

THE GLOBE CIRCLER

APRIL — 1937



STUDIO OF 4IP, IPSWICH, QSLD., AUSTRALIA

ONE
DIME

INTERNATIONAL DX'ERS ALLIANCE

CUBAN BROADCASTING STATIONS

WITH OUR ORIGINAL MIDNIGHT MARAUDERS

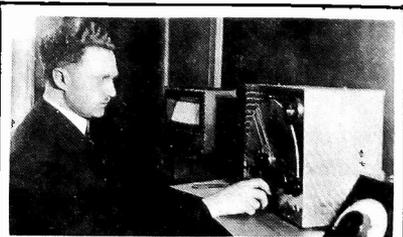
AROUND THE WORLD WITH THE BROADCASTERS

SHORT-WAVE NOTES

ACCURATE SHORT-WAVE STATION LIST

PAGE FOR OUR ORIGINAL MIDNIGHT MARAUDERS
(Broadcast Band Tips)

Long-Wave reception from Europe has been, and still is, VERY GOOD, despite the fact that this season has been one of the worst on record for BCB reception in general. Peters of N.S. says, "the L.W.'s are good. Have heard Minsk back of Reykjavik, Iceland. Program is in English and same as Moscow I. I think the station I heard on 248kC was Kiev, rather than Tashkent. It also was carrying Moscow program and closer to Kalundborg than Oslo." E. Roberts, of Danvers, Mass., says, "Have been tuning the LW's on a 1936 Model No. A-82, GE receiver. Long-wave stations logged have been Oslo, Kiev 1, Kalundborg Luxembourg, Warsaw 1, Lahti, Radio-Romania, Motala and Hilversum 1. The quality from these stations is amazing; far better than either BCB or SW. I heartily recommend LW dx'ing for those who want to tune the TA's" and Reichardt of Reading, Mass., states, "LW is good" Moscow 1, signs off at 7pm and then comes back on the air with morning gym at 9:30pm EST. Brasov, Romania, comes on at 11:30pm EST, with setting-up exercises. Opens program with rooster crowing and bells ringing. Reyjavik has dance music from 6:30 to 8pm EST Sundays & irreg. other nights. Hilversum 1, always has dance music." The sked for Reykjavik (208kC) is: 8-9am, 3 to 6:30pm, and Sat/Sun to 8pm EST' (Sundberg).



Charles Guilbert, Short-Wave Editor, and General French IDA Rep. at his special receiver.

BARGAIN IN DX RECEIVERS

Brand new 1936 model, 2-tube (all metal tubes), all-wave table model receivers-including long-wave band in original cartons, to IDA members only, for \$39.00 each-plus express. These receivers were manufactured by one of America's leading radio manufacturers and retailed less than one year ago at \$95.00. These sets are in use by several leading IDA dx'ers and have excellent sensitivity and selectivity as well as a remarkably low noise level. For full particulars write to Warren Reichardt, 21 Grant St., Reading, Massachusetts, mentioning the G.C.

BROADCAST BAND ANNUAL

We are considering publishing a complete hand-book and detailed world-log including all broadcast band stations of the world, their addresses, times on the air, their policy on verifying, identifying signals and also all possible general information on broadcast band dx'ing. To publish such a book would require a lot of work and expense. All those who would furnish data for such a book and be willing to buy one at 75¢ each, send your name to Evan Roberts, Wenham St., Danvers, Massachusetts.

HEARD IN SAN FRANCISCO

PRF3 (960kC), heard R3 on its special transmission.. KFQD (780), Anchorage, Alaska, heard FB, Sat., March 13, from 1 to 1:20am PST.. WNEL in P.R. heard FB on March 13, 12:35 to 12:46am PST. This station of ten can be logged after 3:30am PST, when

starting its daily schedule. IDA broadcast from HIX (800kC), heard with weak sigs from 2 to 3:30am PST. Very well heard on S.W.'s.

DX'ING WITH TOMMY TOMLINSON

Who is the PRB- on 1000kC? Who is the Rio xmtr. on 1283kC?.. Who is Brazilian on 800kC?.. Barrenquilla xmtr. on 1060kC, announcing as HJLABE, verifies as HJLABA on 130. Can anyone straighten this out?.. HJ3-ABX on 1050kC pounds in very loud after 7:30pm EST. OAXhA (25L) and HJLABJ (latter jumbled by WHAM) may also be heard. Who are the Latin stations on 1125, 1175, 1165, 1411 and 655kC? TP's poor, with only 4YA getting thru on peaks.

TP'S WERE GOOD EARLY IN MARCH

On March 7, from 5:50-6:20am EST, I logged 2CO, 3AR, 2NR, 3YA, 2BL and 2BG. Those underlined heard best. (Lonis-NY).. First two weeks in March found ALL YA's very good, but 1YA is still best, despite 2YA's 60 kW. Aussies were fair, with 3GI and 2NR best. Others heard were: 2BL, 3LO, 2GB, 2KY, 2UW, 4BC, 2CH, 2SM, 4AK, 2NC, 5CK, 2CO, 7NT, 3BA, 7UV, KGU, KGMB, KHBU and XGOA. Most amazing reception was logging of 2QN (14h0), 50w, Q4/R5-6, on March 9, from 5:46 to 6:11am EST. Several TA's still being heard from 5 to 7pm EST.. Last December, when TA reception was at its best, I heard Lyons PTT, Paris PTT, Toulouse PTT, WR, Milan, Radio Toulouse, Bordeaux, Fecamp and Radio Lyon on a six-tube Philco receiver installed in my 1936 Plymouth sedan. Car aerial used. (Roberts-Mass.)

WORLD-WIDE BROADCAST CALENDAR

DATE	E.S.T.	KG/S	KW	LOCATION	CALL
APR. 10	SAT. 5p.m.	11790	10	BOSTON, Mass.	L- W1XAL
Members are requested to report on local reception.					
APR. 15	THURS. 3-6am.	1160	.2	CIENFUEGOS, Cuba.	H- CMHJ
APR. 25	SUNDAY 5:30-7am.	1110	.1	IPSWICH, Qsld, Australia	M- LIP
MAY 12	WED. 6:30am-2:15pm	NBC/CBS/BBC		LONDON, England.	LEADING
Most elaborate BC ever staged will bring an estimated 400,000,000 people detailed description of ceremonies attendant upon <u>CORONATION OF KING GEORGE VI.</u> King will speak to Empire at 2 p.m. EST. The Official Souvenir Program will be available at news stands on April 23.					S.W. AND B.C. STATIONS OF WORLD
JUNE 8	TUES. 2:15-2:30pm.	N.B.C.		ENDERBURY IS. in Mid-Pacific.	
NBC & National Geographic Society will describe a <u>TOTAL ECLIPSE OF THE SUN.</u> Watch for tests between NBC xmtr. on Enderbury Is. and Kahuku, Hawaii.					
DAILY	Except Sun. 4:55pm.	11790	SW	BOSTON, Mass. (URSIgrams)	W1XAL
WEEKLY	SUNDAY 12:15-12:30am	25950	SW	LOS ANGELES (DX Tips)	D-W6XKG
WEEKLY	TUES/THUR/SAT 2-2:30pm		SW	LOS ANGELES (DX Tips)	W6XKG
WEEKLY	SUNDAY 12:45-1am	1120	.1	SAN FRANCISCO (DX Tips)	KGGC
WEEKLY	SUNDAY 3:30-3:45am.	570	1	HOLLYWOOD, Calif. (HAM TIPS)	KMTR
WEEKLY	MONDAY 9:15-9:30pm.	690	.1	CALGARY (DX Tips)	M- CJCJ
WEEKLY	TUES. 6:35-7pm. 15330/9530		SW	SCHENECTADY-IDA TIPS-	W2XAD/XAF
WEEKLY	TUES. 8-8:30pm.	1240	1	SAN JUAN, P.R. (DX Tips)	S- WKAQ
WEEKLY	SAT. 12:01-12:30am.	6140	SW	FITTSBURGH (KDKA DX CLUB)	WPKX
MEMBER WHO AR-RANGED PROGRAM	(L-Lippincott; H-Hidalgo; M-Myers; MM-McLean, Maguire; S-Storer; W2XAF-E. Darlington; D-DeHaven).				

D I S T R I C T H O N O R R O L L S

DISTRICT -6-	Mich, Ind, Ohio, Ky, Va., W. Va., Penna, N.Y., Del, Md., N.J.
David Thomas	19X Ohio VQ7LO, NRH, EAF5, LOV, SANTO PAULO, FN, PRAK, KZRC, 2BD G6BM, 1YX, VUO, Huizen, Warsaw, Droitwich, ZBW, ZTJ, CX CE62, CX34, HAE2, Lille, Dresden, Konigsberg, LS8, (20 LT3, HAE, HAE3, LS9, Gleiwitz, EAJ15, Poste de L'ile, Antibes, Klaipeda, Grenoble, HAE1, Sottens. (les
R.H. Tomlinson	19X N.Y. LVL, TIC, 5DN, EAJ41, JODK2. JFAK, RWMC, Palermo, Nap-3KZ, PRA6, JOCG, Innsbruck, Stettin, Freiberg, Augsburg, JOVK.
Ray Lewis	9X Ohio HJ3ABD, CX14, TIRC, TIRCA, YN1GG, LS6, Cracow.
Howard Eck	8X Mich 3KZ, PRA6, JOCG, Innsbruck, Stettin, Freiberg, Augsburg, JOVK.
C. Wyborski	7X Pa. HJ3ABD, CX14, TIRC, TIRCA, YN1GG, LS6, Cracow.
C. Lord	3X Ohio NN, SN, Suisse Romande.
D. Reynolds	2X N.Y. Eiffel Tower, Riga. R. Hough 1X N.Y. OAX
J. DeMyer	2X Mich JOPK, JQAK. H. Johnson 1X N.Y. HJ1ABE
I. Beitman	2X Ohio PRA8, LU2. A. Bartholomew 1X N.Y. MARCONI
I. Goodeve	2X Mich 1ZM, 6WF. R. Gozen 1X N.Y. YV1RF.
DISTRICT -7-	Maine, N. H., Vt, R.I., Conn, Mass, P. Q., N. B., N.S., Ont, Nfld.
E. B. Roberts	56X Mass RW39, HAE, EAJ2, SBD, SBC, SCF, SCU, SCT, SCO, SCB, CX14, CX16, Horby, Graz, Vienna, Cork, Bergen, Zagreb, Rigs, Belgrade, Nice (La Brague), Limoges, Milan 2.2NC, Selzburg, Praha 2, Kuldige, LRO, LGR, JOUK, JOPK, JOCG, JONK, JOOK, JOLK, JOAG, JORK, JOKK, JBAK, Danzig, Belfast, Marseilles (PTT), Montpelier (PTT), Bologna, Trondelag, Saarbrucken, Porsgrund, Radio Cite, Magyaryovar, Monte Ceneri, Aberdeen, Bournemouth, New-castle-on-Tyne, SR, Beaumaris, Antwerp (10CW).
W. Reichardt	11X Mass JOXK, JOBK 2, JOBG, LIP, 7NT, 2WL, 2AY, Katowice, LAK, Cracow, Naples.
W. C. Birch	4X Mass CB13R, PRF3, PRH8, LS9.
Robt. Osborne	2X N.S. Poznan, Palermo C. Burnham 1X N.Y. NN.
E. L. Peters	2X N.S. Radio Luxembourg, Motale.

ELIGIBLE FOR DEGREES

TA DEGREE (Trans-Atlantic); M. Garvey, Nicholas Hock.
TP DEGREE (Trans-Pacific); Clair Fultz, H. Tucker, Ches. Morgan, H. Cessna, Art. Johnson, R. Kure, Maynard Lonis.

SA DEGREE (So. America): A. Johnson.
DSW DEGREE (Doctor of Short-Waves) H.S. Bradley, Irving Cohen, Carl Forestieri, D.H. Henderson, A. Johnson, N.F. Kriebel, M.D. Reamy, Roy Waite. NOTE: Send \$1.00 for DSW or 60¢ ea. for others, to IDA HQ.

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CHARLES A. MORRISON
EDITOR

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NO. 11

E D I T O R I A L

I regret that due to space pressure, some interesting items and snap-shots must be held over. . . It is not hard to organize a LOCAL IDA CHAPTER. By enrolling four more members in your community, you will be granted a local chapter charter.

If YOU appreciate such added services as the Stop Press Sheet, Ama-Touring and the Forum, you can best prove it by telling others and enrolling as many as possible in our ranks. We will co-operate by sending a sample GC and IDA data to anyone you may suggest. I feel firmly convinced that EVERY member in this club CAN enroll at least one new member in the next two months. If you do not do so, I can not help but feel you are letting YOUR club and myself down, when your support is most badly needed. . . IF YOU ARE INTERESTED IN THE FUTURE OF THE IDA AND WHAT IT STANDS FOR- NOW IS THE TIME TO SHOW IT.

-Charles A. Morrison

I. D. A. CHAPTERS

AUTO CITY CHAPTER (Detroit): ACC is forging ahead. Through cooperation of A. Allen and E. Beck of the Detroit News, ACC will have a Dx Exhibit in the Hobby Show at the MICHIGAN EXPOSITION in Detroit on April 2-11. The Detroit News has further placed its Conference Room at the disposal of ACC for Chapter meetings.

BETA (New York): Beta leads the parade this year, having added more members than any other chapt. The average attendance at bi-weekly Sat. night meetings, held at home of Ed. Goss, 812 Prospect Pl., Brooklyn, is 17.

CALGARY FOOTHILLS (Calgary): CF is starting drive to rid Calgary of local QRM. First contact will be the Street Railway System. General increase in dx interest is noted and several members have added, or will add, new dx receivers.

EPSILON (London): Epsilon is now BRITISH HQ for the IDA, so all subscriptions and renewals should be

paid to the Gen. Treasurer, J. Knight of 6 Fleetwood St, Stoke, Newington, London N.16.. Ama-Touring and the Forum have aroused so much interest that Epsilon anticipates many new members shortly.

GOLDEN GATE (San Francisco): GG has launched a vigorous membership campaign and several prominent West coast dx'ers have already been enrolled. There was a fine attendance at the meeting of Mar. 13.

GRDXA (Australian Branch of IDA) The GRDXA wishes to appoint Reps. and Delegates in all parts of the world. Life membership fee to the GRDXA is only \$1.00 and intending members of the IDA can make their applications to A. Preece, 61 Lipson St, Port Adelaide, South Australia.

HALIFAX STAR (Halifax, N.S.): T.A. Pridgeon, 95 Pepperell St., has been elected Chapt. Sec.. Meetings are being held in Board of Trade Rooms and several prominent dx'ers have already been enrolled. A membership goal of 100 members for the first year has been set. (We expect to hear of fine results from HS-Ed).

JEWEL OF MEDITERRANEAN (Malta): JOM has added another new member, C Agius Gilibert, and have several others lined up. Chapt. has pledged its whole-hearted support on furnishing data for Ama-Touring. V.A. Trapani, has received a QSL from W7FU verifying a report for Mar. 36

PHOENIX ETHER EXPLORERS (Phoenix) Although a new chapt., has engaged in myriad activities, including window displays, editorial matter for 20 newspapers, trips to Globe and Superior, planned dx tips broadcast -besides regular chapter meetings, one of which was held at Mission Ranch Listening Post of C. Criswell who has distinguished himself for his work on Ultra-High frequencies -The ground-work is being laid for a big chapter in Phoenix.

REGINA JUBILEE (Regina): RJ has been successful with Radio Inspect or Pottle's aid, in having street cars and neon signs in Regina equipped to eliminate interference -Chapt. affairs moving on nicely.

APPOINTMENTS

FOREIGN REPRESENTATIVE: SYRIA AND LEBANON:

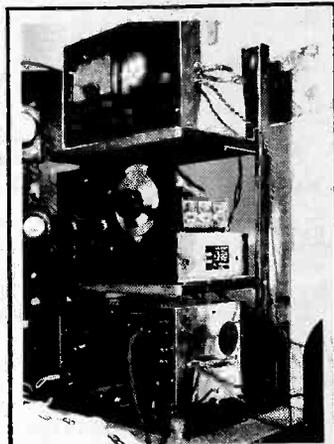
L.R.Fritsch, T-2 Station, F.O.Box 107, Homs, Syria.

STATE MANAGERS: OHIO: J.F.Satterthwaite, 514 Colonial Court, Toledo, Ohio.. QUEBEC: J. Russell Graham, 1005 Allard Ave., Verdun.

SPECIAL DETROIT REPRESENTATIVE: R.Verbrugge Jr., 10904 East Warren Ave., Detroit, Mich.

PERSONAL

Members who have not received answers to letters, will receive same soon. Have been very busy moving to T-2 Station, 200 miles further into the desert (L.R.Fritsch-Syria).. We have received quite a large number of letters from IDA members, reporting on the recent COCQ broadcast. Had one letter from Czechoslovakia and several from Australia and N. Z. (A.Pain-COCQ).. During past nine months have received over 500 amateur QSL cards, including all continents. Use a PR10 and Spider-Web antenna (McColgan-Hawaii).. A.Preece, 61 Lipson St., Port Adelaide, South Australia, wishes to exchange SWL cards, snapshots or letters with dx'ers in any part of the world. All letters will be answered.



The self-designed and constructed 11-tube receiver and pre-selector of Dr.J.Durrwang, Radio Club Basle, Switzerland.

IDA DISTRICTS MEMBERSHIP CONTEST

District 6	East Central States	93
District 7	E.Canada/N.E. U.S.	32
District 2	Pacific Coast area	26
District 4	Mid-west States	23
District 1	N.W. U.S.&W.Canada	21
District 42	Great Britain	11
District 5	Dixie States	6

MORE DX NOTES

Despite poor BCB season, have sent out total of 161 reports with 122 veri's received thus far (DeRoo-Hawaii).. VGX (695 to 700kc), is located aboard "Halifax Lightship," near entrance of Halifax harbor. It broadcasts fishing & weather reports at 7am and 12:30pm EST; Some claim Latin on 1220kc is PRE3, and that it can be heard to 2am on Sun days, BUT WCAE is on strong at that hour. It may be PRA9 which was testing on this freq. during Jan. and early Feb., but it sounds more like PRBR to me; 1YA, 2YA and 4YA being heard poorly-too much noise for decent dx (Peters-N.S.). How many would favor the VIC merit system outlined for SW in March G.C., also for the BCB? How many would favor a club-wide honor roll for BCB based upon handicap rating system employed in IDA Dx Contests? (E.R.Roberts, Wenham St, Danvers, Mass.)

NIPPONESE NOTES

JODK1 (10kW), Keijo, Chosen, now on 710kc; JODK2, Keijo, Chosen, now 50kW on 970kc.. Construction delayed on new JOAK xmtr. account of steel shortage. JOAK2's new xmtr. has been completed by Tokio Electric Co. The power output is 175kW, assuming the

feeder loss as 25kW.. JOKG (800kc), Kofu, and JOMG (600kc), Miyazaki, (each 500w), will be on air soon... JBBK2 (R20), JBBK1 (1090), JOLG (R90) and JOOG (1080kc), are all on the air now.. A Soviet xmtr. sometimes relaying Vladivostok, is being logged R8 to 9 on 550kc. A mysterious carrier wave modulated ONLY by a scratching noise seems to be intentionally blotting out transmission of MTCY on 560kc (A.Saito-Japan).

WITH OUR BRITISH MEMBERS

Several London members have thoroughly tested the Graham-Farish S.W Three receiver (covering 12.5-2000 M), and find it to be highly recommended as a fine job.. An excellent Eastick converter (one valve stage -pentode frequency changer), covering from 13 to 55M and easily attachable to any AC receiver is now on trial. It sells for only £4-14-6 complete, and can be had on easy monthly payments. A special discount has been arranged for IDA members. This same firm publishes the Eastick Radio Bulletin, in which a column has been generously reserved each month for IDA notes.. The first annual LONDON AND HOME COUNTIES S. W. CUP CONTEST, closing on Sept. 30, is now in full swing. This is a handicap contest depending upon number of valves in receiver (takes in reception from 12.5 to 180M), and the winner will be entrant with the BEST set of veri's. Detailed rules may be obtained from H.Blaber, 9 Stanton Rd, London, S.W. 20, England.

AROUND THE WORLD WITH THE BROADCASTERS

AFGHANISTAN New 20kW xmtr. to be in operation in Kabul by end of year
AUSTRALIA NEW: 2ES (1500kC, 100w, owned by Bathurst Broadcasters Ltd., Keppell St., Bathurst, N.S.W.; 3UL, 100w, to be opened at Warragul, Vict., soon; 4SB (owned by 4BC), 2000w, to be completed by August; 6PM (1390kC, 100w, Port Freemantle, W.A., testing; 7HT (1330kC, 300w, at Rosny Hill, near Hobart, Tasmania, to open on April 10. CHANGES: 2BH, Broken Hill, now on 1050kC; 2NZ (formerly 2LV, Inverell), 1170kC, 2000w, located at Little Plain, N.S.W.; Power of 2TM (1300kC, Tamworth, NSW, now 2000w; 3SR (formerly 3WR), Shepparton, Vict., 1260kC, power increased to 2000w; Power of 3YB (1210kC), now 100w; 4TO, Townsville, Qsld, now on 1160kC; 4VL Charleville, Qsld, now on 1130kC (NZDXRA-GRDXA-Wignall) (P96kC.

CHINA

XGOF, Tsinan, 500w, now on 913kC; XGOH, Changsha, 150w, now on New station (832kC), 400w, designed to relay Radio Cite, is testing at Reuil, near Paris (SWS).. The new Limoges station (P05kC), is to have an initial power of 100kW, which can be raised to 200kW later.

GT BRITAIN The new high power BBC xmtr. for South Devon will work on 1050kC, when completed; the new medium power station to serve Bristol and North Devon, will work on 1174kC, when completed; The new No. Wales xmtr. at Beumaris, now called PENMON (904kC), 5kW, is radiating same program as Washford Regional on same frequency; the high-power xmtr. at Stageshaw, near Newcastle, is almost completed; on July 1, Scottish National xmtr. (now on 1050kC), will move to 1149kC, where it will be synchronized with LN and NN. Washford Regional will then occupy 1050kC.

GERMANY

New xmtr. planned for Gorlitz to serve S.E. Germany (J.M.)

GREECE

Temporary 15kW BCB xmtr. will soon be in use at Athens. When the new 100kW xmtr. for Athens is completed, this 15kW xmtr. will be moved to Salonica; Corfu will have a 5kW station (WR).

MEXICO

XEBO (1310kC), 25w, just opened, believed to be in Irapuato

N.Z.

NEW commercial xmtr. 2ZB (1120kC), Wellington, on air soon.

P.I.

KZRM (618.5kC), 50kW, is building a new 400' aerial tower.

U.S.S.R.

Powerful new xmtr. (1209.9M), inaugurated at Kiev (J.M.)

U.S.A.

Construction permits granted for following new stations:

Florence, S.C., 1200kC, 100w; Albert Lea, Minn., 1200kC, 100w; Indianapolis, Ind., 1050kC, 1kW day.. Following new calls issued: WSNJ, Bridgeton, N.J., 1210kC, 100w; KTKC, Visalia, Calif., 1190kC, 250w; KPFA, Helena, Montana, 1210kC, 100w.. New vertical radiators will be built by WENR, WTAM, WXYZ, KOIL and WTAG.. Power increases: WJNO (1200kC), W. Palm Beach, Fla., to 250w; WCKY (1190kC), Covington, Ky., to 10kW; WBRC (930kC), Birmingham, to build new vertical radiator, and install new 5kW xmtr; WDAF (610), Kansas City Mo., has installed new 420' vertical radiator and 5kW xmtr-has also purchased WREN of Lawrence, Kans... KIT, Yakima, Wash., will move to 1250kC, erect vertical serial and increase power to 250/500w.. KGFI, Corpus Christi, Texas, 1500kC, 100w, will move to Brownsville, Texas.

NEW I.D.A. MEMBERS

Norman Schultz, Spanaway, Washington
 W.R. Pottle, Radio Inspector, Regina, Sask, CANADA.

A.B. Allen, Short-Wave Editor, The Detroit News, Detroit, Michigan.

M. P. Tinsley, Red Bay, Alabama.

C. Agius Glibert, Sliema, MALTA.

G.W. Rockwell, Halifax, N.S. CANADA.

W.S. Bligh, Halifax, N.S. CANADA.

H.C. Schultz, Halifax, N.S. CANADA.

W.B. La Pierre, Halifax, N.S. CANADA.

R.G. Schoel, Detroit, Michigan.

Mrs. Kate Randall, Ballston Spa, N.Y.

The Editor, Sintonia, Buenos Aires, ARGENTINA.

Francis E. Cummings, Portland, Maine.

J.W. Corrison, Springfield, Pa.

Wm. W. Skinner, Detroit, Michigan.

David S. Styles, Stamford, Conn.

Dave Portley, Thursday Island, North

Qsld, AUSTRALIA.

Dr. J. DURRWANG, Pres. of Radio Club Basle, Basel, SWITZERLAND.

I. De Ceuning Van Opelle, Tjimahi, Java, D.E.I.

S. Coleman, Birmingham, Warwick, ENGLAND.

W. F. Herzog, Center Moriches, LI, N.Y.

Harry R. Clarke, Detroit, Michigan.

G.C. Gallagher, San Francisco, Calif.

Harry C. Ruffner, San Francisco, Cal.

Luther L. Putnam, San Francisco, Cal.

Wm. Buchanan, Sydney, N.S. CANADA.

Chas. Massicot, St. Clair Shores, Michigan.

Michael Younger, Detroit, Michigan.

Lemuel Cavileer, Haddon Ht's, N.J.

Arthur C. Dursley Emerton, Cape Town

SOUTH AFRICA.

Wm. J. O'Brien, Chester, Pennsylvania.

Madame Desgrees Du Lou, Nantes,

FRANCE.

CUBAN BROADCASTING STATIONS

(Enrique Hidalgo)
-In Havana-

KC/S	WTS.	CALL NAME AND LOCATION
560		CMCK Radio Patterson, E. Pias, Guanabacoa, Havana.
600	1400	CMW La Voz de las Antillas, Prado 105, Havana.
640		CMBC El Progreso Cubano, Maximo Gomez 139, Havana.
680	1000	CMCG La Balear, Malecon 340, Havana.
730	3000	CMK Hotel Plaza, Havana.
750	100	CMCW Muebleria La Predilecta, Galiano y San Lazaro.
770	150	CMBS Calzada y H, Vedado.
810	600	CMCF Apartado 98, Prado 9
880	500	CMQ Jabon Candado, 25, No 225, Vedado, Havana; re. by COCO
920	1000	CMX Casa Lavin, Oficinas y Obrapia, Havana (ed by COCD.
950	250	CMCD G y 25, Vedado, relay
970	150	CMBY Infanta 132, Havana.
1000	500	CMBZ Casa Salas, San Rafael 14, Havana.
1030	5000	CMCY Autran y Westinghouse, G. No. 215, Vedado, Havana.
1060	500	CMBX A. Alvarez, San Miguel 194, Havana.
1100	500	CMCJ Radio Emisora Comercial, Estevez 4, Havana.
1140	200	CMBG Atwater Kent, F. Andarado 100, Havana. (ana
1170	500	CMBD 17 No. 3, Vedado, Havana.
1200	250	CMCO Oficinas 116, Havana.
1230	150	CMCB Radio Philco, La Metropolitana, Havana.
1280	500	CMCU Garcia Serra, Estrada Palma 25, Vibora, Havana.
1320	200	CMOX Hotel Apartamentos 8 y 19-10 y 10, Vedado, Havana.
1350	150	CMCA Galliano 102, Havana.
1380	150	CMCR La Traviata, Infanta 115, Havana.
1440	150	CMOA Almacen de Cristina-Aguier y Muralla, Havana.
1470	150	CMOK Del Valle, Valdes y Co., Estrella 121, Havana.
1500		CMCN La Voz del 4 de Septiembre, Mariano, Havana.

-Other Cuban Provinces-

760	200	CMHX Radio Electrica, Box 205, Cienfuegos. (guy)
780	250	CMJK Finlay No. 3, Camaguey.
790	500	CMGH E. Blanchet 25, Matanzas. (fuegos)
820	100	CMHW Lente de Oro, Cienfuegos.
830	500	CMJX Teatro Principal, Camaguey. (guy).
1010	300	CMJA Maceo No. 1, Camaguey.
1050	250	CMKD Celda Esquina a Marte, Santiago de Cuba.
1070	50	CMHA Carillo No. 31, Segua la Grande.
1120	150	CMGF Grel. Betancourt No. 51., Matanzas.

1120	200	CMKM Merchan y P. Figueredo, Menzillo.
1130	150	CMJI Independencia No. 95 -Ciego de Avila.
1150	200	CMJF Republica No. 88, Camaguey. (Cienfuegos.
1160	200	CMHJ Santa Elena 104, -
1160		CMKG Santiago de Cuba.
1180	50	CMJO Maceo y C. Central, Ciego de Avila.
1190		CMXC C No. 3, Rpto. E. Fomen to, Santiago de Cuba.
1210	150	CMHI Lavis y Paz, Independencia No. 34, Santa Clara.
1220	50	CMJE Hnos. Augero, No. 2, Camaguey.
1240	50	CMHB Independencia No. 53 Sanci Spiritus; Re. by COHB.
1250	150	CMKC J.A. Savo No. 23, alta -Santiago de Cuba.
1270	250	CMHD Maria Escobar No. 17 -Caibarien.
1280	250	CMKO Holguin.
1330	250	CMHK Casa Virgilio, Heredia No. 61, Cruces. (del Rio.
1340		CMAB Hotel Ricardo, Pinar
1340	100	CMJL Republica No. 181, Camaguey.
1350		CMKW Reparto Vista Alegre, Santiago de Cuba.
1360	100	CMJH Honorato Castillo No. 37, Ciego de Avila.
1370	150	CMGE Cespedes No. 180, Cardenas.
1390	150	CMJC Cisneros y Grel. - Gomez, Camaguey.
1400	100	CMKR B. Maso No. 69, alta., Santiago de Cuba.
1400	150	CMGC Independencia No. 56 -Matanzas (Moron.
1430	75	CMJP Callejas No. 80, -
1450	100	CMHM Aceite Marti, Hotel Union, Cienfuegos.
1460	250	CMKF Libertad y Arias, Holguin.

NOTE: The Crusselas Chain is composed of COCO, COCH, CMQ, CMBC & CMJA

CORRESPONDENCE CORNER

Mr. and Mrs. J. Cloquell Storer, Primavera St. No. 22, Santurce, Puerto Rico, wish to exchange SWL cards.

W. Croston, 2737 Mahoning Rd. N.E., Canton, Ohio, wishes to exchange SWL cards with members anywhere.

G. Rockwell, 42 Phillips St., Halifax, N.S., Canada, wishes to exchange Coronation stamps with other British Colony dx'ers.

Snr. Max. Walter Romer, Apartado No. 33, Caracas, Venezuela, would like to exchange stamps with anyone.

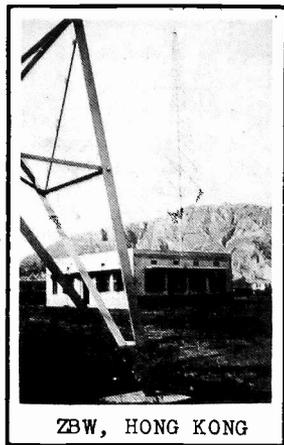
-PERSONAL-

A card from YOU would do wonders in cheering up H. Eck, 205 Kedzie St -E. Lansing, Mich., who is seriously ill in a Lansing Hospital.

Short-Wave News

Editor: C.A. Morrison; Assoc. Editors: Paul Dilg (PD); R.B. Oxrieder-Freq. Checking Bureau (RBO); Amateur: H.S. Bradley and Edw. Schmeichel (ES).

Apr. 10, Sat., 5 p.m. EST, 11.79mc BOSTON-W1XAL
May 12, Wed, 6:30am-2:15pm, CORONATION OF KING



ZBW, HONG KONG

DAVENTRY VERI'S, unobtainable from the BBC, may now be had by reporting on one of the following transmissions the first Sat. or Sun. of any month as follows: in EST: Trans (1) 3-4am, Sun; (2) 6-7 am, Sat; (3) 9-10am, Sat; (4) 2:45-3:45pm, Sun; 4-5 pm; (5) 6-7pm, Sat; (6) 9-10pm, Sat.. Reports, which should be accurate & complete, should be addressed to C.Weyrich, 4310 Evans Chapel Rd., Baltimore, Md. 5¢ should be enclosed for each freq. reported upon

To get April AMA-TOURING, send at least one item for it, and stamp, to HQ in envelope marked AMATEUR NEWS before April 6, Deadline for GC items - is 17th; for Stop Press Sheet - 29th of month. IT IS IMPERATIVE that reports use one side of page only, lines be double spaced, items be grouped by continents and time used be stated. Items in order of importance are: NEW stations; exact frequencies or changes; exact skeds and addresses; identifying signals; commercial sked tips and unusual receptions. RUSH important items by fastest mail AT ONCE.

FOUR STAR (****) item denotes scoop or exceptional merit.

E. S. T.

-NORTH AMERICA-CENTRAL AMERICA-

E. S. T.

ALASKA Amateur K7FBE-2R.67, Unalaska, Isle of Alaska, heard 4:15pm.
CANADA CFRX-6.07, relays CFRB, Rogers Majestic Corp. Ltd., Toronto, Ram-mid, Sun 10:30am-mid. S.O. with "God Save the King" (Graham, Moore, Cashio, Balbi).. Dominion Skyways xmtrs. at mining camps have been heard as follows: Near 7am and 8pm on 3:35mc, CZ2T, CZ2S and CZ9U; on 4.5mc, CY3M; on 4.8mc, CZ5K and CZ5M, and on 5.7mc, CZ6D. VOWQ, Labrador, contacts CZ9U at 7:45pm irreg. (Graham, Steegmuller).. Next supply ship carrying mail, will reach VE5TV (app. 14.27), Nottingham Island, NWT, August 1. Power of VE5TV, heard early mornings and evenings, is 200w (Ambrosius).

C. R.

TI3AV-5.72, heard testing in early AM with loud sigs (RG)

.. TILS (5.905), San Jose, announces frequently in English (Moore-Calif);
.. TIEP (6.687), signs off with organ selection, "Little Pal" (Moore)..
TI1NH (9.663), has drifted to 9.663mc (RBO); is unstable in frequency.

CUBA

QRA'S of stations: COL2 (1.712), Policia Nacional, Havana;

COCQ (6.01), Almacenes de Inclin, Apartado 9R, Havana; COGD (6.13), La Voz del Aire, G y 25, Vedado, Havana; COGH (9.43), General Electric Co, B. No. 2-A, Vedado, Havana; COCQ (9.75), Colgate y Palmolive, 25 No. 225, Vedado, Havana; COCX (11.49), La Voz del Radio Philco, Oficinas y Obrapias, Havana; COKG (6.2), Emisoras Grau, Apt. 137, Santiago de Cuba; COHB (6.282), Independencia 33, Sancti Spiritus; Crusselas Chain is COCO-COCH-CMQ-CMBC and CMJA (Hidalgo-Cuba).. COCQ is installing a 25kw xmtr. (Storer).. CMA5 (R.63), has whistling cuckoo for identification (Frost).. CMJ (R.7), Pan American Airways, Aerodromo San Julian, Guane, Piner del Rio, heard testing with Cuban selections at 9pm (Moore-Calif).

CURACAO

NEW: Radio Curacao, Curacao, Netherland West Indies, on an approximate frequency of 9.47mc, made first test on Feb. 22, and official

ly came on air March 1. Heard from 6:35 to 9:11pm; announces CUROM. Reports were solicited (**Rockwell, Thomas-Barbados, Graham)

D. R.

HIX, Trujillo City, now using following freqs: H11X (6.34);

H12X (announces 11.96, but actually on 11.97) and H13X (15.2R, but actually on 15.27) (RBO, Thomas, Steele, Moore, Messer, Eders, White, Sholin, Yost, Frost).. H1N (6.243) dedicates special program to American dx'ers on Tues. from 8:40 to 8:55pm; signs off at 10:40pm (NNRC, Cashio).. H12D (6.9), Trujillo City, heard 5-7pm irreg. (Frost).. H17P (6.782), Diario del Comercio, Calle Jose Reyes No. 35, Trujillo City, operates 12:40-1:40-
pm, 6:40-8:40pm and Sundays 9:40 to 10:40am (R. Gozen, RBO).

EL SALVADOR Phone-YSU (approx. 9.945), heard testing 5:30pm (Campbell)

GUATEMALA NEW: TG2 (6.125), C/o Director General of Electric Communi

cations, Guatemala City, heard relaying TGL and requesting reports (RBO)

JAMAICA New amateur VP5PZ (approx. 14), is operated by J.F. Grinan, prominent Radio Official, at Sea View Avenue, St. Andrew. (Mrs. V. Allwood)

LABRADOR VOWN (approx. 8.63), N.W. River, heard 8:40-8:50pm (Messer).

MARTINIQUE Radio Fort de France (9.36), not heard recently (RBO).

MEXICO XEBR (11.826), heard from 9-11pm, plays Spanish & American recordings; 4-tone chimes just prior to giving call (RBO, Ansell, Eders) .. XEUZ (6.117), 1000w, Mexico City, relaying XEFO, usually signs off near 3am; heard on 9.4mc irreg. on Sat. nights. Those reporting reception will be enrolled in "Radio Friends Club," thus becoming eligible for a special dx contest (Moore, Balbi, Kentzel, NRC) .. XEWI (11.9), is also operating irreg. on 6.015 (McLean) .. NEW: XEXU (approx. 9.61), "The National University of Mexico, Mexico D.F.," badly QRM'ed by HJLABE, heard requesting reports and signing off at 10:30pm (*R. Verbrugge-Mich). Any one having definitely heard the following, please forward data: XEXS

(6.2), XEXR (6.065/11.895), XEXF (6.05), XERV and XEBQ (6.03) (IDA).

NICARAGUA Sked of YNOP (5.758), 1kW, Managua, is weekdays 8:30-10:30 pm. Reports must include US 3¢ stamp (NNRC) .. NEW: YN1PR (R: 670), Radio Cuchas Pilot, Managua, heard recently; very unstable in freq. (RBO).

PANAMA Sked of HP5I (11.9V), La Voz del Interior, Aguaduce, is 7:30 to 9:30pm; no IRC's needed (RBO, Rodriguez) .. HP5K, is operating on approx. 6.005mc (RBO) .. Sister station of HP5J, which will operate near 7.5mc, will take air near end of April (McLean-Sask).

U.S.A. WNK, Hialeah, Fla., being heard on 9.355mc (RBO) .. W2XDJ, A.T.T. of Lawrenceville, N.J., granted permission to use new 20kW xmtr on 21 freqs. between 5.067 and 21.96mc .. W2XE (15.27) beamed on S.A. daily 6-7pm .. W2XAD (15.33) now operates from 10am to 6pm daily. Mail Bag program with IDA tips heard over W2XAD/W2XAF Tues. at 6:35pm; after April 25, will be 5:35pm. G. E. proposes to erect new xmtrs. on 9.53 and 15.33mc resp. at Belmont, Calif. for better Far East coverage.

-SOUTH AMERICA-

ARGENTINA "Voice of Argentina," program broadcast over LSX (10.35), Mon/Fri, 5-5:45pm .. LRU (15.29), temporarily off the air. (Sintonia).

BRAZIL PRF5 now being heard on 9.49mc, to escape QRM (Nelson).

BR. GUIANA VP3MR, operated by the British Guiana Broadcasting Co. Ltd, 16, Robb & Hincks Streets, Georgetown, Demarara, British Guiana, operates from 10:15-11:45am, and 4:45-7:30pm, and Sundays 7:45-10:45am; frequency varies from 5.98 to 6.002mc (VP3MR, RBO).

COLOMBIA Radio is being re-organized; stations must have more power and better modulation or go off air (Storer) .. HJU (9.51), Buenaventura, has a no advertising program Sundays 6-8pm (Mrs. Sthem) .. HJLABC heard on 6.005mc until midnight one evening (Moore-Calif) .. HJLABF (9.618), Cartagena, on air Sat. to 11pm with English hour. HJLABG (6.042), often heard broadcasting the "Roar of the Lion of Barranquilla" to the Lions Clubs of the world (Moore) .. HJLABD now varies from 5.975 to 5.8mc. (RBO)

DUTCH Station announcing in Spanish, Dutch & English, believed to be PZH, Paramaribo, being heard poorly on 6.788mc (RBO).

ECUADOR Exact call of La Voz del Alma (9.441), in Guayaquil, still in doubt. Present call sounds like HC20DA might be HC0BA, HC2DA or HC2BA -signs off at 10:15pm (RBO) .. HC2CW usually found near 8.33mc now. (RBO)

PERU "Radio Continental," a new 7kW xmtr. in Lima, should be on the air soon (Riversa-Lima) .. OAX4J (9.33), Lima, signs off at lam with "Good Night Sweetheart" (Ansell) .. OAX4P (6.125), Huancayo, being heard near 8pm (Moore-Calif) .. Power of OAX4D (5.78) is 2kW (Swenson) .. OAX4Z (6.091), Radio Nacional, power 16kW, Lima, relays OAX4A from 7 to 11:30pm. Old OAX xmtr. is to be dismantled. Engineer of OAX4Z is our old friend and charter IDA member, JORGE VARGAS ESCALANTE (Kentzel, Riversa, CAM) .. OAX5B (near 11.8, but varies), Radio Universal or La Voz de Ica, Ica, operates daily from 2-4pm and from 7 to 10:30 (sometimes as late as 11:50pm), signing off with organ selection, "Kiss Me Again." Relays OAX4A with 500w power (RBO, Moore, Riversa, Frost).

URUGUAY NEW: CXA2 (testing on 6mc, but will soon move to official freq. of 6.035mc), Rio Negro 1631, Montevideo, operates from 10am-noon and 4 to 10pm. Transmitter is at Sayago; has power of 500w (Sintonia).

VENEZUELA YVIRB (5.85), Maracaibo, being heard around 6:10am (Eders) .. YVIRL not YVIRN (5.937), Radio Popular, operates 11am-1pm and 4:30 to 9:30pm. Owned by Sr. Jose A. Higuera M., P.O. Box 247; will relay YVIRK on 1250kc, when this station takes the air (*RBO, Kentzel, Steele, Balbi) ..

YV5RC (5.8), Caracas, operates weekdays 10:15am-1:30pm, 4pm-10:30pm (Sat. to 9:30pm), and Sun. 8:30-11:30am, 1:30-10pm (YV5RC).

-EUROPE-

BULGARIA LZA (varies 14.97 to 14.87), Sofia, heard best Sun. 12:30-3am and 10am to noon; occasionally near 4:30pm. Church services Sundays at 3am (Criswell, RBO, Eders, C. Miller, X. DX, Sholin, Stevenson).

CZECHO-SLOVAKIA Official calls are: OLR2A (6.01), 2B (6.03), 2C (6.115), 3B (9.50h), 3A (9.55), 4B (11.76), 4A (11.8h), 4C (11.875), 4D (11.9), 5C (15.16), 5A (15.23), 5B (15.32) and 6A (21.45). Operating recently as follows: on OLR4A 7 to 9:45; on OLR3A 2:30 to 4:30pm and some times later on OLR2A; on OLR3A Mon/Thur 8 to 10pm, and sometimes to 11pm on OLR4A. Tests irreg. near 5 to 6am on OLR3A and 4A (X. DX, Storer, Laul, RBO, Goodeve, Sholin, Balbi, McLean, E. Roberts); English news 9am & 3pm

DENMARK New 5kW xmt. of OXY (6.06), Skamlebaek, will be on air in April (Radex).. Amateur OZLZ (14.00), logged at 5:30pm (Goodeve-Mich).

ENGLAND Important revisions of Daventry transmissions to go into effect April 18: Trans 1, 1-3:15pm; Trans 2,5, 4:5-8:55am; Trans 3, 9:15-noon; Trans 4, 12:20-3:45pm and 4-6pm; Trans 5, 6:20-8:30pm and Trans 6 9-11pm. Xmt. will be on air 3 minutes before each official sked with identification announcements and resume of the program (** BBC).

FRANCE New phone xmt. are: TYA-12.215 and TYA2-9.037 to Alger 1a; TYB-12.25 and TYB2-8.075 to Morocco; FYC-15.93 and FYC2-9.8h to USSR; TYE-18.09, TYE2-13.76 and TYE3-10.43, to U.S.A.; TYC-13, and TYC2-7.7, to Egypt; TYD3-18.776 to Madagascar (**Nelson).. See S.W. List for revised Pontoise skeds. Owing to delay in construction of new 100kW xmt., a new temporary 25kW S.W. xmt. may be built for Exposition (SWS)

GERMANY DHO (20.02), works LSM at 12:50pm; DGH-10.4h, works SUZ at 4:30am and 1pm (Sholin, NRC).. DZH-14.46, sends program to S.A. 7-9pm (X. DX).. DJT-15.36, Zeesen, working with DZH and DZC, sends program to Brazil in late afternoons (*RBO).

HOLLAND PCJ's new xmt. and aerial at HUIZEN are now in use. Reports should be sent to PCJ Studios at Hilversum. New skeds are: PCJ (15.22), Tues. 4:30-6am, Wed 8-11am; PCJ (9.59), Sun, 2-3, 7-8pm, Tues 1:30-3pm, Wed 7-10pm; PHI (17.77), Sun 7-10am, Mon/Tu/Th/Fr 8-9:30am, Sa. to 10

HUNGARY NEW SKED: Sundays-, over HAS3-15.37, 9-10am, and HATH, (9.125, but heard recently on 9.096), 7-8pm; Wed, 7-8pm, over HATH and Sat. 6-7pm over HATH. Address reports to B. Marschalco, Radiolabor, Gyalut 22, Budapest (**HATH).. Amateur HARN (14.16), heard 4am & 4pm (IJG).

ITALY IBC-11.955 heard foning IUC-11.955, 10-11pm (Ansell-Sask) .. Who are unidentified Italian xmt. on 10.62 and 14.65mc (RBO, Messer)

PORTUGAL CT1AA, Lisbon, still jumping about, may usually be found near 9.65mc; broadcasts Sundays irreg. (X. DX, Steele, RBO, Verbrugge).

SWEDEN New 1kW xmt. will soon replace SM5SX. It will operate on the 19 meter band (E. Radio).. SM5SX signing off near 5:06pm (RBO).

SPAIN Xmt. listed in World Radio; Radio Castilla, Burgos-6.25; Spanish Falange No. 1, Valladolid-7.042mc; Radio Jaca-7.17h; Radio Requete de Guipuzcoa, San Sebastian-7.203; Radio Requete on Madrid front-7.229 and Radio Requete, Malaga-7.099mc.. English news from EAQ at 6:30 and 8:30pm (Campbell).

SWITZERLAND On March 20, Swiss National Hour, Sat. 6:45-8pm, adopted following freqs: HBO-11.402 (for S.A.) and HBJ-14.535 (for N.A.) (**Kure, Mrs. Sthem, X. DX, Stark, Thomas).. NEW: HBVE (usually on 40M band), operated by Brown-Boveri Co., of Baden/Aargau, has been testing irreg. (Durrwang).

U.S.S.R. New Soviet xmt. broadcasting programs irreg: RWG-8.183 RBO-8.31, RPK-7.42, RKA-6.96, and RYS-6.75 (Moscow, E. Radio).. RNE-12, Moscow, now on Mon/Wed/Fri and Sun. at 4pm; broadcasts French-Canadian program on Mon/Tu/Wd/Fri and Sat. 10:15-11:15pm (Mrs. Sthem, Frost, X. DX, Graham, Gozen).. RAN-9.6, broadcasts Spanish hour 6-7pm (Steele); unidentified phone xmt. on 15.89 at 7am; 11.715 at midnight (Gozen, Moore).

YUGOSLAVIA YTC, Belgrade, now on 11.7mc, daily from 2:30-5pm (**CSWRC)

-AFRICA-

ALGERIA FVA-8.95, Alger. phones Paris at 2 and 4am (Nelson, Sholin) .. Most active amateur phones are: FA3IH (14.26), 50w; FA3LY (14.075), 40w, and FA3JY (14.08), 40w; operate between 8 and 3:30pm Irreg (Flieber-Alger)

ANGOLA CR6AA-9.66, heard best on Sats. near 4:30pm (Geiser-NJ).

BEL CONGO OPM-10.14, heard at 1:15 and 2:15-2:30am irreg. (Sholin).

ERITREA NEW station on 14.48mc, heard at 11:30am answering IAC (17.699), who was calling "Pronto Asmara." (Sholin-Celiff).

ETHIOPIA IUC-11.955, heard in late evenings; IUG-15.115, phones IAC -17.699, Coltano, Italy, daily from 9-10am (Sholin, Criswell, Yost).

F. SOMALILAND FZE2-17.28, Djibouti, 500w, fones Paris at 3am irr (Nelson)
ITAL. SOMALI ITK-16.385, Mogadiscio, phones IAC at mid, 12:30am, 1am, 1:30
LAND 4:30, 5, 8, 8:30am and irreg. (Criswell, Grahsm, Gozen, Miller)

MOZAMBIQUE CR7B-11.718, P.O. Box 594, Laurencio Marques, being heard with strong sigs on Pacific coast from 9:30 to 11am EST, and on Sundays 9:30 to 12:30pm. An English announcement is made at 9:33am; seems to be loudest near 10:30am (Balbi, Clark, Sholin, Criswell, A. Radio Announcer
SP. MOROCCO Radio Guardia Civil, Tetuan, is on 6.53mc; heard transmitting music and news from 4:15 to 5:13pm (RBO, Rodriguez).

TUNESIA Radio Tunis, reported to have moved to 13.955mc (SWS).

-ASIA-AUSTRALIA-

AFGHANISTAN New 20kw xmtr. for Kabul will be completed by end of year

AUSTRALIA VK6ME-9.59, started 1/27; now operating 6-7:30am ex. Sunday
-xmtr. is at Applecross, studios at Perth, W.A.; power is 500 watts, which will be increased in future (**Wignall, Dilg, W.A.W.N., The Broadcaster).

CELEBES PNI-8.775, Makassar, phones YBZ-7.68mc, near 5:50am (Sholin)

CHINA XQJ-15.795, works KWU-8-9pm, and JVE or JVD at 11:20pm and 12:30am (Sholin, Criswell).. XGW-10.42, Shanghai, works KWX, 9:30-9:50am (Walcott).. XTL-5.49, Hankow, works XTC-9.285, Shanghai at 9:15am (NNRC).

FIJI'S VPD2-Suve, shifted back to its former freq. of 9.54mc, on March 6 (**Eders, Frost, X. DX, RBO, Dilg). Sked is same as usual.

F. INDO-CHINA Radio Philco (11.71 to 11.73mc), Saigon, is heard irregularly from as early as 5:30 to as late as 10am (UXDC-RN)

INDIA Bombay, Delhi, Calcutta and Madras are to have 10kw xmtrs.

JAVA A new NIROM xmtr. is broadcasting on 15.305mc (**WAWN)..

PLP-11, comes on air at 5am; at 5:30am clock chimes five times and YDC and YDB then join network; lady gives short talks in Dutch at 5:40am (**Cavilleer-NJ).. PLE-18.83, works JVD at 12:30-12:40am (Criswell-Ariz)

JAPAN Overseas program for Europe is radiated over JZI-9.535 and JVP-7.51, daily 2:30-3:30pm (Saito).. The new fone circuit between Japan and the Okinawa Islands, consists of xmtrs. JKI-H.305 and JKIJ-7.66

at Yoshino, Japan (receiving station at Teniyama) and xmtrs. JCG-H.385 and JCH-8.155 at Mawashi, Okinawa (receiving station at Shuri). Okinawa is the other name for Riu Kiu Island (**Saito-Japan); JCG phones JKI

from 6:15-6:30am (**Sholin-Calif). JVE-15.66, works Bangkok, Siam at 11:40pm; often works PLE at 9pm on Sundays (Sholin); JVM-10.74, often works Dixon near 1am; JVD-15.86, works XQJ at 11:20pm; JVO-10.375, heard phoning and signing off at 7:15am (Sholin-Calif, Moore-Calif)...

JZAA (6.5), Henede Airdrome, often works on 9.84mc also, 1-7am (UDXC).

MACAO CQN, Macao, on 10.065mc, since Dec. 11, is being heard with weak sigs on Mon/Fri, 7 to 8:30am (**Gozen-NY); reported on 10.11mc also

MALAYA ZHI, now closed down, has been succeeded by a new Singapore xmtr. on freq. of 6.018mc, which is being heard on Mondays and Thursdays from as early as 6:40 to as late as 8:10am (**PD, DeMyer, C. Miller, RMA)

.. ZGE, Kuala Lumpur, heard on 8.955mc, Mon, Feb. 1 (W.A. Wireless News).

MANCHUKUO TDE-10.065, heard foning at 4 and 5:15am (**Gozen, Sholin)

P. I. KAY-14.98, Manila, often calls Berlin near 6am; KTP-8.12, phones near 9am.. Strange station, believed to be KAY is heard on KAY's freq. at midnight and 9am. Both men and women announcers are heard and the language is unidentified (Sholin, Brewer - Ariz, Cornfield, Frost).

SHIPS 9MI (6.01), "S.S. Kanimbla," still being heard quite frequently, usually starts to test at 6:35am and opens program at 7am. The station closes down at 7:30am, with signature selection "Sweet Dreams" followed by "God Save the King." A QSL received by Paul Dilg pictures the Kanimbla and gives the mailing address as P.O. Box 255c, General P.O -Melbourne, Australia (**PD, Eders).. ZMBJ -8.84, "S.S. Awatea," 400w, may often be heard phoning from 1 to 3am, and with musical programs from 6:45 to 7:30am. QSL card has blue background with cut of ship and emblem of Union Line. Address reports to Union S.S. Co., or Auckland, New Zealand (**Ambrosius, Sholin, Brewer, Goodeve, Kentzel, Eders).

U.S.S.R. RV15, Khabarovsk, being heard with excellent strength on 2nd harmonic of 8.546mc; English programs are broadcast at 3am (Sholin Moore).. RTZ-8.57, sometimes sends music near 3 a.m. (Brewer-Ariz).

AN AMAZING RECEPTION FEAT (*****) is that of C. Criswell, Phoenix, Ariz who intercepted a program on 41.5mc, on Feb. 26, from 8 to 9:10am MST, which was the sound channel of the television program from LONDON, ENG.

SHORT-WAVE BROADCASTING STATIONS

SYMBOLS: N- new station; F- change in frequency; S- change in sked; C- change in call letters; U- exact frequency in doubt; E- frequency calibrations according to Oxrieder-IDA Frequency Bureau; J- stations persisting in hopping about; V- varying in frequency; * see S.W. notes.

DIAL METERS	MRGS	CALL	STATION	TIME	E.S.T.
13.93	21.54	W8XK	Pittsburgh, Penna.	7 to 9am.	
S13.94	21.52	W2XE	Wayne, New Jersey	7:30 to noon to Europe	13M
13.97	21.47	GSH	Daventry, England	6 to 8:45am, 9am to noon	*
15.77	19.02	HSEPJ	Bangkok, Siam	Mondays 8 to 10am.	
S16.86	17.79	GSG	Daventry, England	1-3, 6-8:45am, 9-noon.	*
16.87	17.78	W3XAL	Boundbrook, N.J.	9am to 5pm. (Su 7-10am.	
S16.88	17.77	PHI	Huizen, Holland	M/T/T/F 8-9:30am; Sa to 10	
16.89	17.76	DJE	Zeesen, Germany	12:05-5:15, 5:15-11am.	16M
16.89	17.76	W2XE	Wayne, New Jersey	Noon to 1pm.	
18.72	16.03	KPK	Kahuku, Hawaii	Sat 10-10:30pm, Sun 8:30-9	
19.45	15.42	XEBM	Mazatlan, Mexico	9-10am, 1-3 and 8-9pm & ir	
19.52	15.37	HAS3	Budapest, Hungary	Sundays 9 to 10am.	
N19.53	15.36	DJT	Zeesen, Germany	With DZH/DZC in afternoon	
19.56	15.34	DJR	Zeesen, Germany	8-9am to Central America.	
S19.57	15.33	W2XAD	Schenectady, N.Y.	10am to 6pm.	*
19.62	15.29	LRU	Buenos Aires, Argen.	6am to 5:55pm * (-to S.A.	
19.63	15.28	DJQ	Zeesen, Germany	6-8, 8:15-11am, 4:50-10:45p	
S19.64	15.27	W2XE	Wayne, New Jersey	1-6 to Europe, 6-7pm to SA	
N19.64	15.27	HI3X	Trujillo City, D.R.	Mornings and at noon irr.	
19.66	15.26	GSI	Daventry, England	12:15 to 4pm for Africa.	
19.67	15.25	W1XAL	Boston, Mass.	Sundays 11am to noon.	19M
S19.68	15.243	TPA2	Pontoise, France	6 to 11:05am.	
19.71	15.22	PCJ	Huizen, Holland	Tues 4:30-6am, Wed 8-11am,	
19.72	15.21	W8XK	Pittsburgh, Penna	9am to 7pm. (-10:45pm	
19.74	15.20	DJB	Zeesen, Germany	12:05-5:15, 5:55-11am, 4:50	
19.75	15.19	ZEW4	Hong Kong, Hong Kong	Not in use at present.	
S19.76	15.18	GSO	Daventry, England	1 to 3am for Australasia*	
19.80	15.15	YDC	Bandoeng, Java	5:30 to 11am; 6 to 7:30pm	
S19.82	15.14	GSF	Daventry, England	6-8:45, 9am-noon, 4-5:45pm,	
				6-8 and 9-11pm.	
19.84	15.12	HVJ	Vatican City, Italy	10:30-10:45am. (Sun 6-8am.	
19.85	15.11	DJL	Zeesen, Germany	Mid-2am, 8-9, 11:35am-4:30p	
V20.11	14.92	LZA	Sofia, Bulgaria	Su 12:30-8, 10am-4:30pm; M/ W/F/S 5-7am; Tu/Th 1-3pm.	
				Relays JOAK evenings irr.	
S20.55	14.60	JVH	Nazaki, Japan	Sats. 6:45-8pm, for N.A. *	
N20.64	14.535	HBJ	Geneva, Switzerland	7-9pm for S.A. and irreg.	
N20.75	14.46	DZH	Zeesen, Germany	Mon/Wed/Fri 12:30-1:30pm.	
22.00	13.635	SPW	Warsaw, Poland	11am-1pm, 4-8:15pm & later	
24.39	12.30	CB615	Santiago, Chile	Sundays 1:40-2:30pm.	
S24.52	12.235	TFJ	Reykjavik, Iceland	Su 6-7, 10-11am, 4-5pm, Wed	
S25.00	12.00	RNE	Moscow, U.S.S.R.	6-7am; M/W/Fr 4-5pm & irr.	
				Testing evenings irreg. *	
N25.06	11.97	HI2X	Trujillo City, D.R.	M/W/F 3-4pm, Tu/Th 7:30-	
25.21	11.90	XEWI	Mexico D.F.	8:45pm, T/Th/F 10pm-mid &-	
				7:30 to 9:30pm.	*
V25.21	11.90	HP5I	Aguadulce, Panama	4-5am, 11:15am-6pm.	
S25.24	11.885	TPA3	Pontoise, France	Early afternoons.	25M
25.25	11.88	XEXA	Mexico D.F.	7 to 10pm.	
25.27	11.87	W8XK	Pittsburgh, Penna.	11am to 4:20pm to Africa.	
25.32	11.85	DJP	Zeesen, Germany	7 to 9:45; Mon/Th 10-11pm*	
S25.34	11.84	OLR4A	Prague, Czechoslovakia	7-10pm-non directional.	
25.36	11.83	W2XE	Wayne, New Jersey	9am-6pm; Sun 9-11am, 1-6pm.	
25.36	11.83	W9XAA	Chicago, Illinois	Su/W 1:30-3pm; 9-11pm. *	
F25.37	11.826	XEBR	Hermosillo, Mexico.	6:45am to 12:30pm.	
25.40	11.81	2R0L	Rome, Italy	2 to 4, and 7 to 10:30pm*	
V25.41	11.80	OAX5B	Ica, Peru.	9-10am, 4-5pm, mid-1am.	
25.42	11.80	JZJ	Nazaki, Japan	M to F 10am-5pm; Sa to 530	
25.47	11.778	OER2	Vienna, Austria	11:35-4:30pm, 4:50-10:45pm	
25.49	11.77	DJD	Zeesen, Germany	12:15-4, 6-8, and 9-11pm*	
25.53	11.75	GSD	Daventry, England	Not heard recently.	
25.55	11.74	HP5L	David Panama		

N25.58	11.73		Saigon, F. Indo-China	5:30 to 10am irr.	*
25.60	11.72	CJRX	Winnipeg, Canada-	6-midnight, Sun 3-9:30pm.	
N25.60	11.718	CR7BH	Laurencio Marques, Mozambique.	9:30-11am & irr.	*
S25.61	11.714	TPAL4	Pontoise, France	6:15-8, 10pm-1am.	
25.63	11.705	SM5SX	Stockholm, Sweden	1:45-2:45am, 11am-5pm & irr	*
N25.64	11.70	YTC	Belgrade, Yugoslavia	2:30-5pm.	*
25.68	11.68	KIO	Kahuku, Hawaii	Thurs 9:30-10pm.	
V26.11	11.49	COCX	Havana, Cuba	8am-1am; Sun 8am-Nn, 6-9pm.	
N26.32	11.402	HBO	Geneva, Switzerland	Sat 6:45-8pm to S.A.	*
27.17	11.04	CSW	Lisbon, Portugal	1 to 6pm for Africa.	
S27.27	11.00	PLP	Bandoeng, Java.	5-11am, 6-7:30pm.	*
S28.14	10.66	JVN	Nazaki, Japan	3:50-7:40am and 4-5pm.	
28.93	10.37	EAJ43	Tenerife, Canarias	2:15-7:05, 7:25-8, 8-9:15pm	
S28.98	10.35	LSX	Buenos Aires, Argen.	Mon/Fri 5-5:45pm for N.A.	
29.04	10.33	ORK	Ruyselede, Belgium	1:30-3pm to Belgian Congo	
29.15	10.29	DZC	Zeesen, Germany	Relays Zeesen irregularly	
29.24	10.26	PMN	Bandoeng, Java	5:30-11am, 6-7:30pm.	
F29.81	10.065	CQN	Macao, Macao	Mon/Fri 7 to 8:30am.	*
V30.18	9.94	CSW	Lisbon, Portugal	6:10 to 8pm; sometimes 10p	
V30.43	9.86	EAQ	Madrid, Spain	2:30-5pm, 5:15-10pm.	
V30.78	9.746	COCQ	Havana, Cuba	Relays CMQ 7am to lam.	*
V31.05	9.663	TI1NRH	Heredia, C.R.	9-10 and 11:30pm to mid.	
V31.05	9.662	YNLF	Managua, Nicaragua	2-3 and 8-11pm.	
31.06	9.66	CR6AA	Lobito, Angola, Afr.	Wed/Sat 3:45-5:30pm.	*
31.06	9.66	LRX	Buenos Aires, Argen.	6 to 10:30pm.	
31.06	9.66	YDB	Sourabaja, Java	5:30-11am.	31M
J31.09	9.65	CT1AA	Lisbon, Portugal	Tu/Th/Sa 4-7pm & Sun irr.	*
B31.11	9.645	HH3W	Port-au-Prince, Haiti	1-2, 7 to 8:45pm.	
31.12	9.635	2R03	Rome, Italy	M/W/F 12:40-7:30pm; T/Th/S	
V31.20	9.618	HJ1ABP	Cartagena, Colombia	12:40-7:45pm; Su 1:20-5:30	
N31.22	9.61	XEYU	Mexico D.F.	7-9, 11am-1:30pm, 5-10:30pm	
31.23	9.605	HP5J	Panama City, Panama	Sat to 11pm; Su 10am-1:30p	
31.25	9.60	RAN	Moscow, U.S.S.R.	Heard signing-of at 10:30	
31.25	9.60	CB960	Santiago, Chile	Noon-1:30pm, 6:30-10:30pm.	
S31.27	9.595	HBL	Geneva, Switzerland	6-7pm; 7 to 9:10pm to NA.	
31.28	9.59	PGJ	Huizen, Holland	10:30am-noon, 6-8:30pm.	
F31.28	9.59	VK6ME	Perth, W. Australia	Sat 5:30-6:15pm.	
31.28	9.59	VK2ME	Sydney, Australia	Sun 2-3pm, 7-8pm; Tu 1:30-3	
31.28	9.59	W3XAU	Philadelphia, Penna.	pm, Thurs 7-10pm.	
S31.32	9.58	GZC	Daventry, England	6-7:30am except Sundays.*	
S31.32	9.58	VK3LR	Melbourne, Australia	Sun 1-3, 5-9, 9:30-11:30am.	
B31.34	9.575	HJ2ABC	Cucuta, Colombia	Noon-8pm, Sun noon-7pm.	
31.35	9.57	WLXK	Springfield, Mass.	4-5:45pm, and 9-11pm.	*
31.36	9.565	VUB	Bombay, India.	M to F 3:30-8:30am; Sa 5-	
31.38	9.56	DJA	Zeesen, Germany	8:30am; Su 3-7:30a; 8:45am-	
31.38	9.559	HJ1ABB	Barranquilla, Colom	6 to 10pm ex. Sundays.	
S31.41	9.55	OLR3A	Prague, Czechoslov.	6:30-1am; Sun 8am to lam.	
F31.45	9.54	VPD2	Suva, Fiji's	Fr/Sat 11:30am-12:30pm.	
31.45	9.54	DJN	Zeesen, Germany	12:05-5:15, 4:50-10:45pm.	
S31.46	9.535	JZI	Nazaki, Japan	During day up to abt. 7pm	
31.48	9.53	W2XAF	Schenectady, N.Y.	2:30-4:30pm; Mon/Th 8-10pm	
31.48	9.52	LKJ1	Jeloy, Norway	5:30-7am except Sundays.	
31.50	9.525	ZBW3	Hong Kong, Hong Kong	12:05-5:15, 5:55-11am, 4:50	
31.51	9.52	HJ4ABH	Armenia, Colombia	to 10:45pm to S.A.	
S31.55	9.51	GSB	Daventry, England	2:30-3:30pm; 4-5pm, 9-10am.	
S31.55	9.51	HJU	Buenaventura, Colom.	4pm-mid; Sat 1pm to mid.*	
31.58	9.50	HJLABE	Cartagena, Colombia	5 to 8am.	
31.58	9.50	PRF5	Rio de Janeiro, Brz.	11:30pm-1:30am, 4-10am; Sat	
B31.58	9.50	VK3ME	Melbourne, Austral.	9:15pm-Su 1:30am, 3-9:30am	
B31.61	9.493	XEFT	Veracruz, Mexico	6 to 10pm.	
31.65	9.48	XEDQ	Guadalajara, Mexico	1-3am, 12:15-5:45, 6-8pm.*	
N31.68	9.47		Curacao, D.W.I.	Mon/Wed/Fri 8-11p; Su 6-8p	
				5 to 10:30pm ex. Sundays.	
				4:45-5:45pm ex. Sundays.	
				4-7am except Sundays.	
				7:30pm-midnight. (later.	
				Noon-4:30pm, 8-11:30pm or-	
				Approx. 6:35 to 9:10pm.*	

31.73	9.45	TGW	Guatemala, Guat.	8-10, 11pm-mid, to 5am Sun.
S31.78	9.441	HC20DA	Guayaquil, Ecuador	9am-10pm; Sun 4-10pm.
31.81	9.43	COCH	Havana, Cuba.	7am-mid, Sun 8-9am, 11:30am-1:30pm, 6-9pm.
32.05	9.36		Fort-de-France, Martinique.	6:15-7:15, 8-9pm. *
32.09	9.35	HS8PJ	Bangkok, Siam	Thursdays 8 to 10am.
J32.15	9.33	OAX4J	Lima, Peru	6pm to lam. *
32.26	9.30	YNGU	Managua, Nicaragua	1-2:55 and 6-8pm.
S32.98	9.096	HAT4	Budapest, Hungary	Sun/Wed 7-8pm; Sat 6-7pm. *
33.53	8.948	HCJB	Quito, Ecuador.	7 to 11:30pm ex. Mondays.
33.94	8.84	ZMBJ	S.S. Awatea.	1-3am, 6:45-7:30am irreg. *
34.11	8.795	HKV	Bogota, Colombia	Mon/Thurs 7 to 7:30pm.
J34.60	8.67	YN1PR	Managua, Nicaragua.	Heard in evenings. *
34.66	8.665	CO9JQ	Camaguey, Cuba	5:30-6:30pm or to 9pm irr.
35.27	8.505	YNLG	Managua, Nicaragua	1:30-2:30, 6-10pm.
J36.01	8.33	HC2CW	Guayaquil, Ecuador	8 to 11pm except Sundays.
36.14	8.30	ZP10	Asuncion, Paraguay	Being heard near 9 to 10pm
B38.20	7.854	HC2JSB	Guayaquil, Ecuador.	6 to 10:30pm ex. Sundays.
S38.47	7.797	HBP	Geneva, Switzerland	Sat 5:30 to 6:15pm.
B39.68	7.56	YNLF	Managua, Nicaragua	6:45 to 9:45pm.
J39.74	7.55	T18WS	Puntarenas, C.R.	5-7, 8:30-10pm; Sun 5-6pm.
39.87	7.52	KKH	Kahuku, Hawaii.	Tuesday 12:30-1am.
S40.65	7.38	XECR	Mexico D.F.	Sundays 6-8pm.
J41.00	7.315	YNLAT	Granada, Nicaragua	8 to 10pm irregularly.
41.15	7.29	PSUL	Barcelona, Spain.	3:50 and 6:30pm.
V41.55	7.22	ECN1	Barcelona, Spain	Noon-1, 4-5pm, Sunday 5-7pm.
V41.67	7.20		Radio San Sebastian, Spain.	Evenings to 9:30pm
41.67	7.20	YNAM	Managua, Nicaragua	8 to 11pm. (later
42.25	7.10	FO8AA	Papeete, Tahiti.	Tues/Fri 11pm to mid or -
J42.80	7.00	EA9AH	Tetuan, S. Morocco	4:30 to 7pm irreg.
43.04	6.97	HCETC	Quito, Ecuador	Thursdays 8 to 10:30pm.
S43.48	6.90	HI2D	Trujillo City, D.R.	5 to 7pm irreg. *
43.80	6.85	VP4TC	Port-of-Spain, Trinidad.	Sat 4:30-5pm.
43.81	6.848	XGOX	Nanking, China	5:30 to 9:40am.
V44.20	6.788	PZH	Paramaribo, D. Guiana	Mon/Wed/Fri 5:40-9:40pm. *
V44.23	6.782	HI7P	Trujillo City, D.R.	6:40-8:40pm; Sun 9:40-10:40a
V44.28	6.775	HIH	San Pedro, D.R.	7:40-9:10pm; Sun 5:30-6:30p
44.51	6.74	HC1TQ	Quito, Ecuador	Sundays 5-7pm
44.58	6.73	HI3C	La Romana, D.R.	6:10-7:40pm; irreg to 11pm.
44.60	6.727	PMH	Bandoeng, Java	5:30-11am. (Sunday.
V44.86	6.687	TIEP	San Jose, Costa, Rica	7-10:30pm or 11:30pm ex.-
B45.22	6.635	HC2RL	Guayaquil, Ecuador	Sun 5:30-7:30pm; Tu 9-11pm.
45.25	6.630	HIT	Trujillo City, D.R.	12:10-1:40pm; 5:40-8:40pm.
B45.29	6.625	PRADO	Riobamba, Ecuador	Thursdays 9 to 11pm.
45.60	6.578	HCVT	Ambato, Ecuador	7 to 10pm; to 11pm on Fri.
45.76	6.555	HI4D	Trujillo City, D.R.	5:10-8:10pm ex. Sundays.
S45.80	6.55	TIRCC	San Jose, D.R.	Tu/T/S 6-7pm; Su/Th 9-10pm.
45.84	6.545	YV6RB	Bolivar, Venezuela	8 to 10pm.
B45.87	6.54	YN1GG	Managua, Nicaragua	1-2:30, 8 to 10pm. 49M
F45.94	6.53		Tetuan, S. Morocco	9-10:45am, 2:30-3:30, 4-5pm.
V46.01	6.52	YV4RB	Valencia, Venezuela	10:30am-1:30pm, 5:30-9:30pm
46.15	6.50	T10W	Port Limon, C.R.	10-11:30am, Sundays 2-3pm.
46.15	6.50	YV1RM	Cristo de Aranza, Venezuela	on air shortly.
B46.15	6.50	HIL	Trujillo City, D.R.	5:40 to 7:40pm ex. Sundays.
B46.31	6.479	H18A	Trujillo City, D.R.	5:40 to 7:40pm ex. Sundays.
B46.33	6.477	HI4V	S.F. de Macoris, DR	5:10 to 6:40pm ex. Sundays.
46.73	6.42	HI1S	Santiago, D.R.	6:10 to 8:10pm ex. Sundays.
46.80	6.41	T1PG	San Jose, C.R.	6 to 11:30pm.
46.88	6.40	YV5RH	El Valle, Venezuela	5 to 9:30pm ex. Sundays.
47.02	6.38	YV5RF	Caracas, Venezuela	11am-1pm, 5:30-9:30pm ex S.
J47.14	6.365	YV1RH	Maracaibo, Venezuela	8:30 to 11pm.
47.20	6.357	HRP1	San Pedro Sula, Honduras	7:45-10pm ex. Sundays.
CH7.32	6.34	HI1X	Trujillo City, D.R.	Tues/Fri 8:10 to 10:10pm. *
V47.54	6.31	HIZ	Trujillo City, D.R.	5:10 to 7:40pm ex. Sundays.
47.62	6.30	YV4RD	Maracay, Venezuela	6-10pm except Sundays.
47.76	6.282	COHB	Sancti Spiritus, Cuba	4-6, 9-11pm ex. Sundays.
47.77	6.28	HIG	Trujillo City, D.R.	8:10-9:40pm; T/F 6:40-8:10p
47.85	6.27	YV5RP	Caracas, Venezuela	6:30 to 9:30pm or later.

47.92	6.26	OAX4G	Lima, Peru	7 to 11pm.
48.00	6.25	YV5RJ	Caracas, Venezuela	Will be on air shortly.
48.00	6.25	CT1GO	Pareda, Portugal	4:20-5:30pm ex. Tuesdays.
48.05	6.243	HIN	Trujillo City, D.R.	7:10 to 10:10pm or later.
48.11	6.235	HRD	La Ceiba, Honduras	7:30 to 10:30pm ex. Sundays.
48.19	6.225	YV1RG	Valera, Venezuela	11:30am-1pm, 6-9pm.
48.35	6.205	YV1RI	Coro, Venezuela	8 to 9:30pm approx.
48.39	6.20	COKG	Santiago, Cuba.	8-9am, 11am-2pm, 5-9pm.
48.40	6.198	HI8Q	Trujillo City, D.R.	Noon-2pm, 6-8pm, (or 10:40p
48.47	6.19	H11A	Santiago, D.R.	10:40am-1:40pm, 6:40-9:40pm
48.50	6.172	XEXA	Mexico D.F.	7 to 11pm.
48.57	6.164	OAX1A	Chiclayo, Peru.	8 to 11pm.
48.73	6.156	YV5RD	Caracas, Venezuela	3:30 to 10pm.
48.78	6.150	F14AJ	Tunis, Tunisia.	
48.78	6.15	HI5N	Santiago, D.R.	6-7am, noon-2pm, 6-9:30pm.
48.78	6.15	CJRO	Winnipeg, Canada.	6-mid., Sun 3-9:30pm.
48.81	6.147	ZZB	Bulawayo, S. Rhodesia	Mon 11am-Nn, Tu/T 1:15-3:15 pm, Sun 3-4:30am, F 10-10:45 9am-noon, 6:30-10pm.
48.82	6.145	HJLABU	Pereira, Colombia	10pm-1am.
48.86	6.14	W8XK	Pittsburgh, Penna.	11:45pm-12:30pm.
48.88	6.137	CR7AA	Laurenco Marques, Mozambique.	Halifax, N.S., Canada relays CHNS irregularly.
48.93	6.132	VE9HX	Georgetown, B. Guiana	4:45 to 8:45pm ex. Sundays
48.93	6.132	VP3BG	Kuala Lumpur, FMS.	Sun/Tues/Fri 6:40-8:40am.
48.94	6.13	ZGE	Jeloy, Norway	11am to 5pm.
48.94	6.13	LKJ1	Havana, Cuba.	9am-1am; Sun 10am-4pm, 8-10
48.94	6.13	COCD	Cusco, Peru.	Heard evenings irregularly
48.96	6.128	OAX7A	Montevideo, Uruguay	8am-noon, 2-10pm.
48.98	6.125	CXA4	Bogota, Colombia	10:30am-2:30, 5:30-11:30pm.
49.01	6.122	HJ3ABX	Arequipa, Peru.	Heard irregularly.
49.01	6.122	OAX6A	Huancayo, Peru.	Noon-1pm, 9-11pm.
49.01	6.122	OAX4P	Wayne, New Jersey	10 to 11pm.
49.02	6.12	W2XE	Mexico D.F.	8pm to mid; irreg to 2am.
49.02	6.12	KEPW	Mexico D.F.	9am-1pm, 7pm to 3am. *
49.04	6.117	XEUZ	Barranquilla, Colom	6 to 10pm except Sundays.
49.06	6.115	HJ1ABB	Calcutta, India.	2:06-3:06am; Sun 12:36am on
49.11	6.109	VUC	Manizales, Colombia	5:30-10pm ex. Sun; Sat to 11
49.11	6.108	HJ4ABB	Boundbrook, N.J.	6-11pm; Sat 6pm-1am.
49.18	6.10	W3XAL	Chicago, Illinois	11pm to 2am except Sat.
49.18	6.10	W9XF	Medellin, Colombia	7:30 to 10:30pm.
49.20	6.097	HJ4ABE	Johannesburg, S. Afr	11:45pm-1am, 3:15-7:30, 9am- 4pm; Sun 3:30-4:30, 8-10:15a
49.20	6.097	ZTJ	Lima, Peru.	7 to 11:30pm. *
49.26	6.09	OAX4Z	Bowmanville, Canada	Nn-8pm; Su 11am-8p, Sa N-mid
49.26	6.09	CRGX	Ibague, Colombia	8 to 10pm.
49.26	6.09	HJ4ABC	Cal, Colombia	7 to 11pm, (2:30p, Tu/T 8:20
49.30	6.085	HJ5ABD	Nairobi, Kenya	M to F 5:40-6:10, 11:25am- 7:30-9am, 6pm-1am; Sun 11am- 1pm, 6pm-1am.
49.32	6.083	VQ7LO	Chicago, Illinois	6:40-9:10am ex. Sundays.
49.34	6.08	W9XAA	Penang, S.S.	7 to 10:30pm.
49.34	6.08	ZHJ	Colon, Panama	8 to 11pm.
49.38	6.075	HP5F	Guadalajara, Mexico	5 to 10pm.
49.38	6.075	XECU	Maracaibo, Venez.	6-7:30pm; Sun 1:45pm-3am.
49.38	6.075	YV1RD	Vancouver, B.C. (2w)	8am to mid; Sun 10:30am-mid
49.42	6.07	VE9CS	Toronto, Canada.	7pm to midnight ex. Sundays.
49.42	6.07	CFRX	Bogota, Colombia	1:30-2:30am, 7:30am-12:30pm
49.43	6.069	HJ3ABF	Colombo, Ceylon	1-6:30pm, Sun 11am-7pm. *
49.46	6.065	HJ3ABF	Skamlebaek, Denmark	8-11pm.
49.50	6.06	OXY	Philadelphia, Penna	6:30am-8pm, 11pm-2am, S 8-8p
49.50	6.06	W3XAU	Cincinnati, Ohio	7pm to midnight.
49.50	6.06	W8XAL	Bogota, Colombia	6:30-11pm ex. Sundays.
49.55	6.055	HJ3ABD	Barranquilla, Colom	Mon 7:30-8:30pm; Tu 7:45- 9:30pm; Fri 7:30-9:30pm.
49.65	6.042	HJ1ABG	Boston, Mass.	2:30 to 8:30pm irreg.
49.67	6.04	W1XAL	Pernambuco, Brazil	8 to 10:45pm.
49.67	6.04	PRAB	Medellin, Colombia	10am to 2am.
49.72	6.033	HJ4ABP	Panama City, Panama	
49.75	6.03	HP5B	Calgary, Alta, Canada	
49.75	6.03	VE9CA		

49.79	6.025	HJLABJ	Santa Marta, Colom.	5:30-10:30pm ex. Sunday.
B49.83	6.02	XEUW	Veracruz, Mexico	10pm-1am.
49.83	6.02	DJC	Zeesen, Germany	11:35am-4:30pm.
N49.85	6.018	ZHI	Singapore, S.S.	Mon/Thurs 6:40-8:10am. *
V49.86	6.017	HI3U	Santiago, D.R.	4:40-9:40pm ex. Sundays.
49.91	6.012	HJ3ABH	Bogota, Colombia	4 to 11pm, Sun 4-9pm.
49.92	6.01	COCO	Havana, Cuba.	7:55am-10pm or later.
N49.92	6.01	OLR2A	Prague, Czechoslov.	Mon/Thur 10 to 11pm irr. *
S49.92	6.01	9MI	S.S. Kanimbla	6:35-7:30am irreg. *
49.92	6.01	FIU	Tananarive, Madagascar	10-11am.
49.95	6.005	CFCX	Montreal, Canada	7:45am-1am; Sun 9am-11:15pm
V49.95	6.005	HP5K	Panama City, Panama	7-8am, 8-10:30 or 11pm.
49.97	6.003	XEBT	Mexico D.F.	10am to 1:45am. (Su 7:45am-
J49.98	6.002	VP3MR	Georgetown, B. Guiana	10:15-11:45am, 4:45-7:30pm
N50.00	6.00	CXA2	Montevideo, Uruguay	Testing 4 to 10pm. *
50.00	6.00	RV59	Moscow, U.S.S.R.	
V50.08	5.99	HJ2ABD	Bucaramanga, Colom.	6 to 10pm.
V50.21	5.975	HJ4ABD	Medellin, Colombia	8 to 11pm irreg.
V50.38	5.955	HJN	Bogota, Colombia.	11am-2pm, 8:30-10:30pm ex S
50.51	5.94	TG2X	Guatemala City, Guat.	M/Wed/Sat 9 to 10:30pm.
N50.53	5.937	YV1RL	Maracaibo, Venezuela	11am-1pm, and 4:30-9:30pm
V50.64	5.925	HH2S	Port-au-Prince, Haiti	7-10, or 11pm ex. Sundays.
50.71	5.917	YV4RH	Valencia, Venezuela	5pm-midnight ex. Sundays.
S50.81	5.905	TLLS	San Jose, C.R.	7 to 10pm ex. Sundays.
50.85	5.90	ZNB	Mafeking, Bechuanaland.	2-3am and 1-2pm & irreg
V50.86	5.899	YV3RA	Barquisimeto, Venez	5:30-9:30pm ex. Sundays.
51.07	5.875	HRN	Tegucigalpa, Honduras	6 to 9:30pm.
51.24	5.855	HT1J	San Pedro, D.R.	11:40a-1:40p, 6:10-8:40pm.
51.28	5.85	YV1RB	Maracaibo, Venez.	10:45-12:40pm, 4:30-9:30pm.
B51.55	5.82	TIGPH	San Jose, C.R.	N'n-2pm, 7-11pm ex. Sunday
S51.72	5.80	YV5RC	Caracas, Venezuela	4-10:30pm; Sun 1:30-10pm. *
51.90	5.78	OAX4D	Lima, Peru	Wed/Sat 9-11:30pm.
S52.10	5.758	YNOP	Managua, Nicaragua	8:30 to 10:30pm ex. Sundays
52.30	5.735	HCLPM	Quito, Ecuador	Tues 9-11pm & irreg.
52.45	5.72	YV2RA	San Cristobal, Ven.	5:30-9:30pm ex. Sundays.

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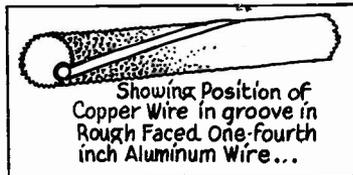
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