunday at 9.00 a.m. VHF: Wednesday at 7.00 p.m.

Secretary: Mrs E. Rothschild.
Postal Address for Correspondence: P.O. Box 30519, Lower Hutt.
President: B. Wright, ZL2QZ.

AREC Section Leader: B. Sewell, ZL2ASO, 1 Riverside Grove, Wainuiomata. Phone 646-929 (home), 666-919 (work).
Deputy Section Leader: B. Wright, ZL2QZ, 27 Stanley Street, Wainuiomata. Phone 646-433 (home), 666-969 Ext. 714.

Meeting Information: First Monday in the month except June which is second Monday. No meetings in January. Meetings are held in the Hutt Valley Tramping Club Rooms, Birch Street reserve, at 7.30 p.m.

Radio Classes: Held as tutors and students offer. Correspondence course held by Technical Correspondence Institute is encouraged with tutorials as required. Contact the secretary if interested.

Other Information: Repeater is 700. Civil Defence ZL2QZ, B. Wright.
Secretary's address (work) 27 Dudley Street, Lower Hutt.
Repeater Trustees: ZL2ARW, ZL2TAR.

19 INGLEWOOD

Clubroom Address: 34 James Street, Inglewood, Taranaki.
Clubroom Telephone Number: 67-314.
Branch Net Frequency: 146.475.

Date/Time of Net: Every Sunday 8.30 a.m.
Secretary: Tarry Martin, ZL2KV.
Postal Address for Correspondence: P.O. Box 74, Inglewood, Taranaki.

President: Peter Cramer, ZL2AIS.
AREC Section Leader: Tarry Martin, ZL2KV, P.O. Box 74, Inglewood, Taranaki. Phone 67-627 (home), (New Plymouth) 87-609 Ext. 850 (Oaonui) (work).

Deputy Section Leader: J. H. Leitch, ZL2ASL, Dudley Road, Inglewood, Phone 67-421 (home).

Meeting Information: Third Wednesday each month at the clubrooms.

20 MANAWATU AMATEUR RADIO SOCIETY

Clubroom Address: Totara Road, Palmerston North.
Branch Callsign: ZL2KO.
Trustee's Callsign: ZL2GU.

Branch Net Frequency: 3.5 MHz, 695.
Date/Time of Net: HF: Sunday 9.30 a.m. VHF: Thursday 8.00 p.m.
Secretary: Shirley Thompson, ZL2TBX.

Postal Address for Correspondence: Box 1718, Palmerston North.
President: Stan Matthews, ZL2FB.
AREC Section Leader: Bryan Jardine, ZL2TPJ, 9 Weston Avenue, Palmerston North. Phone 83-199 (home).

Meeting Information: Branch Meetings first Wednesday of month 7.30 p.m. at clubrooms. Committee meetings third Wednesday 7.30 p.m.

Radio Classes: Tuesdays 7.30 p.m. at clubrooms, construction evenings second and fourth Wednesdays.

Repeater Trustees: Harry Wiggins, ZL2BFR; Pete Moore, ZL2AUB.

21 MANUKAU RADIO CLUB INC.

No information received.

22 MARLBOROUGH

Clubroom Address: Hegglin Hall, (CDHQ), Wither Road, Extensions, Blenheim.

Clubroom Telephone Number: 87-039.
Branch Callsign: ZL2KS.

Trustee's Callsigns: ZL2BGQ, ZL2AZE.
Branch Net Frequency: 3570 kHz.
Secretary: Don Jamieson, ZL2BJS.

Postal Address for Correspondence: P.O. Box 432, Blenheim.
President: Grant Simpson, ZL2BK.

AREC Section Leader: Neville Marr, ZL2BVE, 22 Dillon Street, Blenheim. Phone 81-527 (home), 84-259 (work).
Deputy Section Leader: Frank Stretch, ZL2AZE, 122 Muller Road, Blenheim. Phone 89-814 (home), 87-039 (work).

Meeting Information: Second Thursday of each month at 8.00 p.m.

Repeater Trustees: Grant Simpson, ZL2BK; Ken Menzies, ZL2BJV.

23 MARTON

No information received.

24 MOTUEKA BRANCH

Clubroom Address: Old Courthouse High Street, Motueka.
Branch Callsign: ZL2GK.
Secretary: M. J. Lark, ZL2UDC.
Postal Address for Correspondence: Motueka Quay, Motueka.
President: J. R. Scott, ZL2ADX, phone 88-960.
AREC Section Leader: Jim Ross, ZL2VF.
Meeting Information: Contact secretary.
Repeater Trustees: Jim Jackson, ZL2BCG; Roger Fowler, ZL2BHL.

25 NAPIER AND DISTRICTS BRANCH 25 N.Z.A.R.T.

Clubroom Address: 123 Latham Street, Napier.
Branch Callsign: ZL2ABJ.
Trustee's Callsign: ZL2ALO.
Branch Net Frequency: 147.25.
Date/Time of Net: Tuesday 8.30 p.m.
Secretary: John Breen, ZL2TUX.
Postal Address for Correspondence: P.O. Box 4030, Napier.
President: J. McGonigal, ZL2AKG.
AREC Section Leader: Stan White, ZL2AHC.
20 Herley Crescent, Napier. Phone 436-410 (home), 53-299 Ext. 845 (work).

Deputy Section Leader: Mike Bull, ZL2VM, 51 Liverpool Crescent, Napier. Phone 436-052 (home), 53-299 Ext. 809 (work).

Meeting Information: Meeting Information: 7.30 p.m. third Sunday in month at the clubrooms.

Radio Classes: Hawke's Bay Community College.
Other Information: Other Information: Contact Officer, Marilyn Thorp, ZL2BOA, Phone 434-238.

Repeater Trustees: Repeater Trustees: L. Winton, ZL2TIS; D. Walker, ZL2TSX.

26 NELSON AMATEUR RADIO CLUB (Inc.)

Clubroom Address: Maitai Valley, Nelson.
Branch Callsign: ZL2ARG.
Trustee's Callsign: ZL2BP.
Branch Net Frequency: VHF Murchison 680 Net; HF 3890 kHz.
Date/Time of Net: Wednesdays (except Club night) 2000 on VHF; Sundays 0900 on HF.

Secretary: Andrew Mackie, ZL2THG.
Postal Address for Correspondence: P.O. Box 463, Nelson.
President: Peter Hawke, ZL2AFM.

AREC Section Leader: John Garrad, ZL2BMO, 8 Alfred Sheat Street, Richmond. Phone RD8884 (home), RD6079 (work).

Deputy Section Leader: Andrew Mackie, ZL2THG, 8 Tarata Street, Stoke, Nelson. Phone NN77-584 or NN79-425 (home), NN79-699 (work).

Meeting Information: Fourth Wednesday of each month (except December) commencing at 1930 hours at the Clubrooms.

Radio Classes: At Nelson Polytechnic. Phone NN81-189 during office hours for further information.

Other Information: Visitors most welcome. A varied and interesting programme including auctions, hidden transmitter hunts, videos and computers.

Repeater Trustees: Dave Scott ZL2BCA, Doug Fitzsimmons ZL2TJB.

27 NEW PLYMOUTH AMATEUR RADIO CLUB

Clubroom Address: CD HQ, Marshland Hill, New Plymouth.
Branch Callsign: ZL2BON.
Trustee's Callsign: ZL2LE.

Branch Net Frequency: New Plymouth 720.
Date/Time of Net: Sunday 1000 hours.
Secretary: John Mynhill, ZL2ACL.

Postal Address for Correspondence: P.O. Box 675, New Plymouth.
President: Ross Kennedy (until May 1985), ZL2BOT.

AREC Section Leader: Wayne Gaudin, ZL2VN/ZL2EB, 18 Trafalgar Street, New Plymouth. Phone 35-800 (home), 79-092 (work).

Deputy Section Leader: David Leask, ZL2AYU, 11 Cannon Street, New Plymouth. Phone 33-493 (home), 510-680 (work).

Meeting Information: Branch meeting third Tuesday at 1930 hours.

Radio Classes: As arranged by Taranaki Polytech.

Other Information: AREC Deputy: John West, ZL2ADW, 17 Chesney Street, Bell Block, New Plymouth. Phone 70-635 (home), 86-165 (work).

Repeater Trustees: Andy Fleming ZL2TKP, Chris Rickards ZL2TKA.

28 NORTHLAND BRANCH

Branch Callsign: ZL1AM.
Trustee's Callsigns: ZL1BFS, ZL1AF.
Branch Net Frequency: Whangarei 720; 3740 kHz.
Date/Time of Net: Each Monday at 7.30 p.m. on 720; Each Sunday at 9.00 a.m. on 3740.
Secretary: Allan Walker, ZL1BHC.
Postal Address for Correspondence: P.O. Box 711, Whangarei.
President: Bruce Hill, ZL1BRZ.
AREC Section Leader: John Ramsay, ZL1KG, 120 Kamo Road, Whangarei, Phone 71-904 (home), 83-059 (work).
Deputy Section Leader: Mike Thompson, ZL1BWV, P.O. Box 10, Maungatapu, Phone MPE312.
Meeting Information: First Wednesday of each month at 7.30 p.m. at Northland Community College, Raumanga.
Radio Classes: Every Thursday from March 21 until September examination, 7.30-9.30 at Northland Community College.
Repeater Trustees: Doug Birt, ZL1BFS; Ian Ogier, ZL1AF.

29 NORTH SHORE BRANCH

Clubroom Address: Kennedy Park, 145 Beach Road, Castor Bay.
Branch Callsign: ZL1AB.
Trustee's Callsigns: ZL1BHQ, ZL1AUW.
Branch Net Frequency: 3780 kHz.
Date/Time of Net: Sunday mornings at 0900.
Secretary: Val Collins, ZL1GB.
Postal Address for Correspondence: P.O. Box 33358, Takapuna 9.
President: Peter Smith, ZL1ARB.
AREC Section Leader: Alan Wooller, ZL1AUW, 40 Powrie Street, Glenfield 10, Phone 444-2423 (home), 527-069 (work).
Deputy Section Leader: Terry James, ZL1UFY, 12 McHardy Place, Glenfield 10, Phone 444-6384 (home).
Meeting Information: First Monday of each month except June when second Monday. Informal meetings at Clubrooms every Saturday 9.30 a.m. to noon.
Radio Classes: Westlake Boys' High School. Also recommend Technical Correspondence Institute Amateur Radio Study Course.

30 OTAGO

Clubroom Address: 109 Macandrew Road, Dunedin.
Clubroom Telephone Number: 53-003.
Branch Callsign: ZL4JY.
Trustee's Callsigns: ZL4MK.
Branch Net Frequency: Dunedin 690.
Date/Time of Net: Sundays at 9.00 a.m.
Secretary: K. A. Hand, ZL4QD.
Postal Address for Correspondence: P.O. Box 5485, Dunedin.
President: T. E. Miller, ZL4BL.
AREC Section Leader: W. Black, ZL4TGM, 46 Hawthorne Avenue, Dunedin, Phone 36-263 (home), 741-414 (work).
Meeting Information: Each Wednesday at 8.00 p.m. except late December and early January.
Radio Classes: Held at Otago Polytechnic, Commence May.
Other Information: Contact Officers: ZL4AL, ZL4OQ. Keith and Brenda Shaw, Phone 62-618.
Repeater Trustee: R. W. G. Kingston, ZL4MK.

31 PAHIATUA

Clubroom Address: Main Road North.
Branch Callsign: ZL2SP.
Trustee's Callsign: ZL2VJ.
Branch Net Frequency: 3570 kHz.
Date/Time of Net: Tuesdays at 8.00 p.m.
Secretary: H. J. Angelini, ZL2VJ.
Postal Address for Correspondence: R.D. 2 Pahiatua.
President: R. W. Brown, ZL2ACK.
AREC Section Leader: P. Johnson, ZL2BNP, 6 Huia Street, Pahiatua, Phone 8094 (home), 7456 (work).
Deputy Section Leader: G. Johnson, ZL2TZL, Oete Road, Pahiatua, Phone 7736 (home), 8433 (work).
Meeting Information: Second Tuesday each month.

32 RAHOTU COASTAL

No information received.

33 ROTORUA AMATEUR RADIO CLUB (Inc)

Clubroom Address: Amohau Street, Rotorua.
Branch Callsign: ZL1AVG.
Trustee's Callsign: ZL1BLR.
Branch Net Frequency: 147.350 MHz.
Date/Time of Net: Each Friday at 8.00 p.m.
Secretary: Bill Wilson, ZL1BOJ.
Postal Address for Correspondence: P.O. Box 1984, Rotorua.
President: Len Fish, ZL1BLR.
AREC Section Leader: Phil King, ZL1PK, Phone 85-024 (home).
Deputy Section Leader: Peter Anderson, ZL1AHJ, Phone 86-488 (home).
Meeting Information: Club meets second Tuesday, each calendar month.
Radio Classes: Waiariki Community College.
Other Information: Visitors always welcome.
Repeater Trustees: Brian Crook, ZL1SKC; Phil King, ZL1PK.

34 SOUTH CANTBURY

No information received.

35 SOUTH OTAGO

Clubroom Address: Main South Road, Balclutha.
Branch Callsign: ZL4JF.
Trustee's Callsign: ZL4HD.
Branch Net Frequency: 3565 kHz.
Date/Time of Net: Weekly on Mondays at 8.00 p.m.
Secretary: John R. Lochhead, ZL4QS.
Postal Address for Correspondence: P.O. Box 251, Balclutha.
President: L. D. Perin, ZL4RD.
AREC Section Leader: Gordon Jones, ZL4BA, 8 Yarc Lane, Balclutha, Phone 80-590 (home), 82-023 (work).
Deputy Section Leader: Noel Willetts, ZL4DZ, 23 Yarmouth Street, Balclutha, Phone 82-409 (work).
Meeting Information: First Tuesday each month (except January) at 8 p.m.

36 SOUTH WESTLAND

Clubroom Address: Civil Defence HQ, Hokitika Airport.
Branch Callsign: ZL3RS.
Trustee's Callsign: ZL3BH.
Secretary: J. A. Claridge, ZL3VG.
Postal Address for Correspondence: C/- Motor Camp, Hokitika.
President: G. Bowman, ZL3BH.
AREC Section Leader: J. Hogan, ZL1AJQ, 141 Hall Street, Hokitika.
Meeting Information: Third Tuesday at Civil Defence HQ. Contact Secretary for details.
Radio Classes: Contact J. Hogan.

37 SOUTHLAND BRANCH (Inc.)

Clubroom Address: 249 Eltrick Street, Invercargill.
Clubroom Telephone Number: 88-686.
Branch Callsign: ZL4GQ.
Trustee's Callsigns: ZL4OX, ZL4TFJ.
Branch Net Frequency: 680 FM.
Date/Time of Net: Every Sunday at 8 p.m.
Secretary: John Willoughby, ZL4FV.
Postal Address for Correspondence: P.O. Box 1260, Invercargill.
President: Doug Faulkner, ZL4FS.
AREC Section Leader: Neville Checketts, ZL4OX, 21 Highfield Terrace, Invercargill, Phone 66-599 (home), 66-599 (work).
Deputy Section Leader: Malcolm Davidson, ZL4NO, 34 View Street, Invercargill, Phone 68-564 (home).
Deputy Section Leader: Mike Cockeram, ZL4IC, 262 Ythan Street, Invercargill, Phone 84-845 (home).
Meeting Information: Third Tuesday each month (except January) at 8 p.m. at Clubrooms. AREC Meetings, first Tuesday of each month (except January) at 7.30 p.m.
Radio Classes: Enquire R. N. Checketts, ZL4OX, P.O. Box 1260, Invercargill, or Phone 66-599. Classes held Monday evenings.
Other Information: Contact Officer Malcolm Davidson, ZL4NO, 34 View Street, Invercargill.
Repeater Trustees: Neville Checketts, ZL4OX; Cliff Shirreffs, ZL4TFJ.

38 TAUMARUNUI

Clubroom Address: Reservoir Hill, Rangaroa, Taumarunui.
Clubroom Telephone Number: 9788.
Branch Callsign: ZL1ATO.
Trustee's Callsigns: ZL1LX.
Branch Net Frequency: 147.150 MHz.
Date/Time of Net: Sundays at 2000 hours.
Secretary: Martin Morrissey, ZL1UJA.
Postal Address for Correspondence: P.O. Box 141, Taumarunui.
President: Lew Palmer, ZL1TIG.
AREC Section Leader: Ross Walker, ZL1AAF, 273 Taupo Road, Taumarunui, Phone 7901 (home), 7901 (work).
Deputy Section Leader: John Clarkson, ZL1UJX, 16 Hautu Village, Turangi, Phone 5501 (home), 8627, ext. 899 (work).
Meeting Information: Second Monday each month at 7.30 p.m. Contact Secretary for venue.
Repeater Trustees: Ross Walker, ZL1AAF; Martin Morrissey, ZL1UJA; Lew Palmer, ZL1TIG.

39 TAURANGA AMATEUR RADIO CLUB

Clubroom Address: 16th Avenue, Tauranga.
Branch Callsign: ZL1TP.
Trustee's Callsign: ZL1BOW.
Branch Net Frequency: 3.600 MHz.
Date/Time of Net: Sundays at 9 a.m.
Secretary: W. S. Whyte, ZL1BYR.
Postal Address for Correspondence: P.O. Box 6003, Tauranga.
President: Mr J. V. Collins, ZL1BNW.
AREC Section Leader: D. J. Murphy, 7 Harris Street, Mt. Maunganui, Phone 53-388 (home), 88-088, ext. 43 (work).
Deputy Section Leader: E. J. Medley, ZL1BBU, 10 Grosmont Terrace, Tauranga, Phone 63-256 (home), 84-199 (work).
Meeting Information: First Thursday each month at 1930 hours at the Clubrooms.
Radio Classes: Wednesdays 1900-2100 hours (March to September).
Other Information: VHF Net Wednesday at 2030 hours on 680 repeater.
Repeater Trustees: P. A. Gillett, ZL1QI; M. R. Glasgow, ZL1BOM.

40 TE AWAMUTU AMATEUR RADIO CLUB

Clubroom Address: Civil Defence Rooms, Bank Street, Te Awamutu.
Branch Callsign: ZL1CB.
Trustee's Callsign: ZL1AOM.
Branch Net Frequency: 3865 kHz.
Date/Time of Net: Tuesday at 8.00 p.m. and Thursdays at 9.00 p.m.
Secretary: Sam Gillgren, ZL1AOE.
Postal Address for Correspondence: P.O. Box 583, Te Awamutu.
President: Richard Hoban, ZL1AHW.
AREC Section Leader: Ewen Parsons, ZL1LP, 10 Bridgman Road, Te Awamutu, Phone 5487 (home), 6747 (work).
Meeting Information: Third Wednesday each month.

41 THAMES

Branch Callsign: ZL1DF.
Trustee's Callsign: ZL1BCW.
Branch Net Frequency: 3650 kHz.
Date/Time of Net: Sundays at 0900 hours.
Secretary: K. W. Hayhurst, ZL1ATU.
Postal Address for Correspondence: 204 Mill Street, Thames.
President: H. C. Webber, ZL1BCW.
AREC Section Leader: K. W. Hayhurst, ZL1ATU, 204 Mill Street, Phone 87-330 (home), 88-688 (work).
Meeting Information: Second Wednesday each month at 7.45 p.m.
Contacts: President: Phone 86-475; Secretary: Phone 87-330.
Radio Classes: Weekly—Contact H. C. Webber, ZL1BCW, Phone 86-475.

42 TITAHİ BAY

Clubroom Address: Tireti Hall, Tireti Road, Titahi Bay.
Branch Callsign: ZL2AFV.
Trustee's Callsign: ZL2GQ.
Branch Net Frequency: 3710 kHz.
Date/Time of Net: Sundays at 11 a.m.
Secretary: Paul Newland, ZL2TVV.
Postal Address for Correspondence: 25a Tawa Terrace, Tawa.
President: Yvonne Marr, ZL2ALF.
AREC Section Leader: Des Coote, ZL2LO, 19 Corlett Road, Plimmer-ton, Phone 338-392 (home).
Meeting Information: First Tuesday of each month (except January) at 7.30 p.m. at the Clubrooms.
Other Information: Repeater, Titahi Bay 875. Contact Officer: Jim Hurst, ZL2BK1.
Repeater Trustees: Jim Hurst, ZL2BK1; Ian Clifford, ZL2TCF.

43 WAIHI AND DISTRICTS AMATEUR RADIO CLUB

Clubroom Address: Martha Street, Waihi.
Clubroom Telephone Number: Waihi 7141.
Branch Callsign: ZL1BAE.
Trustee's Callsign: ZL1BAS.
Branch Net Frequency: 3.825 MHz; 146.575 MHz.
Date/Time of Net: HF: Sunday 9 p.m.-9.15 p.m.; VHF: Sunday 9.15 p.m.
Secretary: M. L. (Rina) Field (Mrs), ZL1ACL.
Postal Address for Correspondence: P.O. Box 93, Waihi.
President: Peter Anderson, ZL1LR.
AREC Section Leader: Allan Bott, ZL1AWI, River Road, Karagahake, Via Paeroa, Phone (0816) 8887 (home), (08163) 7019 (work).
Deputy Section Leader: George Field, ZL1AHO, 11 Featon Road, Waihi, Phone (08163) 7240.
Meeting Information: First Wednesday of each month (except January) at 7.30 p.m. at Clubrooms.

44 MATAMATA RADIO CLUB

Branch Callsign: ZL1RF.
Trustee's Callsign: ZL1AGA.
Branch Net Frequency: 3560 kHz.
Date/Time of Net: Sunday at 0900 hours.
Secretary: I. M. Perkins, ZL1BFH.
Postal Address for Correspondence: 74 Tawari Street, Matamata.
President: J. W. Rasmussen, ZL1AGA.
AREC Section Leader: W. W. Coates, ZL1GQ, 25 Tamihana Street, Matamata, Phone 7107 (home).
Deputy Section Leader: J. W. Rasmussen, ZL1AGA, 65 Smith Street, Matamata, Phone 8269 (home), 8058 (work).
Meeting Information: Second Wednesday each month at 1930 hours in Staff room of Matamata Borough Council.
Other Information: Contact member L. D. B. Hardwick, Broadway Pharmacy, Matamata.

45 WAIMARINO

Branch Callsign: ZL2MG.
Trustee's Callsign: ZL2AVL.
Secretary: G. W. Luscombe, ZL2AVL.
Postal Address for Correspondence: 5 Main Road, Waiouru.
President: D. Inkster, ZL2BL1.
AREC Section Leader: G. W. Luscombe, ZL2AVL, 5 Main Road, Waiouru, Phone 56-707 (home).
Meeting Information: Please contact Secretary for information.

46 WAIRARAPA

Clubroom Address: Mania Road, Hood Aerodrome, Masterton.
Branch Callsign: ZL2OA.
Trustee's Callsign: ZL2FC.
Branch Net Frequency: 146.8 MHz.
Date/Time of Net: Sundays 8 p.m. (Daylight saving time 8.30 p.m.)
Secretary: Mrs Jeanette Lambert, ZL2UDV.
Postal Address for Correspondence: P.O. Box 860, Masterton.
President: Arthur Dew, ZL2BLE.
AREC Section Leader: Jeff Sayer, ZL2TFZ, 55 Cockburn Street, Masterton, Phone 83406 (home).
Deputy Section Leader: Colin Coutts, ZL2FC, Daniel Street, Masterton, Phone 80-426 (home), 80169 (work).
Meeting Information: Second Monday each month at 7.30 p.m. at Clubrooms.
Repeater Trustees: Jeff Sayer, ZL2TFZ; Robin Reeve, ZL2FZ.

47 WAITARA

Clubroom Address: Waitara Borough Council Chambers, Queen Street, Waitara.
Branch Callsign: ZL2TO.
Trustee's Callsign: ZL2AQA.
Secretary: Sid McKain, ZL2BIF.
Postal Address for Correspondence: 1354, Devon Road, R.D. 42, Waitara.
President: Lindsay Dickson, ZL2BBZ.
AREC Section Leader: Jonathon Herbert, ZL2UGD, Mataro Road, R.D. 45, Urenui, Phone 441 (home).
Meeting Information: First Sunday of each month.

48 WANGANUI AMATEUR RADIO SOCIETY (Inc.)

Clubroom Address: Deerstalkers Hall, 2 Peat Street.
 Branch Callsign: ZL2JA.
 Trustees' Callsigns: ZL2AUS, ZL2BGE.
 Branch Net Frequency: 3.66 MHz.
 Date/Time of Net: Sunday, 7.30 p.m.
 Secretary: Barry Stewart, ZL2AUS.
 Postal Address for Correspondence: P.O. Box 7058, St. Johns, Wanganui.

President: Alec Smith, ZL2BDC
 AREC Section Leader: Craig Mills, ZL2MD, 43 Great North Road, Wanganui, Phone 50-766 (home), 54-109 (work).
 Deputy Section Leader: Bob Jeffers, ZL2AAQ, 42 Raine Street, Wanganui, Phone 32-107 (home), 54-109 (work).
 Meeting Information: First non-Public Holiday Monday each month (except January) at 7.30 p.m.
 Radio Classes: Contact Wanganui Community College.
 Other Information: Contact/Publicity Officer: Godfrey Gray ZL3BB, Phone 45-644 (home), 58-564 (work).
 Repeater Trustees: P. A. Doney, ZL2TDI; L. Boyle, ZL2BGE.

49 WESTLAND BRANCH

Branch Callsign: ZL3DN.
 Trustee's Callsign: ZL3TK.
 Secretary: Kevin D. O'Sullivan, ZL3ABY.
 Postal Address for Correspondence: C/- 16 Ashmore Avenue, Cobden.

President: Eric W. Belcher, ZL3QY.
 AREC Section Leader: Eric W. Belcher, ZL3QY, 47 Cowper Street, Greymouth, Phone 6764 (home), 5039 (work).
 Deputy Section Leader: D. W. W. Sleeman, ZL1THA, Power Road, Greymouth, Phone 6630 (home), 7069 (work).
 Meeting Information: First Wednesday in month (except January) at 7.30 p.m. in Greymouth Borough Council Chambers.
 Radio Course: Interested people on correspondence course. Where needed members give assistance.
 Other Information: Contact Officer: Zaida Garlick ZL3AAB, 23 Lydia Street, Greymouth, Westland repeater 695.
 Repeater Trustees: R. J. Boote, ZL3ADH; D. W. W. Sleeman, ZL1THA.

50 WELLINGTON

Clubroom Address: M.E.D. Cafeteria, Webb Street, Wellington.
 Branch Callsign: ZL2WB.
 Trustee's Callsign: ZL2AQC.
 Branch Net Frequency: 3570 kHz.
 Date/Time of Net: Sundays at 11.00 a.m.
 Secretary: W. J. Chisholm, ZL2TSF.
 Postal Address for Correspondence: P.O. Box 6464, Te Aro, Wellington.

President: Trevor King, ZL2AKW.
 AREC Section Leader: Steve Carran, ZL2SR, 26 Arawa Road, Hataitai, Phone 861-615 (home), 859-159 ext. 838 (work).
 Deputy Section Leader: J. R. Rumsey, ZL2LZ, 21 Malone Road, Lower Hutt, Phone 696-787 (home), 721-569 ext. 768 or 712 or 898 (work).
 Meeting Information: Third Tuesday each month (except December) at 7.30 p.m.
 Other Information: Projects Officer: Mike Kerr, ZL2BCW, Phone 793-913 (home).

51 EASTERN BAY OF PLENTY

Clubroom Address: Waiewe Street, Whakatane.
 Clubroom Telephone Number: WHK 87-000.
 Branch Callsign: ZL1AIU.
 Trustee's Callsign: ZL1AOF.
 Branch Net Frequency: 3722 kHz.
 Date/Time of Net: Mondays at 1900 hours.
 Secretary: E. W. Horwood, ZL1KI.
 Postal Address for Correspondence: P.O. Box 2165, Whakatane.
 President: Alan McDonald, ZL1PI.
 AREC Section Leader: Murray Evans, ZL1SZ, Henderson Street, Whakatane, Phone 88-409 (home), 88-249 (work).
 Deputy Section Leader: Colin Shaw, ZL1CS, Wedgewood Place, Whakatane, Phone WHK 85-566 (home).
 Meeting Information: Second Wednesday each month (except January) at 1930 hours.
 Radio Classes: Thursdays, Whakatane High School.
 Other Information: Contact Officer: Alan McDonald, ZL1PI, Phone WHK 88-957.

52 NORTHERN HAWKES BAY

No information received.

53 TE PUKE

State Highway No. 2 next to Te Puke Holiday Park and Hostel.
 Branch Callsign: ZL1TH.
 Trustee's Callsign: ZL1BJG.
 Branch Net Frequency: 3.6 MHz; 146.8 MHz.
 Date/Time of Net: HF: Sundays 0900 hours, VHF: Wednesdays 2030 hours.
 Secretary: M. Neno, ZL1ARL.
 Postal Address for Correspondence: No. 4 Road, R.D. 3, Te Puke.
 President: M. F. Gray, ZL1BJG.
 AREC Section Leader: E. A. A. Brown, ZL1IB, 20 Gilmore Street, Te Puke, Phone 38-722 (home).
 Deputy Section Leader: F. I. Gibbs, ZL1ARZ, 22 Fairview Place, Te Puke, Phone 39-643 (home).
 Meeting Information: Second Tuesday each month at 1930 hours at Clubrooms. Committee: First Saturday afternoon each month; i.e. before each Club meeting.
 Radio Classes: Hobbies class Saturdays 1300 hours at Clubrooms. Theory class (as required) Saturdays 1500 hours at Clubrooms.
 Other Information: Branch Nets are combined Tauranga/Te Puke. Callsign ZL1TP, ZL1TH depends on Net Controller.

54 PATEA

Branch Callsign: ZL2QF.
 Trustee's Callsigns: ZL2TLY, ZL2KW, ZL2BJI.
 Secretary: D. W. Robinson, ZL2BJI.
 Postal Address for Correspondence: P.O. Box 438, Hawera.
 President: Alan Meads, ZL2AHI.
 AREC Section Leader: Graeme Bateman, ZL2BHD, 54 Murray Avenue, Hawera, Phone 84-793 (home).
 Deputy Section Leader: John Gunn, ZL2TLY, Main South Road, Manatahi, Phone 24-127 (home), 24-125 (work).
 Meeting Information: Third Monday each month at Hawera Primary School.
 Repeater Trustees: John Gunn, ZL2TLY; Graeme Palmer, ZL2KW.

55 WAITOMO RADIO CLUB

Clubroom Address: Thompson Avenue, Otorohanga.
 Clubroom Telephone Number: 8907.
 Branch Callsign: ZL1IZ.
 Trustee's Callsign: ZL1BZ.
 Branch Net Frequency: 3850 kHz; 146.850 MHz kHz.
 Date/Time of Net: HF: Monday 2000 hours, VHF: Sunday 0900 hours.
 Secretary: Jacki Ellis, ZL1TCP.
 Postal Address for Correspondence: P.O. Box 316, Te Kuiti.
 President: Eric Carter, ZL1IM.
 AREC Section Leader: Russell Young, ZL1AZB, 29a George Street, Te Kuiti, Phone 87-359 (home), 88-132 (work).
 Deputy Section Leader: Ithian Howitt, ZL1BZ, 15 Frederick Street, Otorohanga, Phone 7349 (home), 8871 (work).
 Meeting Information: First Thursday each month (except January) at 7.30 p.m. (8.00 p.m. daylight saving time).
 Radio Classes: Monday evenings at 7.30 p.m. at Clubrooms at Otorohanga.
 Repeater Trustees: Russell Richardson, ZL1TUL; Jeff Northcott, ZL1TWA.

56 CHRISTCHURCH WEST AMATEUR RADIO CLUB

Clubroom Address: Holmes Park, English Street, Upper Riccarton.
 Branch Callsign: ZL3VV.
 Trustee's Callsigns: ZL3BJ, ZL3ACS.
 Secretary: R. A. Wise, ZL3ADL.
 Postal Address for Correspondence: C/- P.O. Box 31-095, Ilam, Christchurch 4.
 President: J. R. L. Walker, ZL3IB.
 Meeting Information: Meetings held fourth Wednesday of each month at lounge, Oddfellows Lodge Hall, Brake Street, Upper Riccarton. Premises open 7.30 p.m. Visitors welcome.
 Other Information: Morse classes at Holmes Park Clubrooms. Contact phone for Secretary: 499-631.
 Repeater Trustees: G. Halliburton ZL3GI; M. O. Hely, ZL3TIB.

57 TOKOROA

Clubroom Address: Strathmore Park, Tokoroa.
Branch Callsign: ZL1AQR.
Trustee's Callsign: ZL1ALS.
Branch Net Frequency: 7025 kHz.
Date/Time of Net: Fridays at 2000 hours.
Secretary: Louis Marsh.
Postal Address for Correspondence: P.O. Box 16, Tokoroa.
President: Duncan Frew, ZL1UIO.
AREC Section Leader: George Wilson, ZL1AZC, 1 Kiwi Street, Tokoroa. Phone 69-247 (home), 61-999 (work).
Meeting Information: Third Monday each month (except January) at 1930 hours at the Clubrooms.
Repeater Trustees: Erwin Penwarden, ZL1TDV; Neil Walsh, ZL1UGH.

58 HELENSVILLE

in recess.

59 MANGAKINO AMATEUR RADIO CLUB

Branch Callsign: ZL1BBV.
Trustee's Callsigns: ZL1ATK, ZL2RX.
Branch Net Frequency: 7225 repeater.
Date/Time of Net: Mondays at 7.30 p.m.
Secretary: Alan Wallace, ZL1AMW.
Postal Address for Correspondence: P.O. Box 93, Mangakino.
President: Dick Millar, ZL1ATK.
AREC Section Leader: Alan Wallace, ZL1AMW, 27 Whakamaru Village, Mangakino, Phone 28-524 (home), 28-217 (work).
Deputy Section Leader: Warren Harland, ZL1UML, 23 Maraetai Village, Mangakino, Phone 28-810 (home), 28-039 (work).
Meeting Information: Held in members' homes—contact Secretary for information.
Radio Classes: As required—contact Secretary.
Repeater Trustees: Dick Millar, ZL1ATK; Alan Wallace, ZL1AMW.

60 TAUPO

Clubroom Address: Taupo County Depot, Spa Road, Taupo.
Clubroom Telephone Number: 84-602.
Branch Callsign: ZL1BCO.
Trustee's Callsign: ZL1BBL.
Branch Net Frequency: 675 repeater.
Date/Time of Net: Mondays at 2200 hours.
Secretary: Ian Greaves, ZL1BYV.
Postal Address for Correspondence: 28 Acacia Bay Road, Taupo.
President: John Bowers, ZL1APM.
AREC Section Leader: Merv Taylor, ZL1BBL, 9 Earle Place, Acacia Bay, Taupo, Phone 88-281 (home).
Deputy Section Leader: John Bowers, ZL1APM, 104 Hinemoa Avenue, Taupo, Phone 89-801 (home), 48-216 (work).
Meeting Information: Meetings held at Branch Clubrooms on first Thursdays of month at 2130 hours.
Repeater Trustees: Peter Butcher, ZL1BFA; Ian Greaves, ZL1BYV.

61 CENTRAL OTAGO

Clubroom Address: Alexandra Fire Station, Centennial Avenue.
Branch Callsign: ZL4OO.
Trustee's Callsigns: ZL4DJ, ZL4GG.
Branch Net Frequency: 3660 kHz.
Date/Time of Net: Tuesdays at 8 p.m.
Secretary: D. Mulder, ZL2UAV.
Postal Address for Correspondence: 4 Schaumann Street, Alexandra.
President: Peter Helms, ZL4TAS.
AREC Section Leader: Ewan C. Mason, ZL4TKS, 49 John Street, Ranfurly, Phone RNF 146-D (home), RNF 146-M (work).
Deputy Section Leader: Jim Aldridge, ZL4TKJ, 4a Lanes Road, Alexandra, Phone 6677 (home), Clyde 878 (work).
Meeting Information: Second Tuesday each month at Clubrooms.
Repeater Trustees: A. Blee, ZL4THT; J. Richardson, ZL4JM.

62 REEFTON-BULLER

Clubroom Address: 8 Queen Street, Westport.
Branch Callsign: ZL3WP.
Trustees' Callsigns: ZL3AFN, ZL3ADB.
Branch Net Frequency: 3.880 MHz.
Date/Time of Net: Sundays at 8 p.m.
Secretary: G. W. Lobb, ZL3PB.
Postal Address for Correspondence: 64 Peel Street, Westport, Phone 7461.
President: W. J. Currie, ZL3TJ.
AREC Section Leader: J. Griffiths, ZL3AFN, 105 Brougham Street, Westport, Phone 8399 (home), 7259 (work).
Deputy Section Leader: G. Crase, ZL3ADB, 59 Wakefield Street, Westport, Phone 7116 (home), 7259 (work).
Meeting Information: First Monday each month (except January) unless Statutory Holiday, then next Monday.
Radio Classes: Check with Secretary for instruction and books available.
Other Information: Repeater frequency 675. (Also channel 8 AM).
Repeater Trustees: ZL3AFN; ZL3ADB.

63 UPPER HUTT

Clubroom Address: Rear of Upper Hutt City Council Buildings, Fergusson Drive, Upper Hutt (next to Civil Defence Headquarters).
Clubroom Telephone Number: 288-769 ext. 847 (day) 288-764 (evenings).
Branch Callsign: ZL2VH.
Trustee's Callsign: ZL2ACT.
Branch Net Frequency: 730; 860.
Date/Time of Net: Continuous.
Secretary: Peter Norden, ZL2SJ.
Postal Address for Correspondence: P.O. Box 40-212, Upper Hutt.
President: Norm Cuttriss, ZL2IR.
AREC Section Leader: Geoff Smith, ZL2BDW, 1299 Fergusson Drive, Upper Hutt, Phone 268-866 (home), 673-154 (work).
Deputy Section Leader: Jim Meachen, ZL2BHF, 31 Perry Street, Silverstream, Phone 278-694 (home), 666-969 (work).
Meeting Information: First Monday of each month (except January).
Radio Classes: Held between March and April. Contact Secretary for current information.
Other Information: Contact Officer: ZL2AKV, Phone 282-170 (day-time only).
Repeater Trustees: Gavin Smith, ZL2ACT.

64 NORTH OTAGO

Clubroom Address: Reservoir Road, Oamaru.
Branch Callsign: ZL4OU.
Trustee's Callsign: ZL4FE.
Branch Net Frequency: 3850 kHz; Oamaru 670.
Secretary: D. J. Browne, ZL4TFS.
Postal Address for Correspondence: 23 Hayle Street, Oamaru.
President: N. McLeod, ZL4THN.
AREC Section Leader: D. L. Bokser, ZL4TFF, 3 Earn Street, Oamaru, Phone 45-480 (home), 47-444 (work).
Deputy Section Leader: A. J. Craig, ZL4KM, 3 Milner Street, Oamaru, Phone 71-995 (home), 47-444 (work).
Meeting Information: Second Monday each month.
Other Information: Contact Officer: D. L. Bokser, 3 Earn Street, Oamaru, Phone 45-480.
Repeater Trustees: A. Craig, ZL4KM; N. McLeod, ZL4THN; N. McConnochie, ZL4FE.

65 PAKAPURA RADIO CLUB (Inc.)

Clubroom Address: 2a Wood Street, Papakura.
 Clubroom Telephone Number: 299-8871 (Bus.), 299-8874 (A/H).
 Branch Callsign: ZL1VK.
 Trustee's Callsign: ZL1AKY.
 Branch Net Frequency: 3.755 MHz; 146.475 MHz.
 Date/Time of Net: HF: Sunday mornings 0900 (local). VHF: Sunday mornings 0930 (local).
 Secretary: L. A. F. Stockley, ZL1TZV.
 Postal Address for Correspondence: P.O. Box 397, Papakura.
 President: M. Passau, ZL1AKX.
 AREC Section Leader: M. Passau, ZL1AKX, P.O. Box 628, Papakura, Phone 299-4575 (home).
 Deputy Section Leader: R. Gamble, ZL1BNQ, 11a Sunnypark Avenue, Papakura, Phone 299-6189 (home), 299-5662 (work).
 Meeting Information: Second Wednesday of each month at 1930 hours (local). AREC Section: Meets Clubrooms fifth Wednesday of each month (where appropriate) in Clubrooms at 1930 hours (local).
 Other Information: Newsletter Editor: Dave Johnston, ZL1AMN. Awards: Carol Johnston, ZL1AJL, P.O. Box 397, Papakura.

66 AUCKLAND VHF GROUP (Inc.)

Clubroom Address: Hazel Avenue, Mt. Roskill, Auckland.
 Branch Callsign: ZL1BQ.
 Trustee's Callsign: ZL1BPR.
 Branch Net Frequency: 146.900 MHz.
 Date/Time of Net: Sundays at 8.15 p.m.
 Secretary: Julie Cooke, ZL1UEX.
 Postal Address for Correspondence: P.O. Box 10-138, Balmoral, Auckland 4.
 President: Vaughan Henderson, ZL1TGC.
 AREC Section Leader: D. Webster, ZL1CY, 46 Speight Road, Kohimarama, Auckland 1, Phone 555-554 (home), 737-999 ext. 8564 (work).
 Deputy Section Leader: Dave Dingley, ZL1TIA, 2139 Great North Road, Avondale, Auckland 7, Phone 889-394 (home), 885-730 (work).
 Meeting Information: Second Mondays of each month at 7.30 p.m.
 Radio Classes: Tuesday Nights, 7.30 p.m. at Mt. Roskill Grammar.
 Other Information: Contact phone numbers: 418-1071 or 478-7549.
 Repeater Trustees: Colin McKenzie, ZL1ARC; Quentin Foreman, ZL1BPW.

67 KAWERAU AMATEUR RADIO HOBBIES CLUB

Clubroom Address: ATC Hall, Onslow Street, Kawerau.
 Branch Callsign: ZL1KW.
 Trustee's Callsign: ZL1BGE.
 Secretary: R. J. Dyer, ZL1UMC.
 Postal Address for Correspondence: 5 Browne Street, Kawerau.
 President: J. D. Fitzpatrick, ZL1TYC.
 AREC Section Leader: G. R. Whitwell, ZL1BGE, 274 River Road, Kawerau, Phone 7175 (home), 7799 (work).
 Deputy Section Leader: D. McLellan, ZL1BPV, 1 Short Street, Kawerau, Phone 8277 (home).
 Meeting Information: Third Wednesday of each month at 7.30 p.m.
 Other Information: Contact phone numbers: Secretary KEU 6199; President KEU 7159.
 Repeater Trustee: Edgecumbe 700, G. R. Whitwell, ZL1BGE.

68 NORTH CANTERBURY AMATEUR RADIO CLUB

Clubroom Address: Borough Council Yard, Percival Street, Rangiora.
 Branch Callsign: ZL3RR.
 Trustee's Callsign: ZL3QC.
 Branch Net Frequency: 3665 kHz.
 Date/Time of Net: Monday preceeding second Thursday of each month at 8.30 p.m.
 Secretary: G. H. Gillman, ZL3QR.
 Postal Address for Correspondence: P.O. Box 89, Rangiora.
 President: Mrs A. S. McMaster, ZL3VR.
 AREC Section Leader: Mrs A. S. McMaster, ZL3VR, Greens Road, R.D. 1, Kaiapoi, Phone 8278 (home).
 Meeting Information: Second Thursday of each month (except January) at 7.30 p.m.
 Radio Classes: Tuesday evenings at Hawarden High School. Wednesday evenings at Clubrooms, Rangiora.

69 KAPITI

Clubroom Address: McLean Street, Paraparaumu Beach (above Moeller Menswear).
 Clubroom Telephone Number: 87-132.
 Branch Callsign: ZL2KB.
 Trustee's Callsign: ZL2MC.
 Branch Net Frequency: 146.525 MHz.
 Date/Time of Net: Sundays at 8.00 p.m.
 Secretary: Peter Scott, ZL2TVO.
 Postal Address for Correspondence: P.O. Box 1608, Paraparaumu Beach.
 President: Hank Murdoch, ZL2BJZ.
 AREC Section Leader: Dave Scholfield, ZL2ARD, 34 Kiwi Road, Raumati Beach, Phone (058) 88-841 (home) (058) 85-146 (work).
 Deputy Section Leader: Len Blackley, ZL2TFP, 26 Kaitawa Crescent, Paraparaumu, Phone (058) 87-048 (home), (058) 87-048 (work).
 Meeting Information: Alternate Wednesdays at 8.00 p.m. at Clubrooms.
 Radio Classes: Contact Hank Murdoch, ZL2BJZ, Phone (058) 88-918.
 Repeater Trustees: 685—Len Blackley, ZL2TFP. 885—Len Blackley, ZL2TFP; Steven Jepson, ZL2TUV.

70 FEILDING RADIO CLUB

Clubroom Address: Community Centre, Fergusson Street, Feilding.
 Clubroom Telephone Number: 35-548.
 Branch Callsign: ZL2AMR.
 Trustee's Callsign: ZL2PT.
 Secretary: A. J. Abel, ZL2QR.
 Postal Address for Correspondence: P.O. Box 416, Feilding.
 President: G. J. Hitchman, ZL2BNA.
 AREC Section Leader: G. J. Hitchman, ZL2BNA, Colyton Road, Feilding, Phone 35-847 (home).
 Deputy Section Leader: A. J. Abel, ZL2QR, 20 Ranfurly Road, Feilding, Phone 36-538 (home).
 Meeting Information: Second Monday each month in Clubrooms at 8.00 p.m.
 Radio Classes: Contact Secretary.

71 RODNEY

Clubroom Address: Civil Defence Buildings, School Road, Wellsford.
 Clubroom Telephone Number: WFD 8139.
 Branch Callsign: ZL1BYT.
 Trustee's Callsigns: ZL1AHK, ZL1AZU.
 Branch Net Frequency: 3740 kHz.
 Date/Time of Net: Sundays at 0900 hours.
 Secretary: B. C. Nelson, ZL1AZU.
 Postal Address for Correspondence: 59 Percy Street, Warkworth.
 President: D. S. Brown, ZL1UNR.
 AREC Section Leader: R. G. Sanson, ZL1TBG, 57a Bertram Street, Warkworth, Phone WW 8474 (home), WW 8059 (work).
 Deputy Section Leader: L. Vujcich, ZL1TTY, Goatley Road, Warkworth, Phone WW 8290 (home).
 Meeting Information: Second Wednesday each month (except January and December) at 2000 hours. Venues vary between Clubrooms Wellsford and County Office Warkworth.
 Radio Classes: Support with TCi Course.
 Other Information: Contact Officers: Warkworth, Ron Dawson, Phone WW 7111 (home), WW8112 (work); Wellsford, Alan Dale, Phone WFD 8938 (home).
 Repeater Trustees: W. Tester, ZL1AHK, Phone WW 7299; A. Dale, ZL1ABL, Phone WFD 8938.

72 OPOTIKI RADIO CLUB

No information received.

73 NORTHERN Wairoa ELECTRONICS CLUB

No information received.

74 WELLINGTON VHF GROUP (Inc.)

Clubroom Address: MED Cafeteria, Webb Street, Wellington.
Branch Callsign: ZL2WA.
Trustee's Callsign: ZL2ARW.
Branch Net Frequency: Wellington 850; Belmont 710.
Date/Time of Net: Continuous.
Secretary: Gail and Murray Milner, ZL2NZ and ZL2LB.
Postal Address for Correspondence: P.O. Box 12-259, Wellington North.
President: David Andrews, ZL2SX.
AREC Section Leader: John Rumsey, ZL2LZ, 21 Malone Road, Lower Hutt, Phone 696-787 (home), 721-569 (work).
Deputy Section Leader: John Yaldwyn, ZL2TRV, 107 Kampur Road, Broadmeadows, Phone 783-222 (home), 856-729 (work).
Meeting Information: Last Thursday of each month at 7.30 p.m.
Radio Classes: Contact Secretary.
Other Information: Contact Officer: Ken Johnston, ZL2TTJ, Phone 795-786.
Repeater Trustees: Peter Williams, ZL2ARW, Terry Osborne, ZL2BAC, John Yaldwyn, ZL2TRV, Doug Ingham, ZL2TAR.

75 QUEENSTOWN

Branch Callsign: ZL4NQ.
Trustee's Callsign: ZL4KW.
Secretary: Mark Nicholls.
Postal Address for Correspondence: P.O. Box 79, Wakatipu.
President: Murray McCutcheon, ZL4OA.
AREC Section Leader: Russ Watson, ZL4JW, 13 Oregon Drive, Kelvin Heights, Phone 1229R (home), 538 (work).
Deputy Section Leader: Doug Virtue, ZL4PV, P.O. Box 18, Kingston, Phone Garston 585 (home).
Meeting Information: Irregular meetings second Thursday of each month at 8.00 p.m. For further information contact Secretary Phone 297 (work) or members on Queenstown 685 repeater.
Repeater Trustees: Russ Watson, ZL4JW, Dave McLaren, ZL4TIQ.

76 KAIKOURA RADIO CLUB

Clubroom Address: 90 Churchill Street, Kaikoura.
Clubroom Telephone Number: 100.
Trustee's Callsigns: ZL3PZ, ZL3GF.
Branch Net Frequency: 690 MHz.
Date/Time of Net: Saturdays at 7.30 p.m.
Secretary: W. A. Bool, ZL3GF.
Postal Address for Correspondence: C/- P.O. Box 24, Kaikoura.
President: C. E. Evans, ZL3HM.
AREC Section Leader: W. B. Jackson, ZL3PZ, 42 Churchill Street, Phone 153 (work).
Meeting Information: Second Monday each month.
Repeater Trustees: W. B. Jackson, ZL3PZ; W. A. Bool, ZL3GF.

77 TE AROHA AND DISTRICTS RADIO CLUB

Clubroom Address: Rewi Street, Te Aroha.
Clubroom Telephone Number: 48-026.
Branch Callsign: ZL1BSM.
Trustee's Callsigns: ZL1BJK.
Branch Net Frequency: 3883 kHz.
Date/Time of Net: Tuesdays 0830 NZST.
Secretary: D. G. Horn, ZL1UNX.
Postal Address for Correspondence: P.O. Box 24, Te Aroha.
President: J. H. Sanne, ZL1VH.
AREC Section Leader: B. W. McConnochie, ZL1BWK, 8 Farmer Street, Te Aroha, Phone 48-871 (home), 48-189 (work).
Deputy Section Leader: S. A. Abbot, ZL1UIG, 9 Hanna Street, Te Aroha, Phone 49-832 (home), 49-083 (work).
Meeting Information: Third Tuesday each month.

78 FAR NORTH DISTRICTS AMATEUR RADIO CLUB

Branch Callsign: ZL1BG.
Trustee's Callsigns: ZL1BAY, ZL1AZJ.
Branch Net Frequency: Far North 710; 3.665 MHz.
Date/Time of Net: HF: Sundays at 8 p.m. VHF: Thursdays at 8 p.m.
Secretary: Russell Shackleton, ZL1BOK.
Postal Address for Correspondence: P.O. Box 81, Kaitia.
President: Stan Sutherland, ZL1AZJ.
AREC Section Leader: Stan Sutherland, ZL1AZJ, Ruaroa Road, Kaitia, Phone 1497D (home).
Deputy Section Leaders: Kaitia: Brian Tarlton, ZL1BAY, 8 North Road, Kaitia, Phone 961 (home). Kerikeri: Don Cottle, ZL1HH, Rainbow Falls Road, R.D. 2, Kerikeri, Phone 79-086 (home). Kaikohe: Dan Fletcher, ZL1THE, 24 Guy Road, Kaikohe, Phone 609 (home).
Meeting Information: Second Wednesday each odd month in member's homes.
Radio Classes: Contact Brian Tarlton, Phone 961 Kaitia.
Repeater Trustees: Far North 710—Stan Sutherland ZL1AZJ; Brian Tarlton, ZL1BAY, Kaikohe 715—Brian Tarlton, ZL1BAY; Trevor Crossell, ZL1UBQ.

79 HOWICK AND DISTRICTS RADIO CLUB

Clubroom Address: Wellington Street, Howick.
Branch Callsign: ZL1TB.
Trustee's Callsign: ZL1AOC.
Branch Net Frequency: 3.820 MHz.
Date/Time of Net: Sundays at 0900 hours.
Secretary: Bert Toomey, ZL1AQX.
Postal Address for Correspondence: P.O. Box 82170, Highland Park.
President: Tony Marsden, ZL1LM.
Meeting Information: First Wednesday each month in at 7.30 p.m.
Other Information: VHF Net 146.575 MHz Wednesdays at 2000 hours.
Repeater Trustee: A. M. Hamilton, ZL1AOC.

80 HIBISCUS COAST AMATEUR RADIO CLUB (Inc.)

Clubroom Address: Leighton Heights, Whangaparaoa Road, Whangaparaoa.
Clubroom Telephone Number: HBC 45-195.
Branch Callsign: ZL1HO.
Trustee's Callsigns: ZL1AG, ZL1APC.
Branch Net Frequency: 3720 kHz.
Date/Time of Net: Sundays at 0900 hours.
Secretary: A. Kinnell.
Postal Address for Correspondence: P.O. Box 65, Whangaparaoa.
President: Trevor Ferguson, ZL1FU.
AREC Section Leader: Trevor Ferguson, ZL1FU, 55 Cochrane Avenue, Arkles Bay, Whangaparaoa, Phone HBC 47-423 (home), AK 275-0789 ext. 718 (work).
Deputy Section Leader: Jack Freeman, ZL2VU, 88 Marellan Drive, Red Beach, Phone HBC 65-115 (home).
Meeting Information: Generally fourth Monday each month (except December when second Monday) at 7.30 p.m. Committee meetings second Wednesday each month at 7.30 p.m.

81 WAIKATO VHF GROUP INC.

No information received.

82 SOUTHERN WAIRARAPA AMATEUR RADIO CLUB

Clubroom Address: P.O. Box 163, Featherston.
Branch Callsign: ZL2BPP.
Trustee's Callsign: ZL2QW.
Secretary: Pauline Carr, ZL2QW.
Postal Address for Correspondence: P.O. Box 163, Featherston.
President: Neil Rait, ZL2BLM.
Meeting Information: To be decided.
Other Information: Information re membership etc. contact ZL2QW Phone FSTN 89-576 or ZL2UEB, Phone Carterton 7867.

AFFILIATED GROUP HAWKES BAY VHF GROUP (Inc.)

Branch Net Frequency: Napier 725; UHF repeater 438.70 MHz (870).
Date/Time of Net: Tuesday 2030 hours.
Postal Address for Correspondence: P.O. Box 4030, Napier.
Meeting Information: Last Sunday in month at Branch 25 Clubroom at 1930 hours and alternate months at Irongate Kindergarten Flaxmere.

There is a Yaesu agent near you.

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PALMERSTON NORTH—ZL28BW

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171 Victoria Street
WANGANUI—ZL2MD

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47 Kimbolton Road
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Business World Computers Wai Ltd
AA Building, 91 Chapel Street
MASTERTON—ZL2ACN

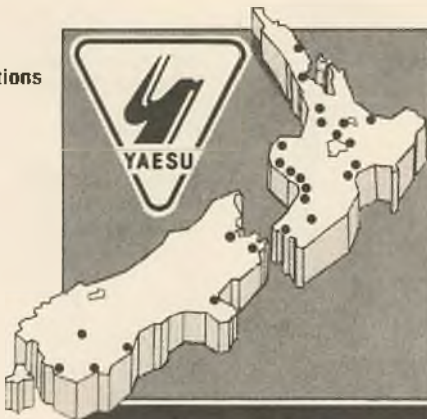
Electronic Maintenance
Lyttleton Avenue
PORIRUA—ZL2UDL

Peter Williams
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HAWERA—ZL2TQJ, ZL1BIC

Radio Doctor
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Hataitai, WELLINGTON—ZL2AHS

Lankshear Electronics
16 Scott Street
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CHRISTCHURCH—ZL3RW

Dunstan Electronics
PO Box 6
CLYDE—ZL4THL

Basil North Ltd
116 St Andrews Street
DUNEDIN—ZL4NH

Dennis Spiers Electronics Ltd
17 Hannah Street
WHANGAREI—ZL1UHU

C.B. Ellytronics
14 Handley Place
WHANGAREI—ZL1AAU

Southern Cross Electronics
224D Kepa Road
Mission Bay
AUCKLAND—ZL1AAA, ZL1BQA, ZL1FV

Richardson's Communications
Phillips Avenue
OTOROHANGA—ZL1TWA, ZL1TUL

Penwarden's Radio TV Service
PO Box 325
TOKOROA—ZL1TUV

Protech Electronics
64 View Road
ROTORUA

Te Kauwhata Electronics
Aimo Street
TE KAUWHATA

Mediflex Ltd
20 Wynard Street
DEVENPORT—ZL18RO

Reid & Huljich
469 Great South Road
OTAHUHU—ZL1TRL

Tauranga TV Services
PO Box 2044
TAURANGA SOUTH—ZL1AKW

Whakatane Appliances
The Strand
WHAKATANE—ZL1KK

Personal Communications Systems
PO Box 16106
Glenview, HAMILTON—ZL1AZY

Kaikoura Radio & Electrical
47 West End
KAIKOURA—ZL3PZ, ZL3ABP

Southland Electronics
PO Box 1210
INVERCARGILL—ZL4OD, ZL4PR

Stewart Electronics Ltd
Main Street
GORE—ZL4JL

A. Ellery & Son Ltd
Mackay Street
GREYMOUTH—ZL3ADH

KM Electronics
84 Stafford St
TIMARU—ZL3ABK

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Communications Division
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(09)760-129

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P.O. Box 830
(04)851-279

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Prices at January 1985

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☐ All prices are subject to alteration without notice. Members will be advised of the balance due before delivery. Watch *Break-In* for up-to-the-minute stock position.

☐ Remittance MUST accompany all orders.

☐ Some publications may be out of stock at time of ordering. All orders will be recorded and members will be advised of approximate delivery date.

(Overseas Postage Extra)

NZART PUBLICATIONS DEPARTMENT

P.O. Box 40-525
UPPER HUTT
NEW ZEALAND

Video Tape Library

Listed below are current titles of video tapes held in the Headquarters video tape library for loan to Branches. The only charge is for postage. Each tape comes within the 500 gram non-standard second-class mail rate at 60c and this can be multiplied up for more than one tape posting.

However, a quick turnaround of tapes is essential for the scheme to operate. Don't put the tape away in a drawer after your Branch meeting. Have it in the post the same evening. Once Branch held on to a tape for six months and one other circulated among Branches without advising Headquarters.

Titles are:

1. All China RDF Competition.
2. The Happy Flyers EDF.
3. Moving up to Amateur Radio plus A Ham's Wide World.
4. The Aerial Circus with Dud Charman, G6CJ.
5. Amateur Radio's Newest Frontier (W5LFL).
6. Yaesu Productions.
7. NAREC 50, Branch 24.
8. Communications—The Hidden Revolution by NZPO.
9. Integration and Launch of AMSAT OSCAR-10.

Applications to:

R. N. Copeland, ZL2AKV, General Secretary.



F.M.W.G. FREQUENCY MANAGEMENT WORKING GROUP

The Frequency Management Group is responsible to Council for the development of bandplans and recommendations for each Amateur band, the drafting of policy documents pertaining to operation on each band, the preparation of documentation for World Administrative Radio Conferences, and the co-ordination of Amateur repeaters and beacons in New Zealand.

Members are: Fred Johnson, ZL2AMJ (Chairman); Jamie Pye, ZL2NN (Secretary); Merv Passau, ZL1AKX; Tom Bevan, ZL1THG; Ted Barnes, ZL2TAX; David Andrews, ZL2SX; and Craig Crawford, ZL3TLB. Technical Consultant: Doug Ingham, ZL2TAR.

All correspondence should be addressed to:

SECRETARY, FMWG,
33 Wyndham Road,
Pinehaven,
UPPER HUTT.



MONITORING SERVICE

R. E. KNOWLES, ZLIBAD

The NZART Monitoring Service is part of a world-wide organisation of Amateur monitoring stations that are concerned with the activities of non-amateur stations in amateur bands.

The aim of the Monitoring Service is the preservation of the Amateur exclusive bands and the protection of Amateur privileges in shared bands.

The objects of the Monitoring Service is to identify, report, and have removed, from Amateur Bands all non-amateur stations operating in breach of the ITU Convention and Regulations.

Reports on "Intruders" should be sent to ZLIBAD—*Call Book* address.

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Ionospheric Prediction Service

1. The ionospheric prediction charts published monthly in *Break-In* are compiled from data supplied by the Ionospheric Prediction Service of the Australian Department of Science and Technology. These show in graphical form both the optimum working frequency (OWF) and the absorption limiting frequency (ALF) for a representative selection of circuits from Wellington.
2. The OWF can be taken to be the highest frequency that will be usable for 90 per cent of the time. It is normally 15 per cent lower than the predicted maximum usable frequency (MUF). Generally, the OWF will be within ± 15 per cent of the predicted value unless a large ionospheric disturbance occurs. However, there will be occasions when frequencies considerably above the predicted frequency will be usable.
3. The ALF (sometimes referred to as the lowest usable high frequency) is the frequency below which normal communication on a given path is not possible because of absorption in the ionosphere. The value of the ALF is subject to considerable spread and cannot be precisely defined. At frequencies near the ALF, reception depends largely on the radiated power, receiver sensitivity and signal-to-noise ratio.
4. From the foregoing it can be seen that for any particular circuit, communication should be possible on all frequen-

cies between the OWF and the ALF. Where the ALF is shown as tending to zero, the transmission path concerned will be in darkness and communication at that time could be possible on all bands below the OWF.

5. The circuits listed in *Break-In* have been chosen to give as wide a coverage as possible, noting that the predictions are valid for places up to some hundreds of kilometres from the cities designated. For places outside these limits, it may be possible to derive an approximate figure for places in the same general area or direction.
6. Except as shown, predictions are for the shortest route to the distant point. Note that the short route to London lies approximately northwest and the long route approximately southeast from New Zealand. However, as southwestern Europe lies nearly at the antipodes of New Zealand, other transmission paths to this area are possible under certain conditions. Long route propagation to other areas may also be possible at times. A great circle azimuthal map based on Wellington will be found helpful for DX work.
7. Finally, there is no substitute for experience in DX operating, and necessarily simplified predictions extending over a whole month can only be useful as a general guide. Experience will soon confirm that there are considerable variations from the predicted values.

Morse Code Training

by PETER SMITH, ZL1ARB

Sooner or later, every would-be amateur is faced with the problem of learning the Morse Code. How this is attempted will, of course, depend on the student's particular circumstances but it has now been established that for the majority of learners, any problems associated with mastering the code stem directly from the manner of their introduction to it.

In the past it was considered necessary to learn the letters by sight before attempting to recognise their sounds. This led to the creation of what were called "plateaux" or barriers at particular speeds or levels of attainment. They were often so difficult to overcome that many students considered themselves incapable of learning what is basically a simple set of 30 or so sounds.

The only method that ensures success is one based on the aural rather than the visual senses and the set of introductory cassettes available from Premier Learning Systems does just this. Though not an official NZART project or activity the manager of Premier Learning Systems does offer NZART members an attractive discount upon proof of membership.

These tapes do not make learning CW easy or effortless but for the candidate forced to study alone or at inconvenient times the programme is undoubtedly the best value available in New Zealand and is only a fraction of the cost of comparable overseas systems.

The current range of tapes include:

Identity	Content	Normal NZART	
C-ONE	Introduction to Morse. Five C-60 cassettes covering the alphabet in 20 sessions with spoken accompaniment	\$20.00	\$16.00
C-TWO	Random 5-letter groups with a printed checklist, 7-10 wpm	\$4.50	\$3.50
C-THREE	Random 5-letter group with a printed checklist, 10-15 wpm	\$4.50	\$3.50
C-FOUR	Plain language texts in three minute segments with spoken checklist, 8-12 wpm	\$4.50	\$3.50
C-FIVE	Plain language text in three minute segments with spoken checklist 10-15 wpm	\$4.50	\$3.50
C-SIX	Numerals 0-9 with full and abbreviated zero and spoken accompaniment	\$4.50	\$3.50
C-SEVEN	Random letters, figures and some special characters with printed checklist. At the higher speeds this is a difficult tape but does provide excellent training for DX working. Speed range 10-15 wpm	\$4.50	\$3.50

Apply Premier Learning Systems
NOT the General Secretary

TRADITION IS WONDERFUL

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*NOW, you CAN learn CW easier and
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\$20 per set

With special discounts for members

Premier Learning Systems
P.O. Box 73-073
Auckland International Airport

The NZART QSL Bureau

How the QSL Bureau operates

The purpose of the NZART QSL Bureau is to facilitate the exchange of QSL cards between NZART members and with radio amateurs in other countries.

Most national radio societies operate a QSL bureau for the benefit of their members. Some make an extra charge for this service, while others, of which NZART is one, provide it free as a service to their members.

When the cards arrive at the bureau those destined for abroad are sorted into countries, tied into parcels and despatched in bulk to the appropriate overseas QSL bureaux which are operated by member societies of the International Amateur Radio Union.

The NZART QSL Bureau is one of the network of bureaux established throughout the world by the IARU to provide a service to all members. Cards are sent regularly to these bureaux from New Zealand. However, there are many countries without bureau facilities and amateurs operating there usually have QSL managers.

NZART Bureau cannot guarantee to deliver cards to these amateurs or their managers. To assist the bureau in these cases please write the QSL manager's callsign on the back of the card.

Use of the bureau is not claimed to be the quickest way to exchange cards but it is the cheapest.

A free service is provided by NZART.

For the service to continue members are requested to follow the simple rules which are designed to help the voluntary bureau staff.

Outward Cards

Send all QSL cards for onward transmission to the QSL Manager at the address below:

NZART QSL BUREAU
P.O. BOX 40-212
UPPER HUTT

When sending your cards to the bureau please follow these rules:

- (1) Print the **callsign** of the person to whom the card is addressed clearly and in **large letters** on **both sides** of the card so that it may be seen at a glance.
- (2) Sort all cards
 - (a) into New Zealand Call Areas, and
 - (b) into USA Call Areas (W1/K1, AA1/N1, W2/K2, AA2/N2), and
 - (c) Australian Call Areas, and
 - (d) all others into alphabetical order.
- (3) Pack all cards the same way round.
- (4) Pack the cards in securely; the use of flimsy envelopes may result in cards breaking loose in transit.
- (5) Weigh all packets carefully before despatch in order to ensure that adequate postage is paid.
- (6) Choose QSL cards which do not exceed normal postcard dimensions (140 × 90 mm). Large cards invariably have to be folded, while small cards are difficult to handle. Photocopy paper is not a substitute for cards and will not be accepted.
- (7) Enclose either the address label from the current *Break-In* wrapper OR 10c for each card enclosed.

Cards received **without** the wrapper will be treated as non-members' cards and charged accordingly.

Inward Cards

Cards for despatch to stations within New Zealand are sorted into one of the following groups:

ZL1

ZL3/4

ZL2

ZL5 to 9

and sent to a sub-bureau where the sub-manager associates the cards with the envelopes he holds on file.

The sub-bureaux are arranged in callsign groups NOT areas. If you are a ZL1 living anywhere in New Zealand your cards are held by the ZL1 sub-bureau. Similarly with ZL2, ZL3 and ZL4.

Addresses of Sub-Bureaux

ZL1—J. Small ZL1KQ.

32 Paddington Street,
Glen Innes,
Auckland 6.

ZL2—Titahi Bay Branch, NZART

100 Tireti Road,
Titahi Bay.

ZL3/4—T. J. McKenzie ZL3RK.

73 Cygnet Street,
Christchurch 9.

ZL5/9—J. Reed ZL2AH.

P.O. Box 40-212,
Upper Hutt.

Collecting cards from the Bureau

Supply your QSL Sub-Bureau with stamped, self-addressed envelopes (of size not less than 170 × 170 mm), preferably manila.

Make sure your address is legible on the self-addressed, stamped envelope. Print your **callsign** on the front of the envelope. The sub-bureau deals only with **callsigns** not with operator's names.

Any specific requests for forwarding cards should be printed on the back of the envelope.

These instructions can be:

"send when 20 cards"

"send when weighs 250 g"

"send end of month July"

or similar requests.

Envelopes should be numbered and "Last Envelope" marked on one so that the recipient automatically knows when to renew the supply. Envelopes stamped with higher value stamps are not sent until the appropriate postage weight of cards has accumulated.

Packet post is the most economical rate for sending cards to the bureau. Make sure that the postage stamps are the correct value. Remember the bureau has to pay double the deficient postage plus a surcharge.

General Notes

- (1) Cards for amateurs who have neglected to send envelopes are retained for **six months**, after which the cards are destroyed. Amateurs who do not wish to collect cards should notify the QSL Bureau accordingly.
- (2) Overseas members of NZART in countries where there is no QSL service operated by the IARU member society for that country, may send their cards to the NZART QSL Bureau for distribution.

- (3) Overseas amateurs who are not members of NZART may send cards addressed to ZL stations only direct to the NZART QSL Bureau.
- (4) The facilities of the NZART QSL Bureau are available both to transmitting and receiving members of the Association. Listeners are reminded, however, that their reports should contain sufficient information to be of genuine value to the transmitting members concerned. Reception reports relating to short-wave broadcasting stations cannot be accepted.
- (5) Licensed ZL amateurs who are non-members of NZART may send stamped self-addressed envelopes to the sub-manager for collection of their cards.
- (6) The outgoing service is available to non-members for 10c per card.
- (7) Cards received without the *Break-In* wrapper or the current remittance will not be processed.
- (80) USA has 10 bureaux, Australia has 9 bureaux. Please sort cards accordingly. Unsorted cards receive low priority.

LIST OF COUNTRIES OPERATING QSL BUREAUX

Alaska	Czechoslovakia	Hong Kong	Montserrat	South Africa
Algeria	Denmark	Hungary	Morocco	Spain
Andorra	Djibouti	Iceland	Nauru	Sri Lanka
Angola	Dominica	India	Netherlands	St. Lucia
Antigua	Dominican Republic	Indonesia	Netherlands Antilles	St. Vincent
Argentina	Ecuador	Iraq	New Caledonia	Sudan
Austral/French	Egypt	Iran	Nicaragua	Surinam
Antarctic Islands	El Salvador	Ireland	Nigeria	Svalbard
Australia	Faroe Island	Israel	Northern Ireland	Swaziland
Austria	Fiji Islands	Italy	Norway	Sweden
Azores	Finland	Ivory Coast	Oman	Switzerland
Bahamas	France	Jamaica	Pakistan	Syria
Bahrain	French Guiana	Japan	Panama	Thailand
Bangladesh	French Oceania	Jordan	Papua New Guinea	Togo
Barbados	Gambia	Kenya	Paraguay	Tonga
Belgium	German	Korea	Peru	Transkei
Bermuda	Democratic Rep.	Kuwait	Philippines	Trinidad & Tobago
Bolivia	German Federal Rep.	Lebanon	Poland	Turkey
Brazil	Ghana	Liberia	Portugal	USA
Brunei	Gibraltar	Liechtenstein	Puerto Rico	Uruguay
Canada	Great Britain	Luxembourg	Rhodesia	USSR
Canal Zone	Greece	Madeira Island	Romania	Vanuatu
Cape Verdi Republic	Greenland	Malawi	Rwandi	Vatican
Cayman Island	Guhan	Malaysia	Samoa	Venezuela
Chile	Guadaloupe	Malta	San Marino	Virgin Islands
China	Guatemala	Marshall Islands	Scotland	Wales
Colombia	Guyana	Mauritius	Senegal	Western Samoa
Cook Islands	Haiti	Mexico	Sierra Leone	Yugoslavia
Costa Rica	Hawaii	Monaco	Singapore	Zaire
Cuba	Honduras	Mongolia	Solomon Islands	Zambia

STANDARD SPECIFICATION FOR QSL CARDS

- Purpose**
 - A QSL card is the written confirmation of a contact between two amateur radio stations. To some it is the ultimate courtesy of a QSO.
 - This specification has been prepared to help designers of QSL cards ensure completeness and effectiveness within the recommended size.
- Design**

The design falls into three distinct categories:

 - The radio and station information to be conveyed for the card to achieve its purpose.
 - The dimensions, layout and presentation necessary to ensure a speedy passage through QSL bureaux and postal services which are becoming increasingly automated.
 - The artistic additions to "personalise" the card.
- Information**
 - Station worked:
 - The words "Confirming QSO with . . ."
 - The callsign of the station worked.
 - Signal report as RS or RST.
 - The date and time in UTC of the QSO.
 - Band or frequency in MHz.
 - Mode of transmission as two-way, SSB, etc.
 - Your Station:
 - Callsign.
 - Location and time of contact.
 - Whether portable, mobile, aeronautical or maritime mobile
 - Name and postal address.
 - It is a good practice to:
 - Have all data on one side of the card.
 - Include relevant information for awards, e.g. country, NZART branch, ITU zone, etc.
 - The information should be entered on the card so that the longer card axis is parallel to the direction of reading.
 - All information should be clear and legible with the callsigns dominant.

4. Dimensions and Layout

To ensure ease of sorting and processing through the QSL bureaux and postal services a QSL card should:

- (a) Be "postcard" size, 140×90mm (5½×3½")
- (b) Not folded or heavily embossed.
- (c) Be printed on 177g/m² pasteboard or similar card. Do not use duplicator or photocopy paper.
- (d) Have a space on the front sufficiently large for the callsign of the station contacted to be entered in characters at least 12mm high, and spaces for the information of paragraph 3 to be entered.
- (e) The back should preferably be left clear. If anything is printed or written on the back it is essential that the right hand side be kept clear for the callsign of the station to which the card is addressed. (See illustration overleaf.)

5. Artistic Additions

Provided the above essentials are met there is no limit to the artistic embellishment possible, in accepted good taste.

6. Language

New Zealand stations should use English. The Q code and generally accepted abbreviations may be used. **N.B.** The correct abbreviation for best wishes is 73.

7. Consultation

The services of the NZART QSL Manager are available for advice on any QSL matter at P.O. Box 40-212, Upper Hutt.

Note:

The individual amateur may design a card on any size or dimensions, but cards to be sent to the bureau should conform to the above standard.

MAXIMUM RECOMMENDED SIZE FOR A QSL CARD

	<div style="text-align: right; font-weight: bold; font-size: 2em; margin-bottom: 20px;">WGABC</div> <div style="text-align: center;">This area to have the callsign of the addressee or QSL Manager only.</div>
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4

Radio Training Scheme

with IAN JEFFERY, ZL4IZ

P.O. Box 96, Balfour

The Radio Training Scheme has several aims. These are:
To provide members of NZART with study material to help them to pass the exam for the Amateur Radio Operator's Certificate;

To provide training aids and other assistance;

To give assistance to members who want to further their knowledge of various aspects of their hobby.

To meet these aims, the Radio Training Scheme provides:

Notes on specific subjects including:
Mathematics, Introduction to Digital Logic,

Home Study, Course Syllabuses.

A reprint service for articles appearing in past issues of *Break-In*;

Provision of taped lectures on specialist amateur radio topics, available for Branches to use at meetings, etc.

Details of these services are available from:

**Radio Training Scheme,
P.O. Box 96,
BALFOUR.**

Please include a current *Break-In* wrapper and SASE.

The Radio Training Scheme also prepares material for publication in *Break-In*, which includes examination questions and answers, construction articles, and notes on topics of interest to beginners.

The NZART Reciprocal Licence Bureau

With appropriate licences and approvals, New Zealand radio amateurs may operate in some overseas countries. This is possible through "reciprocal agreements" between governments, through "Commonwealth recognition", or by "guest licences". These three arrangements are distinctly different and apply in different countries in different ways.

It can be a lengthy business to get approval to operate in some countries. A residential qualification of months may be needed. Some countries prohibit portable and hand-held operation and may require that the station installation be inspected and tested. Procedures, rules and bands available vary considerably.

Countries with reciprocal agreements with New Zealand include Sweden, Switzerland, French Republic, United States of America and the Netherlands. Additions to this list can be expected. Countries with Commonwealth recognition include Australia, Canada, and the United Kingdom. Countries with guest licences include South Africa.

Council have appointed Russ Garlick, Z13AAA, as the co-ordinator for the "NZART Reciprocal Licence Bureau." Should you contemplate an overseas trip, an early enquiry could assist you to obtain overseas operating privileges. Russ keeps information on the requirements and procedures that a Z1 radio amateur should follow to operate in many countries. He can supply the address of the licensing authority with whom you should correspond in most countries, and the address of the IART amateur radio society. It will be appreciated that a long lead-time is necessary in your dealings with overseas administrators.

Finally, it would be appreciated if you could provide Russ with copies of licences, regulatory brochures, etc., when you return, so that your experience can be used to assist other who travel.

The address is: Mr R. A. Garlick, Z13AAA, 23 Lydia Street, Greymouth. Remember to tell Russ that you are an NZART member.

A Guide for OVERSEAS AMATEURS to obtain a NEW ZEALAND LICENCE

Holders of certificates issued in Australia, Botswana, Canada, Cook Islands, India, Niue, Papua New Guinea, United Kingdom, Zimbabwe and the Irish Republic are recognised as equivalent to Grades I, II or III (New Zealand) as the case may be and granted a licence upon application and payment of a fee, i.e.,

- (a) Less than 12 wpm morse Grade III.
- (b) 12 wpm but no evidence of operator experience. Grade II.
- (c) 12 wpm and proven experience (submissions of a log, photostat of entries proving over 50 contacts, or similar evidence and number of years active on the Air). Grade I.

Those licensed under (a) or (b) obtain higher qualifications by passing the appropriate examination in the usual way.

It is necessary, when applying for a New Zealand licence to produce the following:

- (1) Operator's Certificate.
- (2) A certificate to indicate the morse speed at which the applicant is qualified.
- (3) If no evidence can be submitted, the applicant may sit the examination in the normal way.
- (4) A birth certificate, or evidence of date of birth is required.
- (5) All applicants must submit a permanent postal address, to where all correspondence can be sent.
- (6) All applicants for a licence must give at least TWO WEEKS NOTICE before a licence can be processed.
- (7) Visiting amateurs will be allocated a callsign from the Z10 series.

To Obtain an Australian Amateur Licence by Visitors

Applicants *visiting* Australia for up to one year can apply for an equivalent Australian Amateur licence in one of two ways—either in advance, if time permits, or in person direct to the Department of Communications, Radio Regulatory and Licensing Branch of the department in any State, capital, city or radio inspectors' offices in certain major centres.

Whichever method is adopted could result in delays. A copy (endorsed as correct by a person delegated to issue such a licence) or original of the applicant's *valid* licence and/or certificate is essential. Do not send originals through the post. The licence fee at present is \$18.00.

If advance application can be made, it should be sent to:

The Assistant Secretary,
Licensing Policy and Operations Branch,
Department of Communications,
G.P.O. Box 5412CC,
Melbourne,
Victoria 3001,
AUSTRALIA.

A delay of up to three months could occur before any reply could be expected. The reply would ask the applicant to complete an RB80 application for a licence form and a declaration of secrecy.

Provided documentation is in order there should be no difficulties in obtaining a licence by *bona fide* visitors. It is not known for certain if New Zealand novice licensees would be able to obtain an Australian Novice Licence but since most of the Australian requirements are lower than those imposed in New Zealand no particular difficulties ought to arise.

For anyone with a New Zealand licence intending to live in Australia for any period of time longer than twelve months there should be no general difficulties because there is a reciprocal agreement in force between the two countries. Much the same application procedures apply as listed above for *bona fide* visitors from any country including New Zealand.

The kind of licence issued in Australia would be the equivalent of the applicant's home licence. Non-morse licensees would be entitled to an Australian Limited Licence restricted to operations on VHF and upwards. The recipient of an Australian licence would have to conform to Australian amateur band conditions.

To obtain a USA Amateur Visitors Licence

Reciprocal Agreements

Aliens who hold a valid amateur licence issued by their government may apply to the Federal Communications Commission for a permit to operate in the US only if a reciprocal operating agreement exists between the US and the above-mentioned government. Reciprocal agreements are currently held with these 65 countries: Argentina, Australia, Austria, Bahamas, Barbados, Belgium, Belize, Bolivia, Botswana, Brazil, Canada, Chile, Columbia, Costa Rica, Denmark, Dominican Republic, Ecuador, El Salvador, Fiji, Finland, France, Germany (Federal Republic of), Greece, Grenada, Guatemala, Guyana, Haiti, Honduras, Iceland, India, Indonesia, Ireland, Israel, Italy, Jamaica, Jordan, Kiribati, Kuwait, Liberia, Luxembourg, Monaco, Netherlands, Netherlands Antilles, New Zealand, Nicaragua, Norway, Panama, Paraguay, Peru, Philippines, Portugal, St. Lucia, Sierra Leone, Solomon Islands, Spain, Suriname, Sweden, Switzerland, Trinidad, Tuvalu, United Kingdom, Uruguay, Venezuela, and Yugoslavia.

Application

Send a completed FCC Form 610-A to the FCC, Gettysburg, Pennsylvania 17325, USA. Be sure to include a photocopy of your current amateur licence. You should apply at least 60 days in advance of your need, to allow for ample processing time.

A US citizen living overseas, having an alien licence cannot

obtain a reciprocal permit for operating in the US. Only non-citizens may obtain permits. If an alien becomes a US citizen, the reciprocal permit becomes invalid, and the amateur must then take a US amateur exam and apply for a regular US licence and call sign.

Identification on the Air

You will sign your home (native) call, plus the Morse "J" or phone "portable", followed by the representative prefix of the call area where you are located (for example, LU1AAA/W1 and YU7ZZZ/KP4). At least once during each contact with another amateur station, you must give your geographical location (in English) as nearly as possible by city and state, commonwealth or possession.

Frequencies and Transmitter Power

You will have all the privileges that you have in your home country as long as they do not exceed the privileges of the Amateur Extra Class licence of the USA.

Period Permit is Valid

The permit is valid for one year, unless your native licence expires sooner. It is renewable.

Copies of FCC Form 610 are available from Information Services Department, ARRL Headquarters, 225a Main Street, Newington, CT 06111, USA. (Please enclose SAE and 2 IRCs.)

4

Statement showing eligibility of Persons holding various Overseas Amateur Licences and Operators' Certificates for Australian Amateur Station Licences under Reciprocal Agreements

Administration	Class of Certificate or Licence Held	Australian Amateur Licence for which Holder is eligible	Remarks
U. Kingdom	British Amateur Licence A British Amateur Licence B	Full Privilege Limited	
USA	Extra Class Licence Advanced Class Licence General Class Licence Technician Class Licence Novice Class Licence	Full Privilege Full Privilege Full Privilege Limited —	Not acceptable
Canada	Advanced Amateur Radio Operator's Certificate	Full Privilege	
New Zealand	N.Z. Amateur Operator's Certificate N.Z. Amateur Operator's Certificate (non-morse)	Full Privilege Limited	
Malaysia	Current Amateur Station Licence Current Amateur Station Licence	Full Privilege* Limited†	*Where applicant furnishes acceptable evidence that he has qualified in telegraphy at a speed of 12 or more words per minute. †Where no acceptable evidence is furnished of telegraphy qualifications
Singapore		Same as for Malaysia	
India	Amateur Wireless Telegraphy Station Licence	Full Privilege	
W. Germany	Class B Class C Class A	Full Privilege Limited Novice	Arrangement Arrangement Arrangement



International Amateur Radio

(Prepared by the NZART Overseas Committee)



You, a radio amateur, should be familiar with these two international bodies:

The International Telecommunication Union

The ITU is the highest authority for the regulation of all radio services. It is recognised by the United Nations as the specialised agency responsible for the control of telecommunications. Its Convention has the status of a treaty which is binding on all nations which sign it.

The members of the ITU are countries—some 160 of them. New Zealand is a member and the New Zealand Post Office is the administration which represents New Zealand in ITU affairs.

The purposes of the ITU are: to maintain and extend international co-operation for the improvement and rational use of telecommunications of all kinds; to promote development of technical facilities and efficient operation of telecommunications services; and to harmonise the actions of all nations to attain these ends.

The ITU has its headquarters in Geneva, and holds frequent conferences concerning some or all of the radio services. The Amateur Service (which includes the Amateur Satellite Service) is of most interest to us, but the activities of the other services have to be closely monitored too.

The conclusions reached by ITU conferences are the basis for regulations.

The World Administrative Radio Conference held in Geneva in 1979 (WARC-79) gave rise to the ITU Radio Regulations 1982, further revised by the 1983 WARC for the Mobile Services, and now form the ITU Radio Regulations 1985.

All radio services within the borders of New Zealand are controlled by the New Zealand Radio Regulations and these reflect the ITU Radio Regulations.

The International Amateur Radio Union

The IARU is a voluntary union of amateur radio societies and was founded in 1925. NZART, with more than 120 other societies, is a member. The prime purpose of IARU is the protection of the Amateur Service.

The IARU is controlled by an Administrative Council (AC) which is composed of a President, Vice-President and two representatives from each of the three regions: Region 1 is Europe, the USSR and Africa; Region 2 is the Americas; and Region 3 is the rest of the world.

An International Secretariat (IS) provides the Secretary and administrative services. Any amateur radio society can be nominated to provide the IS; it then has the privilege of nominating the President and Vice-President. Currently the American Amateur Radio Relay League (ARRL) is the IS society.

The "Business" of IARU is transacted at a series of triennial regional conferences arranged so that one is held each year. The member-societies of the region meet at these regional conferences to discuss common problems, to find common solutions, to determine policy, and to otherwise promote the viability of amateur radio in the region. Each individual IARU member society provides input to the international scene through the mechanism of the regional conferences.

New Zealand is in Region 3, and NZART is a founder member of the IARU Region 3 Association, founded in 1968. The Association Secretariat is in Tokyo. Between conferences the affairs of the region are attended to by the Association's five Directors who are elected at the regional conference to serve until the next conference. NZART is a very active member of the Region 3 Association.

Links and recognition

IARU enjoys "recognition" by the ITU and can be admitted to ITU conferences with "observer" status. This is of tremendous significance because it provides the opportunity to contribute to and to even directly influence what is done by the national delegations at ITU conferences. The IARU is usually directly represented at ITU conferences by a specially-selected "Observer Team" drawn from specialists in amateur radio affairs from IARU societies world-wide.

In addition IARU has an indirect influence through members of national delegations who are also radio amateurs.

For some important ITU conferences (e.g. WARC-79), a representative of the Amateur Service has been included in some national delegations to ITU conferences. NZART financed a representative in New Zealand's delegation to WARC-79. This is a task that will need repeating for a forthcoming conference. The training of suitable people has already commenced and budgeting is planned.

NZART has access to the New Zealand administration via the NZART-Post Office Liaison Officer, and from there to the ITU. A first objective for NZART is to deserve and keep the goodwill of the Post Office, hence to continue the enlightened official attitude New Zealand radio amateurs have enjoyed in the past, to ensure that official New Zealand influence in ITU circles will be in the right direction.

In addition, through the IARU Region 3 Association, NZART is able to assist other societies in an effort to have the right things for amateur radio done by their administrations.

International problems for Amateur Radio

All classes of radio Service compete to ensure working space in the radio frequency spectrum which is a shared resource. Most Services wield very strong influence through government representatives at ITU conferences where decisions are affected by many factors, political, economic and social. At times the atmosphere is hostile to amateur radio. Some decisions take many years to implement. The patient pursuit of long-term policies is needed to promote the future welfare of the Amateur Service.

Some Services (broadcasting is a typical example) have great resources, money and political influence. The Amateur Service by contrast must rely entirely on support from national amateur radio societies through national administrations and by IARU Observers at conferences.

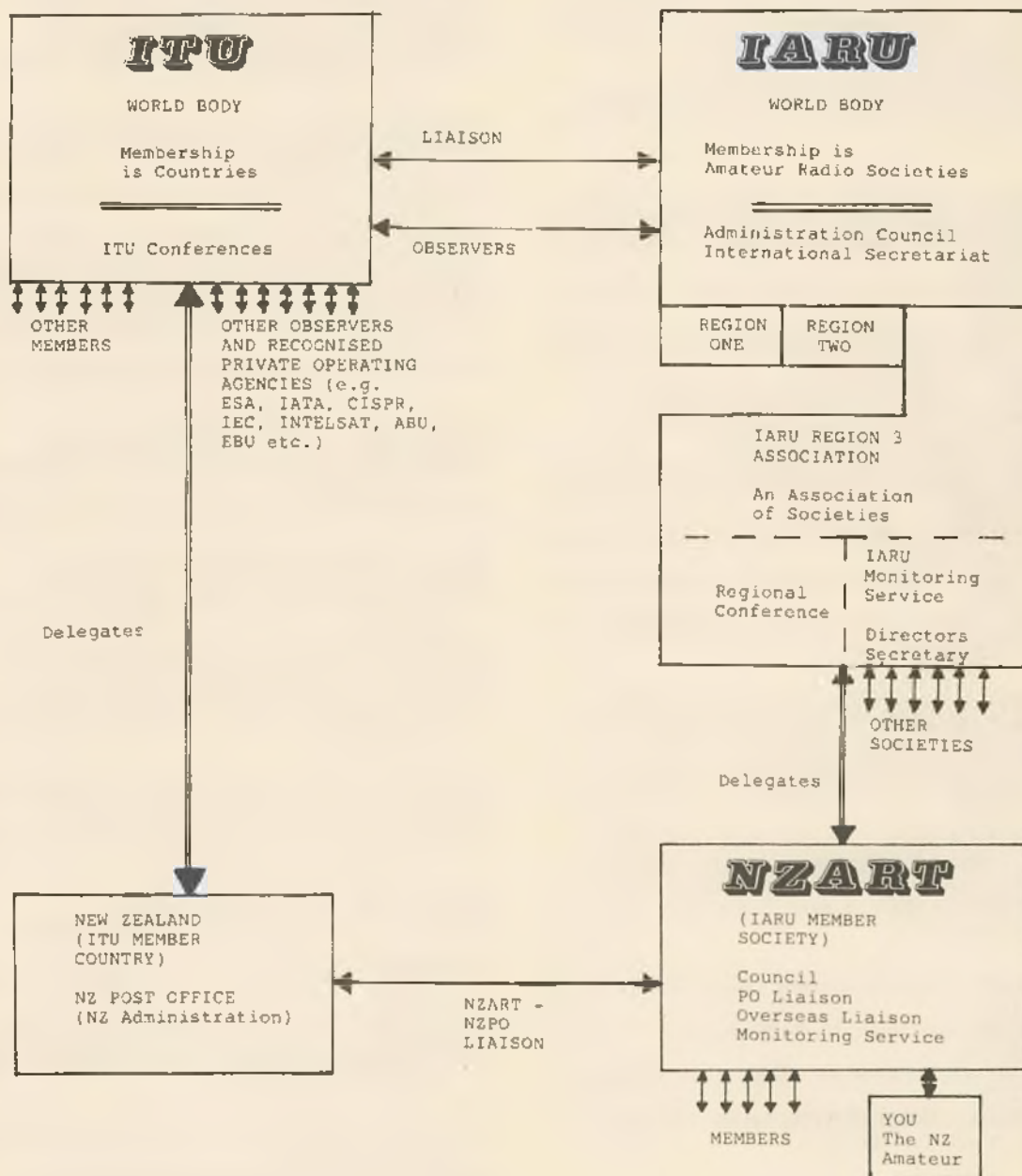
The cost of this continuing vigilance is high and comes from radio amateurs in national societies and from devoted voluntary efforts by amateur radio specialists. It is an ongoing problem and your support is important.

Where do I fit in?

As a radio amateur, your NZART membership is vital to all of us. Membership of NZART, and through that your support to the NZART-Post Office liaison and overseas liaison, is vital. It is essential to all the other radio amateurs that you be a member. You are playing your part to ensure

the continuance of amateur radio for everybody. You should be encouraging every other radio amateur to belong and help with the work too.

Remember, there is no actual security for the Amateur Service. Constant vigilance, time and money to protect our regulatory provisions are needed.



International Amateur Radio Union

List of Member Societies

March 25, 1985

ALGERIA: Amateurs Radio Algeriens (ARA).
ANDORRA: Unio Radioaficionats Andorrans (URA).
ANGOLA: Liga dos Amadores de Radio Angola (LARA).
ANTIGUA AND BARBUDA: Antigua and Barbuda Amateur Radio Society (ABARS).
ARGENTINA: Radio Club Argentino (RCA).
AUSTRALIA: Wireless Institute of Australia (WIA).
AUSTRIA: Österreichischer Versuchssenderverband (ÖVSV).

BAHAMAS: Bahamas Amateur Radio Society (BARS).
BAHRAIN: Amateur Radio Association Bahrain (ARAB).
BANGLADESH: Bangladesh Amateur Radio League (BARL).
BARBADOS: Amateur Radio Society of Barbados (ARSB).
BELGIUM: Union Belge des Amateurs-Emetteurs/Unie der Belgische Amateur-Zenders (UBA)/Union der Belgischen Amateurfunkler.
BELIZE: Belize Amateur Radio Club (BARC).
BERMUDA: Radio Society of Bermuda (RSB).
BOLIVIA: Radio Club Boliviano (RCB).
BOTSWANA: Botswana Amateur Radio Society (BARS).
BRAZIL: Liga de Amadores Brasileiros de Radio Emissao (LABRE).
BRITISH VIRGIN ISLANDS: British Virgin Islands Radio League (BVIRL).
BULGARIA: Bulgarian Federation of Radio Amateurs (BFRA).
BURMA: Burma Amateur Radio Transmitting Society (BARTS).

CANADA: Canadian Radio Relay League (CRRL).
CAYMAN ISLANDS: Cayman Radio Society (CRS).
CHILE: Radio Club de Chile (RCC).
CHINA: Chinese Radio Sports Association (CRSA).
COLOMBIA: Liga Colombiana de Radioficionados (LCRA).
COSTA RICA: Radio Club de Costa Rica (RCCR).
CUBA: Federacion de Radioficionados de Cuba (FRC).
CYPRUS: Cyprus Amateur Radio Society (CARS).
CZECHOSLOVAKIA: Central Radio Club of Czechoslovakia (CRCC).

DENMARK: Eksperimenterende Danske Radioamatorer (EDR).
DJIBOUTI: Association des Radioamateurs de Djibouti (ARAD).
DOMINICAN REPUBLIC: Radio Club Dominicano (RCD).
DOMINICA, COMMONWEALTH OF: Dominica Amateur Radio Club (DARC).

ECUADOR: Guayaquil Radio Club (GRC).
EL SALVADOR: Club de Radioficionados de El Salvador (CRAS).

FAROE ISLANDS: Faroes Radio Amateurs (FRA).
FIJI: Fiji Association of Radio Amateurs (FARA).
FINLAND: Suomen Radioamatooriliitto (SRAL).
FRANCE: Reseau des Emetteurs Francais (REF).
FRENCH POLYNESIA: Club Oceanien de Radio et d'Astronomie (CORA).

GAMBIA: Radio Society of the Gambia (RSTG).
GERMANY (Democratic Republic of): Radioklub der D.D.R. (RKDDR).
GERMANY (Federal Republic of): Deutscher Amateur-Radio-Club (DARC).
GHANA: Ghana Amateur Radio Society (GARS).
GIBRALTAR: Gibraltar Amateur Radio Society (GARS).
GREECE: Radio Amateur Association of Greece (RAAG).
GRENADA: Grenada Amateur Radio Club (GARC).
GUATEMALA: Club de Radioficionados de Guatemala (CRAG).
GUYANA: Guyana Amateur Radio Association (GARA).

HAITI: Radio Club d'Haiti (RCH).
HONDURAS: Radio Club de Honduras (RCH).
HONG KONG: Hong Kong Amateur Radio Transmitting Society (HARTS).
HUNGARY: Magyar Radioamator Szovetseg (MRASZ).

ICELAND: Islenskir Radioamatorar (IRA).
INDIA: Amateur Radio Society of India (ARSI).
INDONESIA: Organisasi Amatir Radio Indonesia (ORARI).
IRELAND: Irish Radio Transmitters Society (IRTSO).
ISRAEL: Israel Amateur Radio Club (IARC).
ITALY: Associazione Radioamatori Italiani (ARI).
IVORY COAST: Association des Radio-Amateurs Ivoiriens (ARAI).

JAMAICA: Jamaica Amateur Radio Association (JARA).
JAPAN: Japan Amateur Radio League (JARL).
JORDAN: Royal Jordanian Radio Amateur Society (RJRAS).

KENYA: Radio Society of Kenya (RSK).
KOREA: Korean Amateur Radio League (KARL).

LEBANON: Association des Radio-Amateurs Libanais (RAL).
LESOTHO: Lesotho Amateur Radio Society (LARS).
LIBERIA: Liberia Radio Amateur Association (LRAA).
LUXEMBOURG: Reseau Luxembourgeois des Amateurs d'Ondes Courtes (RL).

MALAYSIA: Malaysian Amateur Radio Transmitters' Society (MARTS).
MALTA: Malta Amateur Radio League (MARL).
MAURITIUS: Mauritius Amateur Radio Society (MARS).
MEXICO: Liga Mexicana de Radio Experimentadores (LMRE).

MONACO: Association de Radio-Amateurs de Monaco (ARM).
MONTERRAT: Montserrat Amateur Radio Society (MARS).
MOROCCO: Association des Radio-Amateurs du Maroc (ARRAM).
MOZAMBIQUE: Liga dos Radio Emissores de Mocambique (I.REM).

NETHERLANDS: Vereniging voor Experimenteel Radio Onderzoek in Nederland (VERON).

NETHERLANDS ANTILLES: Vereniging voor Experimenteel Radio Onderzoek in Nederlandse Antillen (VERONA).

NEW ZEALAND: New Zealand Association of Radio Transmitters (NZART).

NICARAGUA: Club de Radioexperimentadores de Nicaragua (CREN).

NIGERIA: Nigerian Amateur Radio Society (NARS).

NORWAY: Norsk Radio Relae Liga (NRRL).

OMAN: Royal Omani Amateur Radio Society (ROARS).

PAKISTAN: Pakistan Amateur Radio Society (PARS).

PANAMA: Liga Panamena deRadio Aficionados (LPRA).

PAPUA NEW GUINEA: Papua New Guinea Amateur Radio Society (PNGARS).

PARAGUAY: Radio Club Paraguayo (RCP).

PERU: Radio Club Peruano: (RCP).

PHILIPPINES: Philippine Amateur Radio Association (PARA).

POLAND: Polski Związek Krotkofalowcow (PZK).

PORTUGAL: Rede dos Emissores Portugueses (REP).

ROMANIA: Federatia Romana de Radioamatorism (FRR).

SAN MARINO: Associazione Radioamatori della Repubblica di San Marino (ARRSM).

SENEGAL: Association des Radio-Amateurs du Senegal (ARAS).

SIERRA LEONE: Sierra Leone Amateur Radio Society (SLARS).

SINGAPORE: Singapore Amateur Radio Transmitting Society (SARTS).

SOLOMON ISLANDS: Solomon Islands Radio Society (SIRS).

SOUTH AFRICA: South African Radio League (SARL).

SPAIN: Union de Radioaficionados Espanoles (URE).

SRI LANKA: Radio Society of Sri Lanka (RSSL).

SURINAME: Vereniging van Radio Amateurs in Suriname (VRAS).

SWAZILAND: Radio Society of Swaziland (RSS).

SWEDEN: Foreningen Sveriges Sandarcamatorer (SSA).

SWITZERLAND: Union Schweizerischer Kurzwellen-Amateure (USKA).

SYRIA: Technical Institute of Radio (TIR).

THAILAND: Radio Amateur Society of Thailand (RAST).

TONGA: Amateur Radio Club of Tonga (ARCOT).

TRINIDAD AND TOBAGO: Trinidad and Tobago Amateur Radio Society (TTARS).

TURKEY: Turkiye Radya Amatorleri Cemiyeti (TRAC).

UNITED KINGDOM: Radio Society of Great Britain (RSGB).

URUGUAY: Radio Club Uruguayo (RCU).

USA: American Radio Relay League (ARRL).

USSR: Radio Sport Federation of the USSR (RSF).

VANUATU: Vanuatu Amateur Radio Society (VARS).

VENEZUELA: Radio Club Venezolano (RCV).

WESTERN SAMOA: Western Samoa Amateur Radio Club (WSARC).

YUGOSLAVIA: Savez Radio-Amatera Jugoslavije (SRJ).

ZAIRE: Union Zairoise des Radio-Amateurs (UZRA).

ZAMBIA: Radio Society of Zambia (RSZ).

ZIMBABWE: Zimbabwe Amateur Radio Society (ZARS).

Travelling Overseas?

Russ Garlick (ZL3AAA), Co-ordinator for the **NZART Reciprocal Licence Bureau** can provide up-to-date information for those wishing to operate while overseas. Refer page 110.

1984 International Amateur Radio Union Summary of Annual Reports

(May 10, 1984)

Region 1				
Country	Total Operators	Total Stations	Society Members	Licensed Members
Algeria	150	102	220	102
Andorra	97	97	81	81
Angola	Amateur Radio Suspended			
Austria	?	4 630	4 300	3 450
Bahrain	40	43	40	22
Belgium	4 200	4 200	4 400	2 601
Botswana	46	46	25	15
Bulgaria	1 200	850	?	1 200
Cyprus	120	120	120	120
Czechoslovakia	2 404	2 695	9 022	2 404
Denmark	10 216	10 216	6 100	4 400
Djibouti	30	25	15	14
Faroe Islands	104	110	100	78
Finland	4 103	4 039	4 338	4 000
France	13 050	13 050	12 000	6 920
Gambia	54	55	25	23
German D.R.	2 063	1 889	15 000	2 063
German F.R.	48 645	50 350	46 203	37 811
Ghana	Amateur Radio Suspended			
Gibraltar	23	17	32	15
Greece	400	404	550	400
Hungary	3 800	1 950	5 100	1 950
Iceland	?	119	153	91
Ireland	1 441	1 367	688	462
Israel	900	900	400	320
Italy	20 000	18 000	11 450	8 460
Ivory Coast	80	81	30	25
Jordan	119	120	119	119
Kenya	67	68	85	29
Lebanon	104	104	65	30
Lesotho	25	25	17	15
Liberia	120	120	35	35
Luxembourg	315	315	282	260
Malta	143	149	65	60
Mauritius	?	30	39	21
Monaco	48	48	31	31
Morocco	98	98	98	98
Mozambique	Amateur Radio Suspended			
Netherlands	13 210	13 380	13 750	8 400
Nigeria	140	140	560	140
Norway	5 526	5 526	3 786	3 227
Oman	63	66	136	63
Poland	3 000	3 230	7 000	3 000
Portugal	5 050	3 043	2 045	1 957
Romania	1 605	1 395	4 861	1 605
San Marino	11	12	11	11
Senegal	110	70	28	28
Sierra Leone	13	14	24	13
South Africa	5 300	5 300	2 705	2 153
Spain	26 000	26 000	15 620	13 080
Swaziland	?	21	24	19
Sweden	9 188	9 188	6 461	5 699
Switzerland	?	3 356	4 067	2 824
Syria	10	10	37	10
Turkey	0	0	750	0
USSR	28 000	35 000	136 000	11 080
UK	40 000	40 000	33 000	20 000
Yugoslavia	3 250	4 882	55 000	3 250
Zaire	50	50	50	50
Zambia	21	21	20	13
Zimbabwe	Information Not Available			
Average	4 600	4 687	7 164	2 708
Total	263 000	267 136	408 363	154 347

Region 2									
Antigua & B.	46	44	46	46	Guatemala	538	538	120	120
Argentina	25 000	25 000	2 180	1 952	Guyana	Information Not Available			
Bahamas	52	52	23	21	Haiti	19	18	19	19
Barbados	200	200	80	60	Honduras	?	?	110	80
Belize	122	122	122	122	Jamaica	79	62	130	?
Bermuda	114	?	82	75	Mexico	2 340	2 340	995	985
Bolivia	1 788	1 788	1 788	1 788	Montserrat	?	?	33	31
Brazil	21 000	21 000	56 500	21 000	Neth. Antilles	115	115	70	50
Br. Virgin Is.	9	9	10	9	Nicaragua	140	140	135	135
Canada	24 000	24 000	4 691	4 250	Panama	750	750	400	400
Cayman Islands	28	28	22	18	Paraguay	1 300	890	1 550	1 300
Chile	4 300	4 300	2 200	1 540	Peru	1 071	862	742	666
Colombia	5 300	4 700	1 700	1 500	Suriname	78	60	65	65
Costa Rica	1 482	1 482	216	187	Trinidad & T.	150	150	200	150
Cuba	424	451	424	300	USA	417 551	421 732	131 767	112 906
Comm.					Uruguay	3 723	2 603	367	328
Dominica	65	22	37	22	Venezuela	12 500	11 000	1 570	1 500
Dominican Rep	2 000	2 200	325	290	Average	14 655	14 667	5 818	4 242
Ecuador	878	816	524	470	Total	527 573	527 999	209 436	152 700
El Salvador	280	280	150	150					
Granada	?	20	43	30					

Country	Region 3			
	Total Operators	Total Stations	Society Members	Licensed Members
Australia	14 780	14 780	8 093	7 473
Bangladesh	0	0	30	0
Burma		Amateur	Radio Suspended	
China	45	3	500	45
Fiji	15	15	15	15
Fr. Polynesia	?	182	130	120
Hong Kong	170	170	155	153
India	1 400	1 400	320	300
Indonesia	10 000	10 000	11 000	10 000
Japan	?	550 338	129 944	119 472
Korea	841	676	6 678	?
Malaysia	120	120	270	120
New Zealand	5 702	5 846	4 013	3 194
Pakistan	75	75	112	52
PNG	98	98	39	23
Philippines	2 500	2 000	1 200	500
Singapore	55	47	46	35
Solomon Is.	?	?	23	20

Sri Lanka	107	107	94	72
Thailand	510	482	510	510
Tonga	19	?	28	8
Vanuatu	25	27	20	18
Western Samoa	7	7	?	7
Average	26 700	26 656	7 419	6 500
Total	587 000	586 422	163 218	142 500

Worldwide				
Average	12 000	12 014	6 791	3 900

Total worldwide Operators—1 378 000
 Total worldwide Stations—1 381 557
 Total worldwide Society Members—781 017
 Total worldwide Licensed Members—450 000

5

International Amateur Radio Union

ADMINISTRATIVE COUNCIL

President IARU—

Richard L. Baldwin, W1RU
 H.C. 60, Box 60
 Waldoboro, ME 04572, USA

Vice-President IARU

Carl L. Smith, W0BWJ
 1070 Locust Street, Denver, CO 80220, USA.

Secretary IARU

David Sumner, K1ZZ
 C/- International Secretariat (see below)

INTERNATIONAL SECRETARIAT

Address: P.O. Box AAA, Newington, CT 06111, USA.
 Location: 225 Main Street, Newington, CT 06111, USA.
 Telephone: 203-666-1541.
 Telex: 650215-5052 MCI
 Secretary: David Sumner, K1ZZ.
 Assistant to the Secretary: Naoki Akiyama, N1CIX/
 JH1VRQ.

PRESIDENT EMERITUS

Noel B. Eaton, VE3CJ, P.O. Box 660, Waterdown, Ontario
 L0R 2H0, Canada.

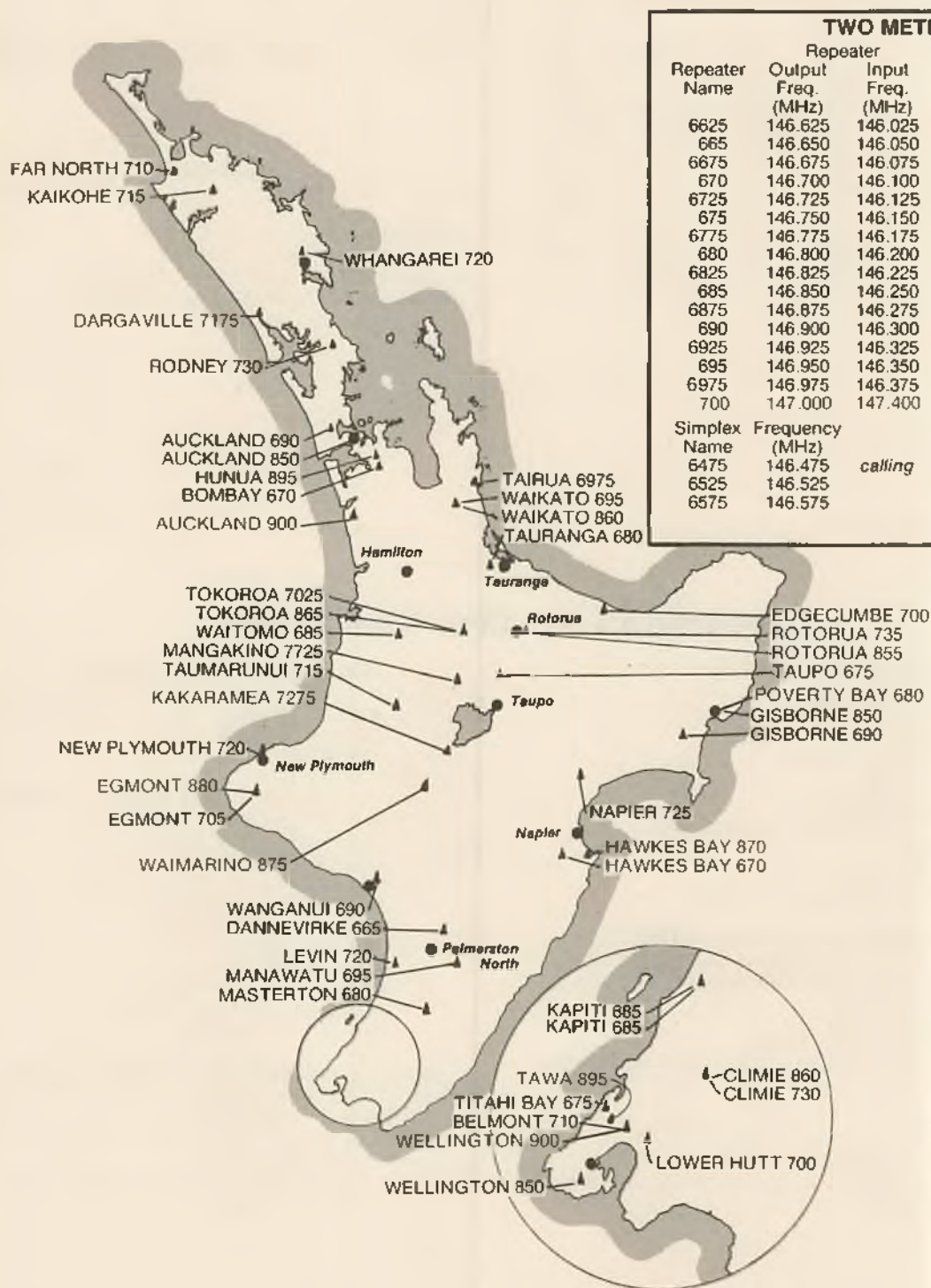
IARU REGION 3 ASSOCIATION

Address: P.O. Box 73, Toshima, Tokyo 170-91, Japan.
 Location: Matsuoka Building, No. 2, 1-14-5 Sugamo,
 Toshima, Tokyo 170, Japan.
 Telephone: 03-944-3322.
 Telex: 23868 JAPRETAR
 Chairman: David Rankin, 9V1RH/VK3QV, P.O. Box 14,
 Pasir Panjang, Singapore 9111, Singapore.
 Secretary: Masayoshi Fujioka, JM1UXU
 Directors: Arthur Godfrey, ZL1HV,
 882 East Coast Road, Browns Bay,
 Auckland 10, New Zealand
 Keigo Komuro, JA1KAB,
 1-6-13 Kokubunjidai, Ebina,
 Kanagawa 243, Japan.
 Michael J. Owen, VK3KI,
 3 Gordon Road, Mount Waverley,
 Victoria 3149, Australia.

MONITORING SCHEME CO-ORDINATORS

Region 1: J. v. d Velde, PA0VDV, Fazantenhof 57, 3755
 EE Eemnes, Netherlands.
 Region 2: M. L. Gibson, W7JIE, 1215 N. 28th Place, Ren-
 ton, WA 98056, USA.
 Region 3: R. E. Knowles, ZL1BAD, Onewhere, R.D. 2,
 Tuakau, New Zealand.

New Zealand Association of Radio

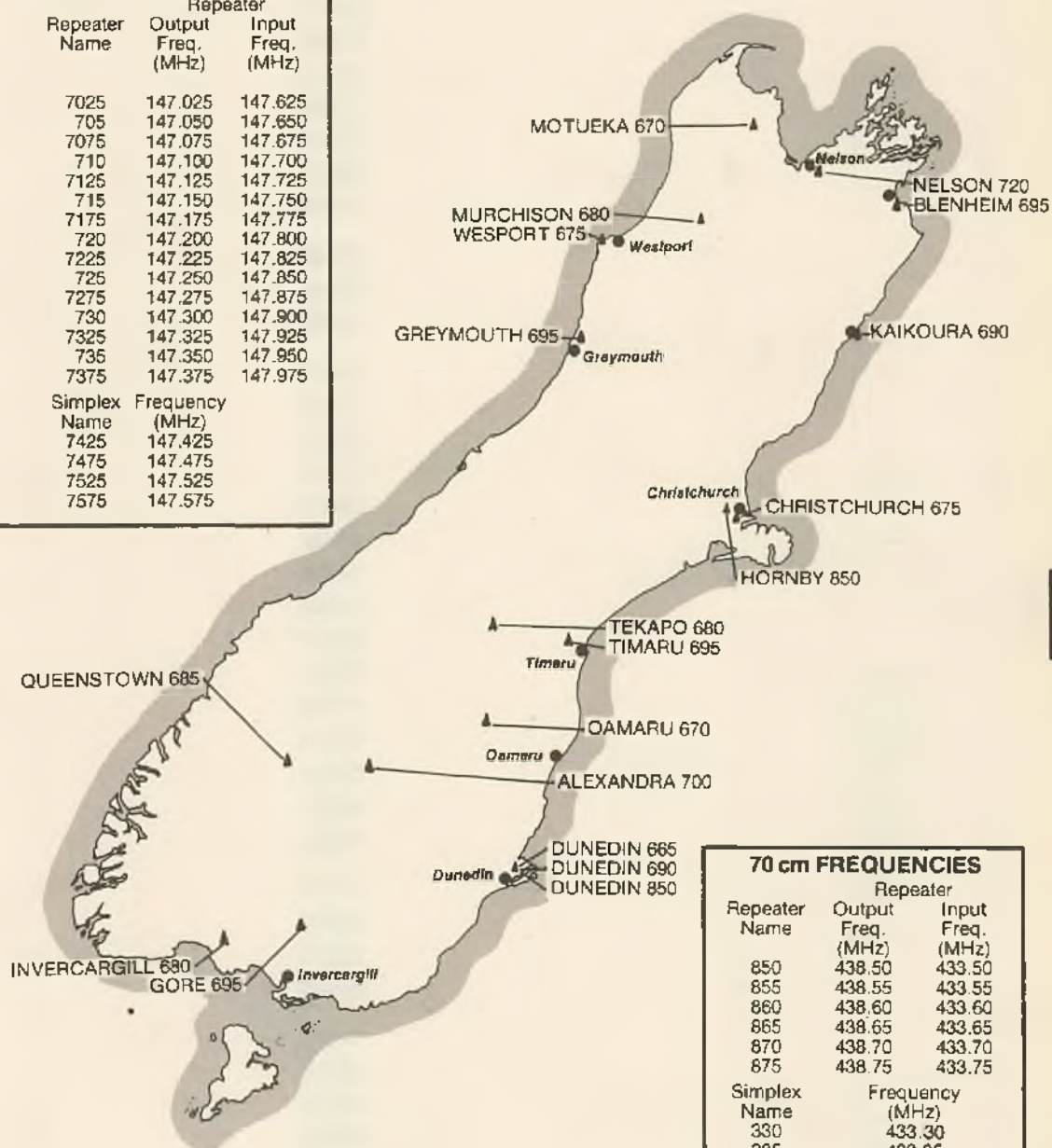


Transmitters Inc.—FM Repeater Service

FREQUENCIES

Repeater Name	Repeater Output Freq. (MHz)	Repeater Input Freq. (MHz)
7025	147.025	147.625
705	147.050	147.650
7075	147.075	147.675
710	147.100	147.700
7125	147.125	147.725
715	147.150	147.750
7175	147.175	147.775
720	147.200	147.800
7225	147.225	147.825
725	147.250	147.850
7275	147.275	147.875
730	147.300	147.900
7325	147.325	147.925
735	147.350	147.950
7375	147.375	147.975

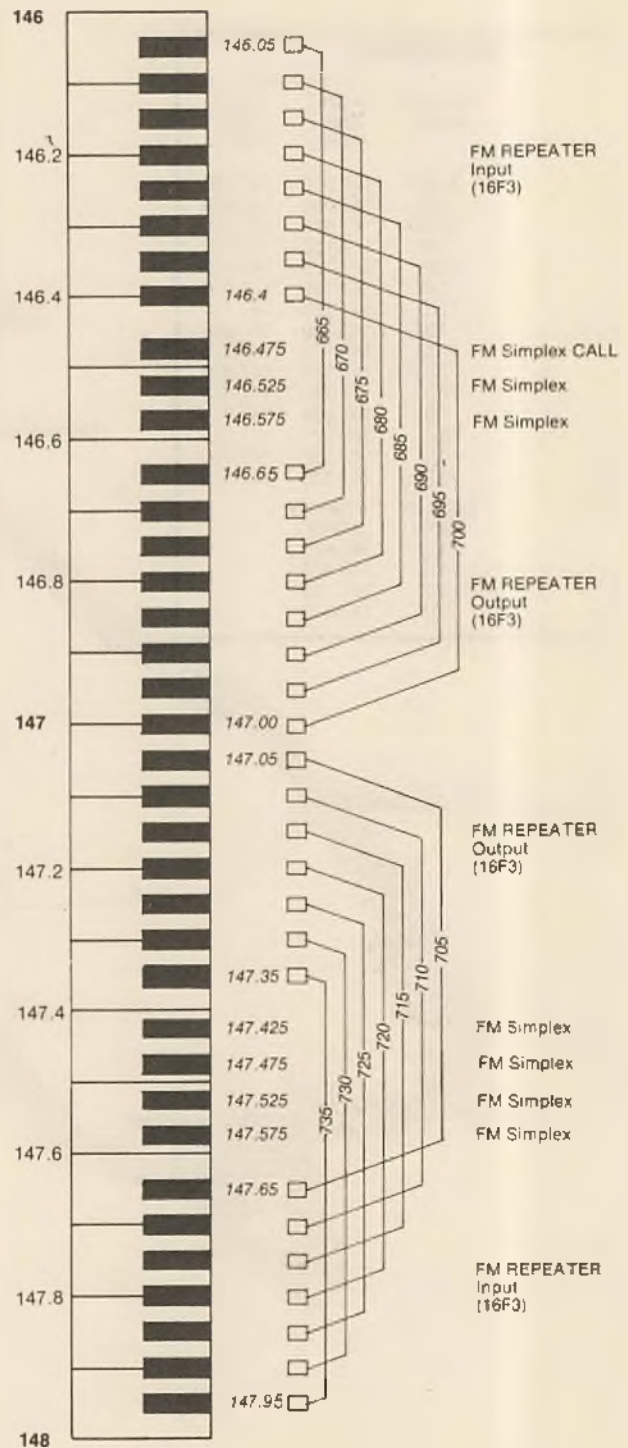
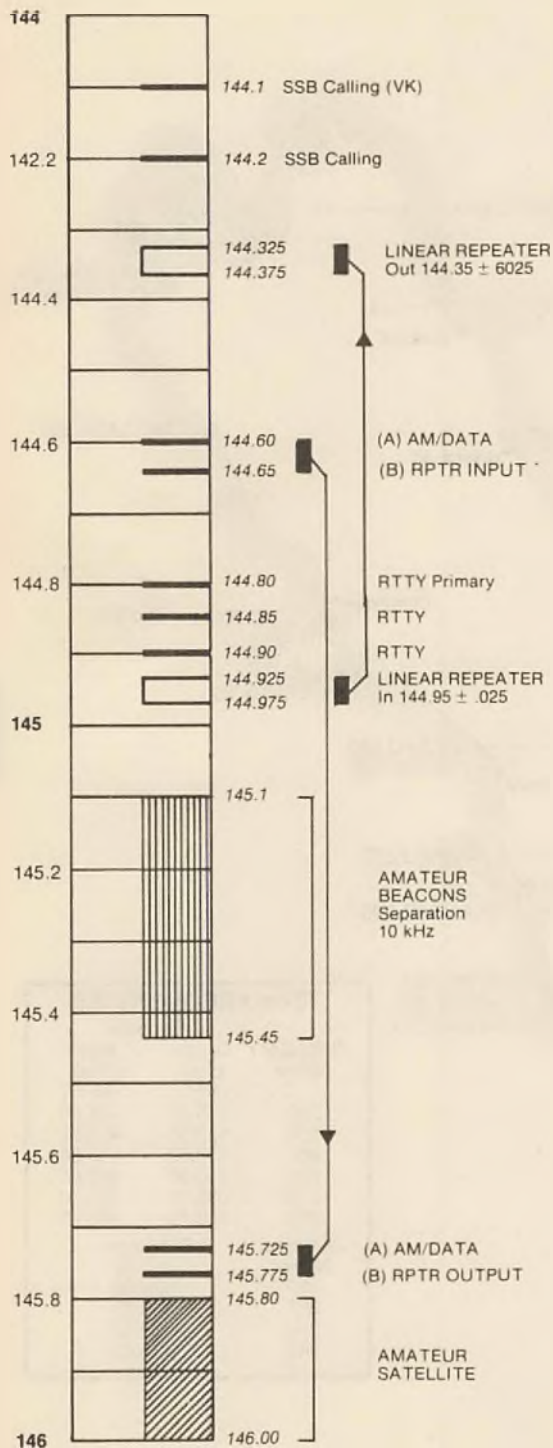
Simplex Name	Frequency (MHz)
7425	147.425
7475	147.475
7525	147.525
7575	147.575



70 cm FREQUENCIES

Repeater Name	Repeater Output Freq. (MHz)	Repeater Input Freq. (MHz)
850	438.50	433.50
855	438.55	433.55
860	438.60	433.60
865	438.65	433.65
870	438.70	433.70
875	438.75	433.75
Simplex Name	Frequency (MHz)	
330	433.30	
335	433.35	
340	433.40	
345	433.45	

TWO METRE BAND PLAN



New Zealand Amateur Radio FM Repeater Service

TWO METRE BAND

Name	Site	Output Freq.	Height mASL	Power Out	Trustees
Far North 710	Mount Maungataureia	147.100	513	12	ZL1AZJ, ZL1BAY
Kaikohe 715	Browns Hill	147.150	388	10	ZL1UBQ, ZL1BAY
Whangarei 720	Parakiore	147.200	392	25	ZL1AF, ZL1BFS
Dargaville 7175	Hokianga Road	147.175	61	20	ZL1TVP, ZL1BAU
Rodney 730	Dome	147.300	341	10	ZL1ABL, ZL1AHK
Auckland 690	Ruaotewhenua	146.900	391	25	ZL1ARC, ZL1BPW
Bombay 670	Mount Puketutu	146.700	376	25	ZL1ARC, ZL1BPW
Tairua 6975	Tairua	146.975	349	10	ZL1THG, ZL1TNT
Waikato 695	Mount Te Aroha	146.950	944	12	ZL1TAT, ZL1TNT
Tauranga 680	Mount Minden Te Puna	146.800	286	10	ZL1BOM, ZL1IQI
Edgumbe 700	Mount Edgumbe	147.000	777	10	ZL1BGE, ZL1TAT
Waitomo 685	Rangitoto Range	146.850	869	15	ZL1TUL, ZL1TWA
Tokoroa 7025	Whakamaru	147.025	793	25	ZL1TDV, ZL1UGH
Rotorua 735	Mount Ngongotaha	147.350	757	15	ZL1PK, ZL1AKC
Mangakino 7225	Bakers Road	147.225	315	25	ZL1AMW, ZL1AKT
Taupo 675	Maroanui	146.750	897	12	ZL1BFA, ZL1BYV
Taumarunui 715	Hikurangi	147.150	770	25	ZL1TIG, ZL1AAF, ZL1UJA
Kakaramea 7275	Kakaramea	147.275	1313	25	ZL1UJA, ZL1AAF, ZL1TIG
Poverty Bay 580	Kaiti Hill	146.800	122	10	ZL2TNP, ZL2UBF
Gisborne 690	Whakapunake	146.900	950	10	ZL2TNP, ZL2UBF
Napier 725	Taraponui	147.250	1308	10	ZL2TIS, ZL2ALO, ZL2TSX
Hawkes Bay 670	Kahuranaki	146.700	652	10	ZL2AN, ZL2IT
New Plymouth 720	Power Station Chimney	147.200	190	12	ZL2TKA, ZL2TKP
Egmont 705	East Mount Egmont	147.050	1559	20	ZL2TLY, ZL2ALT
Wanganui 690	Shakespeare Road	146.900	90	11	ZL2BGE, ZL2TDI
Dannevirke 665	Mount Wharite	146.650	915	9	ZL2TDB, ZL2TPQ
Manawatu 695	Pahiatua Track	146.950	488	8	ZL2BFR, ZL2AUB
Levin 720	Moutere	147.200	50	10	ZL2CP, ZL2BAF
Masterton 680	Mount Rangitumau	146.800	604	25	ZL2FZ, ZL2TFZ
Kapiti 685	Mount Field	146.850	615	6	ZL2TFP
Climie 730	Mount Climie	147.300	867	20	ZL2ACT
Titahi Bay 675	Onepoto Reservoir	146.750	90	10	ZL2TCF, ZL2BKI
Belmont 710	Mount Belmont	147.100	450	20	ZL2ARW, ZL2TRV
Lower Hutt 700	Mount Fitzherbert	147.000	—	12	ZL2ARW, ZL2TAR
Motueka 670	Mount Campbell	146.700	1328	25	ZL2BCG, ZL2BHL
Nelson 720	Grampians	147.200	392	20	ZL2BCA, ZL2TJB
Blenheim 695	Jamies Knob	146.950	277	25	ZL2AYC, ZL2BK
Murchison 680	Mount Murchison	146.800	1469	20	ZL2BCA, ZL2TJB
Westport 675	Cape Foulwind Lighthouse	146.750	91	15	ZL3AFN, ZL3ADB
Kaikoura 690	Kaikoura Peninsula	146.900	91	15	ZL3PZ, ZL3GF
Greymouth 695	Sewell Peak	146.950	834	20	ZL3ADH, ZL1THA
Christchurch 675	Marleys Hill	146.750	488	20	ZL3RW
Tekapo 680	Mount Rollesby	146.800	1371	20	ZL2AFR, ZL3PN
Timaru 695	Mount Studholme	146.950	1088	20	ZL2AFR, ZL3PN
Oamaru 670	Station Peak	146.700	886	20	ZL4FE, ZL4THN, ZL4KM
Alexandra 700	Fruitlands	147.000	1478	15	ZL4THT
Queenstown 685	Double Cone	146.850	2286	22	ZL4JW, ZL4TIQ
Dunedin 665	Highcliff	146.650	310	10	ZL4MK
Dunedin 690	Mount Cargill	146.900	674	25	ZL4MK
Gore 695	McLeod's Hill	146.950	640	15	ZL4AO, ZL4TCD
Invercargill 680	Bald Hill, Otautau	146.800	798	20	ZL4OX, ZL4TFJ

New Zealand Amateur Radio FM Repeater Service (continued)

SEVENTY CENTIMETRE BAND

Name	Site	Output Freq.	Height mASL	Power Out	Trustees
Auckland 850	Mt. Eden	438.500	200	25	ZL1ARC, ZL1BPW
Auckland 900	Port Waikato	439.000	400	25	ZL1ARC, ZL1BPW
Hunua 895	Clements Hill	438.950	300	3	ZL1ARC, ZL1AKX
Waikato 860	Mount Te Aroha	438.600	944	20	ZL1THG, ZL1TNT
Tokoroa 865	Whakamaru	438.650	793	25	ZL1TDV, ZL1UGH
Rotorua 855	Mount Ngongotaha	438.550	757	10	ZL1PK, ZL1AKC
Gisborne 850	Cook Hospital	438.500	72	10	ZL2TNP, ZL2UBF
Egmont 880	East Mount Egmont	438.800	1559	20	ZL2TLF, ZL2APZ, ZL2TXG
Waimarino 875	Turoa Skifield	438.750	2050	25	ZL2BLI, ZL2TWS
Hawkes Bay 870	Peak House	438.700	389	10	ZL2TSX, ZL2TDC
Kapiti 885	Paraparaumu Beach	438.850	30	25	ZL2TFP, ZL2TUV
Climie 860	Mount Climie	438.600	867	20	ZL2ACT
Tawa 895	Not Finalised Yet	438.950		25	ZL2ARW, ZL2TRV
Wellington 850	Mount Victoria	438.500	195	20	ZL2BAC, ZL2TRV
Wellington 900	Mount Belmont	439.000	450	25	ZL2ARW, ZL2TRV
Hornby 850	Cass Peak	438.500	522	25	ZL3GI, ZL3TIB
Dunedin 850	Mount Cargill	438.500	674	2	ZL4MK

Other Repeaters

Name	Site	Output Freq. MHz	Input Freq. MHz	Mode/Use	Height mASL	Power Out	Trustees
Moerangi Linear 435	Moerangi Heights	144.350	144.950	X8	743	10	ZL1BTB
Gisborne ATV	Kaiti Hill	443.250	1251.250	C3/F3	122	50	ZL2TNP, ZL2UBF
Manawatu 5725	Pahiatua Track	448.750	1256.750	TV/Phone	288	10	ZL2BFR, ZL2AUB
		145.725	144.600	F3			
Wellington 120	Point Howard	1271.200	1291.200	Phone/Data	100	7	ZL2ARW, ZL2TRV
		614.250	443.250	F3			
Belmont ATV	Mt. Belmont	448.750	443.250	C3/F3	450	100	ZL2ARW, ZL2TAR
		619.750	448.750	TV/Phone			
Karori ATV Extender	Karori	1244.250	614.250	C3/F3	260	0.1	ZL2TRV, ZL2TAR
		1249.750	619.750	TV/Phone			
Wellington 6625	Hawkins Hill	433.250	1277.250	F3	533	25	ZL2BAC, ZL2TRV
		448.750	1282.750				
Westport 5775	Mt. Rochfort	145.775	144.650	Phone/Data	1041	20	ZL3AFN, ZL3ADB
Christchurch 5775	Cashmere	145.775	144.650	A3	193	20	ZL3RW
Timaru 6625	Mt. Horrible	146.625	146.025	A3	475	15	ZL2AFR, ZL3PN
Dunedin Linear 435	Highcliff	144.350	144.950	Phone/Data	210	2	ZL4MK
		145.775	144.650	X8			
Invercargill 5775	Bluff Hill	145.775	144.650	A3	265	15	ZL4OX, ZL4TFJ

Short Term Special Purpose FM Repeaters

These repeaters are portable and are activated for SAR, CD and other AREC use only.

Name	Output Freq.	Input Freq.	Power Out	Trustees
Auckland STSP 6825	146.825	146.225	6	ZL1MP, ZL1ARC, ZL1BNY
Auckland STSP 875	438.750	433.750	4	ZL1ARC, ZL1AKX
Masterton STSP 6725	146.725	146.125	5	ZL2FZ, ZL2TFZ
Wellington STSP 6875	146.875	146.275	25	ZL2ARW, ZL2TRV
Christchurch STSP 7275	147.275	147.875	10	ZL3RW
Alexandra STSP 6625	146.625	146.025	10	ZL4THT, ZL4JM

New Zealand Amateur Radio Beacons

Name	Site	Call	Freq. MHz	Mode	Height mASL	Power Out	Trustees
Upper Hutt 10 m	Mount Climie	ZL2MHF	28.230	F1	867	5	ZL2ACT
Auckland 6 m	Nihotupu	ZL1UHF	51.020	F1	330	25	ZL1ARC, ZL1BPW
Hawkes Bay 6 m	Fernhill	ZL2MHB	51.030	F2	100	10	ZL2KT, ZL2BIW
Manawatu 6 m	Pahiatua Track	ZL2VHM	52.250	F1	488	8	ZL2BFR, ZL2AUB
Upper Hutt 6 m	Mount Climie	ZL2MHF	52.510	F1	867	2	ZL2ACT
Blenheim 6 m	Blenheim	ZL2SIX	52.490	F2	60	10	ZL2TZP, ZL2BK
Auckland 2 m	Mount Otau	ZL1VHF	145.100	A1	337	10	ZL1ARC, ZL1BPW
Waikato 2 m	Hamilton	ZL1VHW	145.150	F1	97	10	ZL1THG, ZL1TAT
Taranaki 2 m	Inglewood	ZL2VHT	145.225	F1	239	10	ZL2TSH
Wellington 2 m	Hawkins Hill	ZL2UHF	145.200	F1	533	12	ZL2BAC, ZL2TRV
Takaka 2 m	Takaka Hill	ZL2VHN	145.280	A3	915	1	ZL2BCA, ZL2TJB
Christchurch 2 m	Christchurch	ZL3VHF	145.300	F1	30	20	ZL3RW
Dunedin 2 m	Rotary Park	ZL4VHF	145.400	F1	160	10	ZL4MK
Invercargill 2 m	Southland Hospital	ZL4VHI	145.425	A1	25	5	ZL4OX, ZL4TFJ
Auckland 70 cm	Nihotupu	ZL1UHF	433.100	F1	330	10	ZL1ARC, ZL1BPW
Waikato 70 cm	Hamilton	ZL1VHW	433.150	F1	97	10	ZL1THG, ZL1TAT
Taranaki 70 cm	Inglewood	ZL2VHT	433.225	F1	239	10	ZL2TSH
Wellington 70 cm	Hawkins Hill	ZL2UHF	433.000	F1	533	12	ZL2BAC, ZL2TRV
Takaka 70 cm	Takaka Hill	ZL2VHN	433.080	A3	915	1	ZL2BCA, ZL2TJB
Christchurch 70 cm	Marleys Hill	ZL3UHF	433.200	F1	488	1	ZL3RW
Auckland 23 cm	Nihotupu	ZL1UHF	1297.100	F2	330	10	ZL1ARC, ZL1BPW
Waikato 23 cm	Hamilton	ZL1VHW	1297.150	F1	97	10	ZL1THG, ZL1TAT
Taranaki 23 cm	Inglewood	ZL2VHT	1297.225	F1	239	5	ZL2TSH
Wellington 23 cm	Hawkins Hill	ZL2UHF	1297.000	F1	533	5	ZL2BAC, ZL2TRV
Auckland 3 cm	Nihotupu	ZL1UHF	10.25 GHz	F2	330	0.040	ZL1ARC, ZL1BPW
Wellington 3 cm	Hawkins Hill	ZL2UHF	10.25 GHz	F2	533	0.030	ZL2BAC, ZL2TRV
Wellington 24 GHz	Hawkins Hill	ZL2UHF	24.10 GHz	F2	533	0.005	ZL2BAC, ZL2TRV

NZART Repeater Rules

- The Radio Regulations to apply at all times not withstanding anything in these rules.
- The Trustees as listed on the NZPO licences have the final responsibility for the operation of the repeater.
- Repeaters are to be available for use by all licensed amateurs.
- AREC traffic has absolute priority.
- Stations using repeaters are to fully identify when calling.
- "Overs" to be kept as short as possible. They should not exceed 3 minutes. A pause of 3 seconds must be left between "overs" to allow access by users with priority traffic.
- All users must have regard for other users by ensuring that they do not use a repeater for an excessive time, especially in busy periods. If stations can work direct on simplex frequencies they should do so.
- Simplex frequencies to be used for test and system development purposes wherever possible.
- Tone digits (single or dual tones of short duration) for remote control and calling purposes are permitted on any New Zealand 2m FM repeater.
- Stations MUST also use callsigns IN SPEECH in the usual manner when using tone digits.
- The full Repeater Policy (which details the responsibilities to be accepted by users of repeaters) is published in *Break-In*, August 1981, page 31.

Designated New Zealand VHF/UHF Frequencies

52.050	SSB Simplex Calling
52.100	AM Simplex
52.525	FM Simplex
144.200	SSB Simplex Calling
144.800	RTTY Primary
144.850	RTTY
144.900	RTTY
145.800-146.000	Amateur Satellite
146.475	FM Simplex Calling
146.525	FM Simplex
146.575	FM Simplex
147.425	FM Simplex
147.475	FM Simplex
147.525	FM Simplex
147.575	FM Simplex
432.125-432.175	Amateur Satellite
432.200	SSB Simplex Calling
433.300	FM Simplex Calling
433.350	FM Simplex
433.400	FM Simplex
433.450	FM Simplex
435.100-435.300	Amateur Satellite
436.000-437.000	Amateur Satellite (Phase IIIB)
443.250	ATV Video
448.750	ATV Sound
614.250	ATV Video
619.750	ATV Sound
1269.0-1270.0	Amateur Satellite (Phase IIIB)
1296.200	SSB Simplex Calling

SHF Designated Frequencies

SUGGESTED ONLY		
Calling Frequencies	FM Calling Frequencies	30 MHz IF FM
1296.20	1297.30	—
2304.20	2305.30	2304-2334
3456.20	3457.30	3350-3380
5760.20	5761.30	5815-5845
10368.20	10369.30	10265-10295
24192.20	24193.30	24165-24195

80 Metre Calling/Listening Frequency: 3675 kHz
40 Metre Calling/Listening Frequency: 7075 kHz

GALBRAITH PROJECTS

POWER SUPPLY—PS2

Specifications: 13.5 volts at 8 amps continuous. Current limited with fold-back. Ideal for all radio equipment up to 50 watts.

Price: \$143.00. P&P \$4.50

KEYER PADDLE—GK111

Iambic key paddle, a must for those building electronic keyers. Many thousands of these sold.

Price: \$14.90. Includes P&P.

RF PRE-AMPLIFIER—RF1

2, 6, 10 metres and CB. 18 dB gain 2.5 dB NF. Kit includes all parts.

Price: \$8.95. Includes P&P.

VHF CONVERTER—RC1

Two metre MOSFET converter 20 to 200 MHz. Any IF. Complete kit except for crystal.

Price: \$14.25. Includes P&P.

RTTY TERMINAL

DT600 type receive terminal. AK3 crystal-controlled AFSK generator. RS232C In/Out. All on one double-sided PC board with power supply. This is NOT at kit. Includes PC board, five tunable potcores and full information.

Price: \$72.50. P&P \$1.50.

Magnet Driver Board. RS232C In/Out to Creed-type teleprinter magnet. PC Board only.

Price: \$7.00

NICAD BATTERY CHARGER—NC1

12 volts In 45 mA Out constant current. This is an ideal kit for charging handheld radios or torches with rechargeable batteries, from the car battery. Kit includes all parts.

Price: \$7.80. Includes P&P.

NEW FROM GALBRAITH

SWR and RF POWER METER—SML/SWR25

1 kW rating, 3.5-150 MHz, complete with two meters and UHF sockets at each end. A chance of a lifetime.

Price: \$24.00. Includes P&P.

TWO-METRE POWER AMP

1.5 W In, 25 W Out.

To be announced soon.

**GALBRAITH
PROJECTS**
P.O. Box 1733
CHRISTCHURCH

*An activity of the Christchurch Branch
of NZART*

New Zealand VHF Amateur Records

March 1985

It is well-known that Amateur Radio Operators can talk all over the world. However, there are Amateur frequency bands in the very high frequency (VHF) spectrum—above 30 MHz—which require special effort to cover distances beyond the horizon. Also, the higher the frequency used, the more difficult communication becomes.

The following are VHF distance records held by New Zealand Amateur Radio operators (ZL prefix). The callsign in parenthesis is the current call held, and the /P indicates portable operation.

Band	Record	Stations	Date	Distance (km)
6 metres (52 MHz band)	Overseas	ZL3NE to VE1AVX (Canada)	16-11-80	15 555
2 metres (144 MHz band)	Internal	ZL2ARW/P to ZL1BJB/P	03-02-82	1 069
2 metres (144 MHz band)	Overseas	ZL2HP to VK5BC (Australia)	23-12-65	3 195
2 metres (144 MHz band)	Moonbounce	ZL2BGJ to DL8DAT (West Germany)	16-11-84	18 524 (World Record)
70 cm (432 MHz band)	Internal	ZL2ARW/P to ZL1BJB/P	03-02-82	1 069
70 cm (432 MHz band)	Overseas	ZL2TGZ to VK2RU (Australia)	08-02-82	2 480
70 cm (432 MHz band)	Moonbounce	ZL3AAD to F9FT (France)	18-05-80	18 951 (World Record)
70 cm (432 MHz band)	Television	ZL2TWS/P to ZL2ASF/P	31-01-82	373
50 cm (610 MHz band)	Internal	ZL2AQE/P to ZL2ARW/P	03-12-83	44
23 cm (1296 MHz band)	Internal	ZL1THG/P to ZL2ARW/P	30-01-82	687
23 cm (1296 MHz band)	Overseas	ZL1AVZ to VK2BDN (Australia)	09-02-82	2 131
23 cm (1296 MHz band)	Moonbounce	ZL3AAD to PA0SSB (Netherlands)	13-06-83	18 788 (World Record)
12.5 cm (2300 MHz band)	Internal	ZL1THG/P to ZL2ARW/P	31-01-82	687
9 cm (3300 MHz band)	Internal	ZL2AQE/P to ZL2ARW/P	06-03-83	547 (World Record)
5 cm (5800 MHz band)	Internal	ZL2AQE/P to ZL2ARW/P	29-01-83	225
3 cm (10000 MHz band)	Internal	ZL1THG/P to ZL2BFC/P	25-01-81	390
1.25 cm (24000 MHz band)	Internal	ZL1BHX/P to ZL1BQK/P	27-10-84	39.5

The VHF records are administered on behalf of NZART (Inc.) by H. N. Wiggins, ZL2BFR. All claims must be made in writing to P.O. Box 1718, Palmerston North, giving frequencies, date, callsigns used, locations of both stations and confirmed distance.

Names of Record Holders:

ZL3NE R. M. Gyde
ZL2ARW P. R. Williams
ZL1BJB D. J. Beale

ZL2HP
ZL2BGJ
ZL2TGZ
ZL3AAD
ZL2TWS
ZL2AFS
ZL1THG
ZL1AVZ
ZL2AQE
ZL2BFC
ZL1BHX
ZL1BQK

T. J. Kendrick
G. M. Jonas
H. M. Allmand
G. E. Alderson
J. M. Wysocki
S. F. Fogerty
T. M. Bevan
B. J. Ryall
J. H. Shorland
B. L. Cattermole
A. S. Travaglia
R. V. Shackleton



Amateur Satellites

The forthcoming year looks to be an interesting one for amateur satellites. There are currently six experimental satellites, and the prospect of up to five additional satellites scheduled for launch by mid-1986. The required ground station performance to access these satellites ranges from relatively modest for the low-orbit RS series, to fairly elaborate for the high orbit OSCAR-10. The addition of satellites with digital access modes will increase the available range even further.

Satellite Frequency Allocations

International agreements make provisions for the amateur satellite service to operate in the 7 MHz, 14 MHz, 18 MHz, 21 MHz, 24 MHz, 28 MHz, 144 MHz, 432 MHz, 1260 MHz, 2.4 GHz, 3.4 GHz, 5.6 GHz, 10 GHz, 24 GHz, 47 GHz, 75 GHz, 142 GHz and 240 GHz bands.

At present technological and other limitations has led to only some of these allocations being used.

Satellite Modes

The "mode" of a satellite's operation refers to the particular amateur bands being used for the uplink (earth to space) and downlink (space to earth). The following list shows modes that are, or have been, in use:

Mode	Uplink	Downlink
A	2 m	10 m
B	70 cm	2 m
J	2 m	70 cm
K	15 m	10 m
L	23 cm	70 cm

A given satellite may operate in more than one mode and its "operating schedule" gives the times and days when a particular mode will be operating. Generally, operation is only in one mode at a time.

Operating Frequencies for current satellites

Satellite	Mode	Uplink Frequency	Maximum Uplink Power (EIRP)	Downlink Frequency	Beacon
OSCAR-9	N/A	N/A	N/A	7.001 MHz, 14.00 MHz 21.00 MHz, 28.001 MHz 2.4 GHz, 10.47 GHz	145.825 MHz 435.025 MHz
OSCAR-10	B L	435.027-435.179 1269.05-1269.85	500 W 10 kW	145.97-145.825 MHz 436.95-435.150 MHz	145.810 MHz 436.040 MHz
OSCAR-11	N/A	N/A	N/A	As for OSCAR-9*	
RS 5	A	145.91-145.95	80 W	29.41-29.45 MHz	29.41 MHz
RS 7	A	145.96-146.00	80 W	29.46-29.50 MHz	29.34 MHz
RS 8	A	145.96-146.00	80 W	29.46-29.50 MHz	29.46 MHz

*UoSAT OSCAR-11 also carries a store-and-forward packet radio transponder. Frequencies were not available at time of printing. Watch forthcoming issues of *Break-In* for details.

Orbital Parameters

The orbit of a satellite is described by a series of orbital parameters also known as Keplerian Orbital elements. In addition, two other terms are used for Earth orbiting craft. These are PERIGEE or point of closest approach and APOGEE which is the furthest distance away. While a simpler approach works for the low-altitude, circular orbit

satellites, such as OSCAR-9, 11 and the RS-series, the Phase III type craft such as OSCAR-10, have a highly elliptical orbit and require more sophisticated data to define their orbit. These are given by the Keplerian elements. The following is a list of these and their definitions:

Epoch Time (T)—This is not strictly an orbital element but rather a time reference which is needed in any element set to

indicate an instant at which the remaining numbers are valid. The epoch is usually chosen to be the middle of the observation intervals used when deriving the set.

Mean Motion (M)—The number of complete orbits the satellite makes in one day. The reciprocal of N is the PERIOD (P), the time required to complete one orbit. Once the mean motion is known, a quantity called the SEMI MAJOR AXIS (SMA), can be computed. This is defined as one-half of the straight line between the apsides (i.e. the apogee and perigee). Occasionally, either period or SMA will be given in place of the mean motion.

Mean Anomaly (M)—An indication of where the satellite is along its orbit at the epoch time. Specifically, it is a measure of time since perigee, expressed as an angular proportional quantity with 360 degrees equal to one orbital period. For example, a mean anomaly of zero says that the satellite is at perigee; a mean anomaly of 90 degrees indicates that the satellite is one-quarter past perigee.

Since satellites in elliptical orbits do not move at a constant rate, the "angle" represented by the mean anomaly does not correspond to any measurable, physical angle. However, knowing the mean anomaly and the eccentricity (see below), one can compute the TRUE ANOMALY. This is the angle (as seen from the centre of the Earth) between the perigee point and the satellite's current position measured in the direction the satellite is travelling.



Eccentricity (e)—The degree of "lopsidedness" of the orbit. $e = 0$ would be a perfect circle; $0 < e < 1$ is an ellipse; $e = 1$ is a parabola, and $e > 1$ is a hyperbola.

Now that the size and shape of the orbit have been defined, it is necessary to know how the egg-shaped orbital ellipse is rotated within its orbital plane with respect to an external reference.

Argument of Perigee (w)—The angle, as seen from the centre of the earth, measured in the orbital plane, in the direction of motion of the satellite between the equator and the perigee point. An argument of perigee between 0 and 360 degrees represents an apogee in the Northern Hemisphere.

Next, the orbital plane must be oriented with respect to an external reference frame. Two values are required. They are:

Inclination (i)—The angle between the orbit plane and the

earth's equator. An inclination of zero means the satellite is always above the equator; an inclination of 90 degrees indicates that the satellite passes over both poles on each orbit.

Right Ascension of Ascending Node (RAAN)—The angle measured along the equator, between the First Point of Aries (a reference celestial longitude) and the point on the orbit plane where the satellite crosses the equator going northward. The First Point of Aries is defined as the point at which the sun crosses the equator into the Northern Hemisphere at the first instant of Spring. "Right Ascension" is necessary here because this value refers to a fixed point in space; longitude measurements would depend on the position of the rotating earth.

Unfortunately, the elements outlined above assume a perfect earth. This is not the case in the real world and such other factors as the oblate spheroid of the earth, gravitational pull from the moon and sun, atmospheric drag and thrust all contribute to what are called PERTURBATIONS. The most important factor for most long-term change is the non-spherical shape of the earth. It causes both short- and long-term changes in the argument of perigee and right ascension of ascending node. Additionally, for low altitude satellites, drag can be appreciable.

The first factor is easily calculated from other orbital elements; the second can at best be approximated. The DRAG FACTOR ($N/2$), indicates the rate of orbital decay by its effect on the mean motion, N . A drag-free orbit has a constant N ; atmospheric drag will remove energy from the satellite and increase its mean motion at the rate of $2 \times N$ revolutions per day. But, as the satellite drops into a lower orbit, atmospheric drag will increase. Therefore, predictions based on just a single drag term are, at best, approximations.

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BOOM LENGTH: 2.1m
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FEEDLINE: single 50 or 75 ohm coax
MAST DIAMETER: up to 52mm with clamps supplied

Complete kit includes 8 fibreglass rods, heavy duty boom, mounting brackets, gamma match, wire and instructions.

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Keplarian Elements

Elements for	UO-11	AO-10	UO-9
Epoch Day	85 94.61913766	85 88.84421726	85 96.45071767
or Date	4-APR-85 UTC	29-MAR-85 UTC	6-APR-85 UTC
at Time	14:51:33.494	20:15:40.371	10:49:2.007
Decay Rate	9.00000E-07	-7.30000E-07	1.55500E-05
Eccentricity	0.0014672	0.5980595	0.0003469
R. A. A. N.	161.3191	146.0091	82.5009
Inclination	98.2029	26.1822	97.6273
Arg of Perigee	93.0612	0.0300	131.2995
Mean Anomaly	267.2313	0.1738	228.8525
Mean Motion	14.61956704	2.05858183	15.27129519
S.M.A., km	7064.9555	26102.7953	6862.4921
Orbit Number	5828	1349	19428
Ht at Apogee (km)	697.161	35335.660	486.713
Ht at Perigee (km)	676.430	4113.611	481.952
Anom Period	98.498129	699.510692	94.294556
Elements for	RS-5	RS-7	RS-8
Epoch Day	85 94.70048541	85 91.41562912	85 95.72789763
or Date	4-APR-85 UTC	1-APR-85 UTC	5-APR-85 UTC
at Time	16:48:41.939	09:58:30.356	17:28:10.355
Decay Rate	4.00000E-08	4.00000E-08	4.00000E-08
Eccentricity	0.0008496	0.0021670	0.0018440
R. A. A. N.	344.8842	342.0018	346.8867
Inclination	82.9667	82.9654	82.9651
Arg of Perigee	217.5568	152.4003	279.1657
Mean Anomaly	142.4875	207.8193	81.7287
Mean Motion	12.05049706	12.08692145	12.02952683
S.M.A., km	8036.4171	8020.2636	8045.7539
Orbit Number	14505	14509	14492
Ht at Apogee (km)	1665.085	1659.483	1682.430
Ht at Perigee (km)	1651.429	1624.724	1652.758
Anom Period	119.497145	119.137036	119.705456

FORTHCOMING SATELLITES

Satellite	Mode	Launch Date	Orbit	Origin
OSCAR-12	B, J/L, L (Packet)	March 1986	High	AMSAT
JAS-1	J (linear) and J (Packet)	January 1986	Low	JAMSAT
ARSENE	B	March 1986	High	RACE
RS-9	A	?		Radio Sport Federation
				USSR
RS-10	A, K	?		Radio Sport Federation
				USSR

RTTY (Baudot, ASCII)

RADIO TELETYPE

Operating Frequencies

80 metres 3610-3640 kHz
40 metres 7040-7060 kHz
20 metres 14080-14100 kHz
15 metres 21080-28100 kHz
10 metres 28080-28100 kHz

Selcal and Net Frequencies (Net)

80 metres 3545.00 kHz \pm 30 kHz
40 metres 7045.00 kHz \pm 30 kHz

Selcal Stations (as at 1/4/85)

Station	Access Code	Operating Times
ZL1AMW	WRUZ	24 hours
ZL2HO	WRUB	weekdays 1800-2400 weekends/holidays—24 hours
ZL2SD	WRUF	most evenings and weekends
ZL2ADU	WRMH	most evenings and weekends
ZL2OL	nnnn	24 hours
ZL2AL	MENU	most evenings and weekends

Engineering Net now 3615 kHz SSB

News Bulletins are broadcast every Sunday as follows:

1000 hours NZ 40 metres Baudot 50 Bauds ZL1AMW
1900 hours NZ 80 metres ASCII 110 Bauds ZL1AMW
1930 hours NZ 80 metres Baudot 50 Bauds ZL1AMW/
ZL1AVY

ARRL broadcasts daily at 0200, 0500 and 2300 hours UTC
on 7095, 14095, and 21095 kHz.

WIA broadcasts Sundays:

7045 and 14095 at 1230 UTC
3545 at 0930 UTC

Standards

RTTY is generally sent on LSB on all bands.

Mark 2125 Hz tone.

Space 2295 Hz tone.

Shift 170 Hz.

Speed is generally 45.45 Bauds but many stations including all Selcal stations use 50.0 Bauds.



W.A.R.O.
N.Z. WOMEN AMATEUR
RADIO OPERATORS

President: Jeanne
Gilchrist, ZL2BOD

Callsign: ZL2YL

WARC was formed in 1961-62 by a small but keen group of YL transmitters and has steadily grown both in numbers and enthusiasm ever since.

For the annual subscription (constantly under review, but \$5.00 in 1984-85) members receive four quarterly Bulletins containing items of interest to operators and friends, with special attention to YL activities.

Associated members—YLs who do not have a transmitting licence are welcome, as are YLs from overseas, many of whom are sponsored by ZL members.

Objects:

To promote and encourage friendship and interest in Radio amongst women Radio Amateurs.

Officers 1984-85

President: Jeanne Gilchrist, ZL2BOD.
Vice-President: Lyn Sayer, ZL2PQ.
Secretary: Catherine Purdie, ZL2ADK.
Treasurer: Laureen Tubby, ZL1BTP.

Award Custodian and Contest Manager

Vicki Shaw, ZL1OC, P.O. Box 2088 Whakatane, N.Z.

National YL Net

Celia Reed, ZL1ALK, Net Controller.

Second Monday each month at 8 p.m.—3700 kHz.

South Island Net

Anne McMaster, ZL3VR, Net Controller.

First Monday each month at 8 p.m.—3700 kHz.

North Island Net

Shirley Freeman, ZL1MY, Net Controller.

Third Monday each month at 8 p.m.—3700 kHz.

All held at 9 p.m. NZDT during daylight saving.

Sub-Editor to Break-In:

Marilyn Thorp, ZL2BOA,
110 Riverhead Road,
Napier.



A.R.E.C. AMATEUR RADIO EMERGENCY CORPS

with JIM MEACHEN ZL2BHF

AREC Procedure

In most AREC search operations outside stations are quite often called upon to assist with relay work and these stations find difficulty in following AREC operating procedure. The following is the *basic* procedure for Telephony. CW procedure is covered in the AREC Manual.

1. *Establishing contact:* "ZL2EXA ZL2EXA ZL2EXA. This is ZL2EX. How do you copy? Over."
2. *ZL2EXA acknowledges as follows:* "ZL2EX this is ZL2EXA Roger, your signals, Readability 5, strength 8, go ahead. Over"
3. *ZL2EX replies:* "Roger. I have message for you. Message begins. ZL2EX 1, 121320. Addressed Andrews. Text begins. Weather here fine. Signature Gorman. End of message. Over."
4. *ZL2EXA replies:* "Roger No. 1. I have no traffic for you. Over."
5. *ZL2EX replies:* "Roger. No further traffic here. Over."
6. *ZL2EXA replies:* "Roger. ZL2EX, this is ZL2EXA, out."



6

Note 1: The use of the signing procedures "over" and "out". When you sign "out" it is very desirable to check the channel before you call your next station. Signing out means you have finished your contact final finals should be avoided.

Note 2: You will see callsigns have been omitted except for calling and signing. Callsigns should, however, be used (a) when other stations are in the operating net, (b) when conditions are poor and there could be some doubt. In these cases the operating station simply signs over as follows: "ZL2EX this is ZL2EXA Over."

The use of correct operating procedures, whilst it may appear irksome and over-efficient to some, does save considerable time if every operator is aware of what to expect. We should aim at efficiency; efficiency saves time, and seconds are very valuable when a channel is busy. No one objects to the odd wisecrack or personal remark; these all help to relieve the tension, but these remarks must be kept to times when channels are not busy. If a channel is busy, be brief and clear messages quickly and efficiently. Should an operator have an urgent message to clear, he should break in on the channel and say so — but he should use his discretion with the degree of urgency of his message — bearing in mind that out-station traffic must, for obvious reasons, have priority in the use of the channel.

Note 3: The procedure phrase "Break" is never to be used as a directive to another station to transmit. The correct signal for this purpose is the word "over".

EMERGENCY PROCEDURES

Emergency and Distress Calling:

Where it is required to attract attention in cases of emergency or distress, there are certain phone and CW calls that are internationally recognised. These should be employed only where absolutely necessary for safety of life or property.

DISTRESS: On CW send "SOS" (send this as a single signal); on phone say "Mayday". These signals indicate that the sender is in grave and imminent danger and requests immediate assistance. The distress call has **absolute priority** over all other transmissions.

(This signal has absolute priority over all other signals. All stations that hear it must immediately cease any transmission capable of interfering with the distress traffic, and shall continue to listen on the frequency used for the distress call. The call is not to be addressed to a particular station, and acknowledgement of receipt shall not be given before the distress message, which follows it is sent.)

URGENCY: On CW send "XXX XXX XXX"—send each letter distinctly. On phone say "PAN" (pronounced "pahn") three times. These signals indicate that the calling station has a very urgent message to transmit concerning the safety of a ship, aircraft, vehicle, or some person on board or in sight. The urgency signal has priority over all other communications except distress.

SAFETY: ("TTT" or "SECURITE" spoken three times, (pronounced "SAYCURITAY") indicating a navigational or meteorological warning.

It is allowable in cases of *extreme emergency* to use any frequency or mode of transmission whatever, if the operator considers that he may thus obtain assistance more quickly—but this action should only be taken when normal methods are inadequate.

When using distress or urgency signals always announce call sign and location and if no contact is made, keep calling with the important parts of the information—you may be heard by some station which is unable to reply.

AREC EMERGENCY FREQUENCIES

AREC is permitted to operate on the following frequencies which are reserved for AREC use in emergencies:

1875-1900kHz

3500

3900

7100

2m frequencies by local arrangement.

The general calling frequency for stations requiring assistance in emergency is 3900 kHz. Upper Sideband and this frequency is monitored by AREC personnel during such mishaps as severe storms, power failures, earthquakes, etc.

Once the initial contact has been made, transmission should be made only on 3.9MHz or 3.5MHz.

The callsigns given on this page are the basic section callsigns. In an AREC Section operation or practice, base callsign is to be a three-letter callsign ending in "A".

The basic two-letter callsign of the Section is allocated to the Section Leader on a permanent basis.

AREC CALLSIGNS

ZL1EA	Auckland
ZL1EH	North Shore
ZL1EC	Hamilton
ZL1ED	Te Awamutu
ZL1EE	Taumarunui
ZL1EF	Waihi
ZL1EG	Northland
ZL1EH	Waikato East
ZL1EI	Thames
ZL1EJ	Tauranga
ZL1EK	Western Suburbs
ZL1EL	Cambridge
ZL1EM	Eastern Bay of Plenty
ZL1EN	Franklin
ZL1EO	Kawerau
ZL1EP	Waitomo
ZL1EQ	Rotorua
ZL1ER	Tokoroa
ZL1ES	Papakura
ZL1ET	Taupo
ZL1EU	Manukau
ZL1EV	Te Puke
ZL1EW	Rodney
ZL1EY	Opoitiki
ZL1EZ	Northern Wairoa
ZL1EA	Far North
ZL1EB	Te Aroha
ZL1EC	Hibiscus Coast
ZL1EA	Gisborne
ZL1EB	New Plymouth
ZL1EC	Central Hawkes Bay
ZL1ED	Wanganui
ZL1EE	Hastings
ZL1EF	Kapiti
ZL1EG	Northern Hawkes Bay
ZL1EH	Dunnevirke
ZL1EI	Manawatu
ZL1EJ	Wairarapa
ZL1EK	Rahotu
ZL1EL	Upper Hutt
ZL1EM	Wellington
ZL1EN	Nelson
ZL1EO	Marlborough
ZL1EP	Inglewood
ZL1EQ	Napier
ZL1ER	Waimarino
ZL1ES	Horowhenua
ZL1ET	Titahi Bay
ZL1EU	Pahiatua
ZL1EV	Patea
ZL1EW	Marton
ZL1EY	Hutt Valley
ZL1EZ	Tawa
ZL1EA	Feilding
ZL1EB	Hawera
ZL1EA	Christchurch
ZL1EB	Westland
ZL1EC	South Canterbury
ZL1ED	Ashburton
ZL1EE	South Westland
ZL1EF	Reefton-Buller
ZL1EG	Rangiora
ZL1EH	Kaikoura
ZL1EA	Otago
ZL1EB	Eastern Southland
ZL1EC	Southland
ZL1ED	Balclutha
ZL1EE	Otago Central
ZL1EF	North Otago
ZL1EG	Queenstown
ZL1EX	Area Communications Officer, Auckland
ZL1EX	Communications Manager, Wellington
ZL1EX	Area Communications Officer, Christchurch
ZL1EX	Area Communications Officer, Dunedin

The three-letter callsigns of the Section first called upon to provide communications shall be used for all stations in the forward area, and shall be allocated by the Section Leader of that Section. In a mountain search, the callsign ending in "A" is to be allocated to the base station in control of the base to road-end operations (e.g. Local Police Station or Local SAR centre); the callsign ending in "B" to the main road-end station; the one ending in "C" to the station controlling communications in the forward area, (i.e. the Field Search Headquarters); and the remainder of the callsigns to other stations as required.

Where a station is required to operate as a relay for distant stations his basic Section call sign plus the letter "X" should be used as the Relay Station call sign (e.g. ZL2ELX).

AREC SECTION LEADERS NET

A monthly net of all AREC Section Leaders is held on the third Monday of each month at 7.30 p.m. The Net is conducted by the OC AREC, ZL2EX, on 3900 Hz Upper Side-band.

THE PHONETIC CODE

The Phonetic Code should be used with considerable discretion. Its primary purpose is to obviate confusion between letters and figures which have similar sounds, e.g., BCDEGPTV, AKJ, MN, QU, FS, TWO, THREE, FIVE, NINE.

The possibility of confusion increases greatly under adverse operating conditions such as adjacent channel interference, high level of acoustic and electrical background noise, poor audio quality (including inferior articulation), fading, etc. Under these conditions more frequent use of the phonetic code may be necessary. However, when there is a complete absence of interference of any kind and signals are perfectly readable, phonetics can be eliminated except for difficult place names, proper names, and unusual words. Regardless of the quality of the circuit phonetics should always be used for callsigns during the establishment of initial contact. It is important to memorise the code thoroughly and to avoid using substitute words.

For prompt delivery of Break-In

ensure that the
correct postal code
has been printed
on the wrapper

Phonetic Alphabet

Some words are likely to be misunderstood when passed over radio telephone circuits, due to phonetic similarity. A number of phonetic alphabets have been introduced to overcome this. The following being the most generally accepted at the present time.

A	ALFA	AL fah
B	BRAVO	BRAH voh
C	CHARLIE	CHAR lee
D	DELTA	DELL tah
E	ECHO	ECK oh
F	FOXTROT	FOKS trot
G	GOLF	GOLF
H	HOTEL	hoh TELL
I	INDIA	IN dee ah
J	JULIETT	JEW lee ETT
K	KILO	KEY loh
L	LIMA	LEE mah
M	MIKE	MIKE
N	NOVEMBER	no VEM ber
O	OSCAR	OSS cah
P	PAPA	pah PAH
Q	QUEBEC	Kwee BECK or Key BECK
R	ROMEO	ROW me oh
S	SIERRA	see AIR rah
T	TANGO	TANG go
U	UNIFORM	YOU nee form or OO nee form
V	VICTOR	VIK tor
W	WHISKEY	WISS key
X	X-RAY	ECKS ray
Y	YANKEE	YANG kee
Z	ZULU	ZOO loo
1		WUN
2		TOO
3		THUH-REE
4		FO-WER
5		FIYIV
6		SIX
7		SEVEN
8		AIT
9		NINER
0		ZERO



OLD TIMERS CLUB

Compiled by **COLIN MORRISON, ZL1BGJ**

Assisted by **DON SUTHERLAND, ZL2AJL**

The objects of the Old Timers' Club (ZL) are set out in our Constitution adopted in 1954. They are as follows:

- (a) To recognise service to Amateur Radio;
- (b) To revive and maintain interests and good fellowship among the older members in the common cause.
- (c) To offer aid to Young Timers.

Full Membership is available to any ZL amateur who has held an amateur licence for the last 25 years or more and is still an active amateur. In addition, Associate Membership is available to any ZL amateur who has attained the age of 60 years (and over) and has been an active amateur for 20 or more years. Voting privileges are not available to Associate Members.

No subscription or entrance fee is payable. However, a small donation is acceptable with the membership application to assist the Club's modest expenses, mainly postage and stationery, which are helped from time to time with other small donations.

Application for Membership forms may be obtained from a member of the Districts Representative Committee or from the National Secretary and evidence of eligibility which is to be submitted shall include:

1. Date of original licence;
2. Operator's Certificate number;
3. Original Callsign held and any others;
4. Present Callsign and address;
5. Full name;
6. Sufficient postage to cover postal charges;
7. All applications for membership must be proposed and seconded by two members of the OTC.

On acceptance a Certificate is issued to all Full and Associate Members. In addition, a further handsome Certificate of Merit is presented to those members who attain 50 years and 60 years of Amateur Service.

The Club is duly affiliated to the New Zealand Association of Radio Transmitters.

All correspondence should be addressed to the National Secretary:

**G. E. Brown,
35 Chamberlain Street,
NELSON.**

If a reply is expected, please enclose a stamped, self-addressed envelope.

OFFICE BEARERS

Patron: D. Wilkinson, ZL2AB.

Grand Old Man: J. W. Black, ZL2AX.

General Secretary: G. E. Brown, ZL2BD.

Net Chairman: J. W. Black, ZL2AX.

Assistants: J. E. Gawn, ZL2US;

S. P. Wills, ZL3AV;

G. E. Mason, ZL3AY.

80 Metres: C. J. Barnes, ZL2QH.

Districts Representative Committee:

A. E. Allen, ZL1JQ;

J. E. Gawn, ZL2US;

L. C. Hunter, ZL3BJ;

K. H. Shore, ZL4AI.

Assistants:

G. C. Rouse, ZL1AQ;

R. H. Hanley, ZL2GU;

E. W. Belcher, ZL3QY;

V. R. Jackson, ZL4BO.

OTC Column in Break-In:

Scribe: C. W. Morrisson, ZL1BGJ;

Assistant Scribe: D. C. Sutherland, ZL1AJL.

Certificates Preparation:

L. E. C. Johnson, ZL1VX

National Nets are held every Sunday from 10.00 a.m. with a formal start at 10.30 a.m. on the 40 and 80 metre bands as follows:

7058 \pm kHz (SSB, AM, CW)

3850 kHz AM (A3).

Should conditions on 40 metres be unsatisfactory, the Net Controller may decide that the Net will QSY to 80 metres on 3755 kHz. Please check this frequency if in doubt.

Awards: The Old Timers' Club Cup is an Annual Award made on a non-competitive basis to the elected GRAND OLD MAN of the year. A Certificate, in keeping with this grand office, is presented to the holder, as a permanent reminder.

The Montgomery Cup, also, is available for presentation on an annual basis, to a member or members who have contributed the most worthy item or articles to *Break-In*.

A supplement up-dating the Directory of Members of the OTC (the *Blue Book*) may be obtained from the National Secretary at the cost of \$1.00 POST FREE. The total cost of the Directory (plus the Supplement) remains at \$3.00 POST FREE.



DX-ING

With **RON MURPHY, ZLIAMM**

The early days of radio gave us the terminology DX—D for distance and X for mileage as an unknown quantity. An early simple broadcast band receiver usually with an inverted L aerial and it was an unknown mileage indeed with those low strength signals crackling through the ether from distant countries at optimum times of the year. Then came the advent of shortwave frequencies and more regular reception resulted throughout the year until we have today's conditions and sophisticated equipment but the DX terminology is still retained.

As with all hobbies it is what you put into it that decides the outcome. We all have our personal commitments which determine the amount of motivation, time and financial outlay available for amateur radio. It can be great fun, fascinating, enjoyable and on occasions, with chasing DX, most frustrating. It is possible to work the world with the simplest of radio equipment and wire antennas but it will take time. On the other hand you can speed up the process by outlaying your finances to equip the station with the most modern radios and the biggest antenna farm. In the urban area you are not likely to have land available for an antenna farm so must compromise with a monoband or multiband antenna. Out on the farm is the reverse and the opportunity to erect all the antennas you may desire. Here we must appreciate the advantages of our country-dwelling associates with their antenna farms when they give better signal reports to DX stations. Sometimes we in the cities cannot even hear the station that they are fortunate to QSO and some listeners even have queried if our country friend is only talking make believe? It can be truly appreciated when driving through the country areas to view these antenna installations.

To this point you will have decided on your capital outlay on equipment and the physical space available for the antennas. A well-tuned antenna is critical if you wish to radiate efficiently the RF power generated by the transmitter. If you are just commencing your activities on the higher frequencies it will be found easy to work a considerable number of countries within the first few months while present band conditions continue. Most countries on the DXCC list have resident amateur operators so regular activity on the bands will gain you a considerable number. If you wish to improve your countries tally then listen out for news of forthcoming DXpeditions to the rarer ones and concentrate on making time available for when they are in operation. Much DX news is available from reading various publications and listening on the bands or to DX nets.

While it's true that working DX is relatively easy, one can still get the feeling of knocking one's head against the proverbial brick wall. This usually comes from trying to work the one station on the band that everyone in the world needs and making that attempt on 20-metre SSB with 100 watts to a dipole when propagation is favouring another call area. At that particular time, all that's happening is that one is creating additional QRM with no possible chance of getting through. To save frustration and increase enjoyment of our

hobby, it would be better to think about how to approach DXing to get maximum enjoyment out of the equipment available. The DX sport should be approached much differently with a 6 element monobander than with 100 watts to a dipole.

DXing can be 75 per cent operator and 25 per cent station. That's part of the reason that big stations sometimes lose out in the pile-ups while a smaller station with an operator who knows how to time his calls may get through first. Operating techniques to get you through faster can be learned and will also enhance your overall operating enjoyment.

Propagation is the great equaliser in both contest and DX operating. The important thing to recognise here is that when you have it, you have it, and when you don't, you don't. Recognition of your propagation advantage is important, as you can call for hours without propagation and just be creating QRM for others and frustration for yourself. Familiarisation by listening on the bands can help, as you can learn what times to work desired areas and also what bands to use at different times of the day. A successful DXer listens, listens, listens, . . . A good tip is to load up on the band prior to listening then you are ready to immediately transmit should a wanted station be heard. Many a station can be lost in the subsequent pile-up should you be slow off the mark. If in doubt, seek out the advice of an experienced DX operator.

Many DXpeditions and DX stations prefer to work you on a different frequency, one will then find that a remote VFO or a good receiver incremental tuning (RIT) on your transceiver, or to have a separate receiver and transmitter combination, a must, in order to work them. To illustrate, if a DX station is working on 14.195 MHz, he will indicate to the listener where he will listen for you and others to transmit; calling on his frequency, you will receive no reply. Always there are the few who try to work the DX stations several times to make sure that they are in the log; a number of leading DXers in these DXpeditions will wipe the call from the log if seen more than once per band, those who contact several times are only jeopardising other's chances.

On CW a DXpedition station is usually found lower in frequency than the pile-up. Start tuning very slowly and carefully because he is usually coming back in short bursts of calls and reports and it is easy to pass over the frequency. Once you have identified him then it is necessary to find out his operating style or technique. Where is he listening? Is he picking the calls at random on different frequencies or is he going up the band or down? Endeavour to find the stations he is working and establish the pattern. Once you know that, try to zero beat the last contact on the frequency or just slightly up or down. With a reasonable signal this is usually the quickest way to work him. It is well worth the time to find out the pattern. Alternatively you can just pick a frequency in his listening area and keep calling until hopefully he finds you.

As an aid in working DX, time charts and an azimuth map based on ZL are very useful in your search for DX. From the

map you can work out the short and long paths to various much sought-after countries of the world.

An accurate time-piece in the shack cannot be over-emphasised and if you are a DXer always be on UTC. If you should also need to have local time then install a second time-piece for that purpose. Remember to check the UTC clock at regular intervals for accuracy and double check after you have worked a rare country to make sure that the entry in his log will coincide closely with your timing.

When QSLing a DX station you should always put the time in UTC (GMT or Z) and not NZST and always remember to write the date as July 6 1984 and not 6/7/1984. If your SSB contact was two-way, mark your QSL as such; this small thing may help to give somebody more joy for some coveted award.

When QSLing to a DX station send a card via the ZL Bureau if it is to a common enough country and he is agreeable but if the DX amateur states to send it direct, do so and not by the bureau, noting in your log the way sent. Some stations indicate to send by a QSL Manager. Many of the managers are featured in QSL Managers lists and other DX publications. It is advisable not to write call signs or other radio jargon on mailing envelopes to remote areas.

When you apply direct to a QSL manager then it is essential that you include a self-addressed envelope and sufficient International Reply Coupons (IRCs) to cover return postage. On average, send three coupons for an airmail reply. Your reply envelope should be of a large size (160x110mm) as QSL card dimensions vary considerably.

Reply coupons are available from post offices or enquire of your local NZART branch secretary or trading table for any surplus made available by local members. Double check your QSL card that it has all the details correct to enable the manager to instantly find your QSO in the log otherwise it will go into the holding tray. The waste paper basket is the end result if you have the date or frequency band wrong and some tolerance just may be granted for a small time discrepancy. Do not waste your postage by having been careless. Rarely does the DX station particularly want your card so the sending of his card is normally a favour to you. Please make his continued enjoyment of the hobby free of unnecessary frustrations with the logs.

On writing direct to an operator for his card then it is again essential to adopt the same procedures as with the QSL managers. An exception is when you discuss in your QSO as to whether IRCs are to be included. With ever increasing costs the average operator is not prepared to finance direct postal replies and you will not receive a reply.

One should keep a book on the rare DX stations, hard to confirm States, unusual prefixes or information on missing zones and countries on various bands. QSL cards to managers should show where sent, when, how sent and how long it takes to get back, will be of assistance to you in your pursuit of that elusive DX.

Remember, the ZL DX News Net on 3.600 MHz at 0730Z each Friday, check in or monitor and gain for yourself current DX information.

GOOD LUCK and BEST DXING.

New Zealand Counties

1st District

Bay of Islands
Coromandel
Franklin
Gt Barrier/Waiheke
Hauraki Plains
Hobson
Hokianga
Mangonui
Matamata
Ohinemuri
Opotiki
Otamatea
Otorohanga
Piako
Raglan
Rodney
Rotorua
Taumarunui
Taupo
Tauranga
Thames
Waikato
Waipa
Waitemata
Waitomo
Whakatane
Whangarei
Whangaroa

2nd District

Akitio
Awatere
Clifton
Cook
Dannevirke
Egmont
Eketahuna
Eltham
Featherston
Golden Bay
Hawera
Hawkes Bay
Horowhenua
Hutt
Inglewood
Kairanga
Kiwitea
Manawatu
Marlborough
Masterton
Oroua
Pahiatua
Patangata
Patea
Pohangi
Rangitikei
Stratford
Taranaki

Waipu

Waikohu
Waimarino
Waimate West
Waimera
Waipawa
Waipukurau
Wairarapa South
Wairoa
Waitotara
Wanganui
Woodville

3rd District

Akaroa
Amuri
Ashburton
Ashley
Buller
Chatham Islands
Cheviot
Ellesmere
Eyre
Geraldine
Grey
Halswell
Heathcote
Inangahua
Kaikoura
Kowai

Levels

Mackenzie
Malvern
Mt Herbert
Oxford
Paparua
Rangiora
Tawera
Waimairi
Waimate
Waipara
Wairewa
Westland

4th District

Bruce
Clutha
Fiord
Lake
Maniototo
Peninsula
Southland
Stewart Island
Tairi
Tuapeka
Vincent
Waihemo
Waikouaiti
Waitaki
Wallace



CONTESTS & AWARDS

with **JOCK WHITE, ZL2GX**
and assistant **PETER KENNY, ZL2QK**

Award Notes

When applying for an award, whether through NZART or through an Overseas Society, courtesy demands that you observe the following: (1) PRINT your name, address and callsign; (2) Clearly state what award (and endorsements) you are applying for; (3) Supply checking sheet with callsigns, dates of QSOs, mode, etc. (4) Enclose required funds (currency: IRC stamps) as requested.

For NZART Awards

1. The usually accepted rules apply to all NZART awards.
2. NZART stresses the HONOUR SYSTEM. Awards applicants need NOT hold QSL cards for claimed contacts. It is sufficient to merely certify that the QSO was legitimately made. Thus no QSL rule applies ONLY to NZART sponsored awards.

3. Endorsements for mode/time/location etc. made at applicant's request.
4. Stamps or currency from any country accepted instead of IRC but cheques NOT desirable.
5. Post applications to Awards Manager ZL2GX, 152 Lytton Road, Gisborne, New Zealand.

***APPLICATION FORMS suitable for most awards are available from Contest Manager (SASE please).

Cost of Awards

NB—Cost given for awards are those for ZL applicants. Overseas applicants pay \$1 for each NZART award EXCEPT WAP (\$2.00) and 5x5 (\$2.00) or where reciprocal arrangements have been made. Airmail postage is \$1 extra.

ENZART

A PRESTIGE AWARD TO HONOUR NZART

1. In three parts—(A) Basic award requires 200 points with endorsements for 250, 300, 350 points. (B) Honour award requires 400 points with endorsements for each additional 50 points. (C) HONOUR PLAQUE for 500 points.
2. Points earned as follows by contacting an NZART member who is on the voting roll of the Branch concerned—Phone QSO, 1; CW QSO, 2; Club Station QSO, 2; YL op. QSO, 1; UHF, VHF QSO, 1; Mobile QSO, 1; AMSAT QSO, 1; Branch President QSO, 1.
3. It is essential to clearly determine that the operator contacted is a financial member of NZART and on the voting roll of the Branch concerned.
4. Contacts claimed with a Branch Station must be from a Clubroom or other permanent headquarters, or alternatively when the station is being operated in a contest, from an exhibition, or other activity of a similar kind. Contacts as a result of callsign "swapping" at a member's QTH are not eligible.
5. Contacts with mobiles are eligible only when the mobile station is within 30 miles of his Branch's Clubrooms or his own QTH. (Note rule 3 above.)
6. One station may be claimed in several categories—e.g., the Branch President can be claimed for both phone and for CW as well as for Branch President—but EACH claimed must be for a separate contact, and the contacts must be not less than 24 hours apart.
7. Contacts must be "phone to phone" or "CW to CW".
8. "Club Net" contacts are not eligible until the net concludes, while contacts made in an organised "awards net" with MC etc., are not eligible.
9. Permanent changes of QTH by claimant are permitted and likewise contacts made during genuine temporary operation.
10. ZL applicants must be members of NZART and all applicants must certify that each contact made fulfils award requirements. No QSL card need be held or submitted but applications must be made on special Check List—cost 10 cents plus SASE (large). Contacts must date 1/11/76 or later.
11. Each certificate costs \$1. Endorsements free but SASE required.
12. Applications to NZART Awards Manager, ZL2GX.

WAP

"WORKED ALL PACIFIC"

Contacts required with 30 different "Oceania Countries" from WAP list—

Because prefixes change from time to time, no prefixes are given in the list of eligible countries. The point of eligibility is the COUNTRY—not the prefix. Cost \$1.50.

Eligible countries . . . (Any Oceania country)
(i.e.) eligible as Oceania for WAC. (See DXCC list.)

Five Band WAP

Contact any 30 eligible Pacific Countries (as count for Oceania for WAC), each on FIVE different bands making a total of 150. Send list of log extracts (QSLs not required to be held) to Awards Manager . . . with \$6. REWARD: Wooden Shield surmounted with NZART badge and suitably inscribed. (Extra overseas postage for AIRMAIL \$2.)

WAD

A VHF AWARD

Contacts required on any VHF band (or mixture of VHF bands) with ZL1, ZL2, ZL3, ZL4. Cost—\$1.00. Endorsement for Satellite QSOs.

NZA

NEW ZEALAND AWARD

Available to all radio amateurs other than ZL.

Requirements:

- 35 contacts with ZL1,
- plus 35 contacts with ZL2,
- plus 20 contacts with ZL3,
- plus 10 contacts with ZL4,
- plus 1 contact with ZL "territory"—
- either from N.Z. Antarctica, Chatham Is.; Kermadec Is; or Campbell Is. This one contact may be substituted by 20 ordinary ZL contacts if desired.

This makes a minimum of 101 contacts which should be dated from December 8, 1945. (Cost \$1.00.)

PLEASE NOTE:

Designation ZL1, ZL2, ZL3, ZL4, . . .

1. Because of licensing policy, the prefix ZL1, ZL2, ZL3, ZL4 does not necessarily indicate a specific location in a "callsign area".
2. Until NZART policy on this matter has been clarified and promulgated in *Break-In* the following rulings will prevail . . .

Awards:

Credit will be given for the station contacted ACCORDING TO ITS LOCATION irrespective of prefix—in one of the four licensing areas.

Contests:

Because of the difficulty of a short "rational explanation" during a contest, credit will be given for the PREFIX, irrespective of location.

WAZL

"WORKED ALL NEW ZEALAND"

Contacts required for 45 different Branches of NZART—EXCEPT FOR OVERSEAS APPLICANTS (for whom only 35 are required). Special endorsement when WAZL completed within 12 month period. NB: Mobiles operating outside their own Branch Area must use the Branch Number of the area in which they are operating (for WAZL credit). Cost \$1.

NZART BRANCHES FOR WAZL

01 Ashburton	42 Titahi Bay
02 Auckland	43 Waihi
03 Western Suburbs	44 Matamata Radio Club
04 Cambridge	45 Waimarino
05 Christchurch	46 Wairarapa
06 Dannevirke	47 Waitara
07	48 Wanganui
08 East Southland	49 Westland
09 Egmont	50 Wellington
10 Franklin	51 Eastern Bay of Plenty
11 Gisborne	52 Northern Hawkes Bay
12 Hamilton	53 Te Puke
13 Hastings-Havelock Nth	54 Patea
14 Hawera	55 Waitomo
15 Hawke's Bay Central	56 Christchurch West
16 Horowhenua	57 Tokoroa
17 Huntly	58 Helensville
18 Hutt Valley	59 Mangakino
19 Inglewood	60 Taupo
20 Manawatu	61 Central Otago
21 Manakau	62 Reefton-Buller
22 Marlborough	63 Upper Hutt
23 Marton	64 North Otago
24 Motueka	65 Papakura
25 Napier	66 Auckland VHF
26 Nelson	67 Kawerau
27 New Plymouth	68 North Canterbury
28 Northland	69 Kapiti
29 North Shore	70 Feilding
30 Otago	71 Rodney
31 Pahiatua	72 Opotiki
32 Rahotu Coastal	73 Northern Wairoa
33 Rotorua	74 Wellington VHF
34 South Canterbury	75 Queenstown
35 South Otago	76 Kaikoura
36 South Westland	77 Te Aroha & Districts
37 Southland	78 Far North
38 Taumarunui	79 Howick & Districts
39 Tauranga	80 Hibiscus Coast
40 Te Awamutu	81 Waikato VHF Group
41 Thames Valley	82 Southern Wairarapa

VHFCC

VHF CENTURY CLUB

100 points required from QSOs with ZL stations on the following basis:

50 MHz band contacts count 1 point.

144 MHz band contacts count 3 points.

432 MHz band contacts count 6 points.

(Further bands may be added in the future.)

The same station may be claimed once on any one band but may be claimed repeatedly on different bands.

Endorsement stickers available for 200, 300 400, 500 points. (Cost \$1.00.)

NZC

NEW ZEALAND COUNTIES

Basic award requires contacts with 20 different New Zealand Counties. Endorsements for 40, 60, 80, 100 are made with a special certificate for 112. Map showing Counties is on page 167, while checking sheet is available from NZART (see below).

1. Initial certificate with any or all endorsements to 100 costs \$1.
2. Separate endorsements to 100, after issue of basic award, cost 20 cents for any group—or 1 IRC. Plus SASE.
3. Special Certificate for "NZC 112" costs \$1.
4. Checking Sheets which MUST be used and which are returned to applicant for record purposes cost 20 cents (1 IRC).
5. NZC "224" the "224" Shield was instituted to recognise very outstanding achievement—that of "double 112" with different stations contacted in the relevant counties for each NZC 112. Current cost is \$10. Applicants for NZC 224 must first hold TWO NZC 112 awards.
6. The operator on a "County DXpedition" whether mobile or Fixed Portable may claim that County for his own NZC credit.
7. The original "Counties List" will be maintained irrespective of deletions or additions. The criteria will be the actual area of operation which must be determined by the honour of the operator.
8. Overseas applicants extra \$2 for postage on "224" plaque.

"5x5"

FIVE BY FIVE

This Premier Award has been instituted to recognise the increasing interest in Five Band DX operation. The initial award requires that the same station be contacted on five bands repeated with five different DXCC countries. First endorsement after a further five has been contacted (total of ten) with the 20 endorsement requiring another ten and so on to 100. Certified list with full QSO data and fee of \$2 which includes all endorsements. Certificate is outstanding and is overprinted in embossed gold. Contacts must date from 1945. Applications to ZL2GX.

NZLA

NZ LAKESIDE AWARD

1. For Basic Award, contacts are required with stations operating on the shores of TEN (10) freshwater lakes in New Zealand. Endorsements for each additional 10 lakes up to 40; Honour Award for 50 lakes with further endorsements for each additional 10.
2. Stations must be located within ONE kilometre of the water or in a town on the lake shore.
3. Full rules are with the Check Sheets which MUST be used when applying for NZLA—these cost 20 cents plus SASE (large).
4. Basic Award costs \$1, and large SASE for any endorsement; Honour Award is \$1 and SASE for any endorsement.
5. Check sheets from Awards Manager ZL2GX, to whom all applications must be directed.
6. Eligible contacts must date 1/5/76 or later.

NOTE: Check Sheets are returned to applicant and make up a complete record of lakes credited towards award. Basic work for this award was done for NZART by Mike Groth ZL1AHF.

"ZL-72" Award

Overseas stations work 50 different ZL stations during 1972: ZL stations work 100 as follows: 35 ZL1, 35 ZL2, 20 ZL3, 10 ZL4 during 1972. Certified list with \$1 to Awards Manager ZL2GX.

"ZL-73" "ZL-74" "ZL-75" "ZL-76" "ZL-79" "ZL-80" "ZL-81" "ZL-82" "ZL-83" etc.

Rules as for ZL-72 except ZL and/or ZM are acceptable. Certificate will be rather unusual but appropriate. All applications to ZL2GX.—(GCR) or 25 contacts on 160 with all districts represented.

"ZLA" Award

Contacts required with Auckland City ZL1, Wellington City ZL2, Christchurch City ZL3, Dunedin City ZL4, Antarctica ZL5, Campbell Island, Chatham Island, Kermadec Island. Applications must send certified list to Awards Manager ZL2GX with \$1 or stamps from country of applicant. Specially produced certificate.

MIA

MINOR ISLANDS AWARD

For contacts with minor islands off the NZ coast—e.g. Kapiti Island; Portland Island; Great Barrier Island; Little Barrier Island; Waiheke Island; D'Urville Island; Rangitoto Island; Kuwau Island; Motutapu Island; etc. from which FIVE contacts are required. Certified list with \$1 to ZL2GX.

N.B. So called "islands" in Auckland area which are connected to mainland by a causeway are not eligible.

ZL1 Award

Basic Award required contacts with 125 stations dating post-war. Endorsements 175 and 250.

ZL2 Award

Basic Award requires contacts with 100 different ZL2 stations dating post-war. Endorsements for 150 and 200.

ZL3 Award

Basic Award requires contacts with 50 different ZL3 stations dating post-war. Endorsements for 75 and 100.

ZL4 Award

Basic Award requires contact with 25 different ZL4 stations dating post-war. Endorsements for 35 and 50.

Note: Cost of ZL1/2/3/4 Certificates is \$1 each with any endorsements. Further endorsements will cost 10 cents or 1 IRC UNLESS a new certificate is required instead of the "sticker", in which case the cost is 35 cents. On issue, certificates will be endorsed for band/mode as requested and for any yearly period of time (January through December). Such endorsements are of course available to applicants at any time after the initial award has been made. ZL or ZM combination is OK. APPLICATIONS with list to ZL2GX.

Tiki Award

Work five different ZLs, each on FIVE different hands dated-post war. Cost \$1.

CJC

CAPTAIN JAMES COOK AWARD

To perpetuate the memory of this world famous navigator and seaman— in three classes: 1. Basic "Sailor Class" requires contacts with — G in Yorkshire; FO8, ZL2; VK2; KH6 . . . For "Officer Class" "Sailor Class" contacts as well as ZL1, ZL3, ZL4, VK3, VK4, VK9 New Guinea, and any Antarctic station . . . For "Command Class", as for "Officer Class" as well as any five of the following VE2, VO, VR5, YJ8, FK8, CE8, KI7. Certified list (confirmations not required) with \$1 to ZL2GX.

Antipodes Award

All-round Achievement recognised as—

1. TECHNICAL

(a) Stations of claimant (receiver, transmitter, antenna) to be home built, to be completely of amateur design and construction which the operator has personally developed and constructed.

(b) Commercially constructed equipment or kits from any source are not eligible.

2. OPERATING

Three QSOs to be made with stations (these stations NOT required to meet above requirements) in the general "antipodes continental area" of the claimant (e.g. ZL to Europe).

APPLICATIONS TO ZL2GX (NZART) with \$1 with certification that rules have been observed. (Award suggested by ZL2AMJ.)

Other Awards—Not Official

IARU REGION III OPERATING AWARD

To publicise Region III

1. The award is available to licensed amateurs and SWLs.
2. Contacts made after April 5 1982 are eligible but certificates will date from January 1 1983 as part of WORLD COMMUNICATIONS YEAR.
3. QSL cards NOT required. Send certified list of eligible contacts from Log Book.
4. Cost is \$1 surface (\$2 airmail) for postage charges only.
5. Basic Award requires seven countries; Silver Star endorsement requires 12 countries; Gold Star endorsement requires 17 countries.
6. Awards may be endorsed for any mode or band.
7. Eligible countries: Japan; Australia; New Zealand; Korea; Philippines; Hong Kong; Thailand; Papua New Guinea; Fiji; Singapore; India; Indonesia; Malaysia; Sri Lanka; Tonga; Western Samoa; Solomon Islands.
8. Applications to NZART Awards Manager, 152 Lytton Road, Gisborne, New Zealand.

AUCKLAND BRANCH CERTIFICATE

For Overseas Stations ONLY—to QSO eight members of Auckland Branch (02) since 1-1-57. Branch Station ZL1AA counts as two members. NO QSLs required—send list of stations worked with relevant QSO data. N.B. NOT all Auckland stations are members of Auckland Branch.

WORKED NEW ZEALAND NOVICES AWARD

To encourage QSOs with NZ Novices. For Basic Award QSO 10 New Zealand Novices, including ONE from each of ZL1, ZL2, ZL3, ZL4 districts. Endorsements for 25 (two QSOs from each call area); 50 (five QSOs from each call area); 100 (ten QSOs from each call area), with all contacts on or after 1-10-79. Certificates may be endorsed "all CW" or "all phone". No QSLs required. . . . send certified list with relevant QSO data. Novice Band is 3.525 to 3.575MHz.

APPLICATIONS FOR ABOVE to Awards Manager, Auckland Branch, Box 18-003, Glen Innes, Auckland. Cost is \$1 for each certificate with no charges for endorsement.

CHRISTCHURCH AWARD



Requirements: Christchurch amateurs 25 different stations; rest of ZL—15 stations; VK—10 stations; rest of world—5 stations. Cost: ZL's 50 cents; others US\$1.00 or equal. Applications to Awards Manager, Box 1733, Christchurch.

BAY OF PLENTY AWARD

Overseas stations contact 5 stations in the area (Opoiki, Rotorua, Tauranga, Whakatane) while ZL require 10 or 5 on VHF. Send certified list with 8 IRC or 50 cents to ZL1BJP, 36 Western Road, Otumotetai, Tauranga.

HOROWHENUA AWARD

For contacts in Branch 16 area—Levin, Otaki, Waikanae, Shannon, with bonus points for amateurs in various categories. Involved rules—apply for details. E. Tombs, ZL2IG, Ihakara, R.D. 1, Levin, with SASE.

KAPITI AWARD

Contacts since 1-1-76 with Kapiti Club (Branch 69) as follows—Stations in ITU Region 1—5 contacts; Region 2—7; Region 3—9 except for VK and ZL which require 15 contacts on bands 160 to 10 or 5 contacts on VHF/UHF. Contacts with club station ZL2KB counts as two ordinary contacts. Net and repeater contacts ineligible; ONE contact only with any one club member; special endorsements for single band all phone all CW. Certified list with 3 IRC or 50 cents US for DX (50 cents for ZLs) to Box 1608, Paraparaumu Beach.

MANAWATU AWARD

For overseas stations working FIVE stations who are members of Manawatu Branch NZART. Certified list and \$1 or 5 IRCs to ZL2AFT, 431 Albert Street, Palmerston North.

NELSON MOBILE AWARD

1. Mobile to Fixed, 100 points required (must include two Branch 26 contacts).
2. Mobile to Mobile, 50 points required (must include one Branch 26 contact).
3. Fixed to Mobile, 100 points required (must include one Branch 26 contact).
4. Worked Mobiles in 40 NZ Counties (must include one from Waimea).
5. Worked Mobiles from 35 NZ Branches (must include one from Branch 26).
6. Mobile station to work 35 prefixes.

One point for each contact in own radio district, two points in adjacent districts and three points in alternative or DX. First two Branch 26 contacts count four points each. Duplicate contacts are not allowed except in County section.

QSLs not required. Two Amateurs should verify the log submitted. Refer to full details in July 1969 *Break-In*. CHC rules apply.

Applications with \$1 (endorsements 25 cents) to Nelson Branch, Box 463, Nelson.

PAPAKURA RADIO CLUB "21" AWARD

For contacts with 20 members of Papakura Radio Club PLUS ZL1VK dating from 1/1/77. Band/mode endorsements; certificates not numbered; cost 50 cents. Apply to Miss C. Johnson, ZL1AJL, 63 Red Hill, Papakura.

GISBORNE AWARD



Requirements: Contacts after January 1, 1969, as follows:

Gisborne amateurs—10 different stations

ZL—four stations

rest of world—two stations.

Cost: \$1. Apply to ZL2GX.

REEFTON-BULLER AWARD

Basic Award requires contact with any five Branch members; Merit Award requires in addition to Basic that ZLs contact — one Branch 62 Mobile, one XYL, and the Club Station ZL3WP while overseas stations contact any of those mentioned. Special merit for contacts made in 1973 between October 1 and December 31. No QSLs required. Send certified list with S1 to ZL2GX. List of members, etc., available from Branch 62 Secretary.

UPPER HUTT AWARD

Available to amateurs SWLs with any required endorsement for contacts after July 2, 1972 with stations operating in Upper Hutt Valley which count as ONE point except YL ops and Club Station ZL2VH which count as TWO points. Upper Hutt applicants require total of 15 points; rest of NZ require ten; Overseas require five points. Certified list with FULL QSO data (no QSL cards) with 50 cents or 5 IRCs to Upper Hutt Award, Box 40-212, Upper Hutt, NB; Mobile stations operating in the Valley count as a contact. Upper Hutt Club members outside the Upper Valley also count as a contact. No repeater contacts eligible.

WANGANUI AWARD

For contacts since 1/1/82 with permanent residents in the Wanganui area—one point; with Wanganui-based mobile stations regardless of location—one point; with ZL2JA—two points. Overseas stations require three points; ZLs require eight points on HF bands or six points on VHF bands (repeater contacts not acceptable).

QSO details with S1 to ZL2AHR, Box 7058, St. Johns, Wanganui.

WESTERN SUBURBS RADIO CLUB AWARD

For contacts with any New Zealand amateur station. Use last letters of call signs to make up words WESTERN SUBURBS RADIO CLUB. Branch 03 members may be used as bonus to replace any missing letters. Endorsement for band / mode. Certified list with 50 cents (overseas 6 IRC or S1) to WSRC, P.O. Box 15-122, New Lynn, Auckland 7.

HUTT VALLEY AWARD

One point for contacts dating after March 1, 1976, with members of Branch 18—any band; mode but NO repeater contacts eligible; TWO points for any YL contact; TWO points for contacts with Club Station ZL2HV and two extra points if applicant uses equipment operated by power generated on the site from natural sources (wind, solar, water, etc).

ZLs require total of ten points; overseas stations five points. Endorsements for additional five points and MERIT for single band operation or when all contacts are on CW. Applications with details of equipment used, etc., and fee of S1 to Awards Manager, Box 30-519, Lower Hutt, New Zealand.

**See *Break-In* April 1983 for details of "50th ANNIVERSARY AWARD" for period March 1-December 31 1983.

WARO AWARDS

General:

Contacts may be in any mode, any band, with applicant's contacts all from the same QTH (except as in VHF section), but contacts via repeaters, in WARO nets or contests are ineligible for WARO Awards. No QSLs are required. Send list certified by one other licensed radio amateur to Custodian, Vicki Shaw, ZL1OC, P.O. Box 2088, Whakatane, with sufficient postage for return of Award.

WARO Main Award:

ZL and VK stations work 12 WARO members resident in New Zealand; DX stations work six. Contacts to date from June 1, 1969. Endorsement seals available to ZL and VK stations for each additional 12 contacts, DX stations six. Contacts with DX members of WARO qualify for endorsements but applications must contain at least three ZL contacts.

VHF Section:

Ten VHF contacts with WARO members dating from January 1, 1979. WARO members and/or applicants may be home station, mobile or portable. Endorsements for each additional five.

SWL Section:

ZL and VK stations list 20 contacts heard with WARO members, DX list 10, dating from January 1, 1979. List full log details with call signs of both stations concerned. Endorsements for each additional 10 (5 for DX stations).



PANIA OF THE REEF

An old Maori legend tells how Pania, lured by the siren voices of the sea people, swam out to meet them. When she endeavoured to return to her lover, she was transformed into the reef which now lies beyond the breakwater at Napier, New Zealand.

RSGB Awards



N.B.: South Africa contacts must date before June 1, 1961.

1. Send to NZART Awards Manager for RSGB Awards application form for all RSGB Awards—this lists all acceptable call areas.
2. Return completed application form to NZART Awards Manager with QSL cards for certification. Cards and list will then be returned.
3. Post application to RSGB with British Postal Note for 7/- for each award.

WBC—

WORKED BRITISH COMMONWEALTH

Confirmations required from British stations in each of the five recognised continental areas—America; Asia; Oceania; Africa; Europe.

BCTRA—BRITISH COMMONWEALTH RADIO TRANSMISSION AWARD

Confirmations required from 50 call areas in the Commonwealth. Endorsements available for modes/bands.

BCRTA—BRITISH COMMONWEALTH RADIO RECEPTION AWARD

As for BCRTA above except for SWLs only.

DXLCA—DX LISTENERS' CENTURY AWARD.

For SWLs only, 100 different countries confirmed as per RSGB Countries list.

CDX—COMMONWEALTH DX CERTIFICATE

Confirmation required from 50 Commonwealth call areas on 14 MHz in addition with at least 50 call areas on bands other than 14 MHz, making a total of 100 call areas. A most attractive certificate.



ARRL Awards

WAS—WORKED ALL STATES

Send checking list with confirmations from the 50 States of the USA direct to ARRL. (Also 5 Band WAS.)



DXCC—DX CENTURY CLUB

DXCC certificate and Lapel Badge are available as follows . . .

1. **MIXED**—contacts in any mode made since 15/11/45.
2. **PHONE**—contacts on phone only made since 15/11/45.
3. **CW**—contacts made on CW since 1/1/75.
4. **RTTY**—contacts made on radioteletype since 15/11/45.
5. **160 METRES**—contacts made on 160 metres since 15/11/45.
6. **SATELLITE**—contacts made since 1/3/65 through polar-sun synchronous satellites of altitudes less than 1500 miles.

ENDORSEMENTS are available (EXCEPT for 160-Metres and RTTY DXCCs) for accredited totals between 100 and 250 in groups that will at least bring the new total to a number divisible from 25; for totals between 250 and 300 in groups that will bring the new total to a number divisible by 10; for totals over 300—to a number divisible by five.

APPLICATIONS must be posted direct to ARRL, 225 Main Street, Newington, Conn., U.S.A. 06111 with QSL cards and a check list with countries claimed listed in order as given in DXCC Countries List.

CHARGES—none except sufficient funds for safe return of QSL cards. This must be by Registered Mail—for 100 cards.

5BDXCC—FIVE BAND DXCC confirmations required from 100 different countries on five different bands since 1/1/69. Phone and/or CW may be used. Applications must be made on a special form available only from ARRL.

New Zealand Post Office Frequency Allocation List for Amateur Stations

Valid from January 1, 1985

NOTES

Frequency Band	Notes	Use restricted to Certificate holders of
1800 to 1950 kHz	3 and 6	Grades I and II
3.50 to 3.90 MHz	1 and 3	Grades I and II
3.525 to 3.575 MHz	1 and 3	Novice
7.00 to 7.10 MHz	1 and 2	Grade I
7.10 to 7.30 MHz	7	Grade I
10.10 to 10.15 MHz	1, 3 and 6	Grade I
14.00 to 14.35 MHz	1 and 2	Grade I
18.068 to 18.168 MHz	1 and 3	Grade I
21.00 to 21.45 MHz	1 and 2	Grade I
27.12 MHz	4 and 8	Grades I, II and III
28.00 to 29.70 MHz	2	Grades I and II
28.10 to 28.60 MHz	2	Novice
50.00 to 50.15 MHz	9	Grades I and II
51.00 to 53.00 MHz	3	Grades I, II and III
144.0 to 146.0 MHz	1 and 2	Grades I, II and III
146.0 to 148.0 MHz	3	Grades I, II and III
430 to 449.75 MHz	2 and 3	Grades I, II and III
610 to 620 MHz	3	Grades I, II and III
1.24 GHz to 1.30 GHz	2 and 3	Grades I, II and III
2.30 GHz to 2.45 GHz	2, 3 and 4	Grades I, II and III
3.30 GHz to 3.50 GHz	2 and 3	Grades I, II and III
5.65 GHz to 5.85 GHz	2, 3, and 4	Grades I, II and III
10.0 GHz to 10.5 GHz	2 and 3	Grades I, II and III
24.00 to 24.05 GHz	2 and 4	Grades I, II and III
24.05 to 24.25 GHz	3 and 4	Grades I, II and III
47.0 to 47.2 GHz	2	Grades I, II and III
75.5 to 76.0 GHz	2	Grades I, II and III
76.0 to 81 GHz	2 and 3	Grades I, II and III
119.98 to 120.02 GHz	3	Grades I, II and III
142 to 144 GHz	2	Grades I, II and III
144 to 149 GHz	2 and 3	Grades I, II and III
241 to 248 GHz	2 and 3	Grades I, II and III
248 to 250 GHz	2	Grades I, II and III
275 GHz to 400 GHz	5	Grades I, II and III

The class of emission from an amateur station should be selected in the light of the total available bandwidth for all users and shall be in accordance with current operating practice.

- The bands at 3.5 MHz, 7.0 MHz, 10.1 MHz, 14.0 MHz, 18.068 MHz, 21.0 MHz and 144 MHz are available for use by all stations at times of natural disaster in connection with international relief operations.
- The bands 7.0 to 7.1 MHz; 14.0 to 14.25 MHz; 21.00 to 21.45 MHz; 28.0 to 29.7 MHz; 144 to 146 MHz; 435 to 438 MHz; 1260 to 1270 MHz (earth-to-space direction only); 2.4 to 2.45 GHz; 3.40 to 3.41 GHz; 5.65 to 5.67 GHz (earth-to-space direction only); 5.83 to 5.85 GHz (space-to-earth direction only); 10.45 to 10.5 GHz; 24.0 to 24.05 GHz; 47.0 to 47.2 GHz; 75.5 to 81 GHz; 142 to 149 GHz; and 241 to 250 GHz may be used for amateur satellite communications.
- This band is shared either on an equal or on a secondary basis with other radio services. Amateur use is on a strict non-interference basis to stations of these other services.
- The frequencies 27.12 MHz, 2.45 GHz, 5.8 GHz; and 24.125 GHz are designated for industrial, scientific and medical (ISM) purposes with emissions confined within ± 163 kHz, ± 50 MHz, ± 75 MHz, and ± 125 MHz respectively of these frequencies. Amateur stations operating within these limits must accept interference from ISM equipment.
- The band 275 to 400 GHz is allocated for use by amateur stations on a temporary and non-interference basis for experimentation and development purposes.
- Until further notice the following spot frequencies are not to be used: 1800 kHz (± 3 kHz), 1860 kHz (± 3 kHz), 10.130 MHz (± 3 kHz). The frequencies of 1850 kHz-1950 kHz should be used with caution as they are also used for navigation purposes.
- Operation is on a strict non-interference basis to broadcasting services.
- Telecontrol and telemetry operation only. Power not to exceed 5 watts.
- The band 50-50.15 MHz is allocated for temporary use on a non-interference basis to existing services. Operation is only permitted outside television programme hours.

New Zealand Bandplans

These plans help you comply with the official Frequency Allocation List: *The class of emission from an amateur station shall be selected in the light of the total available bandwidth for all users and shall be in accordance with current operating practice.* These plans represent current operating practice.

Band (MHz)	Emission (see notes)
1.8-1.95	6
3.5-3.55	N
3.55-3.9	6
7.0-7.03	N
7.03-7.3	6
10.1-10.15	N
14.0-14.1	N
14.1-14.35	6
18.068-18.11	N
18.11-18.168	6
21.0-21.1	N
21.1-21.45	6
24.89-24.93*	N
24.93-24.99*	6
27.12 ± 0.163	T
28.0-28.1	N
28.1-29.5	6, B, S, 10
29.5-29.7	10
50.0-50.15	6
Amateur Bands 51 to 440 MHz	30, B, R, S
Amateur Bands 440 MHz to 1.3 GHz	7, B, R, S
All Amateur Bands above 2.3 GHz	W, B, R, S
*When available.	

Notes

N = Narrow-band modes: i.e. CW and RTTY. RTTY operating is normally at the high-frequency end of the segment. *Call Book*-listed selcal (RTTY selective calling) frequencies should be avoided by stations using other modes. SSB phone may be used for morse practice texts by stations in 3.53-3.55 MHz segment.

6 = All modes except MCW and AFSK, to a MAXIMUM bandwidth of 6 kHz.

10 = All modes except MCW and AFSK to a MAXIMUM bandwidth of 10 kHz.

30 = All modes to a MAXIMUM bandwidth of 30 kHz.

7 = All modes to a MAXIMUM bandwidth of 7 MHz.

W = Wideband modes.

B = Beacons: Transmitting on *Call Book*-listed beacon frequencies should be avoided.

R = Repeaters: Transmitting on *Call Book*-listed repeater frequencies should be avoided for direct contact in their service areas.

S = Satellites in current use: Terrestrial contacts are not recommended in the segments 29.3-29.5, 145.8-146.0, 435-438, 1260-1270 MHz and on higher satellite-used frequencies.

T = Telecontrol and telemetry only.

See page XX for designated frequencies and detailed bandplans.

All amateurs are reminded of:

- The ITU Radio Regulations (Edition of 1982), including:
 - 307. The bandwidths of emissions shall also be such to ensure the most efficient utilisation of the spectrum; in general this requires that bandwidths be kept at the lowest value which the state of the technique and the nature of the service permit.
 - 1804 All stations shall radiate only as much power as is necessary to ensure a satisfactory service.

- The New Zealand Radio Regulations 1970, including:
 - 40. (Not to cause harmful interference to other stations).
 - 45. (No monopoly of allocated frequencies.)
 - 145. (Permitted power limit.)
- NZART Current Policy, Section 12A, Bandplans, (*Break-In*, page 2, October 1983):
 - d. All radio amateurs are requested to observe the published New Zealand bandplans which are to assist others to follow their interests with minimum impact on you, and to assist you to follow your interests with minimum impact on others.

Explanatory Information on Classes of Emission

A new method of classifying emissions was developed at the World Administrative Radio Conference, Geneva, 1979 (WARC-79). Full details are contained in Article 4 of the International Radio Regulations. The following is a condensed summary for amateur radio purposes:

1. There are three parts to the expression:

- (i) The first four characters express the necessary bandwidth with the unit of bandwidth being placed at the position of decimal point.

e.g. 200H = 200 Hertz bandwidth

4K00 = 4 kHz bandwidth.

- (ii) The next group of three characters express the type of modulation and the nature of the modulating signal:

e.g. A3E: A = Double sideband

3 = A single channel containing analogue information.

E = Telephony.

J3E: J = Single sideband, suppressed carrier

3 = A single channel containing analogue information

E = Telephony

- (iii) The last two characters express further information on the nature of the modulating signal but are not mandatory.

(Most amateur signals do not need the last two characters.)

e.g., JN: J = sound of commercial quality.

N = Nature of multiplexing. (None is used in amateur emissions so N is always used.)

NOTE: It is mandatory to use three (without bandwidth), seven, or nine characters when expressing a class of emission.

2. Two common types of amateur signals (CW and SSB are expressed in the following form:

*100HA1A = 100 Hertz bandwidth. Continuous wave telegraphy, morse code, i.e., CW.

†2K70J3E = 2.7 kHz bandwidth Telephony, single sideband suppressed carrier (single channel).

3. The Tables below show the designations of amateur emissions. These are the fifth, sixth, and seventh characters of the expression:

Fifth character—type of modulation:

Amplitude Modulation

A = Double sideband

B = Single sideband, full carrier

R = Single sideband, reduced or variable level carrier

J = Single sideband, suppressed carrier

B = Independent sideband

C = Vestigial sideband

Angle Modulation

F = Frequency modulation

G = Phase modulation

Phase Modulation

K = Amplitude modulated

L = Modulated in width/duration

M = Modulated in position/phase

Sixth character—Nature of signal(s) modulating the main carrier.

1 = A single channel containing quantised or digital information without the use of a modulating sub-carrier

2 = A single channel containing quantised or digital information with the use of a modulating subcarrier

3 = A single channel containing analogue information

Seventh character—Type of information:

A = Telegraphy—aural reception (CW)

B = Telegraphy—for automatic reception (RTTY)

C = Facsimile

D = Data, telemetry, telecommand

E = Telephony

F = Television

The special eighth and ninth characters used in amateur transmission are:

Eighth—Details of signal:

K = Narrow band voice modulation

M = Monochrome television

N = Colour television

Ninth—Nature of Multiplexing

N = None.

THE R-S-T SYSTEM

Readability

1—Unreadable.

2—Barely readable, some words distinguishable.

3—Readable with considerable difficulty.

4—Readable with practically no difficulty.

5—Perfectly readable.

Signal Strength

1—Faint signals, barely perceptible.

2—Very weak signals.

3—Weak signals.

4—Fair signals.

5—Fairly good signals.

6—Good signals.

7—Moderately strong signals.

8—Strong signals.

9—Extremely strong signals.

Tone

1—Extremely rough hissing note.

2—Very rough AC note, no trace of musicality.

3—Rough low-pitched AC note, slightly musical.

4—Rather rough AC note, moderately musical.

5—Musically-modulated note.

6—Modulated note, slight trace of whistle.

7—Near DC note, smooth ripple.

8—Good DC note, just a trace of ripple.

9—Purest DC note.

If the signal has the characteristic stability of crystal control, add the letter X to the R-S-T report. If there is a chirp, the letter C may be added to so indicate. Similarly for a click, add K.

This reporting system is used on both CW and voice, leaving out the "tone" report on voice.

*Previously expressed as A1
†Previously expressed as A3E

Amateur Radio Service Examination Syllabus

(Information supplied by the NZ Post Office—from Pamphlet RT4)

General

1. The examination for an Amateur Operator's Certificate is set within the provisions of the Post Office Act and Radio Regulations made thereunder. It does not replace any examination provided for under the Electrical Registration Act 1979.

2. Except as provided for in Regulation 73, an Amateur Operator's Certificate may be issued only to a natural-born or naturalised British subject, who is not less than 14 years of age.

3. There are three grades of Amateur Operator's Certificate which provide for the operation of amateur stations on authorised frequencies as follows:

Grade I: All New Zealand Amateur Bands.

Grade II: 1800–1950 kHz, 3500–3900 kHz, 27.12 MHz, 28.00–29.70 MHz, 50.00–50.15 MHz, 51.00–53.00 MHz and bands above 144 MHz.

Grade III: 27.12 MHz, 51.00–53.00 MHz, and bands above 144 MHz.

4. In addition, provision is made for a Novice Licence (see paragraphs 14 to 27).

Syllabus

5. To obtain an Amateur Operator's Certificate of Grade III, a candidate is required to pass an examination comprising:

Section A: A written examination in the elementary principles of electricity, radio communication techniques, and in the adjustment and operation of radio apparatus used in a typical amateur station (see also Appendix 1); and

Section B: A written examination in such of the radio regulations as are applicable to the amateur service.

6. To obtain an Amateur Operator's Certificate of Grade II, a candidate is required to pass an examination comprising:

Sections A and B (see paragraph 5); and

Section C: A morse operating test, both sending and receiving, each for a period of three minutes, at a speed of twelve words a minute, five letters comprising a word. The receiving test is to be written.

7. To obtain an Amateur Operator's Certificate of Grade I, a candidate is required to have operated in the bands allocated to Grade II operators below 50 MHz for at least a year and to have had not less than 50 contacts in this band. In addition the candidate is required to show by a further morse operating test (as outlined in Section C of paragraph 6 above) that he is still capable of sending and receiving 12 wpm. On satisfying these requirements a certificate of Grade I will be issued.

8. If the holder of a Certificate of Grade III subsequently passes a morse operating test of 12 wpm he will be issued with a Certificate of Grade II.

Partial Pass

9. Credit will not be given for a pass in individual sections except where a candidate in the examination for a Certificate of Grade II passes Sections A and B but fails in the morse operating test, a partial pass will be granted. This will remain valid indefinitely.

Date of Examination

10. The examination is conducted on the first Wednesday, in March and September. The morse operating test is held in the morning and Sections A and B between the hours of 1.30 p.m. and 4.30 p.m. Morse operating tests to complete partial passes or to qualify for a Certificate of Grade I are held on the first Wednesday of each month. The written sections cannot be taken separately.

Recounts

11. Recounts of examination marks may be obtained on application to the nearest Post Office Engineer's Office.

Applications

12. Intending candidates should make application at the nearest Post Office Engineer's Office on Form Radio 8 which should show whether the examination is for a Certificate of Grade I, Grade II, or Grade III. The candidate's birth certificate should accompany the application which must reach the Engineer's Office not later than the first of the month preceding that in which the examination is held.

Fees

13. For a Certificate of Grade II or Grade III: \$13.00. For a morse test only, i.e., to complete a partial pass, Grade II or to qualify for a Grade I Certificate: \$6.00. Recounts: \$6.00 for each section of the examination.

* * *

NOVICE AMATEUR OPERATORS

Syllabus

14. To obtain a licence for novice operation a candidate is required to pass an examination comprising:

(1) A simple written examination in the elementary principles of electricity, and radio communication techniques, covering the subjects detailed in Appendix 1.

(2) A written examination in such of the radio regulations as are applicable to the amateur service; and

(3) A morse operating test, both sending and receiving, each for a period of three minutes, at a speed of six words a minute, five letters comprising a word. The receiving test is to be written.

15. No exemptions or credits will be granted in respect of any section of the examination, except that the holder of a Grade III Amateur Operator's Certificate will be granted a licence for novice operation on passing the morse test as outlined in sub-paragraph (3) above.

Holders of Grade III certificates will not be permitted to sit the morse test for a novice qualification at times other than those set down for the novice examination.

16. No partial passes will be granted in respect of any section of the novice examination and no credits will be granted for any section of subsequent amateur operators examinations.

Examinations

17. Examinations will be conducted on the first Wednesday of February and August. The morse operating test is held in the morning and the written papers between the hours of 2.00 p.m. and 4.00 p.m.

18. Failure in the morse operating tests will automatically fail a candidate for a novice qualification. Candidates who

fail the morse test may, if they wish, sit the written sections of the examination on the understanding that no credits will be issued in respect of any section.

Applications

19. Intending candidates should make application at the nearest Post Office Engineer's Office (see also paragraph 12). Applications will not be accepted from persons who have previously held a licence for novice amateur operation or from those holding a Grade I or Grade II amateur operators certificate.

Fees

20. The fee for the novice examination is \$13.00

Licences

21. No certificate will be issued to the successful candidates, but licences and callsigns may be obtained from the Radio Inspection Branch of the local Post Office Engineer's Office upon payment of the licence fee of \$13.00.

22. Licences will not be issued to persons under 14 years of age.

23. Successful candidates in the examination who are under 14 years of age may take up the licence on their 14th birthday on the understanding that the licence expires on the date prescribed, or delay until the start of the first novice licensing period following their 14th birthday.

Validity of Licences

24. Licences for novice amateur operators are non-renewable and will be issued for a maximum period of one year. Under no circumstances will the period of validity be extended beyond the expiry date shown on the licence.

25. Licences issued following the February examination will be valid from April 1 to March 31 the following year, and those issued following the August examination will be valid from October 1 to September 30.

Special Conditions

26. The following special conditions will apply:

- (1) Operation is restricted to CW and AM (including SSB) in the band 3525-3575 kHz and 28.10-28.60 MHz.
- (2) Power is restricted to 10 watts DC input to the final RF stage.

Callsigns

27. Callsigns will be issued from a series beginning ZL1NAA, ZL2NAA, ZL3NAA or ZL4NAA as appropriate.

* * *

Text Books

28. The following books are suggested for study purposes:
Radio Communication Handbook, 5th Edition. Volumes 1 and 2. Published by the Radio Society of Great Britain.

The Radio Amateur's Handbook, American Radio Relay League. Published yearly.

Basic Radio Training Manual, published by the New Zealand Association of Radio Transmitters.

The above-mentioned books are available from the New Zealand Association of Radio Transmitters (Inc.), P.O. Box 40-525, Upper Hutt.

The Radio Regulations (1970) (reprint) and Amendments is available from Government Bookshops.

Specimen Papers

29. Copies of specimen examination question papers may be obtained from Post Office Engineer's Offices at a cost of 50c per set.

APPENDIX I

Electrical Principles

Sources of EMF. Physical and electrical properties of resistors, capacitors and inductors. Electrical properties of resistors, capacitors and inductors both individually and in combination when connected to a source of alternating or direct voltage and the effect of varying the frequency of the alternating voltage on these properties. The relationship between peak, RMS and mean value of a waveform. The use of Ohm's Law to relate voltage to current flowing through an impedance and the determination of power dissipated in that impedance. The electrical properties of resonant circuits both coupled and individual. Schematic diagram symbols.

Thermionic valves and semi-conductor devices

General construction, operation and electrical characteristics of valves and semi-conductor devices. Biasing methods. Basic circuit configurations and variations involving input impedance, output impedance and gain. Amplifier classification. Positive feedback and oscillator types. Frequency synthesis. Gates and diode switching. Power rectification, smoothing and voltage regulation. Distortion, harmonics, negative feedback, push-pull operation.

Receivers

Principles of operation and factors influencing the performance of receivers intended to receive the permitted modes of emission on any frequency available to the amateur operator.

Propagation

The means of propagating radio waves of any frequency available to the amateur operator. Factors which influence propagation conditions.

Antennas

Characteristics of common types of antenna both directional and non-directional. Transmission lines. Standing wave patterns and standing wave ratios. Coupling of transmitters to transmission lines and transmission lines to antennas.

Transmitters

Methods of generating and increasing the level of radio frequency energy using any of the permitted modes of emission on any frequency available to the amateur. Technical characteristics of the various modes of emission available to the amateur operator. Transmitter adjustments. Microphones.

Interference

Frequency stability. Means of preventing or reducing to acceptable levels unwanted emissions. Means of eliminating or reducing interference to nearby electronic equipment.

Measurements

Measuring instruments. Measurements of frequency, power, alternating and direct voltage and current, resistance, standing waves. Use of the oscilloscope.

Safety

Safety precautions and resuscitation practices.

Post Office—Regional and District Engineer's Offices

- All amateur radio licensing matters.
- Examinations for Amateur Radio Operator's Certificate.

District	Address	P.O. Box	Phone No.
POST OFFICE HEADQUARTERS Radio Regulatory Section	Wellington East Post Office 21-23 Cambridge Terrace, Wellington	9343	850-009
Whangarei	Post Office, Rathbone Street, Whangarei	442	81-299
Auckland	Regional Engineer's Office, Federal Street, Auckland	—	792-920
Hamilton	District Engineer's Office, Hamilton	Private Bag	391-199
Rotorua	Post Office, Hinemoa Street, Rotorua	141	73-899
Gisborne	District Engineer's Office, Grey Street, Gisborne	1144	84-199
Napier	Post Office, Napier	341	53-299
New Plymouth	State Insurance, Gill Street, New Plymouth	540	80-989
Wanganui	Post Office, Ridgeway Street, Wanganui	422	54-477
Palmerston North	District Engineer's Office, Palmerston North	Private Bag	68-179
Masterton	Telephone Exchange, Lincoln Road, Masterton	455	84-189
Wellington	Anvil House, Wakefield Street, Wellington	293	859-999
Nelson	Post Office, Nelson	542	82-289
Greymouth	Post Office, Greymouth	Private Bag	4044
Christchurch	St. Elmo Court, Hereford Street, Christchurch	1473	794-500
Timaru	Post Office, Thames Street, Timaru	545	81-179
Dunedin	Post Office, Dunedin	605	742-878
Invercargill	Post Office, Dee Street, Invercargill	813	48-800

Maidenhead Locator System

Folke Rasvall, SM5AGM

The earth's surface is divided into 18×18 "fields", each one 20° (longitude) $\times 10^\circ$ (latitude). Each field is divided into 10×10 "squares", each one $2^\circ \times 1^\circ$. Each square is finally divided into 24 \times "sub-squares", each one $5' \times 2.5'$. The fields are indicated by two letters, the squares by two digits and the sub-squares by two letters. The direction of the numbering is always west to east and north to south in all parts of the earth's surface.

Many readers might now ask why the system is based on $2^\circ \times 1^\circ$ blocks instead of $1^\circ \times 1^\circ$. There are two reasons for this. The first and most important reason is historical. Thousands of amateurs in Europe have used thousands of hours to collect the $2^\circ \times 1^\circ$ squares and many countries declared that any new locator must be based on the old $2^\circ \times 1^\circ$ squares to be acceptable. The original reason that $2^\circ \times 1^\circ$ was chosen thirty years ago was that Europe was so far from the equator that $2^\circ \times 1^\circ$ blocks look more like squares than $1^\circ \times 1^\circ$. The other reason is that if we want to arrive at $1^\circ \times 1^\circ$ we must use four letters. Since we do not want to locator to consist of only letters we must use digits for the final subdivision arriving at $6' \times 6'$. In the Maidenhead Locator the sub-squares are $5' \times 2.5'$ representing a somewhat closer accuracy. A possible solution would have been to start with both letters and digits in the first position giving $10^\circ \times 10^\circ$ fields and $1^\circ \times 1^\circ$ squares, but then the format would not have been constant (letters and digits in the same

position). A long discussion about the reasons for the Maidenhead Locator can be found in an article in *Radio Communication*, November 1980, pp. 1160-1163, by G4ANB.

Finding One's Locator

Start by finding your longitude and latitude in degrees and minutes from a map and use the computer-printed table for any place worldwide. When finding the final two letters, keep in mind that the square is two degrees wide. For example the fractional part of $173^\circ 16'$ is $1^\circ 16'$, not $16'$. Example: Longitude $173^\circ 16'E$ and latitude $41^\circ 48'S$ gives locator RE68PE.

Practical Use

For many years the old locator has been exchanged in Europe during all types of contacts. This has many advantages: You always know the position of the other station within 5 km, and you know where to direct your antenna, you know the distance, you can collect the fields and squares for lists and awards, you can use them in contests as multipliers or for bonus points, etc. Since the Maidenhead Locator was introduced in USA in January 1983, it has become very popular and much faster than expected. Expeditions are often made to rare squares in the same way as as done in Europe for many years, e.g., to FM51 at the eastern tip of Massachusetts.

WAIWENHEAD LOCATOR

GENERAL DESCRIPTION:

THE EARTH'S SURFACE IS DIVIDED INTO 18 * 18 FIELDS, EACH ONE 20 * 10 DEGREES. EACH FIELD IS DIVIDED INTO 10 * 10 SQUARES, EACH ONE 2 * 1 DEGREES. EACH SQUARE IS FINALLY DIVIDED INTO 24 * 24 SUBSQUARES, EACH ONE 5 * 2.5 MIN.

NORTH 90D												SQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											
80	RR	BR	CR	-	RR	09	19	29	-	99	60 M	57.5	55	52.5	50								
70	RC	BC	CC	-	RC	02	12	22	-	92	57.5	55	52.5	50	48								
60	RD	BD	CD	-	RD	01	11	21	-	91	55	52.5	50	48	46								
50	RA	BA	CA	-	RA	00	10	20	-	90	52.5	50	48	46	44								
180D												SUBSQUARES:											

NUMBERING ALWAYS WEST TO EAST AND SOUTH TO NORTH

FINDING ONE'S WAIWENHEAD LOCATOR:

FIRST CHARACTER LONGITUDE D WEST 180 120 60 0 60 120 180 D EAST
 THIRD CHARACTER 0 1 2 3 4 5 6 7 8 9 0 2 4 8 12 16 20 D EAST
 LONGITUDE D WEST 20 16 12 8 4 2 0
 FIFTH CHARACTER A B C D E F G H I J K L M N O P Q R S T U V W X
 LONGITUDE 0 5 20 40 60 80 100 120 M WEST
 SECOND CHARACTER A B C D E F G H I J K L M N O P Q R 30 D NORTH
 LONGITUDE D SOUTH 30 60 90
 FOURTH CHARACTER 0 1 2 3 4 5 6 7 8 9 0 1 2 4 6 8 10 D NORTH
 LONGITUDE D SOUTH 10 8 6 4 2 1 0
 SIXTH CHARACTER A B C D E F G H I J K L M N O P Q R S T U V W X
 LONGITUDE 0 2.5 10 20 30 40 50 60 M NORTH
 M SOUTH 60 50 40 30 20 10 2.5 0
 EXAMPLE: 76 DEGREES 58 MINUTES WEST AND 39 DEGREES 6 MINUTES NORTH.
 LONGITUDE 76 D 58 M WEST GIVES FIRST CHARACTER F, REST 16 D 58 M WEST
 GIVES THIRD CHARACTER 1, AND REST 58 M WEST GIVES FIFTH CHARACTER M.
 LATITUDE 39 D 6 M NORTH GIVES SECOND CHARACTER N, REST 9 D 6 M NORTH
 GIVES FOURTH CHARACTER 9, AND REST 6 M NORTH GIVES SIXTH CHARACTER C.
 RESULT: FM 19 MC

The Amateur's Code

The radio amateur is:

- CONSIDERATE** never knowingly uses the air in a manner such as to lessen the enjoyment of others.
- LOYAL** offers loyalty, encouragement and support to fellow amateurs, local club and National Society through which amateur radio is represented to Government, the International Amateur Radio Union and the International Telecommunication Union.
- PROGRESSIVE** with knowledge abreast of science, a well-built and efficient station and operation above reproach.
- FRIENDLY** slow and patient sending when requested; friendly advice and counsel to the beginner; kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
- BALANCED** radio is a hobby never interfering with duties owed to home, job, school or community.
- PATRIOTIC** station and skill always ready for service to community and country.

DXCC Countries List

Current Countries Total 135—Revised 1985—Reproduced courtesy ARRL

PREFIX	COUNTRY	CONTINENT	ZONE	
			ITU	CQ
A2	Botswana	AF	57	38
A3	Tonga	OC	62	32
A4	Oman	AS	39	21
A5	Bhutan	AS	41	22
A6	United Arab Emirates	AS	39	21
A7	Qatar	AS	39	21
A9	Bahrain	AS	39	21
AA (See K)				
AP	Pakistan	AS	41	21
BV	Taiwan	AS	44	24
BY	China	AS	1A1	23
C2	Nauru	OC	65	31
C3	Andorra	EU	27	14
C5	The Gambia	AF	46	35
C6	Bahamas	NA	11	08
C9	Mozambique	AF	53	37
CE	Chile	SA	14, 16	12
CE9/KC4 ▲	Antarctica	AN	(B)	(C)
CE9 (See VP8)				
CE0A	Easter I.	SA	63	12
CE0X	San Felix	SA	14	12
CE0Z	Juan Fernandez	SA	14	12
CM, CO	Cuba	NA	11	08
CN	Morocco	AF	37	33
CP	Bolivia	SA	12, 14	10
CR9	Macao	AS	44	24
CT	Portugal	EU	37	14
CT2	Azores	EU	36	14
CT3	Madeira Is.	AF	36	14
CX †	Uruguay	SA	14	13
D2, 3	Angola	AF	52	36
D4	Cape Verde	AF	46	35
D626	Comoros	AF	53	39
DA, DF, DJ, DK, DL2	Fed. Rep. of Germany	EU	28	14
DU	Philippines	OC	50	27
EA	Spain	EU	37	14
EA6	Balearic Is.	EU	37	14
EA8	Canary Is.	AF	36	33
EA9	Ceuta and Melilla	AF	37	33
EI	Ireland	EU	27	14
EL	Liberia	AF	46	35
EP	Iran	AS	40	21
ET	Ethiopia	AF	48	37
F	France	EU	27	14
FB8W	Crozet	AF	68	39
FB8X	Kermadec Is.	AF	68	39
FB8Y (See CE9)				
FB8Z	Amsterdam & St. Paul Is.	AF	68	39
FC1	Corsica	EU	28	15
FG	Guadeloupe	NA	11	08
FG, FS	Saint Martin	NA	11	08
FH26	Mayotte	AF	53	39
FK	New Caledonia	OC	56	32
FM	Martinique	NA	11	08
FO	Clipperton I.	NA	10	07
FO	Ft. Polynesia	OC	63	32
FP	St. Pierre & Miquelon	NA	09	05
FR4	Glorioso Is.	AF	53	39

PREFIX	COUNTRY	CONTINENT	ZONE	
			ITU	CQ
FR4	Juan de Nova, Europa	AF	53	39
FR	Reunion	AF	53	39
FR	Tromelin	AF	53	39
FW	Wallis & Futuna Is.	OC	62	32
FY	Fr. Guiana	SA	12	09
G	England	EU	27	14
GD	Isle of Man	EU	27	14
GI	Northern Ireland	EU	27	14
GJ, GC	Jersey	EU	27	14
GM	Scotland	EU	27	14
GU, GC	Guernsey & Dep.	EU	27	14
GW	Wales	EU	27	14
H4, VR4	Solomon Is.	OC	51	28
HA	Hungary	EU	28	15
HB	Switzerland	EU	28	14
HB0	Liechtenstein	EU	28	14
HC	Ecuador	SA	12	10
HC8	Galapagos Is.	SA	12	10
HH	Haiti	NA	11	08
HI	Dominican Republic	NA	11	08
HK	Colombia	SA	12	09
HK0	Malpelo I.	NA	12	10
HK0	San Andres & Providencia	NA	11	07
HL, HM	Korea	AS	44	25
HP	Panama	NA	11	07
HR	Honduras	NA	11	07
HS	Thailand	AS	49	26
HV	Vatican	EU	28	15
HZ, 7Z	Saudi Arabia	AS	39	21
I, IT	Italy	EU	28	15
IS	Sardinia	EU	28	15
J2, FL8	Djibouti	AF	48	37
J3, VP2G	Grenada & Dep.	NA	11	08
J5, CR3	Guinea-Bissau	AF	46	35
J6, VP2L	St. Lucia	NA	11	08
J7, VP2D	Dominica	NA	11	08
J8, VP2S	St. Vincent & Dep.	NA	11	08
JA, JN, KA	Japan	AS	45	25
JD, KA 15	Minami Torishima	AS	45	27
JD, KA 16	Ogasawara	AS	45	27
JT	Mongolia	AS	32, 33	23
JW	Svalbard	EU	18	40
JX	Jan Mayen	EU	18	40
JY	Jordan	AS	39	20
K, W, N, AA, AL	United States of America	NA	6, 7, 8	3, 4, 5
KC4 (See CE9)				
KC626 (E. Caroline Is.)	Fed States of Micronesia	OC	65	27
KC629 (W. Caroline Is.)	Rep. of Belau	OC	64	27
KG4	Guantanamo Bay	NA	11	08
KH1, KB6	Baker, Howland & Am Phoenix Is.	OC	61, 62	31
KH2, KG6	Guam	OC	64	27
KH3, KJ6	Johnston I.	OC	61	31
KH4, KM6	Midway Is.	OC	61	31
KH5, KP6	Palmyra, Jarvis Is.	OC	61	31
KH5K, KP6	Kingman Reef	OC	61	31
KH6	Hawaiian Is.	OC	61	31
KH7	Kure I.	OC	61	31
KH8, KS6	American Samoa	OC	62	32

PREFIX	COUNTRY	CONTINENT	ZONE	
			ITU	CC
XZ	Burma	AS	49	26
Y2,9,DM,DT ²	German Dem. Rep.	EU	28	14
YA	Afghanistan	AS	40	21
YB, YC ²	Indonesia	OC	54	28
YI	Iraq	AS	39	21
YJ	New Hebrides	OC	56	32
YK	Syria	AS	39	20
YN, HT	Nicaragua	NA	11	07
YO	Romania	EU	28	20
YS	El Salvador	NA	11	07
YU	Yugoslavia	EU	28	15
YV	Venezuela	SA	12	09
YV0	Aves I.	NA	11	08
Z2, ZE	Zimbabwe	AF	53	38
ZA	Albania	EU	28	15
ZB	Gibraltar	EU	37	14
ZC	Cyprus (UK)	AS	39	20
ZD7	St. Helena	AF	66	36
ZD8	Ascension I.	AF	66	36
ZD9	Tristan da Cunha & Gough I.	AF	66	38
ZF	Cayman Is.	NA	11	08
ZK1	So. Cook Is.	OC	62	32
ZK1	No. Cook Is.	OC	62	32
ZK2	Niue	OC	62	32
ZL	New Zealand	OC	60	32
ZL	Auckland I. & Campbell I.	OC	60	32
ZL	Chatham Is.	OC	60	32
ZL	Kermadec Is.	OC	60	32
ZL5 (See CE9)				
ZM7	Tokelau Is.	OC	62	31
ZP	Paraguay	SA	14	11
ZS1,6 ¹ 14,54,55,56,57,59,61	South Africa	AF	57	38
ZS1 (See CE9)				
ZS2	Princ. Edward & Marion Is.	AF	57	38
ZS3	(Namibia) S.W. Africa	AF	57	38
1A0 ¹	Spy. Mil. Order of Malta	EU	28	15
1S1	Spratly Is.	AS	50	26
3A	Monaco	EU	27	14
3B6,7	Agaleja & St. Brandon	AF	53	39
3B9	Mauritius	AF	53	39
3B9	Rodriguez I.	AF	53	39
3C	Equatorial Guinea	AF	47	36
3C0	Annobon	AF	52	36
3D2	Fiji Is.	OC	56	32
3D6	Swaziland	AF	57	38
3V	Tunisia	AF	37	33
3X	Rep. of Guinea	AF	46	35
3Y	Bouvet	AF	67	38
3Y	Peter I.	AN	72	12
3Y(See CE9)				
4K (See CE9)				
4S	Sri Lanka	AS	41	22
4U	I.T.U. Geneva	EU	28	14
4U	Hq., United Nations	NA	08	05
4W	Yemen	AS	39	21
4X 47	Israel	AS	39	20
5A	Libya	AF	38	34
5B	Cyprus	AS	39	20
5B	Tanzania	AF	53	37
5N	Nigeria	AF	46	35
5R	Malagasy Rep.	AF	53	39
5T18	Mauritania	AF	46	35
5U19	Niger	AF	46	35
5V	Togo	AF	46	35
5W	Windward Samoa	OC	62	32

PREFIX	COUNTRY	CONTINENT	ZONE	
			ITU	CC
5X	Uganda	AF	48	37
5Z	Kenya	AF	48	37
60, T5	Somali	AF	48	37
6W ²⁰	Senegal	AF	46	35
6Y †	Jamaica	NA	11	08
70	People's Dem. Rep. of Yemen	AS	39	21
7P	Lesotho	AF	57	38
7Q	Malawi	AF	53	37
7X	Algeria	AF	37	33
7Z (See HZ)				
8J (See CE9)				
8P	Barbados	NA	11	08
8Q, VS9	Maldives Is.	AS/AF	41	22
8R	Guyana	SA	12	09
9A, (M11), T7	San Marino	EU	28	15
9G ²²	Ghana	AF	46	35
9H	Malta	EU	28	15
9J	Zambia	AF	53	36
9K	Kuwait	AS	30	21
9L	Sierra Leone	AF	46	35
9M ^{22,3}	West Malaysia	AS	54	28
9M6,8 ²³	East Malaysia	AS	54	28
9N	Nepal	AS	42	22
9O	Zaire	AF	52	36
9U ²⁴	Burundi	AF	52	36
9V ²⁵	Singapore	AS	54	28
9X ²⁴	Rwanda	AF	52	36
9Y	Trinidad & Tobago	SA	11	09
J2/A	Abu Ail, Jabal at Tair	AS	39	21

CONTINENT

ZONE NOTES

AF = AFRICA	(A) 33, 42, 43, 44
AN = ANTARCTICA	(B) 67, 69 - 74
AS = ASIA	(C) 12, 13, 29, 30, 32, 38, 39
EU = EUROPE	(D) 12, 13, 15
NA = NORTH AMERICA	(E) 19, 20, 29, 30
OC = OCEANIA	(F) 20 - 26, 30, 35, 75
SA = SOUTH AMERICA	(G) 17, 18, 19, 23
	(H) 2, 3, 4, 9, 75
	(I) 55, 58, 59

1. Unofficial Prefix
 2. {DA, DJ, DK, DL} Only contacts made September 17, 1973, and after, will count for this country.
 3. {DM, DT, Y2-9} Only contacts made September 17, 1973, and after, will count for this country.
 4. {FR7} Only contacts made June 25, 1960, and after, will count for this country.
 5. {JD, KA1} Formerly Marcus Island.
 6. {JD, KA1} Formerly Bonin and Volcano Islands.
 7. {PZ} Only contacts made September 16, 1975, and after, will count for this country.
 8. {TL} Only contacts made August 13, 1960, and after, will count for this country.
 9. {TN} Only contacts made August 16, 1960, and after, will count for this country.
 10. {TR} Only contacts made August 17, 1960, and after, will count for this country.
 11. {TT} Only contacts made August 7, 1960, and after, will count for this country.
 12. {TU} Only contacts made August 7, 1960, and after, will count for this country.
 13. {TY} Only contacts made August 1, 1960, and after, will count for this country.
 14. {TZ} Only contacts made June 20, 1960, and after, will count for this country.
 15. {VP2} For credits on QSOs made before June 1, 1958, see page 97, June 1958 QST.
 16. {T2, VR8} Only contacts made January 1, 1976 and after, will count for this country.
 17. {XT} Only contacts made August 6, 1960, and after, will count for this country.
 18. {5T} Only contacts made June 20, 1960, and after, will count for this country.
 19. {5U} Only contacts made August 3, 1960, and after, will count for this country.
 20. {6W} Only contacts made June 20, 1960, and after, will count for this country.
 21. {8F, YB} Only contacts made May 1, 1963, and after, will count for this country.
 22. {9G1} Only contacts made March 5, 1957, and after, will count for this country.
 23. {9M2, 4, 6, 8} Only contacts made September 16, 1963, and after, will count for these countries.
 24. {9U5, 9X5} Only contacts made July 1, 1962, and after, will count for these countries.
 25. {9V1} Contacts made between September 15, 1963 and August 9, 1965, will not count for this country.
 26. {D6, FH8} Only contacts made July 5, 1976, and after, will count for this country.
 27. {KP4} Only contacts made March 1, 1979, and after, will count for this country.
 28. {KC6} Includes Yap Islands beginning January 1, 1981.
 29. {KC6} Doesn't include Yap Is. beginning January 1, 1981.
- ▲ Also DP, FB8Y, LA, LU-Z, OR4, UA1, UK1, VK0, VP8, ZL5, ZS1, 3Y, 4K, 8J. QSL via country under whose auspices the particular station is operating.



FOR FULL DETAILS
BEFORE AND AFTER
THE CONFERENCE
OF THE YEAR

Stay Tuned to
Break-In

Deleted Countries Total: 52

DELETED COUNTRIES

Credit for any of these countries can be given if the date of contact with the country in question agrees with the date(s) shown in the corresponding footnote.

PREFIX	COUNTRY	COUNTRY	ZONE	
			ITU	CC
(AC31) ²	Sikkim	AS	41	22
(AC41) ³	Tibet	AS	41	22
C9 ⁴	Manchuria	AS	23.33	23
CN26	Tangier	AF	37	33
CR86	Damab, Diu	AS	41	22
CR86	Goa	AS	41	22
CR83 ⁴	Port. Timor	OC	54	28
DA, DJ, DK, DL, DM ⁷	Germany	EU	28	14
EA6 ⁸	Ifni	AF	37	33
EA93 ⁸	Rio de Oro	AF	37	33
ET29	Eritrea	AF	48	37
FF810	Fr. West Africa	AF	46	35
FH35	Comoros	AF	53	39
FI811	Fr. Indo-China	AS	49	26
FN12	French India	AS	41	22
FQ813	Fr. Equatorial Africa	AF	47.52	36
HK042	Bajo Nuevo	NA	11	08
I114	Trieste	EU	28	15
IS15	Italian Somaliland	AF	48	37
JD/7,40	Okino Tori-shima	AS	45	27
JZ016	Netherlands N. Guinea	OC	51	28
KP3, KS4, HK042	Serrana Bank & Roncador Cay	NA	11	07
KR6, JR6, KA617	Ryukyu Islands	AS	45	25
KS418	Swan Islands	NA	11	07
KZ39	Canal Zone	NA	11	07
P2, VK919	Papua Territory	OC	51	28

PREFIX	COUNTRY	COUNTRY	ZONE	
			ITU	CC
P2, VK919	Terr. New Guinea	OC	51	28
PK1,2,320	Java	OC	54	28
PK420	Sumatra	OC	54	28
PK520	Netherlands Borneo	OC	54	28
PK620	Celebe & Molucca Is.	OC	54	28
UN121	Karelo-Finnish Rep.	EU	19	16
VO32	Newfoundland, Labrador	NA	09	02
VQ1,5H123	Zanzibar	AF	53	37
VQ624	British Somaliland	AF	48	37
VQ934	Aldabra	AF	53	39
VQ936	Desroches	AF	53	39
VQ936	Farquhar	AF	53	39
VS425	Sarawak	AS	54	28
VS9H26	Kuria Muria I.	AS	39	21
ZC525	British North Borneo	AS	54	28
ZC627	Palestine	AS	39	20
ZD428	Gold Coast, Togoland	AF	46	35
(IM1)29	Minerva Reef	OC	62	32
70/VS9K41	Kamoran Is.	AS	39	21
8Z443	Saudi Arabia/Iraq Neutral Zone	AS	39	21
9K3, BZ530	Kuwait/Sa. Arabia/Niri. Zone	AS	39	21
9M225	Malaya	AS	54	28
9S431	Saar	EU	28	14
9U532	Ruanda-Urundi	AF	52	36
33	Blenheim Reef	AF	41	39
37	Geyser Reef	AF	53	39

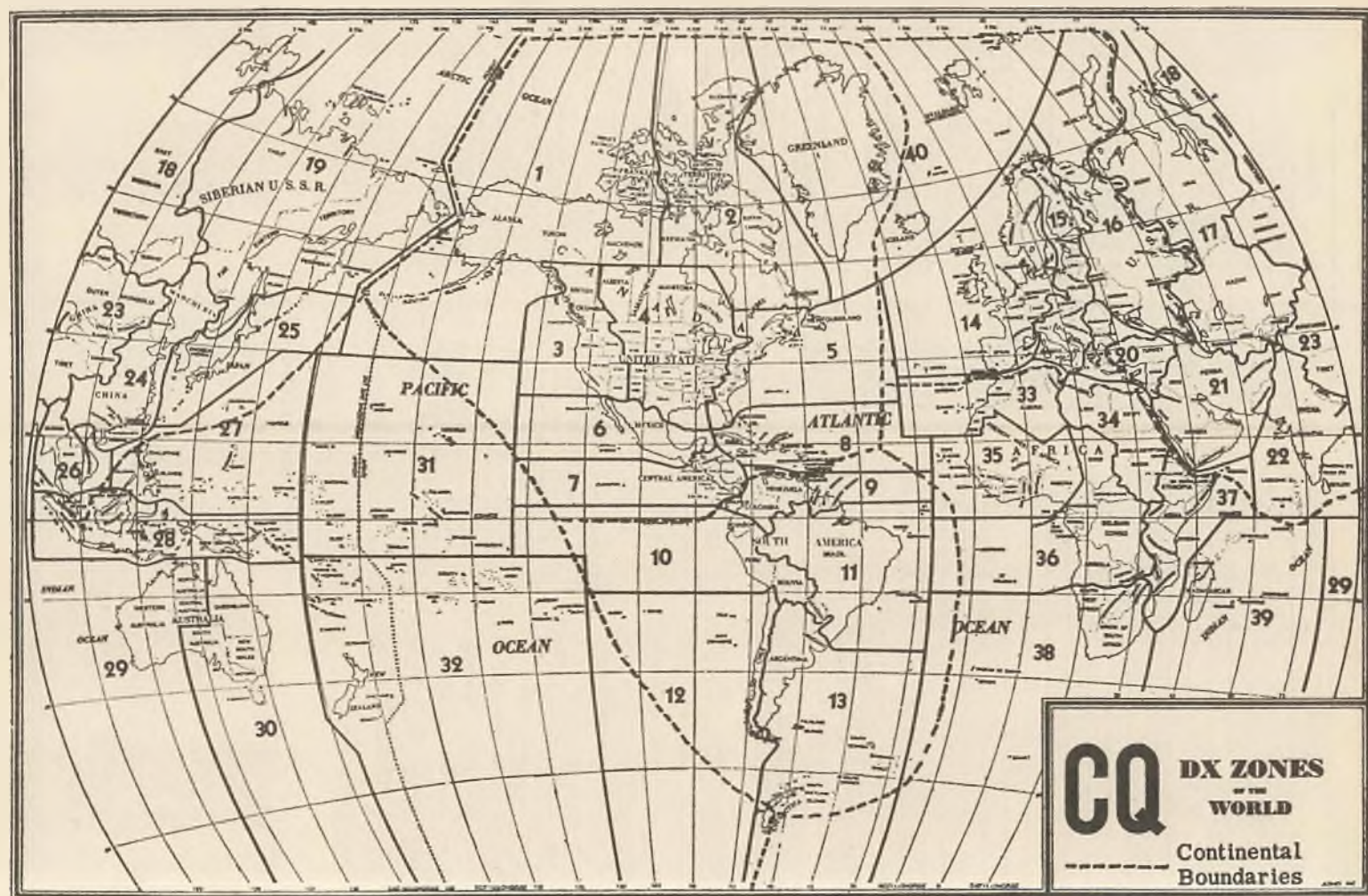
1. Unofficial prefix.
2. (AC3) Only contacts made before May 1, 1975, will count for this country. Contacts made May 1, 1975, and after, count as India.
3. (AC4) Only contacts made before June 1, 1974, will count for this country.
4. (C9) Only contacts made before September 16, 1963, will count for this country.
5. (CN2) Only contacts made before July 1, 1960, will count for this country.
6. (CR8) Only contacts made before January 1, 1962, will count for this country.
7. (DA, DJ, DK, DL, DM) Only contacts made before September 17, 1973, will count for this country.
8. (EA9) Only contacts made May 13, 1969, and before, count for this country.
9. (ET2) Only contacts made November 14, 1962, and before, will count for this country.
10. (FF8) Only contacts made August 6, 1960, and before, will count for this country.
11. (FI8) Only contacts made before December 21, 1950, will count for this country.
12. (FN1) Only contacts made before November 1, 1934, will count for this country.
13. (FQ8) Only contacts made August 16, 1960, and before, will count for this country.
14. (HK1) Only contacts made before April 1, 1957, will count for this country. Contacts made April 1, 1957, and after, count as Italy.
15. (JD) Only contacts made June 30, 1960, and before, will count for this country.

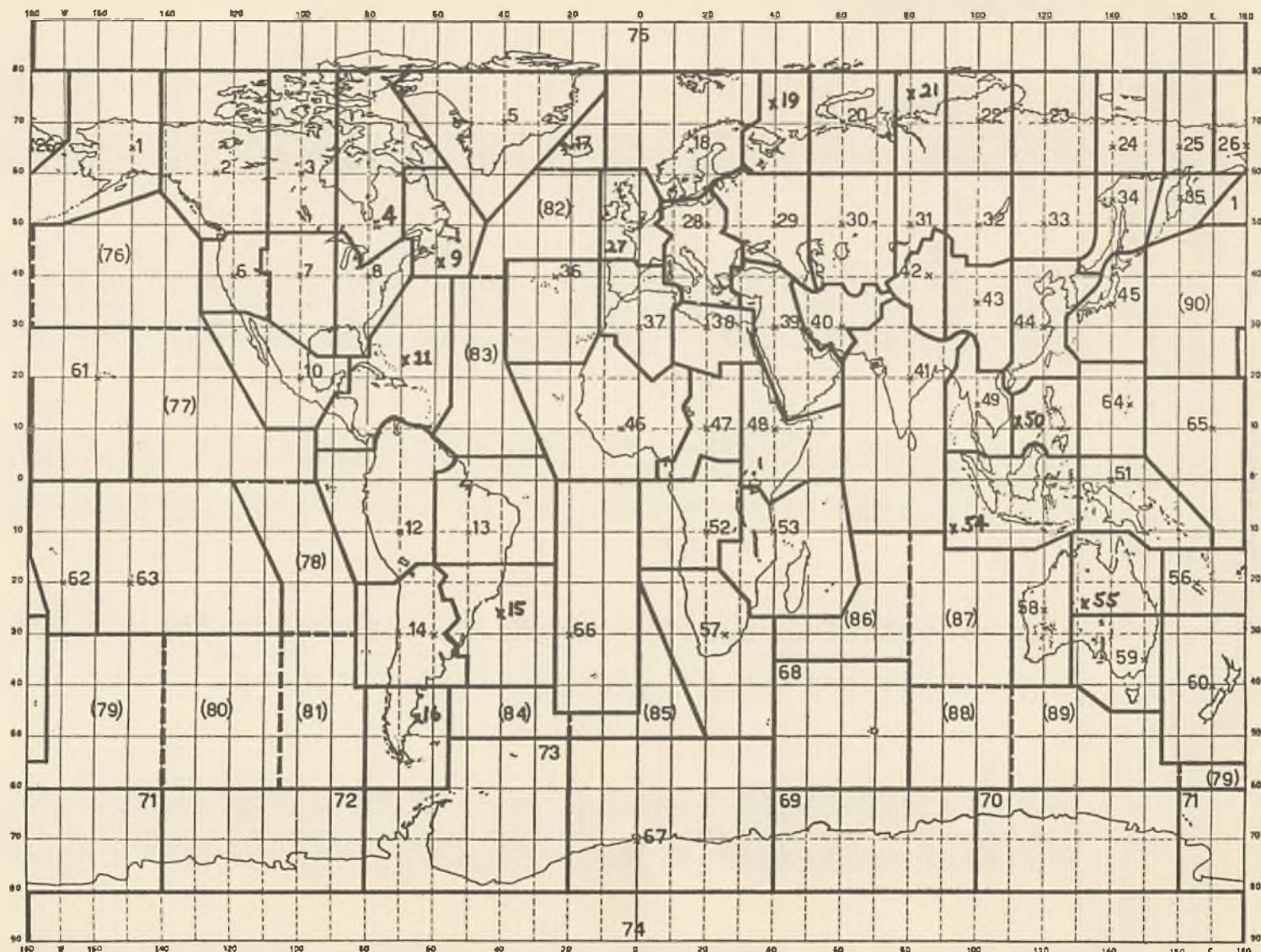
16. (JZ0) Only contacts made before May 1, 1963, will count for this country.
17. (KR6, JR6, KA6) Only contacts made before May 15, 1972, will count for this country. Contacts made May 15, 1972, and after, count as Japan.
18. (KS4) Only contacts made before September 1, 1972, will count for this country. Contacts made September 1, 1972, and after, count as Honduras.
19. (P2, VK9) Only contacts made before September 16, 1975, will count for this country.
20. (PK1, 2, 3, 4, 5, 6) Only contacts made before May 1, 1961, will count for this country.
21. (UN1) Only contacts made June 30, 1960, and before, will count for this country. Contacts made July 1, 1960, and after, count as European Russian S.F.S.R.
22. (VO9) Only contacts made before April 1, 1949, will count for this country.
23. (VQ1, 5H1) Only contacts made before June 1, 1974, will count for this country.
24. (VS4, ZC5, VM2) Only contacts made September 15, 1963, and before, will count for this country.
25. (VS9H) Only contacts made before November 30, 1967, will count for this country. Contacts made December 1, 1967, and after, count as Oman.
26. (ZC6) Only contacts made July 1, 1968, and before, will count for this country.
27. (ZD4) Only contacts made March 5, 1957, and before, will count for this country.
28. (IM1) Only contacts made July 15, 1972, and before, will count for this country. Contacts made July 16, 1972, and after, count as Tonga.

30. (9K3, BZ5) Only contacts made before December 15, 1969, will count for this country.
31. (9S4) Only contacts made before April 3, 1957, and after, count as Germany.
32. (9U5) Only contacts made between July 1, 1960, and July 1, 1962, will count for this country.
33. (Blenheim Reef) Only contacts made between May 4, 1967, and July 1, 1975, will count for this country. Contacts made July 1, 1975, and after, count as Uraguay.
34. (Geyser Reef) Only contacts made before September 15, 1976, will count for this country.
35. (KZ3) Only contacts made before July 8, 1973, count toward this country.
36. (VS9) Only contacts made before June 29, 1976, count for these countries.
37. (Geyser Reef) Only contacts made between May 4, 1967, and March 1, 1978, will count for this country.
38. (EA9) Only contacts made before January 8, 1975, will count for this country.
39. (KZ3) Only contacts made before October 3, 1979, will count for this country.
40. (JD) Only contacts made between May 30, 1976, and November 30, 1980, will count for this country. Contacts made December 1, 1980, and after, count as Djawawara.
41. (VS9K) Only contacts made before March 11, 1982, will count for this country.
42. (HK6, KP3, KS4, HK042) Only contacts made before September 17, 1993, will count for these countries.
43. (PZ4) Only contacts made before December 20, 1985, will count for this country.

PREFIX CROSS REFERENCES

AC ¹ (See A5)	FH8 (See FR7)	FQ8 (See TL)	MP4M (See A4)	VP6 (See 8P)	VS9 (See 70)	ZM6 (See 5W1)
AP ¹ (See 52.3)	FH8 (See 5R8)	FUR (See YJ)	MP4Q (See A7)	VP7 (See C6)	VS9Q (See A4)	ZS7 (See 3D6)
AX ¹ (See VK)	FD (See 5V)	HE (See HB4)	MP4T (See A6)	VQ1 (See 5H1)	VX9 (See VE1)	ZS8 (See 7P8)
CN9 (See CN2, 8)	FES (See TJ)	HG (See IIA)	OF (See OH)	VQ2 (See 9J2)	VYH (See VE1)	ZS9 (See A2)
CR1 ¹ (See J5)	FF4 (See TU)	HT (See YN)	OQ5B (See 9Q5)	VQ3 (See 5H3)	XF (See XE)	1W8 (See KP5)
CR4 (See D4)	FF7 (See ST)	IM (See IS)	PK (See YB)	VQ4 (See 5Z4)	YN8 (See YN)	3Z (See 5V)
CR5 (See S9)	FF8 (See TY)	HT (See YN)	PK ¹ (See C3)	VQ5 (See 5X5)	YT (See YH)	4A (See XF)
CR5 (See CR3)	FF8 (See TZ)	IM (See IS)	VK9 (See C2)	VQ8 (See 3B6, 7.8.9)	YZ (See YU)	4M (See YV)
CR6 (See D2, 3)	FF8 (See XI)	JR6 (See KR6, 8)	VK9AA-MZ (See P2)	VQ9 (See S7)	ZB1 (See 9H1)	6D (See XF)
CR7 (See C9)	FF8 (See 5U7)	KA6 (See KR6, 8)	VP2G (See J3)	VR2 (See 3D2)	ZD1 (See 9L1)	6D4 (See X14)
CR1B (See CR8)	FF8 (See 6W8)	KG61 (See JD, KA1)	VP2K (See VP2E)	VR4 (See H4)	ZD2 (See 5N2)	7G (See 3X)
DX (See DU)	FL8 (See J2)	LA, G (See CE9.3Y)	VP3 (See 8R)	VR5 (See A3)	ZD3 (See C5)	7J (See JD1)
EA8 (See 3C)	FQ8 (See TN)	LA, P (See JX, JW)	VP4 (See 9Y4)	VS1 (See 9M2)	ZD4 (See 9G1)	8F (See YB)
EA (See 7X)	FQ8 (See TR)	MP4B (See A9)	VP5 (See ZF1)	VS1 (See 9V1)	ZD5 (See 3J6)	8Z5 (See 9K3)
FH8 (See FH8)	FQ8 (See TT)	MP4D (See A6)	VP5 (See 6Y5)	VS2 (See 9M2)	ZD6 (See 7Q7)	9E, 9F (See ET3)





OFFICIAL CPR ZONE MAP OF THE INTERNATIONAL AMATEUR RADIO CLUB

October 18, 1967

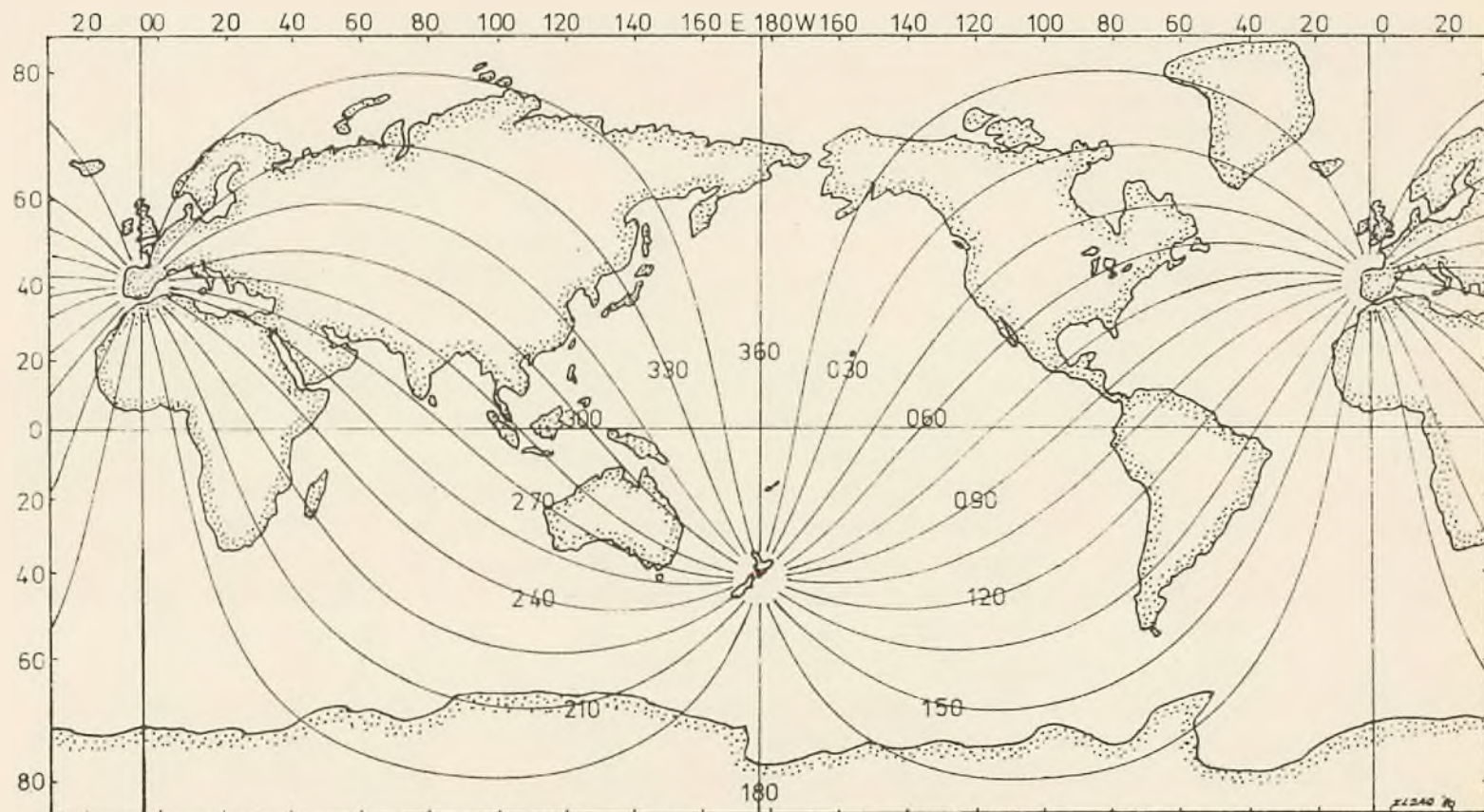
Great Circle DX Bearings Based on Wellington

prepared by RON MURPHY, ZLIAMM

Listed below are the approximate short path bearings based on the great circle map centered on Wellington. These listings, based on true N, will point your directional antenna in the appropriate direction before final adjustment depending on the sharpness to which the antenna was installed. The long path bearings are about 180 degrees in the opposite direction.

A good inexpensive Azimuth (great circle on Wellington) map, number NZMS 47, is obtainable from metropolitan offices of the Department of Lands and Survey of New Zealand. Available from overseas are several computer-derived DX beam headings.

A2	210	G	345	KX	350	UF	290	ZC	270	9G	185
A3	20	GC	345	LA	335	UG	290	ZD7	180	9H	250
A4	270	GD	5	LU	135	UH	290	ZD8	170	9J	220
A5	295	GI	15	LX	325	UI	290	ZD9	170	9K	270
A6	275	GJ, GU	345	LZ	285	UJ	290	ZZ	220	9L	165
A7	275	GM	N	OA	110	UL	290	ZF	90	9M2	285
A9	275	GW	350	OD	275	UM	290	ZK1N	50	9M6	285
AP	280	H4	335	OE	305	UO	285	ZK1S	60	9N	295
BV	315	HA	300	OH, OJ	330	UP	320	ZK2	N	9Q	230
BY	315	HB	300	OK	310	UQ	320	ZK3	30	9U	230
C2	N	HB0	310	ON	330	UR	320	ZL7	110	9V	285
C3	280	HC	100	OX	20	VE	50	ZL8	30	9X	230
C5	155	HC8	90	OY	N	VK	280	ZL9	190	9Y	100
C6	95	HH	90	OZ	330	VK9L	290	ZP	125		
C9	230	HI	90	P2	310	VK9X	275	ZS	210		
CE	130	HK	100	PA	330	VK9Y	270	ZS3	200		
CE0	110, 120	HK0	90	PJ	95	VK9N	340	IA0	280		
CO	80	HL	325	PJ7	90	VK0H	220	IS	285		
CN	220	HP	90	PY	140	VK0M	210	3A	295		
CP	125	HR	90	PY0	125, 145	V2	95	3B6, 7	235		
CR9	305	HS	285	PZ	100	V3	85	3B8	235		
CT	130	HV	280	S2	290	V4	95	3B9	230		
CT2	90	HZ	260	S7	240	V85	290	3C	205		
CT3	140	I	280	S9	205	VP2	95	3C0	205		
CX	140	IS	270	SM	330	VP5	95	3D2	N		
CY9, 0	65	J2	245	SP	310	VP8	150	3D6	220		
D2, 3	210	J3	95	ST	250	VP9	80	3V	250		
D4	150	J5	155	SU	260	VQ9	265	3X	155		
D6	230	J6	95	SV	270	VR6	90	3Y	185		
DJ	320	J7	95	T2	N	VS6	305	4S	280		
DU	310	J8	95	T30	N	VU	270	4U, ITU	300		
EA	238	JA	335	T31	N	VU7A	285	4U, UN	65		
EA6	250	JD	335	T32	N	VU7L	275	4W	255		
EA8	140	JT	325	T5	245	XE	70	4X, Z	265		
EA9	180	JW	5	T7	280	XF4	70	5A	260		
EI	10	JX	5	TA	280	XT	180	5B	270		
EL	180	JY	265	TF	15	XU	295	5H	230		
EP	280	K	60	TG	90	XV	295	5N	195		
ET	245	KC6	320	TI	90	XW	295	5R	225		
FD, FE	310	KG4	90	TI9	90	XX	305	5T	160		
FC	230	KH1	20	TJ	205	XZ	290	5U	175		
FG	100	KH2	320	TK	230	Y2-9	320	5V	175		
FH	230	KH3	20	TL	205	YA	290	5W	20		
FK	340	KH4	N	TN	210	YB, C, D	300	5X	235		
FM	95	KH5	30	TR	200	YI	270	5Z	235		
FO	60	KH6	25	TT	220	YJ	330	6O	245		
FP	65	KH7	N	TU	160	YK	270	6W	150		
FR	235	KH8	20	TY	190	YN	90	6Y	90		
FS	100	KH9	350	TZ	160	YO	285	7O	275		
FT8W	220	KH0	320	UA1	320	YS	90	7P	220		
FT8X	225	KL	15	UA2	320	YU	285	7Q	230		
FT8Z	230	KP1	90	UA9, 0	330	YV	100	7X	240		
FW	N	KP2	90	UB	300	YV0	100	7Z	260		
FY	115	KP4	90	UC	310	ZA	275	8P	90	Antarctica	180
		KP5	90	UD	290	ZB2	180	8Q	275	Abu Ail	275
								8R	110	Peter I	155



GREAT CIRCLE BEARINGS FROM WELLINGTON

WORLD TIME CONVERSION CHART IN HOURS

Universal Co-ordinated Time, London, England	Central Europe, Berlin, Geneva, Stockholm, Vienna	Athens, Cape Town, Cairo	Eastern Europe, Moscow, Arabia, Ethiopia, Iraq, Malaysia	Mauritius, Oman, Reunion Island	Central Russia, Pristina	Calcutta, Novosibirsk, Russia, Bangladesh	Laos, Sumatra, Thailand	Philippine Islands, Perth, Australia	Central Australia, Tokyo, Japan	Eastern Australia, Melbourne, Sydney	New Caledonia	International Date Line Fiji Islands, N.Z. Std Time	Nome, Alaska, Samoa, Midway Islands	Hawaiian Islands	Eastern Alaska, Dawson	Pacific Standard Time, Los Angeles, Seattle, Honolulu	Mountain Standard Time, Calgary, Denver, Phoenix	Central Standard Time, Chicago, Costa Rica	Eastern Standard Time, Montreal, New York, Peru	Atlantic Standard Time, Chile, Nova Scotia	Greenland, Rio de Janeiro, Brazil	Fernando de Noronha	Azores, Cape Verde
0000	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM
0100	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night
0200	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM
0300	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM
0400	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM
0500	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM
0600	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM
0700	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM
0800	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM
0900	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM
1000	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM
1100	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM
1200	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM
1300	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon
1400	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM
1500	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM
1600	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM
1700	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM
1800	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM
1900	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM
2000	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM
2100	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM
2200	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM
2300	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM

With this chart you can convert standard time in any time zone to GMT or tell what time it is in other parts of the world. To correctly use this chart visualize each horizontal line as a complete circle. From your time zone tracing horizontally to the right (Counter Clockwise) it will be tomorrow when you pass midnight and yesterday when you pass the International date line. To the left (Clockwise) it will be yesterday when you pass midnight and tomorrow when you pass the International date line. There is no change in date when you pass both midnight and the International date line going in one direction. For instance at 8 PM in New York Eastern Standard Time it is 2 AM tomorrow in Berlin, Germany and 11 AM tomorrow in Sydney, Australia. Always trace in the shortest direction from your time zone to find what time it is in any other zone. Copyright 1933 Radio Amateur Call Book, Inc., Chicago, USA.

Allocation of International Callsigns

AAA-ALZ	United States of America	HNA-HNZ	Iraq (Republic of)
AMA-AOZ	Spain	HOA-HPZ	Panama (Republic of)
APA-ASZ	Pakistan (Islamic Republic of)	HQA-HRZ	Honduras (Republic of)
ATA-AWZ	India (Republic of)	HAS-HSZ	Thailand
AXA-AXZ	Australia	HTA-HTZ	Nicaragua
AYA-AZZ	Argentine Republic	HUA-HUZ	El Salvador (Republic of)
A2A-A2Z	Botswana (Republic of)	HVA-HVZ	Vatican City State
A3A-A3Z	Tonga (Kingdom of)	HWA-HYZ	France
A4A-A4Z	Oman (Sultanate of)	HZA-HZZ	Saudi Arabia (Kingdom of)
A5A-A5Z	Bhutan (Kingdom of)	H2A-H2Z	Cyprus (Republic of)
A6A-A6Z	United Arab Emirates	H3A-H3Z	Panama (Republic of)
A7A-A7Z	Qatar (State of)	H4A-H4Z	Solomon Islands
A8A-A8Z	Liberia (Republic of)	H6A-H7Z	Nicaragua
A9A-A9Z	Bahrain (State of)	H8A-H9Z	Panama (Republic of)
BAA-BZZ	China (People's Republic of)	IAA-IZZ	Italy
CAA-CEZ	Chile	JAA-JSZ	Japan
CFA-CKZ	Canada	JTA-JVZ	Mongolian People's Republic
CLA-CMZ	Cuba	JWA-JXZ	Norway
CNA-CNZ	Morocco (Kingdom of)	JYA-JYZ	Jordan (Hashemite Kingdom of)
COA-COZ	Cuba	JZA-JZZ	Indonesia (Republic of)
CPA-CPZ	Bolivia (Republic of)	J2A-J2Z	Djibouti (Republic of)
CQA-CUZ	Portugal	J3A-J3Z	Grenada
CVA-CXZ	Uruguay (Oriental Republic of)	J4A-J4Z	Greece
CYA-CZZ	Canada	J5A-J5Z	Guinea-Bissau (Republic of)
C2A-C2Z	Nauru (Republic of)	J6A-J6Z	Saint Lucia
C3A-C3Z	Andorra (Principality of)	J7A-J7Z	Dominica
C4A-C4Z	Cyprus (Republic of)	J8A-J8Z	Saint Vincent and the Grenadines
C5A-C5Z	Gambia (Republic of)	KAA-KZZ	United States of America
C6A-C6Z	Bahamas (Commonwealth of the)	LAA-LNZ	Norway
C7A-C7Z	World Meteorological Organisation	LOA-LWZ	Argentine Republic
C8A-C8Z	Mozambique (People's Republic of)	LXA-LXZ	Luxembourg
DAA-DRZ	Germany (Federal Republic of)	LYA-LYZ	Union of Soviet Socialist Republics
DSA-DTZ	Republic of Korea	LZA-LZZ	Bulgaria (People's Republic of)
DUA-DZZ	Philippines (Republic of the)	L2A-L9Z	Argentine Republic
D2A-D3Z	Angola (People's Republic of)	MAA-MZZ	Great Britain and Northern Ireland
D4A-D4Z	Cape Verde (Republic of)	NAA-NZZ	United States of America
D5A-D5Z	Liberia (Republic of)	OAA-OCZ	Peru
D6A-D6Z	Comoros (Federal and Islamic Republic)	ODA-ODZ	Lebanon
D7A-D9Z	Republic of Korea	OEA-OEZ	Austria
EAA-EHZ	Spain	OFA-OJZ	Finland
EIA-EJZ	Ireland	OKA-OMZ	Czechoslovakia Socialist Republic
EKA-EKZ	Union of Soviet Socialist Republics	ONA-OTZ	Belgium
ELA-ELZ	Liberia (Republic of)	OUA-OZZ	Denmark
EMA-FOZ	Union of Soviet Socialist Republics	PAA-PIZ	Netherlands (Kingdom of the)
EPA-EQZ	Iran (Islamic Republic of)	PJA-PJZ	Netherlands Antilles
ERA-ESZ	Union of Soviet Socialist Republics	PKA-POZ	Indonesia (Republic of)
ETA-ETZ	Ethiopia	PPA-PYZ	Brazil (Federative Republic of)
EUA-EWZ	Byelorussian Soviet Socialist Republic	PZA-PZZ	Suriname (Republic of)
EXA-EZZ	Union of Soviet Socialist Republics	P2A-P2Z	Papua New Guinea
FAA-FZZ	France	P3A-P3Z	Cyprus (Republic of)
GAA-GZZ	Great Britain and Northern Ireland	P4A-P4Z	Netherlands Antilles
HAA-HAZ	Hungarian People's Republic	P5A-P9Z	Democratic People's Republic of Korea
HBA-HBZ	Switzerland (Confederation of)	QAA-QZZ	(Service abbreviations)
HCA-HCZ	Ecuador	RAA-RZZ	Union of Soviet Socialist Republics
HEA-HEZ	Switzerland (Confederation of)	SAA-SMZ	Sweden
HFA-HFZ	Poland (People's Republic of)	SNA-SRZ	Poland (People's Republic of)
HGA-HGZ	Hungarian People's Republic	SSA-SSM	Egypt (Arab Republic of)
HHA-HHZ	Haiti (Republic of)	SSN-STZ	Sudan (Democratic Republic of the)
HIA-HIZ	Dominican Republic	SUA-SUZ	Egypt (Arab Republic of)
HJA-HKZ	Colombia (Republic of)	SVA-SZZ	Greece
HIA-HLZ	Republic of Korea	S2A-S3Z	Bangladesh (People's Republic of)
HMA-HMZ	Democratic People's Republic of Korea		

S6A-S6Z	Singapore (Republic of)	ZAA-ZAZ	Albania (Socialist People's Republic of)
S7A-S7Z	Seychelles (Republic of)	ZBA-ZJZ	Great Britain and Northern Ireland
S9A-S9Z	Sao Tome and Principe (Dem. Rep. of)	ZKA-ZMZ	New Zealand
TAA-TCZ	Turkey	ZNA-ZOZ	Great Britain and Northern Ireland
TDA-TDZ	Guatemala (Republic of)	ZPA-ZPZ	Paraguay (Republic of)
TEA-TEZ	Costa Rica	ZQA-ZQZ	Great Britain and Northern Ireland
TFA-TFZ	Iceland	ZRA-ZUZ	South Africa (Republic of)
TGA-TGZ	Guatemala (Republic of)	ZYA-ZZZ	Brazil (Federative Republic of)
THA-THZ	France	ZZA-ZZZ	Zimbabwe (Republic of)
TIA-TIZ	Costa Rica	2AA-2ZZ	Great Britain and Northern Ireland
TJA-TJZ	Cameroon (United Republic of)	3AA-3AZ	Monaco
TKA-TKZ	France	3BA-3BZ	Mauritius
TLA-TLZ	Central African Republic	3CA-3CZ	Equatorial Guinea (Republic of)
TMA-TMZ	France	3DA-3DM	Swaziland (Kingdom of)
TNA-TNZ	Congo (People's Republic of the)	3DN-3DZ	Fiji
TOA-TQZ	France	3EA-3FZ	Panama (Republic of)
TRA-TRZ	Gabon Republic	3GA-3GZ	Chile
TSA-TSZ	Tunisia	3HA-3UZ	China (People's Republic of)
TTA-TTZ	Chad (Republic of the)	3VA-3VZ	Tunisia
TUA-TUZ	Ivory Coast (Republic of)	3WA-3WZ	Viet Nam (Socialist Republic of)
TVA-TXZ	France	3XA-3XZ	Guinea (Revolutionary People's Rep. of)
TYA-TYZ	Benin (People's Republic of)	3YA-3YZ	Norway
TZA-TZZ	Mali (Republic of)	3ZA-3ZZ	Poland (People's Republic of)
T2A-T2Z	Tuvalu	4AA-4CZ	Mexico
T3A-T3Z	Kiribati Republic	4DA-4IZ	Philippines (Republic of the)
T4A-T4Z	Cuba	4JA-4LZ	Union of Soviet Socialist Republics
T5A-T5Z	Somali Democratic Republic	4MA-4MZ	Venezuela (Republic of)
T6A-T6Z	Afghanistan (Democratic Republic of)	4NA-4QZ	Yugoslavia (Soc. Federal Republic of)
UAA-UQZ	Union of Soviet Socialist Republics	4PA-4SZ	Sri Lanka (Democratic Soc. Rep.)
URA-UTZ	Ukrainian Soviet Socialist Republic	4TA-4TZ	Peru
UUA-UZZ	Union of Soviet Socialist Republics	4UA-4UZ	United Nations Organisation
VAA-VGZ	Canada	4VA-4VZ	Haiti (Republic of)
VHA-VNZ	Australia	4WA-4WZ	Yemen Arab Republic
VOA-VOZ	Canada	4XA-4XZ	Israel (State of)
VPA-VSZ	Great Britain and Northern Ireland	4YA-4YZ	International Civil Aviation Organisation
VT A-VWZ	India (Republic of)	4ZA-4ZZ	Israel (State of)
VXA-VYZ	Canada	5AA-5AZ	Libya (Socialist People's Libyan Arab Jamahiriya)
VZA-VZZ	Australia	5BA-5BZ	Cyprus (Republic of)
V2A-V2Z	Antigua	5CA-5GZ	Morocco (Kingdom of)
WAA-WZZ	United States of America	5HA-5IZ	Tanzania (United Republic of)
XAA-XIZ	Mexico	5JA-5KZ	Colombia (Republic of)
XJA-XOZ	Canada	5LA-5MZ	Liberia (Republic of)
XPA-XPZ	Denmark	5NA-5OZ	Nigeria (Federal Republic of)
XQA-XRZ	Chile	5PA-5QZ	Denmark
XSA-XSZ	China (People's Republic of)	5RA-5SZ	Madagascar (Democratic Republic of)
XTA-XTZ	Upper Volta (Republic of)	5TA-5TZ	Mauritania (Islamic Republic of)
XUA-XUZ	Democratic Kampuchea	5UA-5UZ	Niger (Republic of the)
XVA-XVZ	Viet Nam (Socialist Republic of)	5VA-5VZ	Togolese Republic
XWA-XWZ	Lao People's Democratic Republic	5WA-5WZ	Western Samoa
XXA-XXZ	Portugal	5XA-5XZ	Uganda (Republic of)
XYA-XZZ	Burma (Soc. Republic of the Union of)	5YA-5ZZ	Kenya (Republic of)
YAA-YAZ	Afghanistan (Democratic Republic of)	6AA-6BZ	Egypt (Arab Republic of)
YBA-YHZ	Indonesia (Republic of)	6CA-6CZ	Syrian Arab Republic
YIA-YIZ	Iraq (Republic of)	6DA-6JZ	Mexico
YJA-YJZ	New Hebrides	6KA-6NZ	Republic of Korea
YKA-YKZ	Syrian Arab Republic	6OA-6OZ	Somali Democratic Republic
YLA-YLZ	Union of Soviet Socialist Republics	6PA-6SZ	Pakistan (Islamic Republic of)
YMA-YMZ	Turkey	6TA-6UZ	Sudan (Democratic Republic of the)
YNA-YNZ	Nicaragua	6VA-6WZ	Senegal (Republic of the)
YOA-YRZ	Roumania (Socialist Republic of)	6XA-6XZ	Madagascar (Democratic Republic of)
YSA-YSZ	El Salvador (Republic of)	6YA-6YZ	Jamaica
YTA-YUZ	Yugoslavia (Soc. Federal Republic of)	6ZA-6ZZ	Liberia (Republic of)
YVA-YYZ	Venezuela (Republic of)	7AA-7IZ	Indonesia (Republic of)
YZA-YZZ	Yugoslavia (Soc. Federal Republic of)	7JA-7NZ	Japan
Y2A-Y9Z	German Democratic Republic		

7OA-7OZ	Yemen (People's Democratic Rep. of)	8ZA-8ZZ	Saudi Arabia (Kingdom of)
7PA-7PZ	Lesotho (Kingdom of)	9AA-9AZ	San Marino (Republic of)
7QA-7QZ	Malawi (Republic of)	9BA-9DZ	Iran (Islamic Republic of)
7RA-7RZ	Algeria (Algerian Democratic and Popular Republic)	9EA-9FZ	Ethiopia
7SA-7SZ	Sweden	9GA-9GZ	Ghana
7TA-7YZ	Algeria (Algerian Democratic and Popular Republic)	9HA-9HZ	Malta (Republic of)
7ZA-7ZZ	Saudi Arabia (Kingdom of)	9IA-9JZ	Zambia (Republic of)
8AA-8IZ	Indonesia (Republic of)	9KA-9KZ	Kuwait (State of)
8JA-8NZ	Japan	9LA-9LZ	Sierra Leone
8OA-8OZ	Botswana (Republic of)	9MA-9MZ	Malaysia
8PA-8PZ	Barbados	9NA-9NZ	Nepal
8QA-8QZ	Maldives (Republic of)	9OA-9TZ	Zaire (Republic of)
8RA-8RZ	Guyana	9UA-9UZ	Burundi (Republic of)
8SA-8SZ	Sweden	9VA-9VZ	Singapore (Republic of)
8TA-8YZ	India (Republic of)	9WA-9WZ	Malaysia
		9XA-9XZ	Rwanda (Republic of)
		9YA-9ZZ	Trinidad and Tobago

Prefixes by Countries

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For information previously contained in this pages,
refer to the DXCC Countries List, page 155.

Australian 2 m Repeater Channel Numbers and Frequencies

Repeater Channel No.	Repeater Input Frequency (MHz)	Repeater Output Frequency (MHz)	Repeater Channel No.	Repeater Input Frequency (MHz)	Repeater Output Frequency (MHz)	Repeater Channel No.	Repeater Input Frequency (MHz)	Repeater Output Frequency (MHz)
6625	146.025	146.625	6900	146.300	146.900	7125	147.725	147.125
6650	146.050	146.650	6925	146.325	146.925	7150	147.750	147.150
6675	146.075	146.675	6950	146.350	146.950	7175	147.775	147.175
6700	146.100	146.700	6975	146.375	146.975	7200	147.800	147.200
6725	146.125	146.725	7000	146.400	147.000	7225	147.825	147.225
6750	146.150	146.750	7025	147.625	147.025	7250	147.850	147.250
6775	146.175	146.775	7025	147.625	147.025	7275	147.875	147.275
6800	146.200	146.800	7050	147.650	147.050	7300	147.900	147.300
6825	146.225	146.825	7075	147.675	147.075	7325	147.925	147.325
6850	146.250	146.850	7100	147.700	147.100	7350	147.950	147.350
6875	146.275	146.875				7375	147.975	147.375

Australian 2 m FM Simplex Channel Numbers and Frequencies

Channel No.	Frequency (MHz)	WIA Band Plan Recommended use for specific frequencies	Channel No.	Frequency (MHz)	WIA Band Plan Recommended use for specific purposes
6425	146.425	Secondary voice channel	7400	147.400	ATV Liaison (national)
			7425	147.425	ATV Liaison (national)
6450	146.450	Primary voice channel	7450	147.450	ATV/SSTV/FAX
6475	146.475	Secondary voice channel	7475	147.475	SSTV/FAX Liaison
6500	146.500	Calling channel (national)	7500	147.500	No specific recommendation
6525	146.525	Secondary voice channel	7525	147.525	No specific recommendation
6550	146.550	Primary voice channel	7550	147.550	Microprocessor Net
6575	146.575	Secondary voice channel	7575	147.575	Data Net
6600	146.600	RTTY (national)	7600	147.600	Data Net

Notes: 1. Recommended use is for guideline purposes only.

2. Use of 146.000 MHz is not recommended as it interferes with the satellite band.

3. 144.925, .950, .975 for microprocessor-controlled continuous morse transmissions.

Australian 70 cm FM Simplex Frequencies

Frequency MHz	Recommended Use	Frequency MHz	Recommended Use
438.750	—	439.025	—
438.775	RTTY	439.050	Data Packet
438.800	WICEN	439.075	Data Packet
438.825	Voice Secondary	439.100	—
438.850	—	439.125	Voice Secondary
438.875	Data	439.150	—
438.900	—	439.175	—
438.925	SSTV	439.200	—
438.950	—	439.225	—
438.975	—	439.250	—
439.000	Voice Nat Primary		

Channels with no specific recommendation and channels between 433.750 and 434.250 may be used for any purpose.

Australian Repeater Service

AUSTRALIAN CAPITAL TERRITORY

Area	Callsign	Freq.	Time Out (Min)	Mode	Power Watts	Mobile Range (km)	Height ASL (m)	Site	Sponsor	Status
TWO METRES										
Canberra	VK1RAC	6900	4.0	Voice	10	100	870	Black Hill	Australia Capital Territory, WIA	O
ACT	VK1RGI	6950	4.0	Voice	25	150	1170	Mt. Ginini	Australia Capital Territory, WIA	O
UHF										
Canberra	VK1RUC	8525	3.0	Voice	10	50	—	Canberra City	Canberra Radio Society	T

NEW SOUTH WALES

Area	Callsign	Freq.	Time Out (Min)	Mode	Power Watts	Mobile Range (km)	Height ASL (m)	Site	Sponsor	Status
TWO METRES										
Western Blue Mountains	VK2RDX	6650	3.5	Voice	10	80	1362	Mt. Bindo	St. George ARS	O
North Coast/ Coffs Harbour	VK2RCH	6650	3.0	Voice	9	50	300	Bruxner Park	Coffs Harbour ARC	O
Moree/ Inverell	VK2RMI	6650	4.0	Voice	30	50	660	Terri Hie Hie	North West ARG	O
Sydney	VK2RTY	6675	—	RTTY	40	—	200	Pennant Hills	ANARTS	O
North Coast/ Pt. Macquarie	VK2RPM	6700	3.5	Voice	25	25	50	Pt. Macquarie	Oxley Region ARC	O
Central West—Orange	VK2RAO	6700	3.0	Voice	50	100	1397	Mt. Canobolas	Orange ARC	O
South Coast/ Ulladulla	VK2RMU	6700	3.5	Voice	35	50	150	Milton	Mid South Coast ARC	O
Central Coast/ Gosford	VK2RAG	6725	3.0	Voice	20	80	303	Somersby	Central Coast ARC	O
Far South Coast/ Bega	VK2RFS	6750	3.3	Voice	10	150	870	Mt. Mumbulla	Far South Coast ARC	O
New England/ Tamworth	VK2RTM	6750	3.0	Voice	20	120	930	Mt. Sterling	Tamworth ARC	O
Riverina/ Wagga	VK2RWG	6750	4.5	Voice	10	90	490	Mt. Flackney	Wagga ARC	O
Far North Coast/ Lismore	VK2RIC	6800	5.0	Voice	25	40	100	Parrots Nest	Summerland ARC	O
Sydney-Metro	VK2RLE	6800	3.5	Voice	30	60	240	Heathcote	St. George ARS	O
Orana Region/ Warrumbungles	VK2RCC	6800	3.0	Voice	25	150	1100	Needle Point	Orana Region ARC	O
Riverina/ Griffith	VK2RGF	6850	3.0	Voice	12	100	450	Mt. Binya	Griffith RC	O
South Coast/ Wollongong	VK2RAW	6850	4.0	Voice	25	50	769	Mt. Murray	Illawarra ARS	O
New England/ Sunnedah	VK2RAB	6850	4.0	Voice	10	50	440	Porcupine Reserve	North West ARC	O
Sydney/ North Beaches	VK2RMB	6875	3.0	Voice	25	25	150	Terry Hills	Manly Warringah DRC	O
Newcastle/ Hunter Valley	VK2RAN	6900	5.0	Voice	30	50	300	Mt. Sugarloaf	Hunter Branch RG	O
Central West/ Condobolin	VK2RRJ	6900	5.0	Voice	8	50	441	Boona Mount	Albert ARC	O
Sydney/ Lower North Shore	VK2RGR	6925	2.5	Voice	10	20	30	North Ryde	Gladesville ARC	O
New England/ Tablelands	VK2RNE	6950	4.0	Voice	10	110	1503	Mt. Rumbec	North West ARC	O
Sydney/ Metro	VK2RWI	7000	3.5	Voice	35/140	100	240	Dural	WIA (NSW) Division	O
Blue Mountains	VK2RMB	7050	3.5	Voice	15	50	900	Mt. Tomah	Blue Mountains ARC	O
Sydney/ Eastern Suburbs	VK2ROT	7075	3.0	Voice	20	25	90	Paddington	OTC ARC	O

[O = Operational T = Testing * = ERP]

Australian Repeater Service (Continued)

NEW SOUTH WALES (Continued)

Area	Callsign	Freq.	Time Out (Min)	Mode	Power Watts	Mobile Range (km)	Height ASL (m)	Site	Sponsor	Status
Central West - Grenfell	VK2RWM	7100	3.0	Voice	25	60	575	Grenfell	Parkes & District ARC	O
Hunter Region - Newcastle	VK2RTZ	7100	1.5	Voice	10	50	400	Watagan Ranges	Westlakes ARC	O
Statewide - Emergency	—	7125	—	WICEN	—	—	—	NSW WICEN	Portable 1	O
Sydney - Emergency	VK2RWS	7150	0.5	WICEN	10	50	140	Chatswood	NSW WICEN Committee	O
Statewide - Emergency	—	7175	—	WICEN	—	—	—	NSW WICEN	NSW Portable 2	O
South Coast - Nowra	VK2RSD	7200	4.0	Voice	10	50	600	Cambewarra 1. Out	Shoalhaven ARC	O
Sydney	VK2RS1	7225	4.0	SSIV	10	25	25	Lane Cove West	Gladesville ARC	O
Sydney Upper North Shore	VK2RNS	7250	3.5	Voice	10	25	225	Hornsby	Hornsby District ARC	O
South Coast - North Wollongong	VK2RII	7275	4.0	RTTY Voice	10	50	398	Sublime Point	Illawarra ARS	O
South Highland - Mittagong	VK2RIIR	7350	3.0	Voice	10	75	862	Bowral	South Highlands ARC	O
Sydney - South West	VK2RIID	7375	4.0	Voice	35	50	370	Razorback	Liverpool & Districts ARC	O
SEVENTY CENTIMETRES										
South Highlands	VK2RTK	8025	—	Voice	—	—	—	High Range	Trio Kenwood / South Highlands	T
Central Coast - Gosford - Wyong	VK2RAG	8075	3.0	Voice	8	80	303	Somersby	Central Coast ARC	O
South Coast - Wollongong	VK2RUW	8225	4.0	Voice	10	40	100	Port Kembla	Illawarra ARS	O
Sydney - Emergency	VK2RWS	8275	1.0	WICEN	5	10	140	Chatswood	NSW WICEN Committee	O
North Coast - Taree	VK2REE	8325	3.0	Voice	15	40	930	Taree District	Taree ARC	T
Blue Mountains - Central	VK2RUT	8375	3.0	Voice	15	40	500	Kurrabung	Blue Mountains ARC	O
Sydney - South Suburbs	VK2RUH	8425	4.0	Voice	25	25	100	Hurstville	St. George ARS	O
Sydney - West Suburbs	VK2RRS	8475	4.0	Voice	20	25	50	Parramatta	Gladesville ARC	O
Sydney - General	VK2RWI	8525	3.5	Voice	10	60	240	Dural	WIA (NSW) Division	O
Newcastle - Hunter Region	VK2RUM	8625	3.0	Voice	5	50	50	New Lambton	Newcastle ATC & UHF Club	O
Newcastle - Hunter Valley	VK2RAN	8675	5.0	Voice	50	75	300	Mt. Sugarloaf	Hunterbranch RG	O
Far North Coast - Lismore	VK2RSC	8675	5.0	Voice	10	40	300	Mt. Nardi	Summerland ARC	O
South Coast - North Wollongong	VK2RII	8725	4.0	RTTY Voice	5	30	398	Sublime Point	Illawarra ARC	O

Future Sydney systems will use channels in the 9000 (434.900-434.975 input) series.

To enable New Zealand repeaters to have clear channels for possible openings, no VK2 coastal allocations will be made from the 8000 series ending in either 00 or 50.

Australian Repeater Service (Continued)

VICTORIA

Area	Callsign	Freq.	Time Out (Min)	Mode	Power Watts	Mobile Range (km)	Height ASL (m)	Site	Sponsor	Status
TWO METRES										
Shepparton	VK3RGV	6650	3.5	Voice	25	120	800	Mt. Wombat	Victoria WIA	O
Melbourne	VK3RML	6700	2.5	Voice	50	120	600	Mt. Dandenong	Victoria WIA	O
Duyen	VK3RON	6700	2.5	Voice	25	—	—	Duyen	Victoria WIA	O
Corryong	VK3RNC	6700	2.5	Voice	25	—	—	Mt. Mittamatite	Victoria WIA	O
Ballarat	VK3RBA	6750	3.0	Voice	15	60	750	Mt. Bunningsyong	Victoria WIA	O
Lalrobe Valley	VK3RLV	6800	2.5	Voice	40	100	730	Mt. Tassie	Eastern Zone WIA	O
Mildura	VK3RMA	6800	4.0	Voice	100	60	50	Mildura Airport	North West Zone WIA	O
Mt. Macedon	VK3RMM	6850	2.5	WICEN	100*	120	1011	Mt. Macedon	Victoria WIA	O
Swan Hill	VK3RSH	6900	2.5	Voice	40	50	60	Swan Hill	Swan Hill ARC	O
East Gippsland	VK3REG	6900	4.5	Voice	25	100	560	Donalds Knob	Eastern Zone WIA	T
Gramplains	VK3RWZ	6950	2.5	Voice	25	130	1170	Mt. William	Western Zone WIA	O
Geelong	VK3RGL	7000	3.0	Voice	400*	140	400	Mt. Anakie	Victoria WIA	O
Wodonga	VK3RNE	7000	3.0	Voice	25*	60	1158	Mt. Big Ben	North East Zone WIA	O
Warramboul	VK3RWL	7050	2.5	Voice	—	—	—	Mt. Warramboul	Victoria WIA	O
Robinvale	VK3RVL	7050	2.5	Voice	10	—	—	Robinvale	Victoria WIA	O
Omeo	VK3RGO	7050	2.5	Voice	20	—	—	Mt. Livingstone	Victoria WIA	T
Bright	VK3RPB	7100	2.5	Voice	5	—	—	Mt. Porepunkah	Victoria WIA	T
South Gippsland	VK3RSG	7100	3.0	Voice	25	—	—	Bass Hill	Victoria WIA	O
Geelong	VK3RGC	7125	2.5	Voice	20	—	—	Montepellier	Victoria WIA	T
Bendigo	VK3RCV	7150	3.0	Voice	40*	100	730	Mt. Alexandria	Midlands Zone WIA	O
Melbourne	VK3REC	7175	3.0	Voice	25	80	600	Mt. Dandenong	Eastern Suburbs Club	O
West Gippsland	VK3RWG	7225	3.0	Voice	10	—	—	Warragul	Eastern Zone WIA	O
Melbourne	VK3RTY	7350	—	RTTY	25	—	600	Mt. Dandenong	Victoria WIA	O
SEVENTY CENTIMETRES										
Melbourne	VK3RMU	8075	3.0	Voice	5	—	—	Mt. St. Leonard	Victoria WIA	T
Melbourne	VK3ROU	8225	4.0	Voice	50	—	600	Mt. Dandenong	Victoria WIA	O
Gippsland	VK3RGU	8375	4.0	Voice	15	—	—	Carrajung	Eastern Zone WIA	O
Melbourne	VK3RAD	8525	3.0	Voice	20	—	—	Mitcham	70 cm Group	O
Wodonga	VK3RNU	8525	3.0	Voice	5	—	1051	Mt. Stanley	Victoria WIA	O
Mildura	VK3RRU	8825	2.5	Voice	5	—	—	Merbiem	Victoria WIA	T
Portable	VK3RWI	8625	—	WICEN	5	N/A	N/A	N/A	Victoria WICEN	O
Gramplains	VK3RWU	8675	3.0	Voice	25	—	1170	Mt. William	Victoria WIA	T
Mt. Macedon	VK3RCU	9275	3.5	WICEN	25	—	1011	Mt. Macedon	Victoria WIA	O
Shepparton	VK3RDU	9425	3.0	Voice	10	—	—	Mt. Major	Victoria WIA	T
Geelong	VK3RBU	9575	3.0	Voice	10	—	—	—	Victoria WIA	T
Melbourne	VK3RPU	9725	3.0	Voice	10	—	—	Arthur's Seat	Victoria WIA	T
TWENTY-THREE CENTIMETRES										
Melbourne	VK3RIC	1253.5	2.5	Voice	10	—	—	—	Victoria WIA	T
SIX METRES										
Melbourne	VK3RTN	3675	—	Voice	25	—	600	Mt. Dandenong	Victoria WIA	T
Melbourne	VK3RMH	3900	—	Voice	—	150	—	Hurstbridge	Victoria WIA	O

Australian Repeater Service (Continued)

QUEENSLAND

Area	Callsign	Freq.	Time Out (Min)	Mode	Power Watts	Mobile Range (km)	Height ASL (m)	Site	Sponsor	Status
TWO METRES										
Gold Coast	VK4RGC	6700	—	Voice	20/160*	80+	500	Mt. Tamborine	Gold Coast ARS	O
Rockhampton	VK4RAR	6700	5.0	Voice	20/50*	50	—	Rockhampton	Central Queensland Branch WIA	O
Townsville	VK4RAT	6700	8.0	Voice	25/50*	75	584	Mt. Stuart	Townsville ARC	O
Bundaberg	VK4RBU	6800	4.0	Voice	20/40*	80+	620	Mt. Goonaneman	Bundaberg ARC	O
Mt. Isa	VK4RMI	6800	—	Voice	20*	—	—	—	Mt. Isa ARC	O
Darling Downs	VK4RDD	6850	4.5	Voice	15*	20	640	Mt. Mowbray	Darling Downs RC	O
North Coast	VK4RNC	6850	—	Voice	10	50+	450	Mt. Nambour	Sunshine Coast ARC	O
Ipswich	VK4RAI	6900	4.5	Voice	20	40	120	Mt. Crosby	Ipswich and District ARC	O
Gladstone	VK4RGB	6900	3.0	Voice	20/50*	60	180	Caliope Range	Gladstone ARC	T
Cairns	VK4RCA	6950	—	Voice	10	160+	1650	Mt. Bellenden Ker	Cairns ARC	O
Brisbane	VK4RBN	7000	3.5	Voice	25/100*	80	630	Mt. Glorious	Brisbane VHF Group	O
Mackay	VK4RMK	7000	5.0	Voice	18/30*	20	17	N.E. Mackay	Mackay ARC	O
Brisbane	VK4RBT	7050	4.5	RTTY/ Voice	20/83	50	233	Mt. Cotton	S.E. Queensland Teletype Group	O
Brisbane	VK4RAG	7150	—	Voice	10	85	—	Springhall	WICEN	O
Bundaberg	VK4RBS	7250	—	RTTY	10	—	620	Mt. Goonaneman	Rum City RTTY Group	O
Brisbane	VK4RQT	7300	—	Voice	25	—	—	—	S.E. Queensland ATV Group	O
SEVENTY CENTIMETRES										
North Coast	VK4RNC	8075	—	Voice	5/20*	50+	450	Nr Nambour	Sunshine Coast ARC	T
Gold Coast	VK4RGC	8225	—	Voice	10*	60	500	Mt. Tamborine	Gold Coast ARS	O
Brisbane	VK4R	8375	—	Voice	—	—	—	Brisbane South	—	T
Brisbane	VK4RBC	8525	4.0	Voice	25/100	60+	560	Mt. Cootha	Brisbane VHF Group	T
Bundaberg	VK4RBU	8675	—	Voice	5	50+	620	Mt. Goonaneman	Bundaberg ARC	T

SOUTH AUSTRALIA

Area	Callsign	Freq.	Time Out (Min)	Mode	Power Watts	Mobile Range (km)	Height ASL (m)	Site	Sponsor	Status
TWO METRES										
Mid North	VK5RMN	6700	5.0	Voice	10	80	730	The Bluff	South Australia WIA	O
Adelaide	VK5RHO	6850	3.5	Voice	25	80	410	Houghton	South Australia WIA	O
Mt. Gambier	VK5RMG	6900	5.0	Voice	25	50	100	Mt. Gambier	South Eastern Radio Group	O
Adelaide	VK5RAD	7000	3.5	Voice	15	80	610	Crafers	South Australia WIA	O
Alice Springs	VK5RCA	7000	3.5	Voice	20	20	—	Alice Springs	Alice Springs Comm. Coll. RC	O
SEVENTY CENTIMETRES										
Adelaide	—	8525	4.0	Voice	5	—	610	Crafers	South Australia WIA	O

WESTERN AUSTRALIA

Australian Repeater Service (Continued)

Area	Callsign	Freq.	Time Out (Min)	Mode	Power Watts	Mobile Range (km)	Height ASL (m)	Site	Sponsor	Status
TWO METRES										
Bunbury	VK6RSW	6650	—	Voice	—	—	—	Bunbury	South West ARC	P
Perth	VK6RAP	6700	3	Voice	40	80	360	Roleystone	Western Australia Repeater Group	O
Albany	VK6RAL	6700	—	Voice	—	—	—	Albany	Southern Electronics Group	T
Wickham	VK6RWK	6700	—	Voice	—	50	—	Wickham	Wickham ARC	O
Wyndham	VK6RWH	6700	—	Voice	—	—	—	Wyndham	VK6GU and WA Repeater Group	O
Perth	VK6RTH2	6750	5	Voice	—	—	—	Tie Hill	WA Repeater Group	O
Perth	VK6RTH	6800	5	Voice	40	100	230	Tie Hill	Western Australia Repeater Group	O
Albany	VK6RAA	6800	3	Voice	40	100	420	Mt. Barker	Southern Electronic Group	O
Karratha	VK6RNP	6800	—	Voice	—	50	—	Karratha	North West RS	O
Exmouth	VK6REX	6850	—	Voice	—	—	—	Tower Zero	North West RS	O
Kambalda	VK6RKB	6850	—	Voice	—	—	—	Kambalda	Kalgoorlie Repeater Group	O
Bunbury	VK6RBY	6900	5	Voice	25	150	520	Mt. William	Western Australia Repeater Group	O
Mt. Newman	VK6RMN	6900	—	Voice	—	25	—	Mt. Newman	North West RS	T
Perth	VK6RPD	6950	3	Voice	40	70	70	Wait Bently	W.A.I.T. ARC	O
Emergency	VK6REE	6975	—	Voice	—	—	—	—	Western Australia Repeater Group	O
Emergency	VK6REF	7000	—	Voice	—	—	—	—	Western Australia Repeater Group	O
Wagin	VK6RAW	7000	5	Voice	25	80	400	Mt. Latham	Great Southern Repeater Group	O
Kalgoorlie	VK6RAK	7000	5	Voice	40	40	400	Kalgoorlie	Kalgoorlie Repeater Group	O
Geraldton	VK6RGN	7000	5	Voice	15	100	400	Geraldton	Geraldton ARC	O
Pt. Hedland	VK6RNW	7000	—	Voice	—	35	—	Pt. Hedland	Northwest ARS	O
Perth	VK6RTY	7050	—	RTTY	—	—	—	Nedlands	AARTG	P
Perth	VK6RWC	7100	5	Voice	—	—	—	Double View	West Coast ARC	O
Catby	VK6RCT	7200	—	Voice	—	—	—	Catby	Western Australia Repeater Group	P
Boddington	VK6RMS	7250	—	Voice	—	—	—	Mt. Saddleback	Western Australia Repeater Group	P
Encabba	VK6REN	7300	—	Voice	—	—	—	Ocean Hill	Western Australia Repeater Group	P
Brusselton	VK6RBN	7350	—	Voice	—	—	—	Brusselton	Western Australia Repeater Group	P
SIX METRES										
Perth	VK6RSM	53.8 Out 53.2 In	—	—	—	—	—	Tie Hill	Western Australia Repeater Group	T
SEVENTY CENTIMETRES										
Perth	VK6RUF	3525 In 8525 Out	—	—	—	—	—	Roleystone	Western Australia Repeater Group	O

Australian Repeater Service (Continued)

TASMANIA

Area	Callsign	Freq.	Time Out (Min)	Mode	Power Watts	Mobile Range (km)	Height ASL (m)	Site	Sponsor	Status
TWO METRES										
Hobart	VK7RHT	6700	2.5	Voice	70	190	1310	Mt. Wellington	South Branch WIA	O
North West Coast	VK7RNW	6750	5.0	Voice	30	100	160	Ulverstone	North West Branch WIA	O
North East Coast	VK7RAA	7000	5.0	Voice	60	150	1400	Mt. Barrow	North Branch WIA	O
East Coast	VK7REC	6900	2.5	Voice	10	120	970	Snow Hill	WIA	T
SEVENTY CENTIMETRES										
Hobart	—	8525	—	Voice	—	—	—	—	WIA	T
Hobart	VK7RIC	8600	—	Voice	8.32	50	—	Mt. Nelson	—	O
North East	VK7RAB	8650	3.0	Voice	8.70	100	1190	Mt. Arthur	Northern Branch WIA	O
North West	VK7RAC	8650	—	Voice	3.6	—	—	Table Cape	—	T

Australian Amateur Television Repeaters

Area	Call-sign	Frequencies				Site	Sponsor	Status
		Input		Output				
		Vision	Sound	Vision	Sound			
Wagga Melbourne Adelaide	VK2RTW	444.25H	449.75H	579.25H	584.75H	Williams Hill	NSW Division WIA	O
	VK3RTV	444.25	449.75	579.25	584.75	Mt. Dandenong	Victoria WIA	O
	VK5RTV	426.25H	431.75H	597.00H	584.50H	O'Halloran Hill	South Australia Division WIA	O
Central North	VK5RCN	Pri.	Pri.	444.25H	449.75H	Barunga Range	South Australia Division WIA	O
		444.25H	449.75H					
		Sec.	Sec.					
		426.25V	431.75V					
		Pri.	Pri.					
Perth North West Tasmania	VK6ROD VK7RTV	579.00H	584.50H	579.25	584.75	Doubleview Mt. Duncan	Rod Henderson, VK6RH NW ATV Group	O O
		Sec.	Sec.					
		426.25	431.75					
		426.25H	431.75H					

[H = Horizontal V = Vertical]

Australian Amateur Frequency Bands

Amateur stations licensed to holders of Amateur Operators' Certificates of Proficiency or equivalent or higher qualifications:

- (a) Authorised transmitting frequency bands:
- Medium Frequency Band (kHz) 1800-1825
1825-1875 (a)
 - High Frequency Bands (MHz)
3.50-3.70, 3.794-3.8 (a), 7.00-7.10, 7.10-7.3 (a), 10.1-10.15 (d)
14.00-14.35, 18.068-18.168 (a), 21.00-21.45, 24.890-24.990 (a)
26.96-27.23 (c) (d), 28.00-29.70
 - Very High Frequency Bands (MHz)
52-54, 144-148
 - Ultra High Frequency Bands (MHz)
420-450 (a), 576-585 (b), 1240-1300 (a)
2300-2450 (a) (c)
 - Super High Frequency Bands (GHz)
3.300-3.500 (a), 5.650-5.850 (a) (c)
10.000-10.500 (a), 24.000-25.050
24.050-24.250 (a) (c)

Notes: (a) The Amateur Service is the secondary service in this band.

- (b) This band is allocated on a temporary basis until required by the Broadcasting Service.
- (c) The whole or part of this band is designated for industrial, scientific and medical purposes. Radio-communication services operating within the band must accept any harmful interference that may be experienced from the operation of industrial, scientific or medical equipment.
- (d) The band 26.96 to 27.23MHz has been temporarily withdrawn from amateur use.
- (i) Types of emission authorised:
- All bands: A1, A3, A3A, A3B, A3H, A3J, A4 (± 3 kHz), F1 (up to 850Hz shift), F3 (± 3 kHz), F4 (± 3 kHz), Automatic Telegraphic Systems: F1 (up to 850Hz shift), A2 and F2 (± 3 kHz), Slow Scan Television: A5, F5 (± 3 kHz).
 - All bands above 52MHz: A0, A2, F2, F3, F4 (± 8 kHz), P0.
 - All bands above 420MHz: A5, P1, P2D, P2E, P2F, P3D, P3E, P3F.
- (ii) Authorised transmitter power:
- A3A, A3J—400 watts (peak envelope output power from final stage)
 - Pulse—120 watts peak envelope output power from final stage multiplied by the duty cycle)
 - Other emissions—120 watts (output power from final stage)

(b) Amateur stations licensed to holders of Amateur Operators' Limited Certificates of Proficiency or equivalent qualifications:

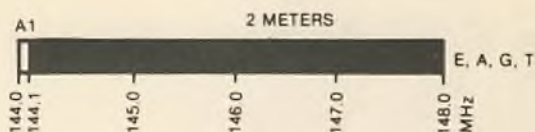
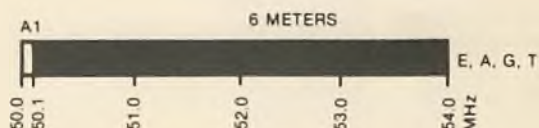
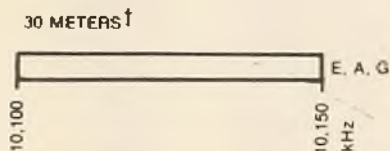
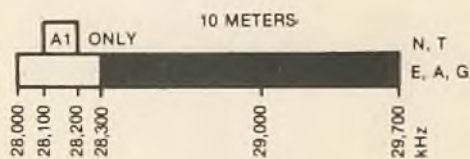
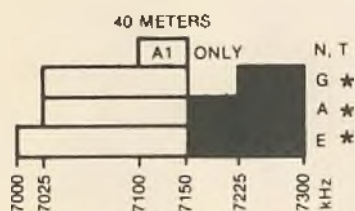
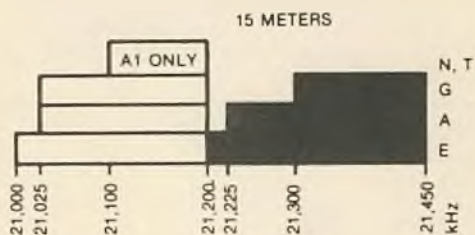
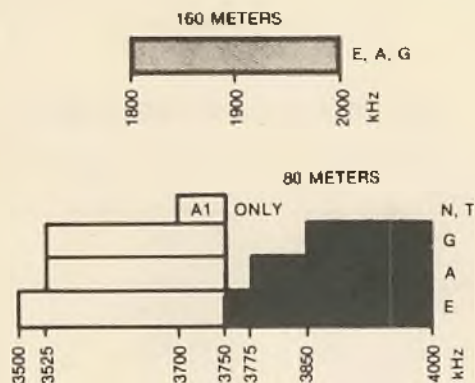
- (i) Authorised transmitting frequency bands:
- Very High Frequency Bands (MHz)
52-54, 144-148
 - Ultra High Frequency Bands (MHz)
420-450 (a), 576-585 (b),
1215-1300 (a), 2300-2450 (a) (c)
 - Super High Frequency Bands (GHz)
3.300-3.500 (a), 5.650-5.850 (a) (c),
10.000-10.500 (a), 24.000-24.050,
24.050-24.250 (a) (c)
- (ii) Types of emission authorised:
- All bands above 52MHz:
A0, A3, A3A, A3B, A3H, A3J, A4 (± 3 kHz), F3, F4 (± 8 kHz), P0, Automatic Telegraph Systems F1 (up to 850Hz shift), A2 and F2 (± 3 kHz), Slow Scan Television: A5, F5 (± 3 kHz).
 - All bands above 420MHz:
A5, P3D, P3E, P3F.
- (iii) Authorised transmitter power:
- A3A, A3J—400 watts (peak envelope output power from final stage)
 - Pulse—120 watts (peak envelope output power from final stage multiplied by the duty cycle)
 - Other emissions—(120 watts output power from final stage)
- (c) Novice Amateur station licensees:
- (i) Authorised transmitting frequency bands:
- High Frequency Bands (MHz)
3.525-3.625, 21-25-21.200,
26.960-27.230 (c) (d),
28.100-28.600.
- (ii) Types of emission authorised:
- All bands: A1, A3, A3A, A3B, A3H, A3J.
- (iii) Authorised transmitting power:
- A3A, A3J—30 watts (peak envelope output power from final stage)
 - A1, A3, A3B, A3H—10 watts (mean power output from final stage)

Amateur Bands in the United Kingdom

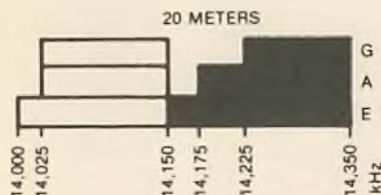
The Schedule of frequency bands, powers, etc., which for the sake of convenience, appear in an identical format in both the Class A and Class B licences.

Frequency bands in MHz	Status of allocation in the UK to:		Maximum power		Permitted types of transmission			
	The Amateur Service	The Amateur Satellite Service	Carrier	PEP				
1.810-1.850	Available to amateurs on a basis of non-interference to other services.	No allocation.	9 dBW	15 dBW	Morse Telephony RTTY Data Facsimile SSTV			
1.850-2.000					Morse Telephony Data Facsimile SSTV			
3.500-3.600	Primary. Shared with other services.	No allocation.	20 dBW	26 dBW	Morse Telephony RTTY Data Facsimile SSTV			
7.000-7.100	Primary.	Primary.						
10.100-10.150	Secondary.	No allocation.						
14.000-14.250	Primary.	Primary.						
14.250-14.350		No allocation.						
18.068-18.168	Available to amateurs on a basis of non-interference to other services. Antennas limited to horizontal polarisation, maximum gain 0 dB with respect to a half-wave dipole.	No allocation.	10 dBW	—	Morse, AIA only			
21.000-21.450	Primary.	Primary.	20 dBW	26 dBW	Morse Telephony RTTY Data Facsimile SSTV			
24.890-24.990	Available to amateurs on a basis of non-interference to other services. Antennas limited to horizontal polarisation, maximum gain 0 dB with respect to a half-wave dipole.	No allocation.	10 dBW	—	Morse, AIA only			
28.000-29.700	Primary.	Primary.	20 dBW	26 dBW	Morse Telephony RTTY Data Facsimile SSTV			
70.025-70.500	Secondary basis until further notice. Subject to not causing interference to other services. Use of any frequency shall cease immediately on demand of a government official.	No allocation.	16 dBW	22 dBW	Morse Telephony RTTY Data Facsimile SSTV			
144.0-146.0*	Primary.	Primary.	20 dBW	26 dBW				
430.0-431.0	Secondary. This band is not available for use within the area bounded by: 53°N 02°E, 55°N 02°E, 53°N 03°W, and 55°N 03°W.	No allocation.	10 dBW e.r.p.	16 dBW e.r.p.	Morse Telephony RTTY Data Facsimile SSTV Television			
431.0-432.0	Secondary. This band is not available for use: (a) within the area bounded by: 53°N 02°E, 55°N 02°E, 53°N 03°W, and 55°N 03°W; (b) within a 100 km radius of Charing Cross 51°30'30"N 00°07'24"W.							
432.0-435.0	Secondary.	No allocation.	20 dBW	26 dBW				
435.0-438.0		Secondary.						
438.0-440.0		No allocation.						
1240-1260		No allocation.						
1260-1270	Secondary.	Secondary. Earth to Space only.	20 dBW	26 dBW	Morse Telephony RTTY Data Facsimile SSTV Television			
1270-1325		No allocation.						
2310-2400		No allocation.						
2400-2450	Secondary. Users must accept interference from the ISM allocations in this band.	Secondary. Users must accept interference from the ISM allocations in this band.						
3400-3475		No allocation.						
5650-5670	Secondary.	Secondary. Earth to Space only.						
5670-5680		No allocation.						
5755-5765		No allocation.						
5820-5830	Secondary. Users must accept interference from the ISM allocations in this band.	Secondary. Users must accept interference from the ISM allocations in this band. Space to Earth only.						
5830-5850		No allocation.						
10000-10450	Secondary.	No allocation.						
10450-10500		Secondary.						
24000-24050	Primary. Users must accept interference from the ISM allocations in this band.	Primary. Users must accept interference from the ISM allocations in this band.						
24050-24250	Secondary. This band may only be used with the written consent of the Secretary of State. Users must accept interference from the ISM allocations in this band.	No allocation.						
47000-47200	Primary.	Primary.						
75500-76000								
142000-144000								
248000-250000								

United States of America Amateur Frequency Allocations



† FCC released an NPRM In Docket 84-960 to allocate 10.1 to 10.15 MHz to the Amateur Service on a primary basis. During the pendency of this proceeding, amateurs may use the entire 10.1-10.15 MHz band, A1 and F1 modes, with a 200-W PEP output limit. (See Happenings, Dec. 1984 QST.)



KEY

	= A1 AND F1	E = EXTRA
	= A1 AND A3	A = ADVANCED
	= A1, VOICE, SSTV AND FAX	G = GENERAL
		T = TECHNICIAN
		N = NOVICE

* Phone operation is allowed on 7075-7100 kHz in Hawaii and areas near ITU Region 3, including Alaska.

Beacon Stations

INTERNATIONAL 28 MHz BEACON PROJECT

This project is sponsored and encouraged by IARU Region 1 and organised by Alan Taylor, G3DME. The establishment of the beacon stations has stimulated scientific interest in the propagation paths revealed by the reception of the beacons. In addition they fulfil a practical role by providing signals on what may be otherwise a dead band.

QSL address for all beacons is via ZL3ND, 356 Avonside Drive, Christchurch 6.

Freq. (MHz)	Call Sign	QTH
28.175	VE3TEN	Canada
28.201	IU8ED	Argentina
28.2025	ZS5VHF	Natal
28.2025	9J2B	Zambia
28.205	DL0IGI	Mt. Predighstul, east of Munich. On 28.200 for 5 min at the hour and 30 min past.
28.210	3B8MS	Signal Mount Mauritius
28.2125	ZD9GI	Gough Island, South Atlantic
28.215	GB3SX	Crowborough, England. 10W
28.2175	VE2TEN	Chicoutimi, Quebec
28.220	5B4CY	Cyprus, 26 w GP ant.
28.220	IU4XS	Tierra Del Fuego, 5 w. 5/8 vertical
28.2225	HG2BHA	Hungary
28.225	EA6AU	Balearic Island
28.225	VE8AA	Canada
28.230	ZL2MHF	Mt Climie, New Zealand 50 w, vertical dip.
28.235	VP9BA	Southampton, Bermuda
28.2375	LA5TEN	Oslo, Norway
28.240	OA4CK	Lima, Peru
28.2425	ZS1CTB	South Africa
28.245	A92C	Bahrain
28.249	ZL1ANB	Zimbabwe
28.250	LU1UG	Argentina
28.2575	DK0TE	Konstanz, Germany
28.249	VK5WI	Adelaide, Australia
28.2615	VK2RSY	Sydney, Australia
28.264	VK6RWA	Perth, Australia
28.264	PY2EXD	Brazil
28.266	VK6RTW	Albany, Australia
28.270	VK4RTI	Townsville, Australia
28.270	ZS6PW	South Africa
28.2725	9L1FTN	Sierra Leone
28.2775	DF0AAB	Lutjenberg, North Germany 40 w GP ant.
28.280	YV8AYV	Venezuela
28.284	VP8ADE	Falkland Island, V-beam to England
28.290	VS6HK	Hong Kong 4 w GP ant.
28.295	VU2BCN	Bangalore, India (QRT?)
28.300	PY2AMI	Sao Paulo, Brazil
28.3025	ZS1STB	South Africa
28.315	ZS6DN	South Africa

The above frequencies are listed as actually measured by ZL1BAD. They may vary in practice due to drift or the difference between their mark and space frequencies.

AMATEUR BAND BEACONS

Freq. (MHz)	Call Sign	QTH
50.005	H44HIR	Honiara
50.008	JA2IGY	Mie
50.020	GB3SIX	Anglesey
50.045	OX3VHF	Greenland
50.050	GB3NHQ	England
50.075	VS1SIX	Hong Kong
50.109	JD1YAA	Japan
50.945	ZS1SIX	South Africa
52.033	P29BPL	Loloata Island
52.100	ZK2SIX	Niue
52.150	VK0CK	Macquarie Island*
52.200	VK8VF	Darwin
52.300	VK6RPH	Perth*
52.325	VK2RHV	Newcastle
52.330	VK3RGG	Geelong*
52.350	VK3RTU	Kalgoorlie
52.370	VK7RST	Hobart
52.420	VK2RSY	Sydney
52.425	VK2RGB	Gunnedah
52.435	VK3RMV	Hamilton*
52.440	VK4RTL	Townsville
52.450	VK5VF	Mt. Lofty
52.460	VK6RPH	Perth
52.465	VK6RTW	Albany
52.470	VK7RNT	Launceston
144.019	VK6RBS	Busselton
144.410	VK1RCC	Canberra
144.420	VK2RSY	Sydney
144.430	VK3RTG	Melbourne*
144.435	VK3RMV	Hamilton*
144.465	VK6RTW	Albany
144.480	VK8VF	Darwin
144.530	VK3RGG	Geelong†
144.535	VK3RGI	Gippsland†
145.000	VK6RPH	Perth
147.400	VK2RCW	Sydney
432.057	VK6RBS	Busselton
432.159	VK6RPR	Nedlands
432.420	VK2RSY	Sydney
432.425	VK3RMB	Ballarat
432.440	VK4RBB	Brisbane
1296.171	VK6RBS	Busselton

*Not heard recently.

†Testing

Small Ships Radio-telephone Service

TABLE OF FREQUENCIES

2182 kHz.

The international distress safety and calling frequency for radio-telephony.

All ships licensed for operation in the authorised marine radio-telephone service frequency bands between 1605 kHz and 2850 kHz must be able to transmit and receive on the frequency of 2182 kHz. Distress, urgency and safety calls should be made on this frequency when establishing communication with other stations of the maritime service and for use by coast stations to announce the transmission on other frequencies of traffic lists. The exchange of traffic or other radio communications except distress, or urgency traffic should be carried out on a working or inter-ship frequency so as to leave 2182 kHz available for the reception of distress calls. Safety traffic should also be exchanged on a working or inter-ship frequency.

Stations, other than those in distress should listen for a reasonable period before transmitting on 2182 kHz to make sure no distress traffic is being sent.

2045 kHz

Supplementary calling frequency when 2182 kHz occupied with distress traffic.

2068 kHz

2456 kHz

2638 kHz

For intership working after communication has been established on 2182 kHz or 2045 kHz.

2162 kHz

2012 kHz

These frequencies are for use by ships wishing to send messages to Post Office coast stations or Harbour Board stations after communication has been established on 2182 kHz. They may also be used by Harbour Board stations as a working frequency.

2444 kHz

2480 kHz

For use at privately-operated coast stations and by ships for exchanging messages after communication has been established on 2045 kHz or 2182 kHz.

2104 kHz

Chatham Islands Radio working frequency.

2153 kHz

Wellington Radio working frequency.

2207 kHz

Auckland Radio working frequency.

2423 kHz

Awarua Radio working frequency.

2089 kHz

2129 kHz

For communication with shore stations licensed to provide communication facilities for aquatic sporting events. These frequencies are also used by land stations providing communication for sporting events.

4125 kHz

Supplementary distress, safety and calling frequency used by coast and ship stations.

4419.4 kHz

4143.6 kHz

Working frequency for use by New Zealand coast stations and New Zealand licensed ships after initial contact has been established on 4125 kHz.

6215.5 kHz

Supplementary distress and calling frequency for radio-telephony.

6218.6 kHz

A coast and inter-ship working frequency for stations after communication has been established on 6215.5 kHz.

Channel 16 (156.8 MHz)

The international distress, safety and calling frequency for the maritime mobile VHF radio-telephone service.

All ships licensed for operation in the authorised bands between 156 MHz and 174 MHz must be able to transmit and receive on this frequency.

Channel 6 (156.3 MHz)—Channel 8 (156.4 MHz)

For inter-ship working. As with Channel 16 all vessels fitted with VHF must be able to transmit and receive on Channel 6.

Channel 12 (156.6 MHz)—Channel 14 (156.7 MHz)

For communication with coast stations on port operation matters.

Channel 60 (156.025 MHz)—Channel 61 (156.075 MHz)

Channel 62 (156.125 MHz)—Channel 63 (156.175 MHz)

Channel 64 (156.225 MHz)

Two frequency talk-through repeater channels.

Channel 68 (156.425 MHz)

For use nationally by rescue organisations. Also for communication with Wellington Radio.

Channel 71 (156.575 MHz)—Channel 74 (156.725 MHz)

Channel 77 (156.875 MHz)

For working between coast stations and ship stations after communication has been established on Channel 16. Available for aquatic events.

CLASSES OF EMISSION

2182 kHz

The class of emission to be used on the distress, safety and calling frequency shall be A3E or single sideband full carrier (H3E).

1605 kHz

2850 kHz

Working frequencies in the band 1605–2850 kHz shall be single sideband suppressed carrier (J3E).

4143.6 kHz 4125 kHz 4419.4 kHz 6218.5 kHz
Class J3E only.

Post Office Coast Station Broadcasts

The following broadcasts are made from Post Office Coast Stations daily. A preliminary call is made on 2182 kHz and the broadcasts are made on the working frequencies at the times shown.

	Awarua Radio ZLB (2423 kHz)	Wellington Radio ZLW (2153 kHz)	Auckland Radio ZLD (2207 kHz)	Chatham Islands Radio ZLC (2104 kHz)
List of messages on hand	1220* 1620*	1235* 1635*	1240* 1640*	0645* 1845*
Navigational warnings	0003 0403 0803 1203 1603 2003	0006 0406 0806 1206 1606 2006	0009 0409 0809 1209 1609 2009	0012 0412 0812 1212 1612 2012
Meteorological warnings and coastal weather forecasts	0503 0848+ 1103* 1703* 2303	0518 0903+ 1118 1718 2318	0533 0918+ 1133* 1733* 2333	— —
Weather reports from coastal stations (lighthouses, etc)	0725 1325 1925	0735 1335 1935	0740 1340 1940	— —
Chatham Islands-New Zealand area bulletin including relevant meteorological warnings	0940 2140	1003 2203	—	0950 2150
Chatham Islands forecast, including relevant meteorological warnings	—	—	—	1550
Forecast for area from New Zealand to Fiji, between 160° E and 170° W including relevant meteorological warnings	—	—	2218*	—
*Also broadcast on 4419.4 kHz. +This forecast is an updated version of the bulletin made at 0503, 0518 or 0533.				

VHF WEATHER BROADCASTS

	Auckland Radio (Channel 71)	Wellington Radio (Channel 68/71)
Auckland Harbour and Hauraki Gulf	0300 0700 0900 1100 1300 1500 1700 2100	—
Coastal area	—	0515 1115
Cook	—	1715 2315

Marine Radiobeacons

Station	Call-sign	Freq. kHz	Position
Cape Reinga	CR	290 34° 25' 55" S	172° 40' 54" E
Moko Hinau	MU	294 35° 54' 24" S	175° 07' 00" E
Cuvier Island	CV	302 36° 26' 20" S	175° 46' 36" E
East Cape	EC	320 37° 41' 27" S	178° 32' 52" E
Table Cape	TC	314 39° 06' 50" S	177° 59' 34" E
Stephens Island	SP	305 40° 40' 06" S	174° 00' 00" E
The Brothers	BR	317 41° 06' 18" S	174° 26' 30" E
Cape Campbell	CC	286 41° 44' 12" S	174° 16' 18" E
Steep Head	LB	294 43° 44' 48" S	173° 07' 36" E
Iaiaroa Head	TR	320 45° 47' 08" S	170° 43' 56" E
Dog Island	DI	306 46° 39' 08" S	168° 24' 32" E
Puysegur Point	PY	290 46° 09' 30" S	166° 36' 54" E

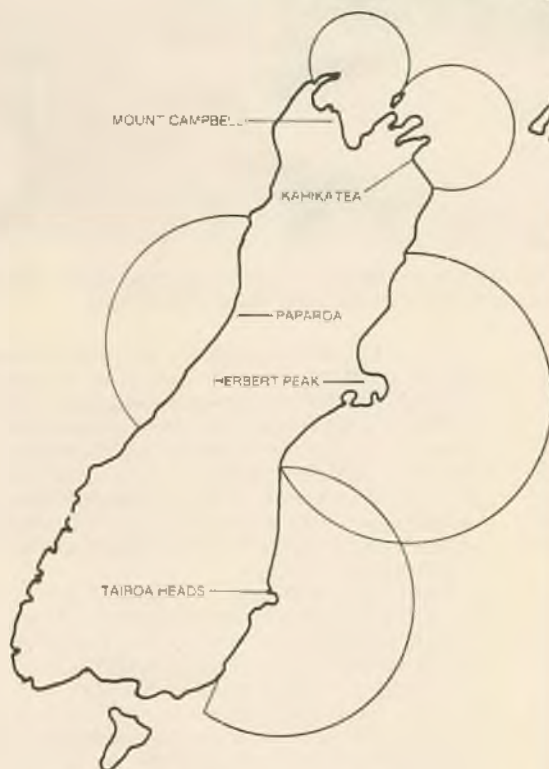
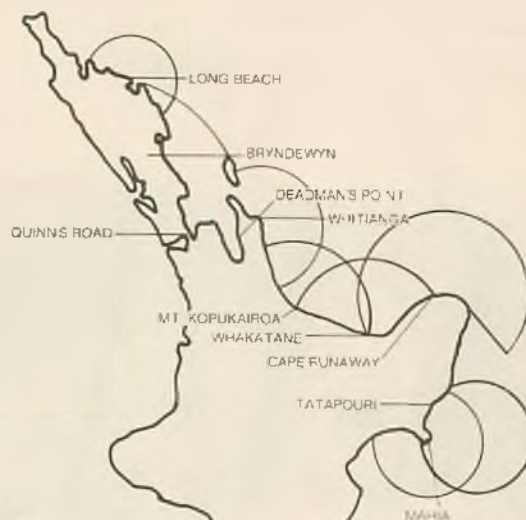
Aeronautical Beacons

Station	Call-sign	Freq. kHz	Position
Ashburton	AS	254 43° 54' 23" S	171° 48' 24" E
Chatham Is.*	CI	322 43° 57' 27" S	176° 34' 01" W
Christchurch	CH	274 43° 27' 38" S	172° 34' 01" E
Dunedin	DN	338 45° 47' 55" S	170° 28' 38" E
Gisborne	GS	346 38° 40' 20" S	177° 59' 20" E
Hokitika	HK	310 42° 43' 52" S	170° 57' 22" E
Kaikoura	KI	326 42° 25' 20" S	173° 41' 43" E
Kaitia	KT	238 35° 01' 50" S	173° 14' 30" E
Napier	NR	354 39° 28' 27" S	176° 52' 17" E
Nelson	NS	394 41° 17' 58" S	173° 07' 50" E
New Plymouth	NP	370 39° 00' 14" S	174° 10' 56" E
Oamaru	OU	302 44° 56' 56" S	171° 07' 56" E
Tauranga	TG	266 37° 40' 11" S	176° 12' 00" E
Wairoa	WO	246 39° 03' 47" S	177° 24' 44" E
Waiuku	WI	254 37° 16' 10" S	174° 48' 50" E
Wanganui	WU	382 39° 57' 40" S	175° 01' 35" E
Waverley	WY	330 39° 45' 57" S	174° 39' 02" E
Wellington	WN	298 41° 20' 24" S	174° 48' 48" E
Westpoint	OT	398 37° 03' 44" S	174° 36' 34" E
Westport	WS	278 41° 44' 36" S	171° 34' 46" E
Whakatane	WK	362 37° 55' 35" S	176° 54' 55" E
Whangarei	WR	386 35° 50' 11" S	174° 27' 22" E
Whenuapai	WP	206 36° 49' 31" S	174° 34' 34" E
Wigram	WG	406 43° 32' 54" S	172° 32' 36" E
Woodend	OD	262 43° 20' 39" S	172° 42' 03" E

*No 24-hour service. Operated only on request through Chatham Island Radio ZLC.

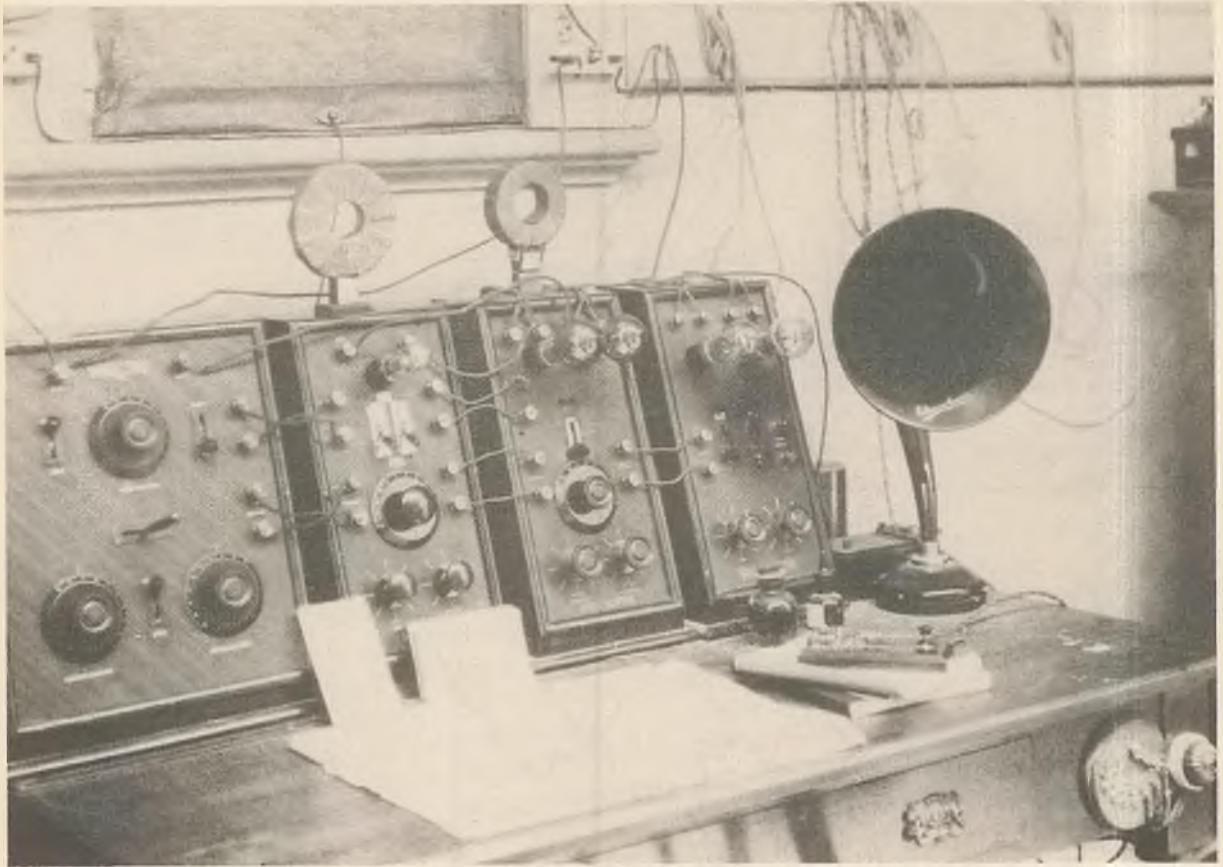
VHF Marine Repeaters

NORTH ISLAND	
Location	Channel No.
Long Beach, Russell	63
Brynderwyn, Whangarei	64
Quinn's Road, Auckland	60
Deadman's Point, Coromandel	62
Whitianga	61
Mt Kopukairoa, Tauranga	62
Whakatane	60
Cape Runaway	63
Talapouri, Gisborne	60
Mahia	63



SOUTH ISLAND	
Location	Channel No.
Mt. Campbell, Motueka	60
Kahikatea,	
Marlborough Sounds	63
Herbert Peak,	
Banks Peninsula	63
Taiaroa Heads, Dunedin	62
Paparoa, Greymouth	63

Timekeeping in New Zealand



The Barndep radio receiver used for the reception of overseas time signals until the late 1930s. Signals were recorded by tapping the hand key in synchronisation with the incoming signals.

Historical review

The DSIR took over responsibility for the Time Service when the Department was formed in 1926, but the story goes back much further.

It all began in 1862, when Captain Stephen Carkeek, Controller of Customs, recommended to the Superintendent of Wellington Province that a transit instrument, an astronomical clock, and a time ball be placed in the new Custom House which was to be erected on what eventually became the site of the General Post Office.

A transit instrument allows mean local time to be calculated. This is the time appropriate to the longitude of the point of measurement, relative to the Greenwich Meridian, allowing four minutes per degree of longitude, or one hour per 15 degrees. It was not until 1886 that the General Government proclaimed a uniform time for New Zealand, based on the meridian 172°30' East. The advent of the telegraph had made rapid communications possible and therefore the concept of a uniform time feasible without the need for observations in every town and port. New Zealand was in fact the first country to establish a uniform time by legislation, and its scientists played an important role in establishing uniform time zones in certain other countries.

A new Colonial Observatory was built in Wellington in 1869 in the Bolton Street Cemetery, on the site where the Richard John Seddon memorial now stands. Seddon's death in 1906, and the choice of the site for the memorial, precipitated the move of the Observatory to its present site in the Botanical Gardens in Kelburn. A small red brick building was erected on the site of the old Gardens Battery. It was completed in 1907 and became known as the Hector Observatory, after Sir James Hector who had been Director of the Colonial Observatory.

Experiments with radio time signals began in 1916, with the reception of signals from Melbourne and transmission to ships in the vicinity of New Zealand and to Tahiti. Other regular services were established in 1919.

In 1926 the Department of Scientific and Industrial Research was formed, and became responsible for the Time Service. Although precision in time signals of a quarter of a second was claimed until the 1950s, the actual errors were often greater than this. The Geophysics Division of the DSIR was formed in 1951, and took over administrative responsibility for the Time Service. It was not until 1962, however, that any real advances were made. Clocks which used the very stable electrical oscillations of quartz crystals were

installed. Checks were made regularly against radio time signals from overseas which were obtained from astronomical observations, and appropriate corrections were made for the propagation time to Wellington.

More recently, the world's time has been related to an even more stable clock than our rotating earth — the vibrations of the caesium atom. Each element has its characteristic frequency of vibration, such as that of sodium which gives us the familiar orange colour of highway lighting. The characteristic frequency for caesium is particularly stable. A caesium clock is operated by the Physics and Engineering Laboratory of the DSIR, and is accurate to one second in 3000 years. New Zealand Standard Time (NZST) is now maintained by referring the quartz clocks to the new source. The original pendulum clocks are still operating, but astronomical measurements are no longer necessary.



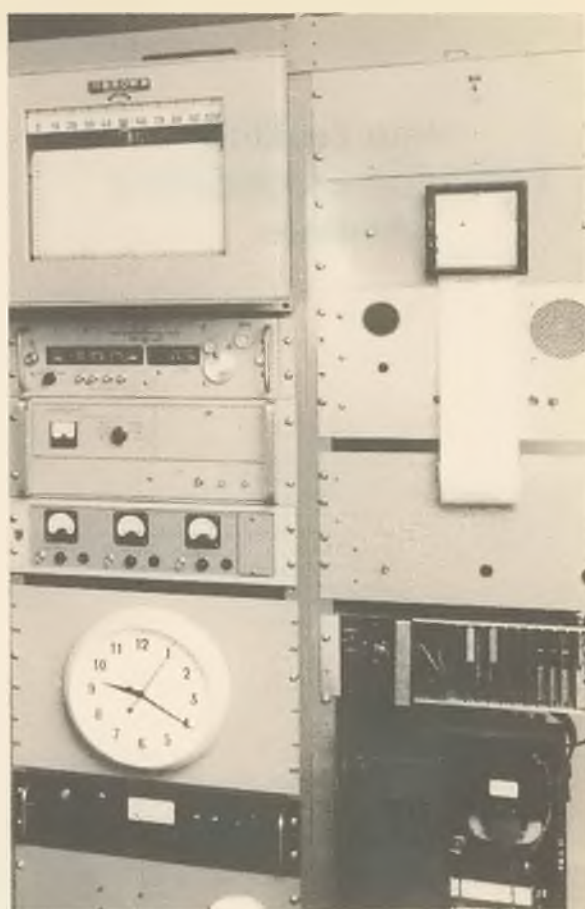
The Kelburn Observatory, Wellington.

Standard Time and Daylight Saving

The Mean Time Act of 1868 gave us a time of 11 hours 30 minutes ahead of Greenwich Mean Time. This was until 1927 when the clocks were advanced one hour for the summer. This daylight saving measure was not well received, so in the following year the advance was reduced to half an hour. After the advance in 1944 the clocks were not put back for the winter. Because this was equivalent to adopting a new standard time meridian, the position was regularised by the New Zealand Standard Time Act of 1945. New Zealand Standard Time is thus 12 hours ahead of Greenwich Time, now called Universal Time (UT), i.e., it is the mean time for the 180° meridian. The Time Act of 1974 allowed for an advance of one hour, normally from 0200 hours NZST on the last Sunday in October until 0200 hours NZST on the first Sunday in March of the following year. This defined New Zealand Daylight Time (NZDT) to be 13 hours ahead of Universal Time.

Time Signals

The most widely used time signals are those broadcast by the Broadcasting Corporation of New Zealand, on the National Programme. These signals are transmitted every hour and consist of six "pips" of 1000 Hz tone, at one second intervals, the beginning of each pip marking the exact second. When a pip marks the exact hour, its length is doubled. The precision with which the beginning of the long



A portion of the quartz crystal time-keeping equipment.

pip marks the exact hour is usually less than 100 microseconds (0.0001 seconds) as it leaves the Observatory. Delays along telephone lines to the Broadcasting Corporation and in radio propagation to the remote parts of New Zealand can amount to a few milliseconds.

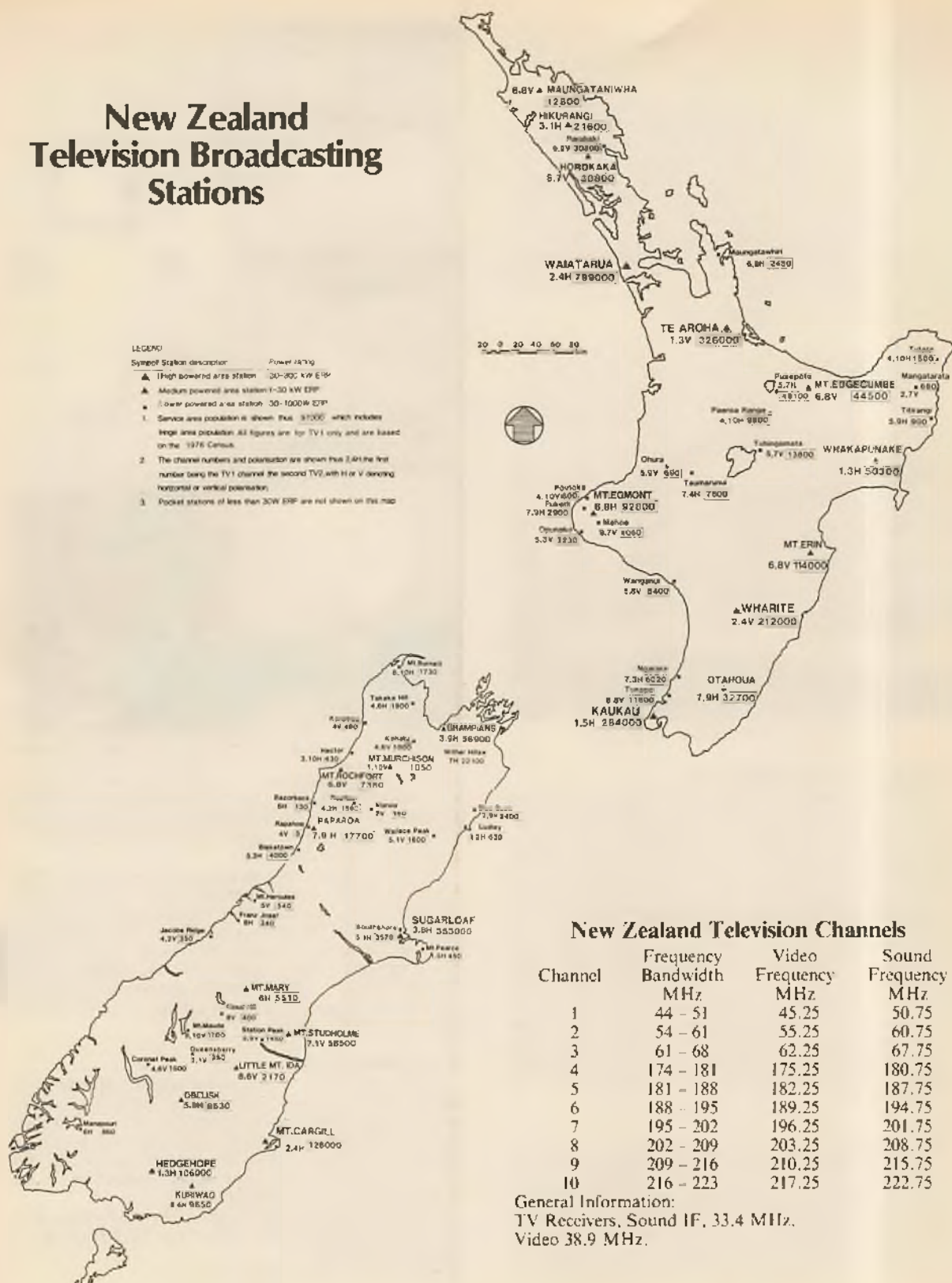
On certain occasions there are seven pips broadcast. This happens when, by international agreement, Universal Time is delayed by one second to keep it in step with astronomical time as determined by the Earth's rotation. This is done when necessary, but is not predictable because the Earth's rotation rate is variable when compared with the extremely stable caesium clocks. Universal Time was set up to be slightly fast, so that a "leap second" could be added on the first day of January or July, if necessary.

Why all this accuracy?

There will always be a need for accurate time-keeping. Digital watches are now commonplace, and their owners are naturally conscious of accurate time. In the scientific community, astronomers and seismologists, among others, need access to accurate clocks for their measurements, and it is very convenient to have time signals obtainable via the broadcast band on any domestic radio.

Every effort will be made to ensure that the accuracy of the time signals is maintained, and perhaps even improved as technology develops. (DSIR Extension Information 36)

New Zealand Television Broadcasting Stations



TELEVISION BROADCASTING STATIONS

[illegible]

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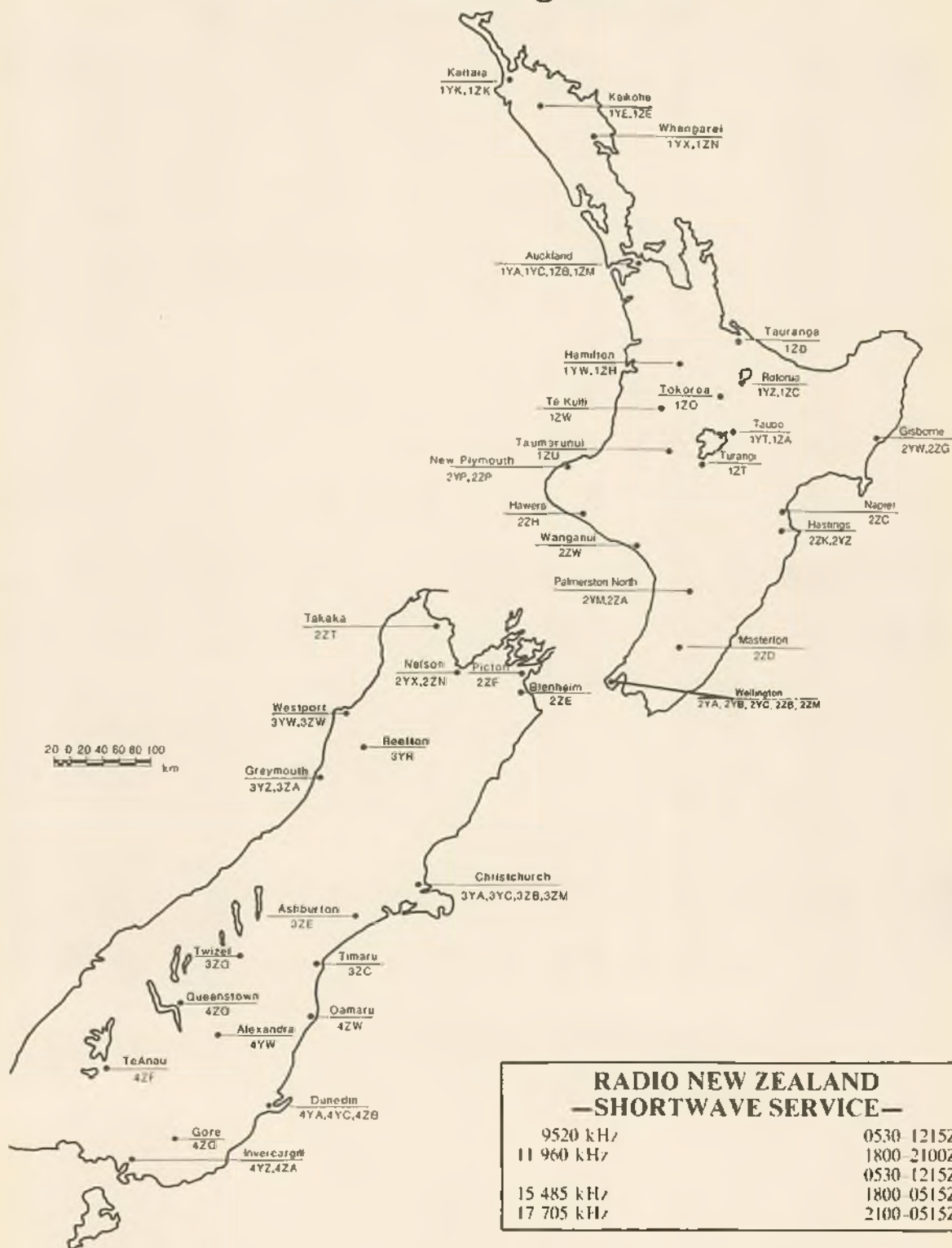
NZART CALL BOOK, 1985

TELEVISION BROADCASTING STATIONS

STATION NAME	REF. NO.	CHAN. NO.	SET NO.	POLARIZATION	RATED DBP WHITE	TRANSMITTER POWER MATR.	TRANSMITTER SIGNAL CATEGORY	POWER SUPPLY	ANTENNA Type	HEIGHT Meters	SLANT RANGE km	LOCAL RANGE km	COORDINATES LONG. LAT.	MAP REFERENCE	THREAT/DISTRICT
BOJAIHAI STATION	191	7	10.0	V	0.05	0.01	A	12V	PA10	3	120	120	118 18 52	N 880531635	East Coast
BOJAIHAI STATION	192	7	10.0	V	0.05	0.01	A	12V	PA10	3	120	120	118 18 52	N 880531635	East Coast
BOJAIHAI STATION	193	7	10.0	V	0.05	0.01	A	12V	PA10	3	120	120	118 18 52	N 880531635	East Coast
BOJAIHAI STATION	194	7	10.0	V	0.05	0.01	A	12V	PA10	3	120	120	118 18 52	N 880531635	East Coast
BOJAIHAI STATION	195	7	10.0	V	0.05	0.01	A	12V	PA10	3	120	120	118 18 52	N 880531635	East Coast
BOJAIHAI STATION	196	7	10.0	V	0.05	0.01	A	12V	PA10	3	120	120	118 18 52	N 880531635	East Coast
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BOJAIHAI STATION	272	7	10.0	V	0.05	0.01	A	12V	PA10	3	120	120	118 18 52	N 880531635	East Coast
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BROADCASTING CORPORATION OF NEW ZEALAND

Radio Transmitting Stations



RADIO NEW ZEALAND —SHORTWAVE SERVICE—

9520 kHz	0530-1215Z
11 960 kHz	1800-2100Z
	0530-1215Z
15 485 kHz	1800-0515Z
17 705 kHz	2100-0515Z

MF BROADCASTING STATIONS

CALL SIGN	FREQUENCY kHz	TRANSMITTER LOCATION	POWER kW	EMERGENCY POWER	ANTENNA TYPE	HEIGHT m	OBST. LGTHS	COL. BDC	SITE HEIGHT m	Lat. Deg	South Min	Long. Deg	East Min	Sec	CO-ORDINATES	LOCATION OF TRANSMITTER BACKUP	STUDIO LOCATION	EMERGENCY POWER
1YK	837 S	WAIAPAKAURI	2.	Yes	Mast	55	No	Yes	2	35	02	15	173	14	47		WANGAREI	Yes
1ZK	1026 S	WAIAPAKAURI	2.	Yes	Mast	55	No	Yes	2	35	02	15	173	14	47	Transmitter	12N REPEATER	Yes
1YE	981	OHATAHAI	2.	No	Mast	55	No	Yes	183	35	21	45	173	52	25		WANGAREI	Yes
1ZE	1215	OHATAHAI	2.	No	Mast	55	No	Yes	183	35	21	45	173	52	25	Transmitter	12N REPEATER	Yes
1ZM	1026 S	OTAIKA	2.	Yes	Mast	90	No	Yes	8	35	46	54	174	19	15		WANGAREI	Yes
1YX	837 S	OTAIKA	2.5	Yes	Mast	90	No	Yes	8	35	46	54	174	19	15	Transmitter	WANGAREI	Yes
1YA	756	HENDERSON	20.	Yes	Mast	153	Yes	Yes	15	36	51	03	174	17	46	Transmitter	AUCKLAND	Yes
1YC	862	HENDERSON	10.	Yes	Mast	153	Yes	Yes	15	36	51	03	174	17	46	Transmitter	AUCKLAND	Yes
1ZD	1080	HENDERSON	10.	Yes	Mast	122	Yes	No	9	36	50	46	174	37	51	Transmitter	AUCKLAND	Yes
1ZM	1251	HENDERSON	2.	Yes	Mast	122	Yes	No	9	36	50	46	174	37	51	Transmitter	AUCKLAND	Yes
1ZH	1296	EUREKA	5.	Yes	Mast	98	No	Yes	50	37	41	45	175	24	14	Transmitter	HAMILTON	Yes
1YW	1163	EUREKA	2.	Yes	Mast	98	No	Yes	50	37	41	45	175	24	14	Transmitter	HAMILTON	Yes
1ZU	1413	WILTSDOWN	2.	Yes	Mast	55	No	Yes	259	38	10	00	175	47	35	Transmitter	TOKOROA	No
1ZV	1512	TAUMARUNUI	1.	Yes	Tower	41	No	No	167	38	53	15	175	15	36		TAUMARUNUI	Yes
1ZW	1170	WAITOMO	0.4	Yes	Mast	55	No	Yes	70	38	16	26	175	08	00	Transmitter	TE KUITI	No
1YZ	819	PAENGAROA	10.	Yes	Mast	153	No	Yes	29	37	48	45	176	24	45	Transmitter	ROTORUA	Yes
1ZU	1008	PAENGAROA	10.	Yes	Mast	153	No	Yes	29	37	48	45	176	24	45	Transmitter	ROTORUA	Yes
1ZC	1350	TIHIOTONGA	2.	Yes	Mast	55	Yes	Yes	431	38	10	36	176	13	50	Studio	ROTORUA	Yes
1ZA	1404	TAUPO	2.	Yes	Tower	53	Yes	Yes	423	38	40	23	176	04	25	Transmitter	TAUPO	No
1YI	1314 S	TAUPO	2.	Yes	Tower	53	Yes	Yes	423	38	40	23	176	04	25		TAUPO	No
1ZT	1386	TURANGI	0.1	No	Mast	23	No	No	366	38	58	52	175	47	56		12A REPEATER	No
2YQ	945	WAIKUI	2.	Yes	Mast	53	No	Yes	15	38	41	44	178	03	45	Studio	GISBORNE	Yes
2YU	1314 S	WAIKUI	2.	Yes	Mast	53	No	Yes	15	38	41	44	178	03	45	Transmitter	GISBORNE	Yes
2YZ	630	OPAPA	20.	Yes	Mast	88	No	Yes	53	39	48	02	176	40	34	Transmitter	NAPIER	Yes
2YK	765	OPAPA	5.	Yes	Mast	88	No	Yes	53	39	48	02	176	40	34	Transmitter	HASTINGS	No
2YK	765	OPAPA	5.	Yes	Mast	88	No	Yes	53	39	48	02	176	40	34	Transmitter	HASTINGS	No
2YC	1278	PAKOHAI	2.	Yes	Tower	41	No	No	15	39	33	46	176	51	57	Transmitter	NAPIER	Yes
2ZP	1053	DELL BLOCK	2.	Yes	Mast	53	Yes	Yes	8	39	02	28	174	07	38	Transmitter	NEW PLYMOUTH	Yes
2ZP	1530	DELL BLOCK	2.	Yes	Mast	53	Yes	Yes	8	39	02	28	174	07	38	Transmitter	NEW PLYMOUTH	Yes
2ZH	1557	KOROMAKY	2.	No	Tower	41	No	No	134	39	31	23	174	16	17	Transmitter	22P REPEATER	Yes
2ZW	1197	KAITAKE	2.	Yes	Mast	55	Yes	Yes	61	39	57	49	175	04	41	Transmitter	WANGANUI	Yes
2ZA	927	KAIRANGA	2.	Yes	Mast	53	Yes	Yes	20	40	20	37	175	34	12	Transmitter	PALMERSTON NTH	Yes
2YM	1049	KAIRANGA	2.	Yes	Mast	53	Yes	Yes	20	40	20	37	175	34	12	Transmitter	PALMERSTON NTH	Yes
2ZD	846	WAIKAWA	2.	Yes	Mast	55	Yes	Yes	137	40	58	00	175	35	00	Transmitter	HASTERTON	Yes
2YA	567	TIHAIHAI DAY	100.	Yes	Mast	220	No	Yes	67	41	05	47	174	50	33	Transmitter	WELLINGTON	Yes
2YC	657	TIHAIHAI DAY	60.	Yes	Mast	220	No	Yes	67	41	05	47	174	50	33	Transmitter	WELLINGTON	Yes
2YH	783	TIHAIHAI DAY	20.	Yes	Mast	122	No	Yes	66	41	05	41	174	50	58	Transmitter	WELLINGTON	Yes
2ZB	1035	TIHAIHAI DAY	20.	Yes	Mast	122	No	Yes	66	41	05	41	174	50	58	Transmitter	WELLINGTON	Yes
2ZM	1161	MT VICTORIA	2.	Yes	Tower	47	Yes	Yes	195	41	17	47	174	47	42	Transmitter	WELLINGTON	Yes
2ZN	1341	STOKE	2.	No	Mast	53	Yes	Yes	12	41	19	49	173	12	50	Studio	NELSON	Yes
2VX	1116	STOKE	2.	No	Mast	53	Yes	Yes	12	41	19	49	173	12	50	Transmitter	NELSON	Yes
2ZL	1519 S	BLENHEIM	1.	Yes	Tower	41	No	No	9	41	31	03	173	57	33		BLENHEIM	Yes
2ZF	1519 S	PICTON	0.1	No	Tower	41	No	No	7	41	17	15	174	00	53	Transmitter	22N REPEATER	Yes
2ZT	1269	TAKAKA	0.4	No	Mast	45	No	No	3	40	50	10	172	50	20	Transmitter	22N REPEATER	Yes
3YA	675	CEBBIES PASS	20.	Yes	Tower	91	No	No	223	43	41	39	172	38	37	Transmitter	CHRISTCHURCH	Yes
3YC	963	CEBBIES PASS	10.	Yes	Mast	122	No	Yes	193	43	41	46	172	38	47	Transmitter	CHRISTCHURCH	Yes
3ZB	1098	KURUHIA	5.	Yes	Mast	137	No	Yes	2	43	26	48	172	40	09	Transmitter	CHRISTCHURCH	Yes
3ZM	1323	WILSMILL	2.	No	Tower	31	Yes	Yes	23	43	33	38	172	34	48	Transmitter	CHRISTCHURCH	Yes
3ZL	873	MALSHMORE	1.	Yes	Mast	90	No	Yes	162	43	48	08	171	42	18	Transmitter	ASHBURTON	Yes
3YZ	918	KUMARA	10.	Yes	Mast	153	No	Yes	32	42	34	29	171	08	32	Transmitter	GREYMOUTH	Yes
3ZA	747	KUMARA	2.	Yes	Mast	153	No	Yes	32	42	34	29	171	08	32	Transmitter	GREYMOUTH	Yes
3ZK	1521	REEFTON	0.1	Yes	Tower	61	No	No	488	42	07	20	171	51	30		3YZ/3ZA RPT	Yes
3YU	1458	CAPE FOULWIND	0.4	Yes	Tower	41	No	No	50	41	46	06	171	27	56	Transmitter	3YZ RPT	Yes
3ZU	1257	CAPE FOULWIND	2.	Yes	Tower	41	No	No	50	41	46	06	171	27	56	Transmitter	3ZA RPT	Yes
3ZC	1152	FAIRVIEW	5.	Yes	Mast	90	No	Yes	128	44	24	13	171	05	22	Transmitter	TIMARU	Yes
3ZD	1485	WIZEL	0.1	No	Mast	28	No	No	470	44	14	55	170	05	27		3ZC REPEATER	Yes
4YA	810	HIGHCLIFF	20.	Yes	Mast	153	Yes	Yes	343	45	53	13	170	35	40	Transmitter	DUNEDIN	Yes
4YC	900	HIGHCLIFF	10.	Yes	Mast	153	Yes	Yes	343	45	53	13	170	35	40	Transmitter	DUNEDIN	Yes
4YB	1044	HIGHCLIFF	10.	Yes	Mast	122	No	No	278	45	53	04	170	35	11	Transmitter	DUNEDIN	Yes
4YQ	1134	QUEENSTOWN	2.	Yes	Tower	41	No	No	112	45	02	45	168	41	42	Transmitter	4YA/4ZB RPT	Yes
4YU	639	ALEXANDRA	2.	Yes	Tower	107	No	Yes	308	45	09	52	169	23	34	Transmitter	4YA/4ZB RPT	Yes
4ZU	1395	WESTON	2.	Yes	Mast	55	No	No	85	45	04	21	170	55	43	Transmitter	GAMARU	No
4YZ	720	DACRE	20.	Yes	Mast	98	No	Yes	61	46	19	13	168	37	16	Transmitter	INVERCARGILL	Yes
4ZA	854	DACRE	10.	Yes	Mast	98	No	Yes	61	46	19	13	168	37	16	Transmitter	INVERCARGILL	Yes
4ZF	612	TE ANAU	0.4	Yes	Mast	55	No	Yes	246	45	29	52	167	42	31	Transmitter	4ZA REPEATER	Yes
4ZG	558	DACRE	5.	Yes	Mast	98	No	Yes	61	46	19	13	168	37	16	Transmitter	GORE	No

S - Denotes Synchronous Operation

NORMAL HOURS OF TRANSMISSION

All stations continuous except the following:
CONCERT PROGRAMME (YCB) 0600-2400

2YD (during Parliament): Tues-Thurs 1400-2400
Fri 0900-1300
2YB (Access Radio): Fri 1800-2200
Sat 0900-2200
Sun 0900-2200

New Zealand Private Broadcast Stations

Medium Wave

1XA	1476 kHz	5 kW	Radio Hauraki —Hauraki Enterprises Ltd., Box 1480, Auckland (Emergency standby power available at studio and transmitter.)
1XI	1332 kHz	5 kW	Radio 1 —Radio 1 Ltd., Private Bag, Auckland (Emergency standby power available at studio and transmitter.)
1XP	1593 kHz	5 kW	Radio Pacific —Radio Pacific Ltd., Ryan Place, Manakau. (Emergency standby power available at the transmitter only.)
1XW	954 kHz	2 kW	Radio Waikato —Independent Broadcasting Co. Ltd., Box 9540 Hamilton.
1XX	1242 kHz	2 kW	Radio Whakatane —Radio Bay of Plenty Ltd., Box 383 Whakatane. Murupara—Synchronous Relay—100 W.
2XG	1503 kHz	2 kW	Radio Rhema —(see 3XG).
2XL	801 kHz	2 kW	Radio Rhema —(see 3XG).
2XS	828 kHz	2 kW	Regional Radio —Manawatu Radio Co. Ltd., P.O. Box 446, Palmerston North. (Standby power at studio and transmitter.)
2XW	891 kHz	5 kW	Windy Music —Capital City Radio Ltd., Box 558, Wellington. (Emergency standby power available at studio, normal and standby transmitters.)
3XA	1260 kHz	2 kW	Radio Avon —Radio Avon Ltd., Box 1260, Christchurch. (Emergency standby power available at both studio and transmitter.)
3XG	1503 kHz	2 kW	Radio Rhema —Radio Rhema Incorporated, P.O. Box 21, Christchurch. Synchronous Repeater, 2XG Wellington, 2 kW. P.O. Box 572, Wellington.
4XA	531 kHz	2 kW	Radio Otago Central —Alexandra, C/- Radio Otago Ltd., Box 1210, Dunedin. (Emergency standby power available.) Synchronous Relay Stations on 1359 kHz: Queenstown, 1 kW; Wanaka, 100 W.
4XD	1305 kHz	250 W	Dunedin Radio —Otago Radio Association Inc., Box 404, 180 Rattray St., Dunedin.
4XF	1224 kHz	2kW	Foveaux Radio —Foveaux Radio Ltd., Private Bag, Invercargill. (Emergency standby power available at both studio and transmitter.)
4XO	1206 kHz	2 kW	Radio Otago Dunedin —Otago Radio Dunedin, Box 1210, Dunedin. (Emergency standby power available at both studio and transmitter.)

New Zealand Private Broadcast Stations

FM Broadcasting Stations

Broadcasting Corporation of New Zealand

1YW-FM	91.4 MHz	Waikato	Concert Programme
2YZ-FM	91.4 MHz	Hawkes Bay	Concert Programme

Private FM Stations

KCC	—	—	KCC-FM—Northland FM Radio Club, P.O. Box 100, Whangarei.
MJK	91 MHz	1×10 kW 1×2.5 kW (ERP=50 kW)	Magic FM—Metropolitan FM Ltd, P.O. Box 33-644, Auckland.
ROQ	89.4 MHz	2×10 kW 10 kW 50 kW ERP (ERP=50 kW)	Stereo 89—Stereo FM Ltd, P.O. Box 5089, Auckland.
IJJJ	89.8 MHz	50 kW ERP	898 FM—Independent Broadcasting Co. Ltd, P.O. Box 9640, Hamilton.
93FM	92.7 MHz	3 kW ERP	Radio Hawkes Bay—P.O. Box 193, Hastings.

Short-Term Warrant Broadcast Stations

ISTU	91.8 MHz	—	Campus Radio—University of Auckland, Private Bag, Auckland.
IXC	1440 kHz	—	Radio Contact—University of Waikato.
—	89.0 MHz	—	Radio Active—Victoria University, Wellington.
—	1442 kHz	—	Radio U—University of Canterbury, Private Bag, Christchurch.
4SAO	91 MHz	—	Radio One—University of Otago.

Australian Television Channels

Channel	Vision Carrier Frequency	Frequency Limits MHz
0	46.25	45–52
1	57.25	56–63
2	64.25	63–70
3	86.25	85–92
4	95.25	94–101
5	102.25	101–108
5A	138.25	137–144
6	175.25	174–181
7	182.25	181–188
8	189.25	188–195
9	196.25	195–202
10	209.25	208–215
11	216.25	215–222

New Zealand Television Channels

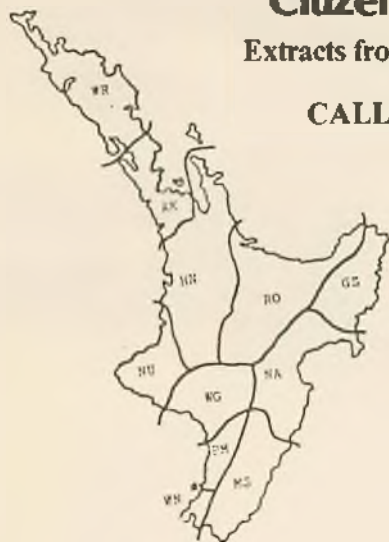
Channel	Frequency Bandwidth MHz	Video Frequency MHz	Sound Frequency MHz
1	44–51	45.25	50.75
2	54–61	55.25	60.75
3	61–68	62.25	67.75
4	174–181	175.25	180.75
5	181–188	182.25	187.75
6	188–195	189.25	194.75
7	195–202	196.25	201.75
8	202–209	203.25	208.75
9	209–216	210.25	215.75
10	216–223	217.25	222.75

General Information:
TV Receivers, Sound IF, 33.4 MHz.
Video 38.9 MHz.

Citizen Radio Service

Extracts from NZPO Pamphlet RT3

CALLSIGN DISTRICTS



Regulations

1. Regulations governing the licensing and operation of citizen radio stations in New Zealand are contained in the Radio Regulations 1970, Part VI, and amendments.

Licensing

2. A licence is issued in respect of each citizen radio set and this remains in force so long as the annual fee is paid by the due date or until the licence is withdrawn or revoked. A renewal account is rendered annually for each licence. This is payable at the commencement of the licensing year and if the fee remains unpaid for six weeks from the due date the licence is no longer deemed to be valid. The licensee shall not be eligible for any compensation or consideration in the event that a licence is revoked or suspended for any reason.

Citizen radio sets will be licensed only for communication within New Zealand. They may be operated as hand-held walkie-talkies, mobiles (in vehicles), or base stations and used for any legitimate purposes within the scope of the service. **Communication with stations outside New Zealand is not permitted.** Operation of Citizen equipment from aircraft is not permitted under the International Radio Regulations.

Equipment Specifications

3. Only equipment that has been type-approved by the New Zealand Post Office may be used for citizen radio stations. Sets so approved will bear a type-approval number which will be shown on the licence. Applicants must submit the equipment to the Post Office at time of licensing. This action is necessary to ensure that the equipment meets certain constructional requirements and will operate in such a manner that no interference will be caused to other services.

For the information of manufacturers and importers of equipment to be used at citizen stations a detailed specification (RTA23) outlining the conditions under which type-approval may be obtained is available from Post Office

Headquarters, Wellington, or from Post Office District Engineers' Offices.

Class of Emission

4. Only voice telephony of type A3 (double sideband with carrier) may be used.

Frequency Usage

6. Eleven channels have been allocated in New Zealand for "general use" by licensed citizen stations as follows:

Channel 1—26.425 MHz	Channel 6—26.550 MHz
2—26.450 MHz	7—26.575 MHz
3—26.475 MHz	8—26.600 MHz
4—26.500 MHz*	9—26.625 MHz
5—26.525 MHz	10—26.650 MHz
	11—26.675 MHz

*Designated for calling only.

For Government Departments, public bodies, and approved operators† only, the following channels are designated:

12—26.700 MHz	14—26.750 MHz
13—26.725 MHz	

†The term "approved operators" is intended to provide for users such as construction firms, crane operators, farmers and the like, who use citizen stations for purely business communication purposes. It should be recognised that only business communications can be carried out on channels 12-14 and that if social working is also required it would be necessary for this to be carried out on the 11 general channels.

Power

8. The maximum unmodulated power that may be used by citizen stations is 2 Watts output. This is considered to be adequate to satisfy the short-range communication requirements for which the service is intended. In addition, it permits a high degree of channel sharing with a minimum of

interference between stations. This power limitation applies whether the equipment is used as a base or mobile station and whether it is operated from mains supply or batteries.

Antenna

9. The antenna shall preferably be an integral part of the equipment and may be any omnidirectional, vertically polarised antenna with a gain not exceeding that of a half-wave dipole. If separately mounted, a non-radiating line of coaxial type must be used. No other form of antenna shall be permitted. **Directional beam aerials (e.g. Yagis) are not permitted.**

Modification of Equipment

10. In the event that changes are made in the basic electrical or mechanical design of type-approved equipment fresh type-approval is necessary and an additional fee must be paid.

If the fitting of additional channels is undertaken the equipment must be submitted to the nearest Radio Inspection Branch for re-inspection. No fee is involved. In such

cases the additional crystals and sockets must be enclosed within the equipment case and switching of channels is the only permissible method of frequency changing. The modifications must be made in a professional manner.

The modification of component values or other alterations to circuitry, including the use of microphones other than that with which the equipment was type-approved, is strictly prohibited.

Ancillary equipment such as amplifiers are not permitted to be used in conjunction with a citizen station.

Operating Procedures

11. A callsign will be allocated by the Post Office for each set licensed. The callsign allocated to a station consists of the district prefix followed by a number and only this callsign may be used by that station.

In calling other stations the callsign of the station being called should be transmitted first followed by the word "from" and the callsign of the station transmitting, thus:

AK 500 from AK 510
WN 870 from WN 121

Standard Frequency Transmissions

by L. SPACKMAN, ZL1AC

WWV & WWVH

The National Bureau of Standards broadcasts standard time and frequency transmissions continuously through stations WWV and WWVH.

Station WWV is located at Fort Collins, Colorado. Station WWVH is located at Kauai, Hawaii. Both stations broadcast on the radio frequencies of 2.5, 5, 10, 15 MHz and 20 MHz.

Both stations are controlled by caesium atomic oscillators. The frequencies are stable to better than one part in 10^{11} at all times, compared with the primary atomic standards maintained at the NBS Boulder laboratories. Changes in the propagation medium cause frequency changes which are several orders greater than the uncertainties described above.

STANDARD TIME SIGNALS

Seconds pulses are transmitted continuously, even during tones and announcements, and are derived from the same oscillator which generates the carrier frequency. Each minute, except the first of the hour begins with an 800 millisecond tone of 1000 Hz at WWV and 1200 Hz at WWVH. The first minute of the hour begins with an 800 millisecond tone of 1500 Hz from both stations.

All time announcements are referred to in terms of Co-ordinated Universal Time, UT. More precisely, the actual reference time scale is the Co-ordinated Universal Time Scale as maintained by the NBS.

The 0 to 24 hours system is used starting with 0000 at longitude zero. The first two figures give the hour and the last two figures give the minutes past the hour when the tone returns. The time announcement refers to the end of an announcement interval, i.e., to the time when the 0.8 second long audio tone begins.

At WWV a male voice announcement of Co-ordinated Universal Time is given during the last 7.5 seconds of each minute. At 10.35 UT for instance, the voice announcement, given in English is: "At the tone, ten hours thirty-five minutes Co-Ordinated Universal Time".

At WWVH a female voice announcement of UT is given during the period 45 seconds to 52.5 seconds after the minute. It should be noted that the voice announcement of WWVH precedes that of WWV by 7.5 seconds. However, the tone markers referred to in both announcements occur simultaneously, although they may not be so received due to propagation effects. The use of a female voice at WWVH and a male voice at WWV assists in distinguishing the two stations.

UNIVERSAL TIME CORRECTIONS

With the use as from the beginning of 1972 of the atomic time scale as the International time scale and because the rate of rotation of the earth is not constant, differences between mean solar time (UT1) and atomic time will accrue which in time could become inconvenient. It is therefore necessary to make periodic adjustments to the atomic scale so that it roughly approximates UT1. Therefore, instead of frequent small corrections, as in the past, large corrections of one full second will be made at infrequent intervals, which are not expected to average more than one a year and will usually be made on the last day of either June or December.

During 1984 an adjustment was made on June 30 so that the atomic time scale leads UT1 by 23 seconds. The atomic time scale will thus, at all times, be within a second of mean solar time. These corrections will be encoded and broadcast once every minute from both stations.

The method of coding UT1 corrections uses a system of double second pulses. The first through the seventh second pulse, when marked by a double pulse, will indicate a "plus" correction, and from the ninth through the fifteenth a "minus" correction. The eighth second pulse is not used. The amount of correction is determined by counting the number of second pulses which are doubled. For example, if the first, second and third second pulses are doubled the UT1 correction is 0.3 seconds. Or if the ninth, tenth, eleventh, twelfth, thirteenth and fourteenth second pulses are doubled, the UT1 correction is "minus" 0.6 seconds. The UT1 correction is also encoded in the IRIG-H BCD code.

STANDARD AUDIO FREQUENCIES

Standard audio frequencies of 440 Hz, 500 Hz and 600 Hz are broadcast by the two stations. The duration of each transmitted tone is approximately 45 seconds. A 600 Hz tone is broadcast by WWV during odd minutes and during even minutes by WWVH. A 500 Hz tone is broadcast during alternate periods unless voice announcements or silent periods are scheduled. The 440 Hz tone is broadcast beginning one minute after the hour at WWVH and two minutes after the hour at WWV. The 440 Hz tone is omitted during the first hour of the UTC day to act as a day marker.

No audio tones or special announcements are broadcast during a semi-silent period from either station. The periods are from 45 to 50 minutes after the hour from WWV and from 15 minutes to 20 minutes after the hour at WWVH.

The 29th and 59th seconds are omitted in each minute. Each pulse is preceded by 10 milliseconds of silence and followed by 25 milliseconds of silence.

PROPAGATION AND GEOPHYSICAL FORECASTS

A broadcast of radio propagation conditions and solar activity is broadcast in voice during part of every eighteenth minute of each hour from WWV. The announcements are short term forecasts, updated as required, every six hours if needed. Those operators particularly interested should consult *QST*, January 1975, page 84, for specific details.

Omega navigation system status reports are broadcast in voice from WWV at 16 minutes after the hour and from WWVH at 47 minutes after the hour. The International Omega Navigation System is a very low frequency radio navigation aid operating in the 10 to 14 kHz frequency band. Eight stations are in operation around the world. Omega, like other radio navigation systems, is subject to signal degradation caused by ionospheric disturbances at high latitudes. The Omega announcements are given to provide users with immediate notification of such events.

ANTENNAS AND MODULATION

The broadcasts on 5, 10 and 15 MHz from WWVH are from phased vertical half wave arrays. They are designed and orientated to radiate a cardioid pattern directing maximum gain in a westerly direction. The 2.5 MHz antenna at WWVH and all antennas at WWV are half wave vertical dipoles which radiate omnidirectional patterns.

At WWV and WWVH, double sideband amplitude modulation is employed with 50 per cent modulation on the steady tones, 25 per cent for the IRIG-H code, 100 per cent for seconds pulses and 75 per cent for voice.

VNG

The Australian Post Office experimental Standard Frequency and Time Station VNG, Lyndhurst, Victoria, is controlled by an atomic source and the accuracy is comparable with standard frequency stations in other parts of the world. As far as New Zealand is concerned it has the advantage of a shorter transmission path. The frequencies used are 4.5, 7.5 and 12 MHz.

The time signals comprise 50 millisecond and 5 millisecond bursts of 1000 Hz at one second intervals. The minutes are identified by substituting the 5 millisecond pulses for the 50 millisecond bursts towards the end of each minute and omitting the 59th second pulse. During minutes five, ten and each succeeding five minutes, nine short 5 millisecond pulses are transmitted at the end of each minute. During all other minutes only four short 5 millisecond pulses are transmitted. Announcements in voice are made during minutes 14, 29, 44 and 59.

Differences between atomic (UTC) time and mean solar time are encoded and broadcast every minute. The system used is the same as that used by WWV/WWVH.

The 4.5 MHz transmission is from 0945 to 2130 hours UT. The 7.5 MHz transmission is continuous except for a silent period from 2230 to 2245 hours UT. The 12 MHz transmission is from 2145 to 0930 hours UT.

ZLF

Station ZLF, operated by the frequency standard section of the Physics and Engineering Laboratory, DSIR, Private Bag, Lower Hutt, New Zealand, transmits on a frequency of 2.5 MHz every Wednesday afternoon (excepting Public Holidays) from 1300 to 1600 hours NZST. The transmission comprises an unmodulated carrier, the call sign being given at the beginning and end of the transmission. The carrier is derived directly from the New Zealand frequency standard which uses three caesium beam oscillators. The frequency is correct to within one part in 10^{11} and is thus comparable to WWV and WWVH. This is the most accurate standard frequency transmission available in New Zealand.

Where Can I Find It?

Break-In references of importance to all radio amateurs

NZART Policies

- Code of Practice for BCI/TVI cases: October 1981, pages 37 to 44.
- Content of ATV transmission: May 1984, page 19.
- NZART Current Policy: August 1982 pages 25 to 29, plus update October 1983, page 2.
- Pirate operators and improperly licensed stations: August 1983, page 3.
- Policy on Amateur Bands: November 1983, page 2.
- Policy on Citizens Band: April 1982, page 3.
- Policy on Radio Interference: August 1982, page 29.
- Repeater and Beacon Policy: August 1981, pages 31 to 38, plus update August 1982, page 31.
- Rules for AREC: November 1981, pages 30 and 31.
- Technical Standards for FM Repeaters: August 1982, page 31.

NZPO Letters

- Amateurs responsible for own bandplanning: July 1983, page 2.
- AREC Exercises: January/February 1984, page 3.
- Callsigns held for two years: July 1980, page 255.
- Club Stations—callsigns and operator grades: September 1979, page 358.
- Conduct of Morse Practice Sessions: April 1982, page 2.
- Examination Marking procedures: October 1981, page 4.
- Examination Room procedure: June 1981, page 2.
- Mainland Call Suffix transportable to ZL7, 8, 9: October 1983, page 2.
- Malicious Interference: November 1981, page 2.
- Members of immediate family may speak but not operate: August 1980, page 310.
- Transmitting equipment—control of sales: July 1980, page 255.
- Use of callsign suffixes /P /M and /MM: August 1984, page 4.
- Use of Tape Recorders on-air: January 1981, page 76.
- Use of "ZM" prefix: November 1983, page 2.
- Use of 5-letter groups for Morse Training: April 1982, page 2.
- "ZL" not to be omitted from callsigns: May 1958, page 3.
- "ZL0" callsigns for visitors: December 1980, page 551.

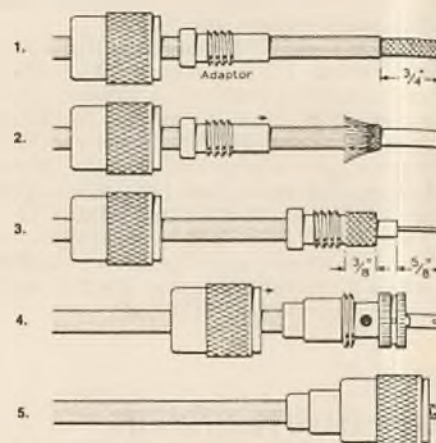
Miscellaneous

- Amateur Bands and their use at time of natural disaster—Resolution 640: August 1983, page 21.
- AREC and NZART membership: August 1984, page 33.
- Civil Defence and the Radio Amateur—CD Bandplan: December 1981, pages 18 to 21.
- Freedom of Speech: September 1984, page 18.
- LOCATOR System: August 1984, page 14.
- NZART Badge background: November 1982, page 24.
- Radio Amateurs—assistance to Police: December 1982, page 34.
- Spectrum piracy: November 1983, page 14.
- Towers and Townplanning: December 1982, page 36 and March 1983, page 21.

Coaxial plug assembly

UHF type (clamped screen) — PL259

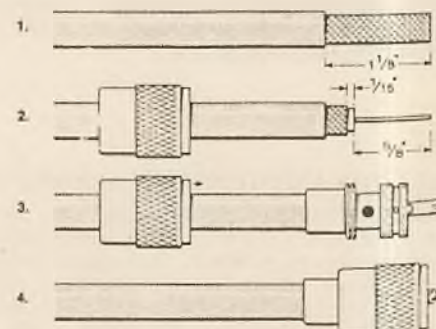
1. Cut end of cable even. Remove vinyl jacket $\frac{1}{2}$ in. Slide coupling ring and adaptor on cable.
2. Fan braid slightly and fold back as shown.
3. Position adaptor to dimension shown. Press braid down over body of adaptor and trim to $\frac{1}{8}$ in. Bare $\frac{1}{8}$ in. of conductor. Tin exposed centre conductor.
4. Screw plug sub-assembly on adaptor. Solder braid to shell through solder holes. Use enough heat to create bond of braid to shell. Solder conductor to contact.
5. For final assembly, screw coupling ring on plug sub-assembly.



UHF type (clamped screen)

UHF type (soldered screen) — PL259

1. Cut end of cable even. Remove vinyl jacket $\frac{1}{2}$ in.
2. Bare $\frac{1}{8}$ in. of centre conductor. Trim braided shield. Slide coupling ring on cable. Tin exposed conductor and braid.
3. Screw the plug sub-assembly on cable. Solder assembly to braid through solder holes. Use enough heat to create bond of braid to shell. Solder centre conductor to contact.
4. For final assembly, screw coupling ring on plug sub-assembly.



UHF type (soldered screen)

RSGB VHF/UHF Manual

Characteristics of Coaxial Cables available in New Zealand

by REX CASEY, ZL2IQ

Racal Coaxial Cables

Type	R.106	RG59B/U	R.206	R.205	R.104	R.108	R.203	R.101	R.201
Jacket OD	10.28	6.20	5.38	5.20	5.10	5.10	5.10	4.04	3.98
Shield OD	8.04	4.30	3.84	4.16	3.54	3.54	3.84	2.76	3.14
Dielectric OD	7.24	3.70	3.56E	3.56E	2.94	2.94	3.24E	2.16	2.54E
Centre Conductor	7/0.75	1/0.60	7/0.25	1/0.45	1/0.80	14/0.2	7/0.25	7/0.20	7/0.20
Capacitance (pF/m)	98	67	56	33	95	95	52	95	95
Velocity Factor	0.66	0.66	0.78	0.78	0.66	0.66	0.78	0.66	0.78
Characteristic Impedance	50	75	75	120	52	50	75	55	75
Attenuation in dB 100 m:									
1 MHz	—	—	—	3.60	—	—	—	—	—
10 MHz	2.00	—	3.60	8.90	4.30	—	3.60	6.60	4.90
50 MHz	4.40	—	8.50	—	9.50	—	6.60	16.40	11.20
100 MHz	6.70	11.50	11.80	—	14.10	—	11.50	23.60	15.70
200 MHz	9.80	16.50	17.40	—	21.30	29.50	17.40	33.50	23.60
500 MHz	—	27.00	—	—	—	—	—	—	—

AWA Coaxial Cables

Type	RG8U	URM67	RG11U	URM57	RG59U	URM70	RG58U	URM43	RG58A/U	URM76	ASC2002	304SP
Jacket OD	10.3	10.3	10.3	10.3	6.2	5.8	5.0	5.0	5.0	5.0	5.1	3.9
Shield OD	8.1	8.1	8.1	8.1	5.0	3.9	3.6T	3.6	3.6T	3.6T	3.7	2.5
Dielectric OD	7.2	7.2	7.2	7.2	3.7	3.2	3.0	3.0	3.0	3.0	3.2E	1.9
Centre Conductor	7/0.725	7/0.77	7/0.405	1/1.15	1/0.634	7/0.17	1/0.813	1/0.9	19/0.18	7/0.32	7/0.25	7/0.20
Capacitance (pF/m)	97	99	67	68	70	69	94	95	98	95	56	95
Kilovolts Peak	7	4.8	7	5	3.25	1.8	2.8	2.75	2.8	1.8	—	—
Velocity Factor	0.659	0.666	0.659	0.666	0.659	0.669	0.659	0.674	0.659	0.674	—	—
Characteristic Impedance	52	50	75	75	73	75	53.5	50	50	50	75	50
Attenuation in dB 100 m:												
10 MHz	1.8	2.2	2.15	1.9	3.6	4.7	4.1	6.4	4.7	5.4	—	—
100 MHz	6.2	7.4	7.5	6.2	11.2	15.2	15.0	14.4	16.0	17.0	12.0	—
200 MHz	8.8	10.8	10.8	10.0	16.0	24.0	22.5	20.7	24.2	34.0	17.0	—
Power Rating (in Watts):												
10 MHz	685	1800	490	1800	270	470	200	460	190	440	—	—
100 MHz	3500	540	3500	570	1200	148	1000	350	1000	140	—	—
200 MHz	975	360	975	385	380	102	300	235	290	95	—	—

Note: The manufacturers in 1974 quoted the Velocity Factor of ASC2002 as 0.764–0.896. Measurements made by the author give a figure of 0.80.

Conversion Factors (Metric-Imperial)

1 millimetre (mm)	= 0.039 inch
1 centimetre (cm) = 10 mm	= 0.3937 inch
1 metre (m) = 100 cm	= 39.37 inches, 3.28 feet, 1.094 yards
1 kilometre (km) = 1000 m	= 3280.8 feet, 1094 yards, 0.621 miles
1 gram = 1000 mg	= 0.035 ounces (average)
1 kilogram (kg) = 1000 g	= 2.2046 pounds
1 tonne = 1000 kg	= 0.98 ton, 2204.6 pounds
1 cubic centimetre (cm ³) = 1000 mm ³	= 0.6102 cubic inches
1 cubic metre (m ³)	= 35.3 cubic feet, 1.3 cubic yards
1 litre (l)	= 0.220 imperial gallons, 0.264 US gallons
1 kilopascal	= 0.145 lbs/sq.inch, 0.009867 atmospheres
1 kilojoule	= 0.948 BTU, 0.239 kilocalories, 737.56 ft./lb
1 kilowatt	= 0.134 horsepower, 73.7 ft.lb/s
1 Newton	= 0.2248 lb force
1 Tesla	= 10 000 gauss
1 Weber	= 10 ⁸ maxwell

Transmission Line Characteristic Impedance

Single wire	$Z_0 = 138 \log(4D/d)$ d = diameter of wire D = distance above earth	Four wire	$Z_0 = 138 \log(1.41D/d)$ D = distance between adjacent wires
Two wire	$Z_0 = 276 \log(2D/d)$ D = distance between wires	Coaxial	$Z_0 = 138 \log(D/d)$ d = diameter of inner D = diameter of outer

Properties of Insulating Materials

Property	Material						
	Nylon	Polystyrene	Glass	Perspex	PVC	Teflon	Rubber
Minimum dielectric strength kV/mm	10	20	12	9	16	16	12
Relative permittivity	3-7	2.4-3	4.5-10	2.2-3.2	3.1	2.0	3.2
Volume resistivity	10 ¹⁰ -10 ¹³	10 ¹⁰ -10 ¹⁶	10 ¹⁰	10 ¹⁴	10 ¹³	10 ¹⁵	10 ¹⁴
Dissipation factor at 1 MHz	0.02-0.13	<0.001	0.001-0.01	0.02-0.03	<0.01	<0.0003	0.28

Useful Formulae

- Wavelength (in metres)
Free space = $300/f$ (MHz)
Half-wave wire dipole = $143/f$ (MHz)
- Resonant frequency of an LC circuit
 $f = 0.159155/\sqrt{LC}$
- The quality factor or Q of a circuit at resonance is
 $Q = 2\pi f L/r$
- The 3 dB bandwidth of such a single tuned circuit
 $B = f(\text{res})/Q$
- Estimate of transformer rating
Output = $31 A^2$ watts
where A = core cross-section in sq.ins.
or Output = $4.8 A^2$ watts if A is in sq.cm.

DC Resistance of Conducting Materials Relative to Copper

Material	Resistance Ratio
Aluminium	1.6
Brass	3.8
Cadmium	4.1
Chromium	12
Gold	1.4
Iron	5.9
Lead	12
Nichrome	63
Nickel	4.1
Phosphor Bronze	6.7
Platinum	6.4
Silver	0.97
Stainless Steel	43
Tin	6.6
Zinc	3.6

Commonly used Symbols and Abbreviations

A	ampere	ct	centre tap	GHz	gigahertz
AC	alternating current	CTCSS	continuous tone coded squelch system	gnd	ground
A/D	analogue-to-digital	CW	continuous wave (code); clockwise	H	henry
AF	audio frequency	D/A	digital-to-analogue	HAAT	height above mean terrain
afc	automatic frequency control	dB	decibel	HF	high frequency (3-30 MHz)
afsk	audio frequency shift keying	dBd	antenna gain referenced to a dipole	HFO	heterodyne-frequency oscillator
age	automatic gain control	DBDM	double-balance diode mixer	hpf	highest possible frequency; high pass filter
Ah	ampere hour	dBi	antenna gain referenced to an isotropic, a dipole has a gain of 2.14 dBi	HT	high tension
alc	automatic load (or level) control	dBm	decibel referred to 1 milliwatt	Hz	hertz
AM	amplitude modulation	dBW	decibel referred to 1 watt	I	current
a.m.	morning	DC	direct current	IARU	International Amateur Radio Union
AMSAT	Radio Amateur Satellite Corporation	det	detector	IC	integrated circuit
AMFOR	Amateur Teleprinting Over Radio	DF	direction finder; direction finding	i-d	identification; identifier
anl	automatic noise limiter	DIP	dual-in-line package, 14 to 16 pins	ID	inside diameter
ant	antenna	dprt	double-pole double-throw	IF	intermediate frequency
AOS	acquisition of signal	dps	double-pole single throw	IMD	inter-modulation distortion
ARA	Amateur Radio Association	dsh	double sideband	I/O	input/output
ARC	Amateur Radio Club	DTL	diode-transistor logic	IRC	international reply coupon
AREC	Amateur Radio Emergency Corps	DTMF	dual tone multi-frequency	ISB	independent sideband
ARS	Amateur Radio Society; Amateur Radio Station	DVM	digital voltmeter	ITU	International Telecommunication Union
ASCII	American National Standard Code for Information Interchange	DX	long distance	IW	Intruder Watch
ATV	amateur television	DXCC	DX Century Club	j	indicator for reactive component of an impedance (+j inductive; -j capacitive); joule
avc	automatic volume control	E	voltage	JFET	junction field-effect transistor
AWG	American wire gauge	ECL	emitter-coupled logic	k	kilo, 1000
az-el	azimuth-elevation	ECO	electron-coupled oscillator	K	kilobyte; Kelvin
BASIC	Beginner's All-purpose Symbolic Instruction Code (computer language)	EHF	extra high frequency (30-300 GHz)	kg	kilogram
b	byte; a group of bits or binary digits, usually eight.	EHT	extra high tension	kHz	kilohertz (10 ³)
bc	broadcast	erp	effective isotropic radiated power	km	kilometre
BCD	binary-coded-decimal	EMC	electro-magnetic capability	kV	kilovolt
BCL	broadcast interference	E-M-E	earth-moon-earth (moon-bounce)	kW	kilowatt
bcl	broadcast listener	emf	electromotive force (voltage)	kWh	kilowatt hour
bd	baud (bits/sec)	EMI	electro-magnetic interference	L	inductance
ber	bit error rate	EMP	electromagnetic pulse	LC	inductance-capacitance
bit	binary digit	EPROM	erasable programmable read-only memory	LCD	liquid crystal display
BFO	beat-frequency oscillator	EUV	extreme ultraviolet radiation	LED	light-emitting diode
bpf	band pass filter	EQX	equator crossing	LF	low frequency (30-300 kHz)
bw	bandwidth	erp	effective radiated power	lhcp	left-hand circular polarisation
C	Celsius	f	frequency	LMO	linear master oscillator
CATV	cable television	F	farad; Fahrenheit	LO	local oscillator
CB	citizens band	FAX	facsimile	loran	long-range navigation
CCIR	International Radio Consultative Committee	FCC	Federal Communications Commission	LOS	loss of signal
CCIT	Consultative Committee for International Telegraph and Telephone (ITU)	FD	Field Day	lp	long periodic; long path
CCS	constant current source	FET	field-effect transistor	LSB	lower sideband; least significant bit
cctv	closed circuit television	FF	flip-flop	LSI	large-scale integration
cw	coherent CW; counter-clockwise	FM	frequency modulation	LT	low tension
CD	civil defence	FMT	frequency measuring test	luf	lowest usable frequency
Ch	channel	FMWG	Frequency Management Working Group	lw	longwave; long wire
cm	centimetre	foi	optimum working frequency	m	metre (distance or band); milli (10 ⁻³)
CMOS	(or COSMOS)—complementary-symmetry metal-oxide semiconductor	fsd	full scale deflection	M	mega (10 ⁶)
coax	coaxial cable or connector	FSK	frequency-shift keying	mA	milliampere (one-thousandth of an Amp)
COR	carrier-operated relay	g	gram	mAh	milliampere hour
CPU	central processing unit	G	giga (10 ⁹)	MARS	Military Affiliate Radio System
CQ	general call to all stations	GaAs FET	gallium arsenide field-effect transistor	MATV	multi-access television
CR1	cathode-ray tube	GDO	grid-dip or gate-dip oscillator	MF	medium frequency (300-3000 kHz)

mH	millihenry	PSK	phase-shift keying	TV	television
MHz	megahertz (10 ⁶)	PTO	permeability-tuned oscillator	TVI	television interference
mic	microphone	PTT	push-to-talk	Tx	transmitter
mini-DIP	dual-in-line package of 8 pins	PSU	power supply unit		
mi/h	miles per hour			UHF	ultra-high frequency (300-3000 MHz)
mi/s	miles per second	Q	figure of merit (tuned circuits)	UJT	uni-junction transistor
mix	mixer	QRP	low power (less than 10 watts input)	UoSAT	University of Surrey educational/research satellite (Great Britain)
mm	millimetre	QTHR	address correct in <i>Call Book</i>	USB	upper sideband
MO	master oscillator			UTC	Universal Co-ordination Time
MOS	metal oxide semiconductor			uV	ultra-violet light
mod	modulator	R	resistance		
modem	modulator/demodulator	RAM	random access memory	V	volt; voltage
MOX	manually operated switching	R/C	radio control	VCO	voltage-controlled oscillator
ms	millisecond	R-C	resistor-capacitor	VCR	video cassette recorder
m.s.	meteor scatter	rcvr	receiver	VCXO	voltage-controlled crystal oscillator
m/s	metres per second	rev/min	revolutions per minute	VFBO	variable-frequency beat oscillator
MSB	most significant bit	RF	radio frequency	VFO	variable frequency oscillator
MSI	medium-scale integration	RFC	radio-frequency choke	VHF	very-high frequency (30-300 kHz)
MSTV	medium-scan television	RFI	radio-frequency interference	VLF	very-low frequency (3-30 kHz)
MUF	maximum usable frequency	rhep	right-hand circular polarisation	VLSI	very large-scale integration
MUX	multiplex; multiplexer			VOM	volt-ohm-milliammeter
mV	millivolt	RI	Radio Inspector	VOX	voice-operated switching
mW	milliwatt	RIT	receiver incremental tuning	VR	voltage regulator
		RLC	resistor, inductance, capacitor network	VSWR	voltage standing-wave ratio
n	nano (10 ⁻⁹)			VTVM	vacuum-tube voltmeter
nbfm	narrow-band frequency modulation	rms	root-mean-square	VU	volume unit
nbvm	narrow-band voice modulation	RO	radio officer	VXO	variable crystal oscillator
n.c.	no connection	ROM	read-only memory		
NC	normally closed	rptr	repeater	W	watt
NF	noise figure	RS	Radiospot Satellite (USSR)	WAC	Worked All Continents
NiCad	nickel cadmium	RSGB	Radio Society of Great Britain	WARC	World Administrative Radio Conference
NL	noise limiter	RST	readability-strength-tone	WAS	Worked All States
NMOS	n-channel MOS	RI	Radiotelephone	wbfm	wide-band FM
NO	normally open	RTL	resistor-transistor logic	Wh	watt-hours
npn	negative-positive-negative	RTTY	radioteletype	wpm	words per minute
nS	nanosecond	Rx	receiver	ww	wire wound; wire wrap
NZART	New Zealand Association of Radio Transmitters			wx	weather
		S	second; Siemens	X	reactance
OD	outside diameter	SAE	self-addressed envelope	xcvr	transceiver
OM	old man	SASE	stamped SAE	XO	crystal oscillator
op amp	operational amplifier	SCR	silicon-controlled rectifier	xfmr	transformer
osc	oscillator	SHF	super-high frequency (3-30 GHz)	xmtr	transmitter
OSCAR	Orbiting Satellite Carrying Amateur Radio	SINAD	Ratio of Signal to Noise and Distorting	xtal	crystal
OTC	Old Timers' Club	SM	silver mica (capacitor)	XYL; YF	wife
oz	ounce	SNR; S/N	signal-to-noise ratio		
		spdt	single-pole double-throw	Z	impedance
p	pico (10 ⁻¹²)	spst	single-pole single-throw	Z	see UTC
P	power	SS	Sweepstakes; spread spectrum		
PA	power amplifier; public address system	SSB	single sideband	α	alpha; angles; common-base forward current-transfer ratio of a bipolar transistor
PAM	pulse amplitude modulation	SSC	AMSAT Phase III special service channels	β	beta; angles; current gain of common-emitter transistor amplifiers
PCB	printed or etched circuit board	SSI	small-scale integration	Δ	delta; increments
PCM	pulse code modulation	SSTV	slow-scan television	E	epsilon; base of natural logarithm 2.7183
PEP	peak envelope power	STSP	short-term special purpose (FM repeaters)	ζ	zeta; impedance
PEV	peak envelope voltage	SWL	shortwave listener	θ	theta; angles
pF	picofarad	SWR	standing-wave ratio	λ	lambda; wavelength; longitude
ph	phone	sync	synchronous; synchronising	μ	mu; micro (10 ⁻⁶); amplification factor; permeability
PIN	positive intrinsic negative	SYNCART	synchronous satellite carrying Amateur Radio transponder	π	pi, 3.14159
PIV	peak inverse voltage			Σ	sigma; summation; dielectric
pk	peak	TA	technical advisor	φ	phi; angles; latitude
pk-pk	peak to peak	TCA	time of closest approach	Ω	omega; resistance in ohms
PLL	phase-locked loop	TE	trans-equatorial (propagation)	ω	omega; angular velocity of 2πf
PM	phase modulation	tfc	traffic		
PMOS	p-channel MOS	THz	tetrahertz (10 ¹²)		
p.m.	afternoon night	THD	total harmonic distortion		
pn-p	positive-negative-positive	tpi	turns per inch		
ppi	plan position indicator (radar)	T-R	transmit-receive		
pot	potentiometer	TTL; T ₂ L	transistor-transistor logic		
PROM	programmable read-only memory	TTY	teletypewriter (from Teletype Corporation)		
PRV	peak reverse voltage				

Abbreviations for CW work

AA	After all	OB	Old boy
AB	All before	OC	Old chap
ABT	About	OG	Old girl
ADR, ADS	Address	OM	Old man
AGN	Again	OP, OPR	Operator
ANT	Antenna	OT	Old timer, old top
BCI	Broadcast interference	PBL	Preamble
BCI.	Broadcast listener	PSE, PLSE	Please
BK	Break; I wish to break-in (interrupt) a transmission in progress	PWR	Power
BN	All between; been	PX	Press
BUG	Semi-automatic key	R	Received as transmitted; are (sometimes also used as a decimal point, e.g. 1R5)
B4	Before	RCD, RCVD	Received
C	Yes	RCVR, RX	Receiver
CFM	Confirm; I confirm	REF	Refer to; referring to; reference
CK	Check	RFI	Radio frequency interference
CL	I am closing my station; call	RIG	Station equipment
CLD, CLG	Called; calling	RPT	Repeat; 1 repeat
CPI, CPY	Copy	RTT RTTY	Radioteletype
CQ	Calling any station	RX RCVR	Receiver
CS	Callsign	RPRT REPT	Report
CUAGN	See you again	SA	Say
CUL	See you later	SASE	Self-addressed, stamped envelope
CW	Continuous wave, i.e. radio telegraphy	SED	Said
DE	From	SIG	Signal
DLD, DLVD	Delivered	SINE	Operator's personal initials or nickname
DR	Dear	SKED	Schedule
DX	Distance, foreign countries	SR1	Sorry
ER	Here	SSB	Single sideband
ES	And; &	SUM	Some
FB	Fine business, excellent	SVC	Service
FER	For	T	Zero (0)
FM	Frequency modulation, from	TFC	Traffic
GA	Go ahead, continue sending, good afternoon	THO	Though
GB	Goodbye	THRU, THRO	Through
GBA	Give better address	TMW	Tomorrow
GE	Good evening	TNX, TKS	Thanks
GG	Going, grounded grid	TT	That
GM	Good morning	TU, TKU	Thank you
GN	Good night	TVI	Television interference
GND	Ground	TX	Transmitter
GUD	Good	TXT	Text
HI	Laughter, high	U	You
HPE	Hope	UR, URS	Your; you are; yours (sometimes YR or YRS)
HR	Here. Hear. Hour	VFO	Variable frequency oscillator
HV, HVE	Have	VY	Very
HW	How	WA	Word after
LID	A poor operator	WB	Word before
MA, MILS	Milliamperes	WD, WDS	Word; words
MNI	Many	WID	With
MSG	Message	WKD, WKG	Worked; working
N	No; or North	WL	Well; will
NCS	Net control station	WUD	Would
ND	Nothing doing	WX	Weather
NIL	Nothing. I have nothing for you	XCVR	Transceiver
NM	No more	XMTR, TX	Transmitter
NR	Number	XTAL	Crystal
NW	Now	XYL, YF	Wife
		YL	Young lady
		73	Best regards
		88	Love and kisses

Q-code

QRG	Will you tell me my exact frequency (or that of ...)? Your exact frequency (or that of ...) is ... kHz.	QSA	What is the strength of my signals (or those of ...)? The strength of your signals (or those of ...) is ... (1. Scarcely perceptible; 2. Weak; 3. Fairly good; 4. Good; 5. Very good.)
QRH	Does my frequency vary? Your frequency varies.	QSB	Are my signals fading? Your signals are fading.
QRI	How is the tone of my transmission? The tone of your transmission is ... (1. Good; 2. Variable; 3. Bad)	QSD	Are my signals mutilated? Your signals are mutilated.
QRK	What is the intelligibility of my signals (or those of ...)? The intelligibility of your signals (or those of ...) is ... (1. Bad; 2. Poor; 3. Fair; 4. Good; 5. Excellent)	QSK	Can you hear me between your signals and if so can I break in on your transmission? I can hear you between my signals; break in on my transmission.
QRI	Are you busy? I am busy (or I am busy with ...). Please do not interfere.	QSL	Can you acknowledge receipt? I am acknowledging receipt.
QRM	Is my transmission being interfered with? Your transmission is being interfered with ... (1. Nil; 2. Slightly; 3. Moderately; 4. Severely; 5. Extremely)	QSM	Shall I repeat the last message I sent you, or some previous message? Repeat the last message which you sent me [or message(s) number(s) ...].
QRN	Are you troubled by static? I am troubled by static ... (1-5 as under QRM)	QSN	Did you hear me (or ...) on ... kHz? I did hear you (or ...) on ... kHz.
QRO	Shall I increase power? Increase power.	QSO	Can you communicate with ... direct or by relay? I can communicate with ... direct (or by relay through ...).
QRP	Shall I decrease power? Decrease power.	QSP	Will you relay to ...? I will relay to ...
QRQ	Shall I send faster? Send faster (... wpm).	QST	General call preceding a message addressed to all amateurs and ARRL members.
QRS	Shall I send more slowly? Send more slowly (... wpm).	QSU	Shall I send or reply on this frequency (or on ... kHz)? Send or reply on this frequency (or on ... kHz).
QRT	Shall I stop sending? Stop sending.	QSV	Shall I send a series of Vs on this frequency (or ... kHz)? Send a series of Vs on this frequency (or ... kHz).
QRU	Have you anything for me? I have nothing for you.	QSW	Will you send on this frequency (or on ... kHz)? I am going to send on this frequency (or on ... kHz).
QRV	Are you ready? I am ready.	QSX	Will you listen to ... on ... kHz? I am listening to ... on ... kHz.
QRW	Shall I inform ... that you are calling him on ... kHz? Please inform ... that I am calling ... kHz.	QSY	Shall I change to transmission on another frequency? Change to transmission on another frequency (or on ... kHz).
QRX	When will you call me again? I will call you again at ... hours (on ... kHz).	QSZ	Shall I send each word or group more than once? Send each word or group twice (or ... times).
QRZ	Who is calling me? You are being called by ... (on ... kHz).	QTC	How many messages have you to send? I have ... messages for you (or for ...).
		QTH	What is your location? My location is ...
		QTR	What is the correct time? The time is ...

Serial Numbers Record

Transceiver HF _____

Transceiver VHF _____

Receivers _____

Transmitters _____

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As each new *Call Book* appears, we at SCE are happy to see the steady increase in the number of licensed Hams in New Zealand. As always we strongly recommend you join NZART, so that you may reap the maximum benefit from your Hobby.

As the sole New Zealand distributors of ICOM Communications Equipment, we are proud to be able to supply you with the most up-to-date and innovative gear available today. On the pages of *Break-In* each month, you will find details of the latest and greatest from ICOM, and many other SCE/ICOM lines as of May 1, 1985, with prices applying at that date.

TWO METRE GEAR

The IC-2A—Super compact 800 channel 2 Metre handheld, with simple thumb wheel frequency selection. Very well-known and popular. Complete with nicads and charger **\$478**

The IC-02A—The latest 2 Metre handheld, clear LCD read out, keyboard frequency entry, 10 memories, scanning, repeater reverse, water resistant construction, 3 watts out with standard BP3 supplied, 5-6 watts out with optional IC-BP7 and IC-BC16E charger and seven year lithium battery to hold memories complete **\$529**

The IC-02AT—As per IC-02A but with touch tone pad **\$598**

The IC-2A ACCESSORIES—The IC-HM9 speaker mic **\$49.50**, the IC-BC35 desk charger **\$149**, the IC-BP3 standard nicad **\$52**, the IC-BP5 higher power fast charge nicad (Needs the BC-35 charger) **\$98**, the IC-BP4—uses four pen cells—**\$20**, the IC-DC1 regulator **\$32** same size as BP3, allows direct operation off 11-15 volts DC and gives about four watts, the IC-CP1 cigarette lighter adapter **\$16.50**, the IC-LC3 leatherette case **\$17.90**, the IC-ML1 10-14 watt amplifier **\$198**, the IC-HS1 headset/boom microphone **\$49**, the IC-HS10B pus to talk unit for the HA10 **\$489**.

The IC-02A ACCESSORIES—Note: All of the above (except the IC-DC1) are also for use with the IC-02A. The IC-BP7 high power pack **\$119**, and the IC-BP8 high capacity standard power pack **\$114**, together with the IC-BC16E wall charger **\$32.50**, are for the 02A only, as is the IC-HS10SA VOX unit **\$58**.

The IC-27A—Ultra compact 2 metre FM mobile $1\frac{1}{2} \times 5\frac{1}{2} \times 7$ inches, 25 watts output, clear bright digital read out, 10 memories, scanning, repeater reverse, full duplex or simplex operation memories, 1 watt low power, seven year lithium battery to hold memories, built-in speaker, remote tuning/scanning microphone, voice synthesiser option. The best! **\$766**

The IC-27H—As per the IC-27A but puts out 50 watts and a little deeper to accommodate the larger heatsink. Great for long distance access when mobile or home base. **\$819**

The IC-290H—2 metre all-mode mobile rig, five memories with full duplex and simplex capability, scanning, repeater reverse, twin VFOs and many other features. The IC-290H is supplied with the IC-HM12 remote Tuning/scanning microphone and of course this makes mobile SSB operation a breeze. **\$998**

The IC-271H—Now all mode 2 metre rig, matching styling with the IC-471 and IC-751, 32 memories, scanning, built-in optional pre-amp, optional built-in AC power supply (\$329 or \$298 with set). This superb rig has all the goodies and provides 100 watts output. The very best for satellite and general 2 metre use—can't beat high power! **\$1889**

Receiving pre-amplifiers—The IC-AG20, built-in pre-amp for the 25 watt IC-271A **\$159**. The IC-AG25, external pre-amp for the 100 watt IC-271H **\$203**, the IC-AG35, external pre-amp for the 80 watt IC-471H **\$216**.

SIX METRE GEAR

The IC-505—6 metres over the shoulder portable rig with built-in batteries and antenna, gives 3-4 watts SSB, CW (and FM with option), but also gives 10 watts when run off a 12-14 volt system for mobile/home base use. **\$898**

The IC-551D—6 metre all-mode base transceiver with VOX and band pass tuning. All the goodies and a healthy 100 watts output **\$1584**

432 GEAR

The IC-471—New all-mode 432 MHz rig, matching styling with the IC-751 and the IC-271. 32 memories, scanning, built-in optional pre-amp, optional built-in AC power supply (\$329 or \$298 with set), a really nice piece of equipment, with a very useful 80 watts to contribute to your satellite operation, or other 432 MHz use—a great high power 432 rig **\$2084**

The IC-490A—All-mode 432 rig exactly as per the IC-290 except covers 430-440 MHz. Mobile or home base—10 watts **\$1243**

The IC-4A—430-440 MHz FM handheld. As per the IC-2A **\$549**

The IC-4AT—As per IC4A but with touch tone pad **\$618**

The IC-04A—As per the IC-02A but 430-440 MHz **\$559**

The IC-04AT—As per IC-04A but with touch tone **\$599**

1296 MHz GEAR

The IC-120—Another ICOM first! A complete 1296 MHz FM transceiver ready to go. Covers 1260-1300 MHz in 10 kHz or 20 kHz steps with 1 MHz up/down, six memory channels, 1 watt output transmit, receive sensitivity less than 0.5 μ V for 20 dB noise quieting, less than 0.3 μ V for 12 dB SINAD **\$848**

HF GEAR

The IC-730—The very best HF mobile or home base all solid state transceiver. This very compact rig comes complete with the ICOM "built-ins" such as twin VFOs, memory channel, speech processor, band pass tuning, a very hot and advanced receiver featuring a built-in switchable pre-amp for those weak DX stations, three-speed tuning down to a band spread of 1 kHz per 360 degrees of the tuning knob. Supplied complete with IC-HM10 remote tuning/scanning microphone for fantastic mobile convenience. All HF bands 80 (through 10 metres, 100 watts out on SSB and CW, but also has AM for those who require it **\$1698**

The IC-745—Brand new adaption of the popular IC-740, now includes full general coverage receive 100 kHz-30 MHz. It has the same band spread in the "Ham Band" mode, has the usual three-speed band spread down to 1 kHz per 180 degrees of tuning knob rotation, 100 watts out on SSB, CW, RTTY, FM, plus AM receive, speech compressor, notch filter, IF shift/PBT, scanning, all-mode squelch, built-in keyer option, and the very convenient built-in AC power supply option, at \$329 or \$298 if supplied with the IC-745. The IC-745 with desk microphone **\$1898**

The IC-751—ICOM'S TOP OF THE LINE HF RIG—The new standard of comparison, replacing the well-known IC-720A. The same matching styling as the new generation IC-271 and IC-471 rigs. Full general coverage receive 100 kHz-30 MHz, full Ham Band coverage, the usual convenient three-speed band spread, superb receive sensitivity, built-in pre-amp, 32 memories with seven year lithium battery, scanning 100 watts out on SSB, CW, RTTY, FM, and has an AM transmit and receive mode with PBT and notch filter, high performance speech processor, all mode squelch, adjustable AGC, and noise blanker, and last, but not least, the ICOM developed J-FET DBM gives the receiver a 105 dB dynamic range. Supplied complete with FM option, marker and desk microphone (PS25 built-in supply \$329 or \$298 with set) **\$2543**

HF Package Deals—The IC-730, IC-745 or IC-751 purchase together with the IC-PS20, IC-AT-100/IC-A500 fully automatic antenna tuners, or the IC-AH1 mobile whip will get you a \$50 discount.

Communications Receivers—The commercial grade IC-R71 covers all the HF Ham Bands with full band spread, and yet by selecting the general coverage mode, it covers 100 kHz to 30 MHz continuous. SSB, CW, AM, RTTY (and FM with the option). It also has a built-in pre-amp and superb sensitivity. 12 volt DC or 240 volt AC operation, 32 memory channels and even an infra-red remote tuning option. Ham price **\$1498**

ANTENNAS

TET HF BEAMS—Feature flat response over the whole band, exceptional gain, and light-weight. 6061 aluminium alloy construction with stainless fittings. 2 kW rating. IDEAL FOR SOLID STATE RIGS.

The TET HB-33SP—three elements, 8.5 dB on 14 and 21 MHz, 10 dB on 28 MHz, 29.8 lbs **\$735**

The TET HB-43SP—four-elements, 10 dB on 14 and 21 MHz, 11 dB on 28 MHz, 38.7 lbs **\$899**

The IC-AH1—Automatic band-switching, mobile FM whip for use with IC-730 and 720A, 80, 40, 20, 15 and 10 metres **\$732**

HF Trapped Verticals—The TET MV-5BH—Covers 80, 40, 20, 15 and 10 metres. A good, well-priced unit at **\$298**

The TET MV-5BHR—As for the 5BH, except has resonant, loaded radial elements, one for each band mounted horizontally on the base **\$435**

Dipoles—HF—The SCE-MBD8010 complete 135 foot dipole, hard-drawn copper wire, imported ceramic centre insulator, imported 2 kW "open wire" ladder line (100 foot supplied), a quality unit ready to go. Feed with balanced output tuner for excellent low loss multiband operation **\$73**

The SCE-G5RV—102 foot dipole for restricted space, multi-band operation. Has 34 foot of ladder line feeder (same construction and quality as SCE-MBD8010). Feed direct with balanced tuner or through convenient length of coax from tuner to the ladder line. Ready to go on 80, 40, 20, 15 and 10 metres **\$66**

HF Mobile Whips—Covers 80, 40, 20, 15 and 10 metres. Three helical whips, five stainless steel tips and a top-over base—the complete set **\$105**

VHF ANTENNAS

The SCE 2/58G—2 metres, 5/8 mobile whip with gutter grip **\$24.50**

The SCEH-2CL—2 metres collinear, 3.7 dB, has radial hub unit **\$47.50**

The SCEH-432CL—432 MHz collinear 3.7 dB and also uses radial hub unit **\$42**

BEAMS—2 metres, five-element, 8 dB, with balun **\$45.50**, 2 metre, 11-element, LPY **\$107**, 432 MHz, seven-element, 10 dB with balun **\$108**

ROTATORS

The U100—VHF/UHF rotator, 240 volts AC **\$219**

The KR400—HF rotator for the TET beams, 240 volt **\$398**, mast-mount for the KR400 if required **\$42**

The KR500—Elevation rotator for OSCAR antennas **\$479**

ANTENNA ACCESSORIES—Hard drawn stranded copper wire, 140 feet **\$14.90**, imported egg insulators **\$2.30**, imported foam coax, RG8U **\$5.35** metre, RG8X **\$2.52** metre, (note RG8U is 2 kW), 470 ohm ladder line **\$48/100** feet, six-core rotator cable **\$1.20** metre, Bauns 1:1 Bencher **\$64**, BN86 **\$64**, 4:1 baluns also **\$64**, Palomar RX noise bridges **\$187**, Drake 2 kW low filters **\$89**, coax switches, two position **\$62**, four position **\$160**, 50 ohm PL259 jumper leads, half metre **\$7.80**, 1 metre **\$7.95**

SWR Meters—Twin meter 1.5 to 150 MHz **\$48**

LINEAR AMPLIFIERS

The ICOM IC-2KL—All solid-state linear, 160-10 metres, including the new bands, auto band switching with new IC-720A or with the IC-720 when fitted with an LDA unit. Runs 1 kW input on SSB and CW. No tune up! Expensive but how convenient. Complete with AC power supply **\$3980**

THE MICROWAVE MODULES

MML-432/100—100 watts output, 432 linear amplifier (10 watt input). This will get you into OSCAR! Hi **\$1154**

POWER SUPPLIES—SCE power supplies for solid-state rigs

The SCE-DC30KH—Heavy-duty 13.8 V 30 A max., regulated supply, with twin output terminals **\$298**

The SCE-DC8—New, suitable for the new breed of 25 watt, 2 metre FM sets, and will supply up to around 7.5 A max., with 5-6 continuous. An attractive unit finished the usual SCE black and silver—New Model! **\$149.50**

ANTENNA TUNERS

The MFJ-941D—160-10 metres, up to 300 W, tunes coax, random wires, and balanced feeders. SWR/Power meter and has rear-mounted, four-position antenna switch **\$388**

The IC-AT100—Fully automatic tuner, auto-bandswitching with the IC-720A and IC-730, IC-740, IC-750 **\$698**

The IC-AT500—As per the AT 100 but handles up to 1 kW for use with the IC-2KL **\$1189**

The IC-MN100—Passive antenna matcher provides less than 1.5 SWR with short dipoles, and random end feed wires from 1.5-30 MHz **\$449**

LATEST FROM ICOM

The CT-10—COMPUTER INTERFACE ENABLES YOU TO OPERATE RTTY ON YOUR HOME COMPUTER (VIC-20, C64, etc.) using your IC-751, IC-745, or IC-R71, (tape and disc software will be available to suit modern home computers) **\$825**

SPEECH SYNTHESISERS AVAILABLE FOR THE 751, R71, 27A, 27H, 27I and 471 MODELS. **\$119**

**THE VERY BEST 73 FROM YOUR TOTALLY HAM LICENSED STAFF—
BARRY ZL1AAA, ROLY ZL1BQD, GAIL ZL1FV**

Cardiopulmonary Resuscitation (CPR)

Airway



ESTABLISH UNRESPONSIVENESS

– shake and shout.

CALL FOR HELP.

POSITION VICTIM flat on back on firm surface.

OPEN AIRWAY.

Clear out mouth.

Tilt head well back.

Lift chin with fingers.

Breathing



Look, listen and feel for breathing.

If absent:

BEGIN RESCUE BREATHING.

Keep victim's head tilted back.

Pinch nostrils.

Take deep breath, blow firmly with tight seal over victim's mouth.

Give **FOUR QUICK BREATHS** initially.

Chest must rise and fall.

Circulation



PRESS HERE



CHECK CAROTID PULSE.

Place two fingers on victim's Adam's apple, then slide into groove at its side.

If pulse absent:

BEGIN EXTERNAL CARDIAC COMPRESSION.

Kneel by victim With **HEEL** of hands, press lower half of breastbone downward 3-5 cm (1½-2").

The fingers may be extended or interlocked, or the top hand may grip the wrist of the hand underneath. Keep arms straight and fingers clear of chest.

Press down straight towards spine.

ONE RESCUER: 15 compressions (80/minute)

2 quick breaths.

TWO RESCUERS: 5 compressions (60/minute)

1 breath.

CHILDREN 1-8 years: Use heel of one hand to depress breastbone 2-5-3-5 cm (1-1½"); rate 80/minute.

CONTINUE CPR until natural breathing starts again and pulse returns, or advanced care is available.



EFFECTIVE CPR REQUIRES REPEATED INSTRUCTION USING TRAINING MANIKINS

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