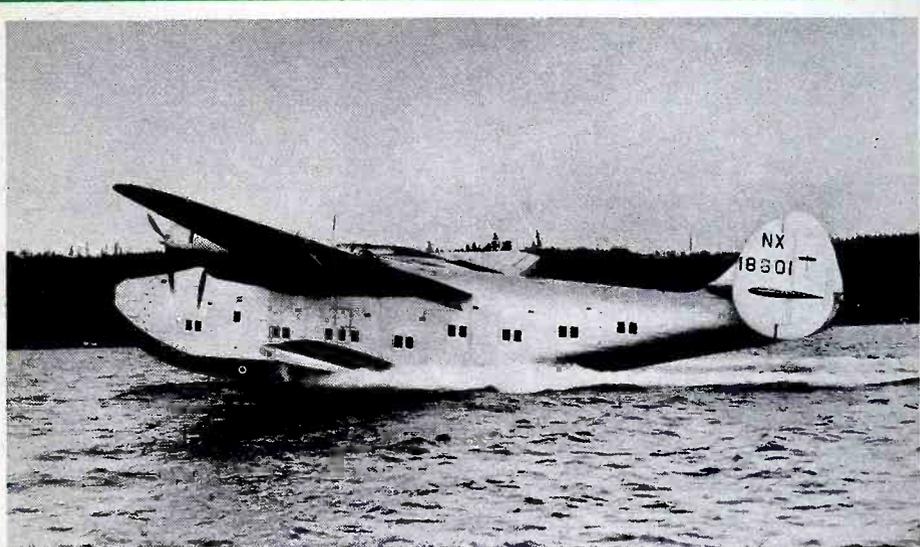


# THE GLOBE CIRCLER

MARCH, 1939



Broadcasts will be short-waved to NBC and CBS from this gigantic new Pan American Super Clipper on it's inaugural flight across the Atlantic Ocean.

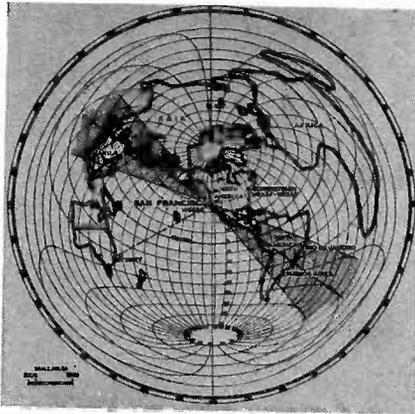
(Courtesy of Pan-American Air-Ways)

## *In this issue*

VIC-VAC SHORT-WAVE HONOR ROLLS—IDA 100 CLUB—"ELEVEN METER STATIONS"— ACCURATE SHORT-WAVE LIST—DETAILED SHORT-WAVE STATION NOTES—EXPEDITION NOTES.

*ten cents*

INTERNATIONAL DX'ERS ALLIANCE



HOW W6XBE'S SIGNALS ARE BEAMED



WORLD'S LEADING DX'ERS: No.1: J. DeMyer, 2230 Maplewood, Lansing, Mich... Has Scott rcvr...vertical aerial...DX'ing since 20; verifying since 32...On S.W. has VIC 136/VAC 78; is DSW; Chairman 100 CLUB...On BCB, has VIC 37/VAC 2.

## SHORT WAVE NOTES

Editor-in-Chief, Charles A. Morrison; Ama-Touring Editors, Roger Legge, Roy Waite; Frequency Checking Editors, R.B. Oxrieder, John Larsen.

### THE I. D. A. 100 CLUB

|                                      |     |                                    |     |
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### SUPER-CLIPPER TO MAKE SHORT-WAVE BROADCASTS ON INITIAL FLIGHT OVER ATLANTIC

At an early date, Pan American's new Super-Clipper (Yankee Clipper), will make its maiden flight from Seattle to Washington D.C., via Alameda, Calif., thence to London, and return to New York, officially inaugurating trans-Atlantic passenger service. A 100 watt transmitter operated jointly by CBS, and NBC, under the calls WCBN, and KFSM, respect., has been installed aboard the clipper, and it will feed frequent broadcasts to the networks during the entire flight, on any one of the following frequencies: 2.4, 4.797, 6.425, 8.655, 12.862, 17.31 or 23.1 mcs., by way of one of the following Rocky Pt. stations: WDN (4.555), WCG (10.38), WQV (14.8) or WLL (17.9). Clyde Houldson will act as operator and announcer....A tentative flight by one of the Clippers to Auckland, N.Z., and return, via Hong Kong, has also been planned for the near future, and broadcasts will be fed the same networks, under the same calls, and on the same frequencies, but via one of the following contact stations: KEI (9.49), KKZ (13.69) or KUN (18.06) of Bolinas, or KRO (5.84), KIO (11.68) or KQH (14.92) of Kahuku, Hawaii. (See front cover for Clipper Photo)

### SOUTH AMERICAN EXPEDITIONS TO FURNISH NEW SHORT-WAVE THRILLS

The Andean Anthropological Expedition will leave soon for the head-waters of the Amazon River in Ecuador and Peru. The first base-camp in Ecuador, in the tribal territory of the Jivaro Indians, will be equipped with a 100w xmtr, which will maintain contact with the U.S. and various field parties, each of which will carry 15w portables powered by hand generators. Frequencies will include all ham bands, and 3 channels for phone, one each near 15.79, 8.57 and 6 mcs. Two other base-camps, each equipped with a station,

will be set-up later. All radio activities are in charge of W6HJX, Lloyd Demrick (\*\*\*Ama-Touring, QST, Radio). . . A Venezuelan Government Expedition has left Caracas to explore the S.E. part of Venezuela, along the frontiers of the Guianas and Brazil. It is carrying a 1000 watt amateur transmitter, which will operate on 14.125, 14.122, 7.284 and 7.222 mcs., using the call YV9AB, and the slogan "Expedicion de la Gran Sabana". Contacts are planned for 7am EST. Reports are requested (IRC unnecessary), which should be addressed to the Ministerio de Fomento, Servicio Tecnico de Minería y Geología, Expedicion de la Gran Sabana, Caracas, Venezuela. All reports will be verified after the return of the Expedition (\*\*\*\*Kammann-by airmail, Venez.)

AMA-TOURING: Each issue includes numerous departments of interest to DXers who tune the amateur bands. Write to HQ for a sample copy today. Subscription rate is 75¢ per year, or with Globe Circler \$1.75 per year.

DEADLINES: For APRIL GLOBE CIRCLER, March 16; for APRIL STOP PRESS SHEET, March 30; for APRIL AMA-TOURING, March 22 (For Ama-Touring, send your news items to R. Legge, 20 Beethoven St., Binghamton, N.Y.)

MAKE OUT YOUR SHORT-WAVE REPORTS AS FOLLOWS: Double space lines; use one side page only; group items by continents, and state time used. Items in order of importance are: NEW stations; exact frequencies, or frequency changes; exact schedules, or addresses; identifying signals and unusual receptions. RUSH important items by fastest mail....FOUR STAR items denote exceptional merit. EACH FIVE STAR (\*\*\*\*\*) item pays contributor \$1.00.

EST      NORTH AND CENTRAL AMERICA      EST

ALASKA      K7XFS, Fairbanks; K7XFG, Anchorage, and K7XFU, Juneau, all operated by Alaska Aeronautics and Communications Commission, give weather reports, or contact other stations hourly after 4pm; usually on 8.11, but also operate irreg. on 4.055, 3.4 and 3.35mc. Power 150w. (\*\*Underwood, FCC)

CANADA      CFRX (6.07), Toronto, and CJCX (6.01), Sydney, both verify with attractive QSL cards. CFRX's pictures the Parliament Building (\*Amers)

C.R.      Station on 6.165, signing-off nightly at 11:30pm, announces TIEM not TILS (\*Plotner, White)...TIEP (6.695), now operates 7pm-mid. (Reynolds).

CUBA      COCD now on 6.138mc (Larsen, Reynolds)...NEW: Late Govt. list gives COCE (12.23), "La Voz del Transporte", Prado 18, Cuba; relays CMC (1530) weekdays 8am-mid, and Sundays noon to mid. (\*Radio Guia)

D.R.      H1N (6.243), formerly HIN, sometimes broadcasts Chinese programs 9-10pm (CLP, Campbell)...H1LS, now 6.42, signs-off at 7:35pm (Larsen).. H13X (15.27), being heard irreg. Sundays near 4:30pm (Larsen)...H1GH (6.6), still on the air, and operating daily near 7am and 7:40-8:40pm (CLP, Oskay) ...An unidentified H18? is on 5.88 nightly to 7:40pm (Larsen)...H19B, now on 6.39mc, is being heard Mondays and Fridays 8:10-8:40pm (\*Larsen)

EL SALVADOR      YSM (11.71), verifies with a blue, red & yellow card picturing the antenna tower, and a coffee tree (\*Wells)

GUATEMALA      TG2X (5.94), verifies with blue on white card with photo on reverse side...NEW: TGX1 (6.132), P.O. Box 23, Guatemala City, relays TGX daily 10am-6, and 8pm-lam; special DX program for U.S. Sun, to 2am EST (\*\*White, Larsen, Plotner, Byrn)...Amateur TG9BA verifies with beautiful photo card (Byrn)

HAITI      HH3W has shifted into the clear on 9.77mc (Reynolds)

HAWAII      KKH (7.52) & KQH (14.92), feed "Across the Sea to NBC," Saturdays 1-1:30am, and "Hawaii Calls" to MBS and CBC at 9-9:30pm (\*\*Fern-Hawaii)

HONDURAS      HRK or HRK1 (5.795), "La Voz de - -," Tegucigalpa, is being heard nightly to 11 pm. (\*Larsen, Plotner)

MEXICO      XEUZ (6.117), uses organ & guitar selection of "Song of the Islands", as an interval theme every half-hour. English announcement promises listeners that write scenic postal cards; News in English usually at 10:30 pm (Amers)...XEW1 (11.9), was heard testing with increased power (\*Balbi).

NEWFOUNDLAND      Address for commercial VOFB is, Avalon Tel. Co., St. John's.

PANAMA      HP5F (6.08), Colon, heard 7-9pm (Legge)...HP5H (6.122), usually signs at 10:30pm with "Whistler and His Dog"; chimes as interval sig (Amers)

UNITED STATES      Revised sked for W1XAL: on 21.46, Tu/Th/Sat 11am-noon; on 15.13, Sun. 11am-12:30pm; on 11.79, weekdays ex. Sat 3:15-6:30pm, Sat. 1:45-6:30pm, Sun 1-6:10pm; on 6.04, weekdays ex. Sat. 7-9pm, Sun 7-8:30pm, and on 11.73, weekdays ex. Sat 9:15-11:30pm (\*\*W1XAL)...W2XE now on 9.68, weekdays ex. Sat, 10:30-11:30pm, (W2XE)...Revised sked for W2XAD follows: on 21.5, 8-10:15am; on 15.33. 10:30am-6pm and on 9.55, 6:15-9pm (Darlington, Byrn)...W2XAF has

been authorized to add frequencies 6.19 and 21.59mc (FCC)...Revised sked for W3XAU follows: on 21.52, 1-2:30pm; on 15.27, 3-7pm; on 9.59, Mon/Th/Sat 7:30-11pm, and on 6.06, daily 11:30pm-1am, and Sun/Tues/Wed/Fri 7:30-11pm. (\*\*Oskay, Larsen)...NEW: GE's new 20kW xmr. W6XBE, Treasure Island, San Francisco, Calif., went on the air on February 18, will operate as follows: on 15.33mc, daily 7-10am directed to Asia, and 6-10pm directed to S.A. (see diagram on page 2) (\*\*Darlington-GE). W6XBE also authorized to add freqs. 6.19 and 21.59mc (FCC)...Revised sked for W8XK follows: on 15.21, 9am-2pm, and on 11.87, 2-11pm (W8XK). . . UHF: W4XA of Nashville, Tenn. is now on 28.15mc... For list of "11" meter stations and skeds see our list. . . Amos of Amos 'n' Andy, is now operating W6QUT, a portable mobile xmr. in his automobile. . . The Navajo Agency, Window Rock, Ariz., heard on 3mc, at 10pm (\*Pichler)

### SOUTH AMERICA

BRAZIL PRA8 (6.01), is operated by the Radio Clube de Pernambuco S.A., Estudios E. Administracao: Av. Cruz Cabuga-394, Pernambuco (Magnuson)

CHILE CB1170 (11.7), signs-off with "Marching Through Georgia" (Tuffs)...CB1180, has shifted to 11.97mc (Larsen)...NEW: CB1510 (15.1), Valparaiso, heard testing Feb. 11 and 12. (\*\*Oskay, Larsen)

COLOMBIA NEW: HKF (9.71 and 4.855), "La Voz de Bogota", Apartado 312, Bogota, is being heard almost nightly to 11pm (\*\*Olthoff, Reynolds)...Sked for HJLABE (4.835) is 7am-6, and 8-11pm (Tuffs)...HJLABG, "Emisora Atlantico" Barranquilla, is now on 4.905mc; interval is three notes in ascending scale (\*Larsen, RBO, Oskay)...HJ3CAX (6.02), "La Voz de Colombia", P.O. Box 772 relays HJ3CAZ of Bogota (Olthoff, Larsen)...HJ6ABB, Manizales, is on 6.054mc (Legge)...HJ7GAB, "Radio Santander", Bucaramanga, is now on 4.772mc, evenings to 10 or 11pm; interval signal is triple cuckoo call (\*Larsen, RBO)....Has anyone identified the HJ- on 4.755mc? (Larsen, RBO)

ECUADOR Trans-Ocean, the Nazi Government's propaganda service, has offered to build a powerful S.W. xmr. at Guayaquil. The same firm is installing a station at Lima, Peru (Chicago Tribune)...HCLGQ (given on veri' as 9.163), "Nariz del Diable" (Devil's Nose), P.O. Box 159, Quito, power 150w, issues a very novel green, red and white folder type veri! (\*Amers)...Weak Latin heard on 5.735 at 9:20pm, believed to be HCLPM; had man and woman for announcers and interval was one gong stroke (Larsen)...HC2CW (9.13), "Ondas del Pacifico", owned by A.E. Wilmot, P.O. Box 1166, Guayaquil, issues a white QSL card having a blue stencil drawing. Sked is daily 11am-1, and 7-11pm.

PARAGUAY ZP14 (11.72), "Radio Cultura", Villa Rica, is being heard with powerful signals (no English announcements), from as early as 5:30 to 7:50 pm (\*\*Plotner, Larsen, Moore, White, Weber, CAM)...ZP8, Asuncion, heard on 9.27mc at 7am, with bad c.w. QRM (Radio Guia)

PERU OAX2A, "Radio Rancho Grande", Trujillo, is now broadcasting on 5.942, Tuesdays, Thursdays, Saturdays and Sundays from 7-10pm (\*RBO)...OAX4T (9.56), is heard well mornings from 7 to about 7:30am (Legge)

URUGUAY CXA6, formerly CXA4, is now broadcasting with a new transmitter, on 9.62mc, with loud signals nightly to 9pm; relays CX6 of Montevideo, (\*\*Larsen, Legge, Plotner, Savage)

VENEZUELA Aircraft station on 7.64mc, heard near 7am, mentioning Bogota, Maracaibo, and Maracay (Trezise)...NEW: YVA (5.225), Caracas, heard irregularly in evenings (\*\*RBO)...YV1RH (6.365), "Ondas del Lago", Maracaibo, issues a white QSL cd with red call (Magnuson)...YV1RL, "Radio Popular". Maracaibo, has shifted to 4.855-60mc, where it is heard nightly to 10:30pm; signs-off with "Peanut Vendor" and National Emblem March (RBO, Larsen)....YV3RA, formerly on 5.895, has shifted to 4.99mc (\*Larsen)...YV5RD (or YV5RM) on 5.01mc for a time, has shifted back to 6.163. It signs-off with the march "Unidos para Siempre" (\*Larsen, Olthoff)

### EUROPE

ALBANIA ZAA, "Radio Experimental Tirana", heard irreg. on 6.465mc, from 2:30-3:15pm, signing-off with announcements in French; also reported to be broadcasting on 7.487mc, daily 2-3pm, closing down with national anthem and announcement "Radio Experimental Tirana" (NNRC); heard on approx. 7.8mc, almost daily 11:30am-12:35pm, with Albanian announcements only (White-Nfld); heard on 9.9875, Feb. 8, 9-10am, R5-6. Program was native music, and frequent announcements were made in Italian, French and Spanish, and on the hour in Italian, French, Spanish, Portuguese, German and ENGLISH (\*\*Campbell)...WLL (17.9), WQV (14.8) and WCG (10.38), licensed to contact ZAA temp.

**AZORES** CT2AJ (4), Ponta Delgada, operates Wed/Sat 5-7pm (Deptula)

**BELGIUM** ORK (10.33), Radio Ruyssselede, West Flanders, verifies promptly with a black on white QSL card, having call in red (\*Rudd, Amers)

**CZECHOSLOVAKIA** OLR4A (11.84), is operating 8-11:15pm, and OLR2A (6.01), 1:55-4:50pm (Balbi, Tuffs)...New name for Czecho-Slovak radio, formerly called "Radiojournal" is "Ceskelslovensky rozhlas spol. S.R.O." (RPS)

**ENGLAND** Two NEW 100kW xmtrs. are expected to be put into operation on the new 7.2-7.3mc band, next September, for service to Asia (\*\*Soplop)

**FINLAND** Complete sked for the Lahti xmtrs. follows: Daily: over OFD (9.5), 12:15-5pm; over OFE (11.78), 1:05am-12:05pm; over OIE (15.10), 1:05-4 am and 9am-5pm, and over OIH (17.8), 4-9am; OII (21.55) irreg. (\*\*Willis)

**FRANCE** The SW xmtrs in French W.Africa, Madagascar and F.Indo-China, will all receive substantial increases in power (RPS)...N.A. program from France now being broadcast over TPB?? (7.28), almost nightly 9:30pm-mid, but occasionally on optional freq. 9.62mc (\*\*Pedersen, Soplop, Christie, Tuffs, Balbi)...TPB3, now on new freq. of 17.85mc, 9:30-11am (Oskay)...TPB6 (15.13) broadcasts daily 2-5am, instead of TPB11; English news at 4:15am (\*Tuffs)

**GERMANY** German broadcasting will hereafter be known as "Grossdeutschen Rundfunk" (RPS\*)...Anti-Nazi xmtr. "Deutsche Freiheits Sender", is believed to be off the air following the finding of an unlicensed station installed in a panel body truck (\*\*Amers)...DJE operates Sun. 11:10am-12:25 pm, in parallel with DJB...NEW: DJH (17.84), operates in Sun. allel with DJL, from 12:05 to 11a.m. for Africa (Oskay, Fern, Larsen, Rudd\*\*)...DJR (15.34), is now operating 4:50-10:50pm.

**GREECE** Amateur SV1CA (28.15), is being heard near 10:20am (Reinhard)

**IRELAND** NEW: "Radio Eireann", at Moydrum, near Athlone, is scheduled to start testing on 6.19, 9.55, 11.74, 15.12, and 17.84mc, by Mar.1 (Oskay)

**ITALY** Both 2RO4 (11.81), and 2RO6 (15.3), are heard irreg. outside of regular skeds testing (Oskay, Christie, Larsen, CAM)...2RO9 (9.667), broadcasts 3-6pm (Christie)...New calls, and frequencies for Italian Imperial Short-Wave Center: 2RO1 (6.035), 2RO2 (6.93), 2RO3 (9.635), 2RO4 (11.81), 2RO5 (15.17), 2RO6 (15.3), 2RO7 (17.77), 2RO8 (17.82), 2RO9 (9.67), 2RO10 (15.10), 2RO11 (7.22) (\*\*Eders, Oskay)

**LATVIA** YL2CD (28.08), heard on IDA broadcast Feb.12 (Legge, Soplop)\*

**LITHUANIA** LYR (9.32), Kaunas, operates daily 12:30-1:15, and 11:30am to 1:25pm (\*\*Reichardt)...Amateur LYLCC (14.05), heard at 12:50pm (Messer-Me.)

**MADEIRA** Amateur CT3AN (7.07), heard occasionally (\*\*Soplop-N.Y.)

**NETHERLANDS** Transmissions over PHI (11.73), have been discontinued. For other sked changes see list (Ed)...PCJ issues attractive black, orange and white QSL card picturing its famous rotating antenna towers (\*Byrn, Rudd)

**NORWAY** The new 5kW xmtr. at Lamber seter, near Oslo, is operating abt as follows: over LKQ (11.735), 2-6:40, 10am-3pm; LKV (15.17), 6:40-10am; LLG (9.61), 3-6, 8-9, 11 pm midnight (\*\*Oskay, Christie, E.Radio)...LKQ issues a beautiful card picturing the scenery near Oslo (Magnuson)...LLG, new frequency of 9.61mc is being used experimentally by the Lamber seter xmtr.

**POLAND** SP31 (9.525), heard best from 3 until W2XAF comes on at 3:45 pm; interval is short tune of 17 notes (Soplop, Pedersen)...SP19's QSL card pictures a map of Poland in white against a brown outline map of the world (Evanovsky)...SPD's red/brown card pictures a native playing a bagpipe.

**PORTUGAL** CSW5 (11.04), is heard as early as 11am on Sundays (Amers)... Station announcing as "Radio Portuguesa", heard on 6.67mc, 3-4pm (\*Tuffs).

**SPAIN** Malaga, relays "Radio Nacional" on 7.22mc, to 5:40pm, then shifts to 14.44mc, where it broadcasts to 8:40pm (\*\*CLP)

**SWITZERLAND** The new 25kW xmtr. at Schwarzenburg, which will be opened in May, will operate on 6.056, 9.537, 11.867, 15.306, 17.783 and 21.52mc, Four beam aeriels will direct programs to N.A., S.A., E.Africa and Asia, respect. (Com. Bul\*\*\*)...Address for Radio Nations is "Radio Suisse, Radio Nations", 12, Quai de la Poste, Geneva (Rudd)...HBD (7.885), Berne, heard broadcasting recordings on Sat. to 2pm. Announced as "Ici station Baronne" (Breen-N.Z.)

**U.S.S.R.** New call for xmtr. on 9.6 is reported to be RAL (Christie)...RV96 (15.18), is now operating almost nightly 7-9:15pm in parallel with RKI and RAL (Rudd, Amers, Plotner, Christie)...RV96 (9.52/6.03), is operating at 6am and 9-11pm (Balbi, Oskay)...Other changes given in list-Ed.

**VATICAN CITY** Revised sked: over HVJ: on 15.12, Sun 1-1:30pm, Tu. 10:30 10:45am, Wed. 2:30-3pm; on 11.74, Tu. 8:30-9am; on 9.55 or 9.66mc, Sun. 5-5:30

6

am; 6.19 or 6.03mc, Mon/Wed/Thurs/Sat 2-3:30pm, and Tues/Fri 2-3pm.  
YUGOSLAVIA YUA (6.1), comes on air at 12:43am with national anthem, followed by announcement and stroke of gong at exactly at 12:45am (\*\*Soplop)

### AFRICA

ALGERIA TPZ2 (8.96), heard Mondays 2-2:33pm (\*\*White-Nfld)  
ANGOLA CR6AA QSL gives freqs. as 7.114 & 7.177; also heard on 7.745 (Oskay, Weber)  
BELGIAN CONGO OQ5ZZ (14.285 & 14.35), "The Gatti Exped", is on the air but beaming its sigs on Capetown. W2IXY is the Exped.'s W. contact (\*\*W2IXY)  
BR. SOMALILAND VQ6XT (14.1), "X-Ray, Tokio", heard at 2pm (\*\*Reinhard-N.J.)  
EGYPT SULAX will not QSL SWL reports in the future (Hetzel)  
ETHIOPIA TABA (9.65), Addis Abeba, now operating as follows: Sun. 3:30-3:55am; Daily, 3:55-4:05, 4:15-4:45, 11am-noon and 1-3pm (\*\*Radiocorriere). Is being heard in California 11 to about 11:30am (\*\*Amers)  
KENYA VQ4KTB (14.06), sent his QSL card in approx. two months (CW)  
MOZAMBIQUE CR7AA (6.13), heard 10:30-11am, much better than CR7BH (Amers)  
NIGERIA ZD2H (14.3), 50w, operates almost nightly near 11pm (\*\*Myers)  
S.W. AFRICA NEW: An illegal xtr. in S.W. Africa, is broadcasting to Germany nightly 9-11pm, on either 7.14, 9.09 or 10.71mc. Opening announcement is "Germany Attention! South West Africa Calling. Hallo Berlin". (\*\*RPS)  
SPAN. MOROCCO EA9AI (7.184), 200w, issues a white card with blue call.....  
EA9BJ (7.12), Alcazarquivir, verifies with a typewritten card from the director Gonzalo Gregori (\*\*Myers, Legge)  
TRIPOLITANIA IQN (9.46), Tripoli, verified in 6 weeks from Rome (\*\*Weber)

### ASIA AND OCEANIA

AIRCRAFT Imperial Airways is erecting 5kW xmtrs. at Auckland, N.Z., Sydney, Australia, and on Norfolk Island, off Australian coast (\*\*Forrest)  
BR. NEW GUINEA VK9XX (14.28), 30w, operated by Basil Dale (ex-VK2XX), Rabaul, is heard on the air irregularly; verifies (\*\*NNRC) -ner, Underwood  
BURMA XYZ (new call), 6.007mc, is heard daily from 6:30am on (\*Plot  
CANTON ISLAND (Phoenix Group) KF6DHW (ex-WGCHW), operated by the U.S. Interior Development Exped., Canton Isl.. Phoenix Group, via Honolulu, T.H., a 40 watt xtr., with hand cranked generator, operates nightly on 14.378mc, 10-11 pm, and on 8.1mc, 11pm to as late as 5am. Was worked by member W6TTH at 10:45pm (\*\*W6TTH, Forrest, Soplop, Legge) -doeng, Java (Legge)  
CELEBES PNI (8.775), heard at 6:30am, verified in 3 months via Ban  
CHINA The Central Broadcasting Station, Chungking, is broadcasting on different frequencies and under different calls, about as follows: on 15.19mc, under call XGOX (or XGRV), 8 or 9 to 11pm; on approx. 11.42mc, under call XGRV, 1-1:30, 8-8:35am, and 6:45-7:30pm; on 9.5mc, under call XGOY, 2-3pm. (\*\*Breen, Fern, Forrest, Plotner, Oskay, Balbi)... NEW: XMHA (12.23), "The Call of the Orient", 445 Race Course Road, Shanghai, operated by the Continental Broadcasting Service, is being heard relaying XMHA (600kC), 4-7am; interval signal is chimes, and full announcement is given on half-hour (\*\*Breen, For  
FMS ZGE (6.24), Kuala Lumpur, is off the air (\*\*Koenig) -rest).  
FRENCH INDIA FN1C (14.15), Chandernagore, heard calling F8XT (\*\*Pybus  
F. INDO-CHINA QRA for 100w. xtr. on 11.91, is Radio Hanoi-2, Radio Club D'Indochine, 32 Rue de La Pepiniere, Hanoi, French Indo-China (\*\*Buitekant)  
INDIA VUD4 (15.29), Delhi, is now radiating the nightly 9:30 to 11:30pm broadcast heard formerly over VUD3 (15.16) (Christie, Balbi Willis\*)  
JAPAN JZI (9.53), has replaced JZJ on the 7-7:30am broadcast to  
N.A. (Soplop)... JLG3 (11.705), is broadcasting daily 8-8:30pm (\*\*Allen)  
PALESTINE NEW amateur ZC6AC (approx. 14.25), America-Paris, has been heard calling CQ! (\*\*Pybus, England)... ZC6EC is now on 14.316mc (DeMyer)  
P.I. KZIB (9.49), owned by I. Beck Inc., Crystal Arcade Bldg., P.O. Box 440, Manila, operates evenings from 8:30pm, and mornings 6-9:05am (Some times comes on as early as 1:30am) (\*\*Fern, Breen, Plotner, Oskay, White, Legge)  
PITCAIRN VR6AY temporarily off-air due to failure of battery charger  
 ..A new one is being sent from the United States by G. Lindley (\*\*W2IXY)  
S.S. A new \$70,000 phone xtr. for telephone service between Gt. Britain and Malaya, will be constructed at Kuala Lumpur, FMS (Com. Bul.)  
TURKEY TAP (9.465), Radio Ankara, Turk. Muehlendisler, Birligi, 5 No Lu Oda Yeni-Sehei, Ankara, operates daily 11:30am-4 or 5pm (Sat. from 10:30am). Woman gives the announcement in English at 11:30am. TAQ (15.195), operates daily 5:30-7am (\*\*NRC, Reinhard, White, Christie)

# SHORT-WAVE BROADCASTING STATIONS

SYMBOLS: N- NEW stations; F- Frequency change; S- Change in sked; B- Frequency calibrations according to Oxrieder-IDA Frequency Bureau; J- Stations persisting in hopping about; V- Varying in frequency; Y- Does not verify; X- Does not verify direct; U- Frequency in doubt; \* See short-wave notes.

| DIAL METERS | MEGS.  | CALL  | STATION                 | TIME  | EASTERN STANDARD |
|-------------|--------|-------|-------------------------|---|------------------|
| 11.30N      | 26.55  | W2XQO | New York City, N.Y.     | 11am-9pm.   |                  |
| 11.32N      | 26.50  | W9XTA | Harrisburg, Illinois    | 2-4pm.  |                  |
| 11.34N      | 26.45  | W9XA  | Kansas City, Missouri   | 10am-1, 3-7pm.  |                  |
| 11.36N      | 26.40  | W9XAZ | Milwaukee, Wisconsin    | 1pm-midnight.   |                  |
| 11.41N      | 26.30  | W2XJI | New York City, N.Y.     | Noon-6pm.   | 11M              |
| 11.47N      | 26.15  | W9XUP | St. Paul, Minnesota     | 8am-1am.  |                  |
| 11.47N      | 26.15  | W4XA  | Nashville, Tenn.        |   |                  |
| 11.50N      | 26.10  | W9XJL | Superior, Wisconsin     | 10am-8pm.   |                  |
| 11.52N      | 26.05  | W9XTC | Minneapolis, Minn.      | 9am-9pm.  |                  |
| 11.56N      | 25.95  | W8XNU | Cincinnati, Ohio        | 7am-1am.  |                  |
| 11.56N      | 25.95  | W6XKG | Los Angeles, Calif.     | 24 hours daily (8am-11:30am)                                  |                  |
| 13.91S      | 21.57  | W2XE  | New York City, N.Y.     | 7:30am-10am; Sat 8am-Noon; Sun.                               |                  |
| 13.91S      | 21.565 | DJJ   | Zeesen, Germany         | Not in use at present.  |                  |
| 13.93       | 21.54  | W8XK  | Pittsburgh, Pa.         | 6:45-9am.   | 13M              |
| 13.93Y      | 21.53  | GSJ   | Daventry, England       | 5:45-8:50am to West Indies.                                   |                  |
| 13.94N      | 21.52  | W3XAU | Philadelphia, Penna.    | 1-2:30pm.   |                  |
| 13.96S      | 21.50  | W2XAD | Schenectady, N.Y.       | 8-10:15am.  | *                |
| 13.97Y      | 21.47  | GSH   | Daventry, England       | 5:45-8:50, 9am-noon to Africa.                                | *                |
| 13.98N      | 21.46  | WLXAL | Boston, Mass.           | Tues/Thurs/Sat. 11am-noon.                                    | *                |
| 13.99       | 21.45  | DJS   | Zeesen, Germany         | 12:05-7:50am to Asia.   |                  |
| 15.77       | 19.02  | HS6PJ | Bangkok, Siam           | Mondays 8-10am.   |                  |
| 16.81F      | 17.85  | TPB3  | Paris, France           | 9:30-11am.  | *                |
| 16.82NS     | 17.845 | DJH   | Zeesen, Germany         | 12:05-7:50, 8-9, 9-11am.                                      | *                |
| 16.84       | 17.82  | 2R08  | Rome, Italy             | 5-7:30am.   | 16M              |
| 15.85YS     | 17.81  | GSV   | Daventry, England       | 5:45-8:50am, 1:30-4pm.  |                  |
| 16.85N      | 17.80  | OIH   | Lahti, Finland          | 4-9am.  |                  |
| 16.86YF     | 17.79  | GSG   | Daventry, England       | 5:45-8:50, 9am-noon, 12:20-4pm.                               |                  |
| 16.87S      | 17.78  | W3XL  | New York City, N.Y.     | 9am-4pm, to Europe, 4-11pm to SA                              |                  |
| 16.88S      | 17.77  | PHI2  | Huizen, Holland         | Sun 6:25-9:45am, Mon/Thurs 7:40-9am, Tu/Wd/Fr/Sat 7:40-9:10am |                  |
| 16.89S      | 17.76  | DJE   | Zeesen, Germany         | 12:05-11am, 4:50-9pm, Sun-11:10                               |                  |
| 19.52       | 15.37  | HAS3  | Budapest, Hungary       | Sundays 9-10am. -am-12:25pm.                                  |                  |
| 19.56S      | 15.34  | DJR   | Zeesen, Germany         | 4:50-10:50pm  | *                |
| 19.57S      | 15.33  | W2XAD | Schenectady, N.Y.       | 10:30am-6pm.  | *                |
| 19.57S      | 15.33  | W6XBE | San Francisco, Calif.   | 7-10am to Asia, 6-10pm to S.A.                                |                  |
| 19.58       | 15.32  | OZH   | Skamlebak, Denmark      | Sundays 8am-1:30pm.   |                  |
| 19.60Y      | 15.31  | GSP   | Daventry, England       | 1:45-4pm to Canada.   |                  |
| 19.61       | 15.30  | 2R06  | Rome, Italy             | 10am-2:30pm & irreg.  | *                |
| 19.62       | 15.29  | LRU   | Buenos Aires, Argentina | 7-9am. (11:30pm)  |                  |
| 19.62N      | 15.29  | VUD4  | Delhi, India            | 1:30-3:45, 7:30am-12:30, 9:30-                                |                  |
| 19.63       | 15.28  | DJQ   | Zeesen, Germany         | 12:05-11am, 4:50-10:50pm; Sun-                                |                  |
| 19.64S      | 15.27  | HI3X  | Trujillo City, D.R.     | Sundays irreg. (11:10am-12:25pm)                              |                  |
| 19.64S      | 15.27  | W2XE  | New York City, N.Y.     | 1-3pm, Sat 12:30-2:30pm, Sun-                                 |                  |
| 19.64S      | 15.27  | W3XAU | Philadelphia, Pa.       | 3-7pm * (Noon-2:30pm.)  |                  |
| 19.66YS     | 15.26  | GSI   | Daventry, England       | 1:30-3:45am, 12:30-1:30pm.                                    |                  |
| 19.67S      | 15.25  | WLXAL | Boston, Mass.           | Irreg.  |                  |
| 19.68       | 15.243 | TPA2  | Pontoise, France        | 6-11am to Asia.   | 19M              |
| 19.70       | 15.23  | HS6PJ | Bangkok, Siam           | Mondays 8-10am, (or 19.02mc.)                                 |                  |
| 19.71       | 15.22  | PCJ2  | Huizen, Holland         | Tues. 3-4:30am, Wed. 9:30-11:30am                             |                  |
| 17.72S      | 15.21  | W8XK  | Pittsburgh, Pa.         | 9am-2pm.  |                  |
| 19.74S      | 15.20  | DJB   | Zeesen, Germany         | 12:05-11am, 4:50-10:50pm; Sun-                                |                  |
| 19.74S      | 15.195 | TAQ   | Ankara, Turkey          | 5:30-7am. (11:10am-12:25pm)                                   |                  |
| 19.75       | 15.19  | OIE   | Lahti, Finland          | 1:05-4, 9am-5pm.  | *                |
| 19.76N      | 15.185 | XGOX  | CHUNGKING, CHINA        | 8, or 9-11pm.   | *                |
| 19.765      | 15.18  | RV96  | Moscow, U.S.S.R.        | 3-4am, 7-9:15pm & irreg.                                      |                  |
| 19.76YS     | 15.18  | GSO   | Daventry, England       | 1:30-3:45am, 4:15-6, 6:20-8:30pm                              |                  |
| 19.78       | 15.17  | TGWA  | Guatemala, Guatemala    | 12:45-1:45pm; Sun 12:45-5:15pm.                               |                  |
| 19.78CS     | 15.17  | LKV   | Oslo, Norway            | 6:40-10am   |                  |

|         |        |        |                           |  |
|---------|--------|--------|---------------------------|--|
| 19.79   | 15.16  | JZK    | Tokio, Japan              | 8-8:30pm to Eastern N.A.   |
| 19.79   | 15.16  | OLR5C  | Prague, Czechoslovakia    | Irreg.   |
| 19.80   | 15.155 | SM5SX  | Stockholm, Sweden         | 11am-5pm; Sundays 9am-5pm.   |
| 19.80   | 15.15  | YDC    | Bandoeng, Java            | 4:30-10:30am; 6-7:30pm ex.Sat;<br>10:30pm-2am; Sat.7:30pm-2am.<br>5:45-8:50, 9am-noon.                                 |
| 19.82YS | 15.14  | GSF    | Daventry, England         | 2-5am, 7-9:15pm to S.A.  |
| 19.83S  | 15.13  | TPB6   | Essarts, France           | Sundays 11am-12:30pm.  |
| 19.83S  | 15.13  | WLXAL  | Boston, Mass.             | 6-9pm. (Wed.2:30-3pm.  |
| 19.84   | 15.12  | SP19   | Warsaw, Poland            | Sun.1-1:30pm, Tu.10:30-10:45am,<br>Will test soon on 17.84, 15.12,<br>11.74, 9.55 and 6.19mcs.*                        |
| 19.84S  | 15.12  | HVJ    | Vatican City, Italy       | 12:05-2, 8-9, 10:35am-4:25pm.  |
| 19.84N  | 15.12  |        | DUBLIN, IRELAND           | Heard testing. *   |
| 19.85   | 15.11  | DJL    | Zeesen, Germany           | 7-9:15pm, in English. (-pm   |
| 19.87N  | 15.10  | CB1510 | VALPARAISO, CHILE         | Fri 9-10pm, Sat.1-1:30am, 9-9:30   |
| 19.89   | 15.083 | RKI    | Moscow, U.S.S.R.          | Sun.10:45-11:30am, Mon.4-4:15am<br>5:40-8:40pm. *  |
| 20.11S  | 14.92  | KQH    | Kahuku, Hawaii            | 10-10:30pm except Mondays.   |
| 20.64   | 14.535 | HBJ    | Geneva, Switzerland       | 5:15-6:15, 6:30-7:30, 9-10pm.  |
| 20.78   | 14.44  |        | Malaga, Spain             | 6-9pm.   |
| 20.79   | 14.43  | HC1JB  | Quito, Ecuador            | 7:10-10:10pm.  |
| 21.43   | 13.997 | EA9AH  | Tetuan, Span. Morocco     | 8-10:30pm ex. Mondays.   |
| 22.00   | 13.635 | SPW    | Warsaw, Poland            | Sundays 1:30-2:30pm.   |
| 24.03   | 12.486 | HIN    | Trujillo City, D.R.       | 8am-midnight; Sun noon-mid. *  |
| 24.08   | 12.46  | HCJB   | Quito, Ecuador            | 4-7am approx. *  |
| 24.53   | 12.235 | TFJ    | Reykjavik, Iceland        |  |
| 24.53N  | 12.23  | COCE   | HAVANA, CUBA              |  |
| 24.53   | 12.23  | XMHA   | SHANGHAI, CHINA           |  |
| 25.00S  | 12.00  | RNE    | Moscow, U.S.S.R.          | Sun.6-10am; wkdays 6-6:30, 10-10:30am, 8:30 or 9-10pm.<br>4-4:30, 8-10am, 1-1:50, 4-7pm; Tu/<br>7-11pm. (Fri 8:30-10pm |
| 25.02   | 11.99  | RR6    | Vitoria, Spain            | Tues/Fri 8:10-10:10pm.   |
| 25.06F  | 11.97  | CB1180 | Santiago, Chile           | 10am-noon, 4-10pm.   |
| 25.06   | 11.97  | HI2X   | Trujillo City, D.R.       | 3:45-4:15, 7-9:30am. *   |
| 25.13   | 11.94  | TI2XD  | San Jose, Costa Rica      | 10am-1pm, and 7-10pm.  |
| 25.19   | 11.91  |        | Hanoi, F. Indo-China      | 7:30pm-mid; Sun 12:30-2pm. *   |
| 25.19   | 11.91  | CD1190 | Valdivia, Chile           | 2-5, 11:15am-6pm.  |
| 25.21   | 11.90  | XEWI   | Mexico City, D.F.         | 3:30am-3am.  |
| 25.23   | 11.885 | TPA3   | Pontoise, France          | 2-11pm.  |
| 25.25   | 11.88  | VLR3   | Melbourne, Australia      | 6:30am-noon. (12:20-3pm.   |
| 25.27S  | 11.87  | W8XK   | Pittsburgh, Pa.           | 1:30-3:45, 5:45-8:50, 9am-noon,<br>Sat. 6-11pm & irreg.  |
| 25.27N  | 11.87  | VUM2   | Madras, India             | 8-11:15pm irreg. (6:30-11p   |
| 25.30YS | 11.86  | GSE    | Daventry, England         | 3-30-6, 6:30-10pm; Sat/Sun 3-6,<br>9-11am, 8-10:30pm or later.   |
| 25.32   | 11.85  | CB1185 | Santiago, Chile           | 4:40-8:45, 10am-12:05pm & irreg.   |
| 25.34S  | 11.84  | OLR4A  | Prague, Czechoslovakia    | 4:50-10:50pm to N.A.   |
| 25.36   | 11.83  | W2XE   | New York City, N.Y.       | 6pm-midnight.  |
| 25.37   | 11.826 | XEBR   | Hermosillo, Mexico        | 12:30-1:30, 8-9:30am, 2:30-4,<br>3:15-6:30pm; Sat 1:45-6:30pm; Su  |
| 25.40   | 11.81  | 2RO4   | Rome, Italy               | 6-10pm. (-1-6:10pm   |
| 25.42   | 11.801 | DJZ    | Vienna, Germany           | 1:05am-12:05pm.  |
| 25.42   | 11.80  | COGF   | Matanzas, Cuba            | 11:30am-4:25, 4:50-10:50pm.  |
| 25.42S  | 11.80  | JZJ    | Tokio, Japan              | Noon-3:30pm.   |
| 25.45S  | 11.79  | WLXAL  | Boston, Mass.             | 1:30-3:45, 9am-noon, 12:30-6,<br>6-9pm (6:20-8:30, 9:20-11:20pm  |
| 25.47   | 11.78  | HP5G   | Panama City, Panama       | Tuesday 8:30-9am. *  |
| 25.47   | 11.78  | OFE    | Lahti, Finland            | 8am-1am.   |
| 25.49   | 11.77  | DJD    | Zeesen, Germany           | 2-6:40, 10am-3pm. *  |
| 25.50   | 11.76  | XETA   | Monterrey, Mexico         | 9:15-11:30pm ex.Sat/Sun.   |
| 25.53YS | 11.75  | GSD    | Daventry, England         | Sat.6pm-Sun.4am.   |
| 25.55   | 11.74  | SP25   | Warsaw, Poland            | 5:30-7:50pm approx. *  |
| 25.55S  | 11.74  | HVJ    | Vatican City, Italy       | 12-1, 4:30-6:30, 9-11am, noon-4pm  |
| 25.55   | 11.74  | COCX   | Havana, Cuba              | -Sun.4-7, 10am-2pm.  |
| 25.57S  | 11.735 | LKQ    | Oslo, Norway              | 7-9:15, 9:30pm-mid. to N.A.  |
| 25.58   | 11.73  | WLXAL  | Boston, Mass.             | 1-2:30pm. *  |
| 25.60   | 11.72  | CJRX   | Winnipeg, Canada          |  |
| 25.60S  | 11.72  | ZP14   | Villa Rica, Paraguay      |  |
| 25.60   | 11.718 | CR7BH  | Laurenco, Mozambique      |  |
| 25.61   | 11.713 | TPA4   | Pontoise, France          |  |
| 25.62   | 11.71  | YSM    | San Salvador, El Salvador |  |

|         |        |         |                            |   |             |
|---------|--------|---------|----------------------------|---|-------------|
| 25.62   | 11.71  |         | Saigon, F. Indo-China      | 7:30-9:15am.  | 9           |
| 25.63   | 11.705 | SBP     | Motala, Sweden             | 1-4:15pm; Sun 1:15-4:15pm; Wed &  |             |
| 25.63   | 11.705 | JLG3    | Tokio, Japan               | 8-8:30pm.   | (pm)        |
| 25.64   | 11.70  | HP5A    | Panama City, Panama        | 7-8:30am, 10am-1, 5-10pm; Su 6-10   |             |
| 25.64   | 11.70  | CB1170  | Santiago, Chile            | 10am-2, 3:30-11pm.  | *           |
| 25.74   | 11.67  | IQY     | Rome, Italy                | 5-5:15am, 12:10-1, 3-3:30pm.  |             |
| 26.01   | 11.535 | SPD     | Warsaw, Poland             | 6-9pm.  |             |
| 26.27VS | 11.42  | XGRV    | Chungking, China           | 1-1:30am, 8-8:35am, 6:45-7:30pm.  |             |
| 26.32   | 11.402 | HBO     | Geneva, Switzerland        | Sun. 1:45-2:30pm; Mon 3:30-3:45a  |             |
| 27.17S  | 11.04  | CSW5    | Lisbon, Portugal           | Noon-5:30pm; Sun. 11am-5:30pm   |             |
| 27.27   | 11.00  | PLP     | Bandoeng, Java             | 4:30-10:30am, 6-7:30, 10:30pm-2a  |             |
| 27.40   | 10.95  |         | Tananarive, Madagascar     | 12:30-12:45, 10-11am; 2:30-4am  |             |
| 28.14   | 10.66  | JVN     | Tokio, Japan               | 1:50-7:40am.  | (ex. Sun)   |
| 28.30   | 10.60  | ZIK2    | Belize, Br. Honduras       | Tu/Th/Sat 1:30-2, 8:30-9pm.   |             |
| 28.48   | 10.535 | JIB     | Taihoku, Taiwan            | Relays JFAK 9-9:55am.   |             |
| 28.55V  | 10.40  | YSP     | San Salvador, El Salvador  | 1-3, 6:30-11pm.   |             |
| 28.96   | 10.36  | EAJ43   | Tenerife, Canarias         | 3-4:30, 5-7, 7:45-8:45, 9-10pm.   |             |
| 29.04   | 10.33  | ORK     | Ruysselede, Belgium        | 1:30-3pm to Belgian Congo (ex S   |             |
| 29.24   | 10.26  | PMN     | Bandoeng, Java             | 4:30-10:30am, 6-7, 10:30pm-2am -  |             |
| 29.35   | 10.22  | PSH     | Rio de Janeiro, Brazil     | 6-7pm; Mondays 8-8:30pm.  |             |
| 29.85   | 10.05  | TIEM    | San Jose, C.R.             | 4:30-8pm.   | (irreg)     |
| 30.04N  | 9.9875 | ZAA     | TIRANA, ALBANIA            | Heard 9-10am and in evenings -  |             |
| 30.05V  | 9.985  | COBC    | Havana, Cuba               | 6:55am-1am.   |             |
| 30.23   | 9.925  | JDY     | Darien, Manchoukou         | 7-8am, or later. (8:30-9pm.   |             |
| 30.45V  | 9.855  | EAQ     | Madrid, Spain              | 3:45-4:05am, 4:45-5:05, 7:30-8,   |             |
| 30.52   | 9.83   | IRF     | Rome, Italy                | 12:40-1, 1:37-3:30, 6-9pm.  |             |
| 30.58J  | 9.81   | COCM    | Havana, Cuba               | 8am-12:30am; irreg. to 2am.   |             |
| 30.71F  | 9.77   | HH3W    | Port-au-Prince, Haiti      | 1-3, 7-9pm.   | *           |
| 30.82   | 9.735  | CSW7    | Lisbon, Portugal           | 5:45-9pm to N.A.  |             |
| 30.83F  | 9.73   | CB970   | Valpariso, Chile           | 6:30-11:30pm, or midnight.  |             |
| 30.86   | 9.72   | ZRD     | Durban, So. Africa         | 11:45pm-12:45am, 3:30-7:30, 9-11:45am; Sun 5:30-7, 9-11:30am.   |             |
| 30.90N  | 9.71   | HKF     | BOGOTA, COLOMBIA           | Heard almost nightly to 11pm*   |             |
| 30.92   | 9.705  |         | Fort-de-France, Martinique | 6-8:10, or 9:30pm.  |             |
| 30.95   | 9.692  | TI4NRH  | Heredia, Costa Rica        | Tu/Th/Sat 9-10pm; Sun. 7-8am.   |             |
| 30.96   | 9.69   | ZHP     | Singapore, S.S.            | 4:40-9:40am; Wed/Sat 12:40-1:40 am; Sun 5:40-9:40am. (Sa/Su 7-9p Mon to Th. 6-9pm; Fri 4-9pm; -10-11:30pm ex. Sun; Sun 7-10:45p |             |
| 30.96   | 9.69   | LRA     | Buenos Aires,              |   |             |
| 30.98   | 9.685  | TGWA    | Guatemala, Guatemala       |   |             |
| 31.01S  | 9.675  | DJX     | Vienna, Germany            | 10:40am-4:25pm to Africa.   |             |
| 31.02   | 9.67   | W3XAL   | New York City, N.Y.        | 5pm-1am.  |             |
| 31.03S  | 9.667  | 2RO9    | Rome, Italy                | 3-6pm.  |             |
| 31.06   | 9.66   | LRX     | Buenos Aires, Argen.       | 9:30am-10pm; Sat. to midnight.  |             |
| 31.09   | 9.65   | CS2WA   | Lisbon, Portugal           | Tues/Thurs/Sat 4-7pm.   |             |
| 31.09   | 9.65   | W2XE    | New York City, N.Y.        | 10:30-11:30pm ex. Sat/Sun.  |             |
| 31.09S  | 9.65   | IABA    | Addis Abeba, I.E.A.        | 3:55-4:05, 4:15-4:45, 11am-noon, 1-3pm; Sun. 3:30-3:55am.   | *           |
| 31.12   | 9.64   | CXA8    | Colonia, Uruguay           | 5am-10:45pm, or 11pm; Sat. to lam   |             |
| 31.12   | 9.64   | ZP8     | Asuncion, Paraguay         | 6:30-8pm. (Does anyone hear?)   |             |
| 31.13   | 9.636  | JFO     | Taihoku, Taiwan            | 4-10:30am.  |             |
| 31.15   | 9.63   | 2RO3    | Rome, Italy                | 12:10-9pm.  |             |
| 31.19N  | 9.62   | CXA6    | MONTEVIDEO, URUGUAY        | Relays CX6 nightly to 9pm.  | *           |
| 31.19N  | 9.62   |         | Essarts, France            | 9:30pm-midnight irreg.  | (pm)        |
| 31.20   | 9.618  | HJLABP  | Cartagena, Colombia        | Weekdays 9am-1:30pm, 4:30-10:15   |             |
| 31.22   | 9.61   | ZRK     | Klipheuvell, S. Africa     | 11:45pm-12:45am ex. Sa; 3:20-720  |             |
| 31.22N  | 9.61   | LLG     | OSLO, NORWAY               | 3-6, 8-9, 11pm-mid (9-11:45am   |             |
| 31.24   | 9.604  | HP5J    | Panama City, Panama        | Noon-1:30pm, 6:30-10:30pm.  |             |
| 31.25   | 9.60   | RAN (L) | Moscow, U.S.S.R.           | 6-7, 7-9:10, 9:15-10pm.   |             |
| 31.25S  | 9.60   | CB960   | Santiago, Chile            | 8-11:30pm.  |             |
| 31.28   | 9.59   | PCJ     | Huizen, Holland            | Su 2-3, 7:15-8:15, 8:25-9:25pm, Tu 1:45-3:30, 7:15-10:30pm; Wed. 7:15-8:40pm, Fri. 8-9pm.                                       |             |
| 31.28   | 9.59   | VK6ME   | Perth, W. Australia        | Weekdays 6-8am.   |             |
| 31.28   | 9.59   | VK2ME   | Sydney, Australia          | Sundays 1-3, 5-9, 9:30-11:30am.   |             |
| 31.28   | 9.59   | W3XAU   | Philadelphia, Pa.          | Mon/Thus 7:30-11:30pm, Sat 7:30   | (-10:45pm.) |

|         |       |             |                           |  |
|---------|-------|-------------|---------------------------|--|
| 31.28   | 9.59  | VUD2        | Delhi, India              | 1:30-3:45, 7:30am-12:30pm, 9:30-   |
| 31.32Y  | 9.58  | GSC         | Daventry, England         | 12:17-1:15, 4:15-6, - (11:30pm<br>6:20-8:30, 9:20-11:20pm.                   |
| 31.32   | 9.58  | VLR         | Melbourne, Australia      | Weekdays 3:15-8:30am.  |
| 31.35   | 9.57  | WLXK        | Springfield, Mass.        | 6am-1am.   |
| 31.35   | 9.57  | KZRM        | Manila, Philippines       | Weekdays 4:30-6pm; Mon. to Fri.<br>5-9pm; Sat. 5-10am; Sun 4-10am.<br>4-9am. |
| 31.38   | 9.56  | XGAP        | Peking, China             | 7-8, 11:30am-1:30, 4-6:15pm. *   |
| 31.38   | 9.56  | OAX4T       | Lima, Peru                | 6:30-10:50pm to C.A.   |
| 31.38S  | 9.56  | DJA         | Zeesen, Germany           | 4:30-10:30am; 6-7:30, 10:30pm-<br>2am ex.Sat; Sat 7:30pm-2am.                |
| 31.40   | 9.55  | YDB         | Soerabaja, Java           | 9:30-10:30pm, Mid-3:30, 4:30-7,<br>Sundays 5-5:30am. (12:30pm                |
| 31.40S  | 9.55  | VUB2        | Bombay, India             | 11:15am-7pm; 9:30pm-mid.irreg.*  |
| 31.41   | 9.55  | or 9.66 HVJ | Vatican City              | 6:15-9pm to S.A. *   |
| 31.41S  | 9.55  | TPB11       | Essarts, France           | 7:30pm-midnight.   |
| 31.41S  | 9.55  | W2XAD       | Schenectady, N.Y.         | 12:05-11am, 4:50-10:50pm.  |
| 31.41X  | 9.55  | XEFT        | Veracruz, Mexico          | 5:30-7am ex.Sundays.   |
| 31.45   | 9.54  | DJN         | Zeesen, Germany           | 7-7:30am, 4:30-5:30pm.   |
| 31.46   | 9.538 | VPD2        | Suva, Fiji's              | Schwarzenburg, Switzerland 1-2, 6:45-7:45, 8-9pm.                            |
| 31.47S  | 9.535 | JZI         | Tokio, Japan              | 4pm-midnight.  |
| 31.47   | 9.535 |             |                           | 2-4, 6:30am-noon.  |
| 31.48   | 9.53  | W2XAF       | Schenectady, N.Y.         | Noon-4:30, 8-11:30pm.  |
| 31.48S  | 9.528 | VUC2        | Calcutta, India           | 5-10am, 11:30pm-1:15am, Su 5-930<br>(am                                      |
| 31.50   | 9.526 | XEDQ        | Guadalajara, Mexico       | 5-7:30am. *  |
| 31.50   | 9.525 | ZBW3        | Hong Kong, Hong Kong      | 3-5:30pm.  |
| 31.50   | 9.525 | ZRH         | Pretoria, So. Africa      | 8-9:30, 9:30-11pm.   |
| 31.50S  | 9.525 | LKC         | Oslo, Norway              | 1-3, 4-7pm & irreg. (11:20pm   |
| 31.50F  | 9.525 | SP31        | Warsaw, Poland            | 1:30-4, 4:15-6, 6:20-8:30, 9:20-<br>Thurs. 8-10am.                           |
| 31.51   | 9.52  | OZF         | Skamlebak, Denmark        | 12:30-12:45am, 10-11am 2:30-4<br>8am-12:30am. (am ex.Sun.                    |
| 31.51S  | 9.52  | RV96        | Moscow, U.S.S.R.          | Rio de Janeiro, Brazil 4:45-5:55pm ex.Sun.                                   |
| 31.55   | 9.51  | GSB         | Daventry, England         | 12:15-5pm.   |
| 31.55   | 9.51  | HS8PJ       | Bangkok, Siam             | 4-7am except Sundays.  |
| 31.55   | 9.51  |             | Tananarive, Madagascar    | 2-3pm; 6:15-7am. *   |
| 31.57   | 9.503 | XEWW        | Mexico D.F.               | 6-9:05am & irreg. *  |
| 31.58   | 9.501 | PRF5        | Rio de Janeiro, Brazil    | 3:40-4, 7:30-8, 8:40-9pm. (4pm.*   |
| 31.58   | 9.50  | OFD         | Lahti, Finland            | 11:30am-4, or 5pm; Sat 10:30am-<br>8:15-10:15pm ex.Sundays.                  |
| 31.58   | 9.50  | VK3ME       | Melbourne, Australia      | 8am-11pm; Sun. 8am-10pm.   |
| 31.58N  | 9.50  | XGOY        | CHUNGKING, CHINA          | 7-11:30pm.   |
| 31.61V  | 9.49  | KZIB        | Manila, P.I.              | 8-11pm Saturdays. (8:15pm  |
| 31.62   | 9.488 | EAR         | Madrid, Spain             | Sun. 7-7:45, 8-8:45pm; Mon 6:50-<br>Noon-3, and 5pm-midnight.                |
| 31.70S  | 9.465 | TAP         | Ankara, Turkey            | 12:30-1:15, 11:30am-1:25pm *   |
| 31.77   | 9.445 | HCODA       | Guayaquil, Ecuador        | 6:40-8:40, 11:40am-2:10, 3:40-<br>8am-11:30pm. (4:40pm                       |
| 31.79   | 9.436 | COCH        | Havana, Cuba              | Mon/Wed/Sat 9-10:30pm. *   |
| 31.95J  | 9.39  | OAX5C       | Ica, Peru                 | 11am-1, 7-11pm. *  |
| 32.07V  | 9.354 | HCL1ETC     | Quito, Ecuador            | 7-8pm; Sat. 6-7pm.   |
| 32.11.  | 9.345 | HBL         | Geneva, Switzerland       | Noon-12:15am, or later.  |
| 32.12   | 9.34  | OAX4J       | Lima, Peru                | 6:36-8:36pm; Su 10:36am-12:36pm  |
| 32.19   | 9.32  | LYR         | Kaunas, Lithuania         | 7:45am-1:15am.   |
| 32.28X  | 9.295 | HI2G        | Trujillo City, D.R.       | 5-6, 9:30-10:30pm.   |
| 32.61V  | 9.20  | COB3        | Havana, Cuba              | 6:55am-1am. (10p   |
| 32.68V  | 9.18  | HCL1GQ      | Quito, Ecuador            | 11:30am-12:30pm; 3:30-6, 8-9, or   |
| 32.86JS | 9.13  | HC2CW       | Guayaquil, Ecuador        | Weekdays 7-10pm.   |
| 32.88   | 9.125 | HAT4        | Budapest, Hungary         | 12:45-2:15, 6:45-10:15pm.  |
| 32.97V  | 9.10  | COCA        | Havana, Cuba              | 8:15-10:30am, 4-7pm. (pm-2am.  |
| 33.00   | 9.091 | PJCL        | Curacao, D.W.I.           | Weekdays 10:30pm-2am; Sun 7:30   |
| 33.24   | 9.025 | COB3        | Havana, Cuba              | 7-10:30pm.   |
| 33.48   | 8.96  | COKG        | Santiago, Cuba            | 7-10:30pm.   |
| 33.98   | 8.83  | COCQ        | Havana, Cuba              | 7-10:30pm.   |
| 34.54V  | 8.685 | COJK        | Camaguey, Cuba            | 7-10:30pm.   |
| 34.67V  | 8.652 | HJ4DAU      | Medellin, Colombia        | 7-10:30pm.   |
| 34.97   | 8.58  | YNPR        | Managua, Nicaragua        | 7-10:30pm.   |
| 35.02   | 8.572 |             | Bucharest, Roumania       | 7-10:30pm.   |
| 37.08   | 8.09  | YDX         | Medan, Sumatra            | 7-10:30pm.   |
| 38.00   | 7.894 | YSD         | San Salvador, El Salvador | 7-10:30pm.   |
| 38.12   | 7.87  | HCL1RB      | Quito, Ecuador            | 8:30-11:30pm.  |

|         |       |                |                             |  |
|---------|-------|----------------|-----------------------------|--|
| 38.20   | 7.854 | HC2JSB         | Guayaquil, Ecuador          | llam-2, 4-11pm.  |
| 38.46U  | 7.80  | ZAA            | Tirana, Albania             | 11:30am-12:35pm irreg. *                                   |
| 38.48   | 7.797 | HBP            | Geneva, Switzerland         | Mondays 6:30-8:15pm.                                       |
| 39.16   | 7.66  |                | "Radio Nacional de Espana," | 4-4:30, 9-10am, 1:30-4:30<br>5:30-8:45, 8-10pm.            |
| 39.39U  | 7.614 | CR6AA          | Lobito, Angola              | Wed/Sat 2:45-4:30pm.                                       |
| 39.89S  | 7.52  | KKH            | Kahuku, Hawaii              | Fri 9-10pm, Sat 1-1:30, 9-9:30pm                           |
| 39.89   | 7.52  | RKI            | Moscow, U.S.S.R.            | Weekdays 2:30-3pm, in Czech.                               |
| 39.95   | 7.51  | JVP            | Tokio, Japan                | 8-9:30am.  |
| 40.05   | 7.49  | EAJ43          | Tenerife, Canarias          | 8-9pm & irreg.   |
| 40.27   | 7.45  | TI2RS          | San Jose, Costa Rica        | 7-11pm.  |
| 40.32F  | 7.44  | FG8AH          | Pointe-A-Pitre, Guadeloupe, | 6-7:10pm. *  |
| 40.65   | 7.38  | XECR           | Mexico D.F.                 | Sundays 7-8pm.   |
| 40.79   | 7.353 | FET5           | Burgos, Spain               | 5:45-7:15, or 7:30pm.                                      |
| 41.01S  | 7.31  | VIG            | Port Moresby, Papua         | Apr. 1/15, 3-5am.  |
| 41.18   | 7.285 | JLG            | Tokio, Japan                | 2:30-4pm to Europe.  |
| 41.18N  | 7.28  |                | Essarts, France             | 9:30pm - midnight. *                                       |
| 41.67N  | 7.20  | YIJG           | BAGHDAD, IRAQ               | 8:30am-4pm.  |
| 41.80   | 7.177 | CR6AA          | Lobito, Angola              | Wed/Sat 2:45-4:30pm. *                                     |
| 42.09   | 7.128 | YN3DG          | Leon, Nicaragua             | 2-2:30, 8:30-9:30pm ex. Sunday                             |
| 42.19N  | 7.11  | VP2SA          | EDINBORO, ST. VINCENT       | 4:30-6pm irreg.  |
| 42.25   | 7.10  | FO8AA          | Papeete, Tahiti             | Tues/Fri 11pm-12:30am.                                     |
| 42.80   | 7.01  | XGSA, or XPSA, | Kweiyang, China             | 5:30, or 6-11am, 6:30-7:30pm.                              |
| 43.10   | 6.96  | 2ZB            | Wellington, N.Z.            | Mid.-7am.  |
| 43.60   | 6.88  | XOJD           | Hankow, China               | 6-8am.   |
| 44.12   | 6.80  | PZH            | Paramaribo, D. Guiana       | Mon/Wed/Fri 5:41-8:41pm.                                   |
| 44.25   | 6.78  | HIH            | San Pedro, D.R.             | 7:40-8:40pm; Sun 5:20-6:40pm.                              |
| 44.38   | 6.76  | HI7P           | Trujillo City, D.R.         | 7:10-8:40pm; Sun 9:40-10:40pm.                             |
| 44.38   | 6.76  | YNRF           | Managua, Nicaragua          | 6:45-10:15pm, or 11pm.                                     |
| 44.51   | 6.74  | HCLTQ          | Quito, Ecuador              | Sundays 5-7pm.   |
| 44.58   | 6.73  | HI3C           | La Romana, D.R.             | To 8:20pm.   |
| 44.60   | 6.727 | PMH            | Bandoeng, Java              | 4:30-11am; Sun 8:30pm-1:30am.                              |
| 44.81S  | 6.695 | TIEP           | San Jose, C.R.              | 7pm-midnight.  |
| 44.95   | 6.676 | HBO            | Geneva, Switzerland         | Sun. 1:45-2:30, 2:30-2:45pm.                               |
| 45.05   | 6.66  | HI5G           | Trujillo City, D.R.         | To 8:40pm.   |
| 45.22   | 6.635 | HC2RL          | Guayaquil, Ecuador          | Sun. 5:45-7:45, & Tues. 9:15-11:15                         |
| 45.25V  | 6.63  | HIT            | Trujillo City, D.R.         | 12:10-1:40, 4:40-8:40pm.                                   |
| 45.29B  | 6.625 | PRADO          | Riobamba, Ecuador           | Thursdays 9-11pm.  |
| 45.39V  | 6.61  | YNLG           | Managua, Nicaragua          | 1:30-2:30, 6-10:15pm.                                      |
| 45.45   | 6.60  | HI6H           | Trujillo City, D.R.         | 7:40-8:40pm.   |
| 45.70   | 6.565 | HI5P           | Puerto Plata, D.R.          | 5:40-7:40, 9:40-11:40pm.                                   |
| 45.80   | 6.55  | TIRCC          | San Jose, C.R.              | Tu, Th, Sa 6-7pm; Sun 8-10pm.                              |
| 45.84X  | 6.545 | YV6RB          | Bolivar, Venezuela          | 6:30-9:30pm ex. Sundays.                                   |
| 45.87J  | 6.54  | YN1GG          | Managua, Nicaragua          | 1-2:30, 8-10pm ex. Sundays,                                |
| 46.01   | 6.52  | YV4RB          | Valencia, Venezuela         | Noon-1, 6-10pm.  |
| 46.15   | 6.50  | HIL            | Trujillo City, D.R.         | 12:30-2, 6-8, or 9pm ex. Sun.                              |
| 46.19   | 6.495 | TGWB           | Guatemala, Guatemala        | 7:45-9am, 12:45-3:45, 7:30pm-<br>12:45am; Sun 10:30am-mid. |
| 46.26   | 6.485 | HILL           | Santiago, d.l.c., DR.       | Weekdays 5:30-9:30pm.                                      |
| 46.41   | 6.465 | YV3RD          | Barquisimeto, Venez.        | 11:30am-1:30, 5:30-9:30pm.                                 |
| 46.41N  | 6.465 | ZAA            | Tirana, Albania             | 2:30-3:15pm irreg. *                                       |
| 46.44   | 6.455 | HI4V           | S.F. de Macoris, D.R.       | 5:10-7:40pm; to 10pm irreg.                                |
| 46.73YS | 6.42  | H1LS           | Santiago, D.R.              | 5:40-7:35pm ex. Sundays.                                   |
| 46.77   | 6.416 | YV6RC          | Bolivar, Venezuela          | 10:30am-1:30pm, 4:30-9:30pm.                               |
| 46.80V  | 6.41  | TIFP           | San Jose, C.R.              | 7-9:30am, 12-2, 4-11:30pm.                                 |
| 46.88   | 6.40  | YV5RH          | Caracas, Venezuela          | 5-9:30pm ex. Sundays. (am, 1-3pm.                          |
| 46.88   | 6.40  | TGQA           | Quezaltenango, Guat.        | M/F 9-11pm, Sa 10pm-1am, Sun 1-3                           |
| 46.95F  | 6.39  | HI9B           | Santiago, D.R.              | Mon/Fri 8:10-8:40pm.                                       |
| 46.99   | 6.384 | ZIZ            | Basseterre, St. Kitts       | 4-4:45pm; Wed. 7-7:30pm.                                   |
| 47.02   | 6.38  | YV5RF          | Caracas, Venezuela          | 11am-1pm, 5:30-9:30pm ex. Sunday                           |
| 47.06   | 6.375 | T1WS           | Puntarenas, C.R.            | 5-7, 7:30-10; Sun 5-6pm.                                   |
| 47.14   | 6.365 | YV1RH          | Maracaibo, Venezuela        | 10:30am-1:30, 4:30-10:30pm. (pm                            |
| 47.20   | 6.357 | HRP1           | San Pedro Sula, Honduras    | 6-7:30am, 2-4pm; irreg to 10                               |
| 47.24   | 6.35  | ICC            | Rome Italy                  | 3-3:30pm.  |
| 47.32   | 6.34  | H1IX           | Trujillo City, D.R.         | 8:10-10:10pm; Sun 7:40-9:40am.                             |

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|         |       |         |                              |                                   |
|---------|-------|---------|------------------------------|-----------------------------------|
| 47.36   | 6.334 | OAXLA   | Chiclayo, Peru               | 8-11pm.                           |
| 47.43   | 6.324 | COCW    | Havana, Cuba                 | 6:55am-1am; Sun 9:55am-10pm.      |
| 47.51   | 6.315 | HIZ     | Trujillo City, D.R.          | 11:40am-12:40pm, 5:10-7:40pm ex   |
| 47.62   | 6.30  | YV4RD   | Maracay, Venezuela           | 6-11pm except Sundays. (Sun.      |
| 47.66   | 6.295 | OAX4G   | Lima, Peru                   | 6, or 7pm to mid. (9:40pm         |
| 47.73VF | 6.285 | HIG     | Trujillo City, D.R.          | 6:40-8:40, 11:40am-2:10, 3:40-    |
| 47.88V  | 6.275 | YV5RP   | Caracas, Venezuela           | 4:30-9:30pm, or later.            |
| 47.96   | 6.255 | YV5RJ   | Caracas, Venezuela           | 5:30-8pm.                         |
| 48.05XV | 6.243 | HLN     | Trujillo City, D.R.          | 5:25-10:10pm, or later. *         |
| 48.11   | 6.235 | HRD     | La Ceiba, Honduras           | 8-11pm; Sun 4-6pm.                |
| 48.15   | 6.23  | YV1RG   | Valera, Venezuela            | 11:30am-1pm, 5:45-8:45pm          |
| 48.31   | 6.21  |         | Saigon, F. Indo-China        | 7:30-9:15am & irreg.              |
| 48.35   | 6.205 | YV1RI   | Coro, Venezuela              | 6:30-9:30pm ex. Sundays.          |
| 48.43VF | 6.195 | TG2     | Guatemala, Guatemala         | 7:30-9am; Mon/Fri 6-11pm; Sat 6-  |
|         |       |         |                              | pm-1am; Sun 1-3am, 3-8pm.         |
| 48.43   | 6.195 | HI2D    | Trujillo City, D.R.          | 5:10-7:10pm.                      |
| 48.47S  | 6.19  | dr 6.03 | HVJ, Vatican City,           | M/Wd/Th/Sa 2-3:30pm; Tu/Fr 2-3p   |
| 48.47   | 6.19  | HILA    | Santiago, D.R.               | 10:40am-1:40, 6:40-9:40pm.        |
| 48.58   | 6.175 | XEXA    | Mexico D.F.                  | 8:30-10:30am, 2:40-4:30, 7pm-mid  |
| 48.62   | 6.17  | W2XE    | New York City, N.Y.          | 12-lam; Sat/Sun 11:30pm-1am.      |
| 48.66F  | 6.165 | TILS    | San Jose, C.R.               | Noon-2:30pm, 6-11pm. *            |
| 48.68F  | 6.163 | YV5RD   | (RM), Caracas, Venez.        | 3:30-10pm; Sun 8am-10:30pm.       |
| 48.78   | 6.15  | HJ4DAE  | Medellin, Colombia           | 9:30am-1pm, 5-11:30pm.            |
| 48.78   | 6.15  | VPB     | Colombo, Ceylon              | 7-11am, or later.                 |
| 48.78V  | 6.147 | CJRO    | Winnipeg, Canada             | Sat. 6pm-Sun. 4am.                |
| 48.86   | 6.14  | W8XK    | Pittsburgh, Pa.              | 11pm-1am.                         |
| 48.86   | 6.14  |         | Leopoldville, Belgian Congo, | Sundays 5:35-7am.                 |
| 48.86   | 6.14  | SP48    | Warsaw, Poland               | 3-5:30pm.                         |
| 48.88F  | 6.138 | COCD    | Havana, Cuba.                | 10am-11pm; Sun. 10am-9pm.         |
| 48.88   | 6.137 | CR7AA   | Laurencio Marques, Moz.      | 12-1, 4:30-6:30, 9-11am, noon-4   |
|         |       |         |                              | pm, Sun 5-7, 10am-2pm.            |
| 48.93   | 6.132 | CHNX    | Halifax, N.S., Canada        | 7am-11:15pm; Sat 8am-11:30pm; Su  |
| 48.93N  | 6.132 | TGXL    | GUATEMALA CITY, GUAT.        | 10am-6pm, 8pm-1am. (nn-11:15pm    |
| 48.94   | 6.13  | VP3BG   | Georgetown, B. Guiana        | 10:15-11:15am, 3:45-7:45pm ex. S  |
| 48.94   | 6.13  | LKJ     | Jeloy, Norway                | Noon-6pm.                         |
| 49.00   | 6.122 | FK8AA   | Noumea, New Caledonia        | Wed/Sat 2:30-3:30am.              |
| 49.00VS | 6.122 | HP5H    | Panama City, Panama          | 6-10:30pm; to mid. irreg.         |
| 49.04B  | 6.117 | XEUX    | Mexico D.F.                  | 9am-1, 7pm-2am. *                 |
| 49.18   | 6.10  | W9XF    | Chicago, Illinois            | 4-6:50pm (Sat to 5:30), 1-2am.    |
| 49.18VS | 6.10  | YUA     | Belgrade, Yugoslavia         | 12:43-3, 6:30-8:30am, 12-6:30pm.  |
| 49.20   | 6.097 | ZRK     | Klipheuvell, S. Africa       | 12-4pm; Sun. 12-3:20pm.           |
| 49.20   | 6.097 | ZRJ     | Johannesburg, S. Afr.        | 11:45pm-11:30am inter. ex. Sat;   |
|         |       |         |                              | Sundays 3:30-11:30am intermit.    |
| 49.32   | 6.083 | VQ7LO   | Nairobi, Kenya               | 5:30-6, 11:15am-2:15pm; Tues/Th-  |
| 49.33   | 6.081 | YV1RD   | Maracaibo, Venezuela         | 5-10, or 11pm. (8:15-9:15am       |
| 49.34   | 6.080 | CRY9    | Macao, Macao                 | Mondays 8:30-10am; Wed 8:30-910   |
| 49.34   | 6.080 | HP5F    | Colon, Panama                | 7-9pm. *                          |
| 49.37   | 6.077 | OAX4Z   | Lima, Peru                   | 7am-1:30am ex. Sundays.           |
| 49.42   | 6.07  | CFRX    | Toronto, Canada              | 7:30am-mid; Sun. 10am-11pm.       |
| 49.46   | 6.065 | SBO     | Motala, Sweden               | 4:15-5pm. (ex. Sun.               |
| 49.48   | 6.063 |         | Tananarive, Madagascar       | 12:30-12:45, 10-11am; 2:30-4am    |
| 49.50S  | 6.06  | W3XAU   | Philadelphia, Pa.            | M/T/Th 12-lam, Wd/F/Su 11:30pm-   |
|         |       |         |                              | lam, Sat 11:30pm-2am.             |
| 49.50S  | 6.06  | W8XAL   | Cincinnati, Ohio             | Sun 8am-11:30pm; dly 5:45am-      |
|         |       |         |                              | 11:30pm, or midnight; 1-2am irr.  |
| 49.53   | 6.057 | ZHJ     | Penang, S.S.                 | 6:40-8:40am ex. Sundays.          |
| 49.56   | 6.054 | HJ6ABB  | Manizales, Colombia          | 5:30-10pm ex. Sun; Sat to 11pm. * |
| 49.63   | 6.045 | XETW    | Tampico, Mexico              | 7-11pm.                           |
| 49.67S  | 6.04  | WLXL    | Boston, Mass.                | 7-9pm ex. Sat; Sun 7-8:30pm. *    |
| 49.67   | 6.04  | W4XB    | Miami, Florida               | 1-3, 9pm-mid; Sun 4-6, 9pm-mid.   |
| 49.73   | 6.033 | HP5B    | Panama City, Panama          | 10:30am-2, 6-10pm.                |
| 49.75   | 6.03  | CFVP    | Calgary, Alta., Canada       | 10am-2am.                         |
| 49.75   | 6.03  | OLR2B   | Prague, Czechoslovakia       | Irreg.                            |
| 49.75S  | 6.03  | RV96    | Moscow, U.S.S.R.             | 1-3, 4-7pm.                       |
| 49.81   | 6.023 | XEUW    | Veracruz, Mexico             | 10pm-1am.                         |

|         |       |        |                         |   |
|---------|-------|--------|-------------------------|---|
| 49.83   | 6.02  | DJC    | Zeesen, Germany         | 11:30am-4:25pm.                                       |
| 49.83X  | 6.02  | HJ3CAX | Bogota, Colombia        | 5:30-11pm; Sun.6-11pm. *                              |
| 49.92   | 6.01  | OLR2A  | Prauge, Czechoslovakia  | 1:55-4:50pm irreg.                                    |
| 49.92   | 6.01  | PRA8   | Pernambuco, Brazil      | 4-9pm.  |
| 49.92   | 6.01  | CJCX   | Sydney, Nova Scotia     | 7am-1:30, 4-8:30pm. (week                             |
| 49.92   | 6.01  | 9MI    | S.S.Kanimbla            | 7-7:30am, two or three times a-                       |
| 49.92V  | 6.01  | COCO   | Havana, Cuba            | 7:55am-midnight. (pm                                  |
| 49.94CS | 6.007 | XYZ    | Rangoon, Burma          | 6:30-10am, 9-11pm. (Sat 9:30-11                       |
| 49.94   | 6.007 | ZRH    | Pretoria, So. Africa    | 11:45pm-12:45am ex. Sat, 10am-3:30pm; Sun 9am-3:15pm. |
| 49.94   | 6.007 | ZRJ    | Klipheuveel, So. Africa | 3:30-4pm.   |
| 49.95V  | 6.005 | CFCX   | Montreal, Canada        | 7:45am-1am; Sun 9am-11:15pm.                          |
| 49.95V  | 6.005 | HP5K   | Colon, Panama           | 7-9am, 12-1, 6-11pm.                                  |
| 49.99   | 6.002 | CXA2   | Montevideo, Uruguay     | 5:30-10:30pm.   |
| 50.00   | 6.00  | XEBT   | Mexico D.F.             | 10am-1:45am.  |
| 50.00S  | 6.00  | RV59   | Moscow, U.S.S.R.        | 1-6pm; Sun 10am-6pm.                                  |
| 50.20   | 5.977 | CS2WD  | Lisbon, Portugal        | 2:30-5:30pm; Sun/Thurs 6-7am.                         |
| 50.21   | 5.975 | OAX4P  | Huancayo, Peru          | 9-11pm. (9:30pm                                       |
| 50.22   | 5.975 | YV5RC  | Caracas, Venezuela      | 4-10pm; Sun 8:30-11:30am; 3:30-                       |
| 50.42   | 5.95  | HH2S   | Port-au-Prince, Haiti   | 6-10:15pm ex. Sun.                                    |
| 50.51   | 5.94  | TG2X   | Guatemala, Guatemala    | Mon/Thurs 9-11:30pm; Sa 10pm-md                       |
| 50.51F  | 5.94  | OAX2A  | Trujillo, Peru          | Tues/Thurs/Sat/Sun 7-10pm. *                          |
| 50.68   | 5.92  | YV4RH  | Valencia, Venez.        | 5-9:30pm.   |
| 50.85   | 5.90  | ZNB    | Mafeking, Bechuanaland  | 1-2:30pm; 6-7am ex. Sundays.                          |
| 50.99V  | 5.883 | TIGPH2 | San Jose, Costa Rica    | Noon-2, 7-11pm ex. Sundays.                           |
| 51.07   | 5.875 | HRN    | Tegucigalpa, Honduras   | 6-11pm.   |
| 51.24   | 5.855 | HI1J   | San Pedro, D.R.         | 11:40am-1:40pm, 6:10-8:40pm.                          |
| 51.32   | 5.845 | YV1RB  | Maracaibo, Venezuela    | 10:45-12:40pm, 4:30-10:30pm.                          |
| 51.41   | 5.835 | YV5RR  | Caracas, Venezuela      | 6:30-7:30, 10:30am-1:30, 3:30-10                      |
| 51.60   | 5.815 | TI2H   | San Jose, Costa Rica    | 7-10:30pm irreg. (pm                                  |
| 51.68   | 5.805 | YV4RA  | Valencia, Venezuela     | Operates evenings.                                    |
| 51.77N  | 5.795 | HRK    | Tegucigalpa, Honduras   | Nightly to 11pm. *                                    |
| 52.17S  | 5.75  | YV2RA  | San Cristobal, Venez.   | 11:30am-12:30, 6-9pm ex. Sun.                         |
| 52.36   | 5.73  | HC1PM  | El Palomar, Ecuador     | Monday evenings only.                                 |
| 54.95J  | 5.46  | YNOP   | Managua, Nicaragua      | 8:30-10:30pm; Sundays 2-3pm.                          |
| 57.40N  | 5.23  | T1MC   | San Jose, C.R.          | 5-6pm.  |
| 57.42N  | 5.225 | YVA    | Caracas, Venezuela      | Irreg. in evenings. *                                 |
| 58.31   | 5.145 | OK1MPT | Prague, Czechoslovakia  | Irreg.  |
| 58.31   | 5.14  | PMY    | Bandoeng, Java          | 5:30am-noon.  |
| 60.12F  | 4.99  | YV3RA  | Barquisimeto, Venez.    | 5:30-9:30pm.  |
| 60.48F  | 4.96  | VUD2   | Delhi, India            | 7:30am-12:30pm.                                       |
| 60.98FS | 4.92  | VUM2   | Madras, India           | 6:30am-noon   |
| 61.16F  | 4.905 | HJ1ABG | Barranquilla, Colombia  | 11am-11pm; Sun. 11am-8pm.                             |
| 61.29   | 4.895 | HJ3CAH | Bogota, Colombia        | 11:30am-2, 6-11pm.                                    |
| 61.42   | 4.885 | HJ4DAP | Medellin, Colombia      | 8am-2, 6-11pm.  |
| 61.48F  | 4.88  | VUB2   | Bombay, India           | 7:30am-12:30pm.                                       |
| 61.55N  | 4.876 | ZRD    | Durban, So. Africa      | 12-3:45pm ex. Sat; Sun 12-3:20pm                      |
| 61.54   | 4.875 | HJ6FAH | Armenia, Colombia       | 8-11am, 6-10pm.                                       |
| 61.67   | 4.865 | HJ2BAJ | Santa Marta, Colombia   | 5:30-10:30pm.   |
| 61.73F  | 4.860 | YV1RL  | Maracaibo, Venezuela    | 11am-1pm, 4:30-10:30pm. *                             |
| 61.80   | 4.855 | HJ3CAF | Bogota, Colombia        | 7pm-mid. ex. Sundays.                                 |
| 61.92S  | 4.845 | HJ3CAD | Bogota, Colombia        | 6-11:30pm.  |
| 61.98   | 4.84  | VUC2   | Calcutta, India         | 6:30am-noon.  |
| 62.05S  | 4.835 | HJ1ABE | Cartagena, Colombia     | 7am-6, 8-11pm.  |
| 62.17   | 4.825 | HJ5EAD | Cali, Colombia          | 7-11pm ex. Sundays.                                   |
| 62.31   | 4.815 | HJ2BAC | Cucuta, Colombia        |   |
| 62.57   | 4.795 | HJ6FAC | Pereira, Colombia       | 9am-noon, 6:30-10:30pm ex. Sun.                       |
| 62.69   | 4.785 | HJ1ABB | Barranquilla, Colom.    | 4:30-10:30pm ex. Sundays.                             |
| 62.87   | 4.772 | HJ7GAB | Bucaramanga, Colombia   | Nightly to 10:45 or 11pm.                             |
| 65.79   | 4.56  | HC2ET  | Guayaquil, Ecuador      | Wed/Sat 8-10pm.                                       |

62M

== BROADCAST BAND DX NOTES: European reception continues exceptionally good in the East, with many claiming the best reception in 5 years. See table in last issue for best bets. Latvia on 583, and Estonia on 731, have been logged. EAJ7 is being heard on 968kc. TP's starting to come through

International

Published Monthly Excepting July



**The GLOBE CIRCLER**

BLOOMINGTON, ILLINOIS, U. S. A.

Dx'ers Alliance

CHARLES A. MORRISON  
EDITOR

Volume 7

March, 1939

Number 3

## NEW MEMBERS

G. Anderson, Minneapolis, Minn... D. Hoadley, Kirkland Lake, Ont., CANADA... Robt. Trubee, Brentwood, N.Y... Chas. Graff, Indianapolis, Ind... J. R. Goodchild, Chelmsford, Essex, ENGLAND... W6CQS, N. Murakoshi, San Leandro, Calif... H. Sieger, Pittsburgh, Penna... H. Pruett, Shelby, N.C... Richard and Irene Brian, Minneapolis, Minn... L. Trousselot, Paris, FRANCE... R. Othouse, Patterson, N.Y.... P. Montenegro, Caracas, VENEZUELA.... A. Utah, San Francisco, Calif... D. Callan, Readville, Mass... Dick Winne, Albany, N.Y... Mrs. Zana Kandle, Chicago, Ill.

I. D. A. SALESMANSHIP

Have you told your radio friends that IDA: is one of the oldest and largest clubs; has local chapters in the larger cities; has published the Globe Circler for 69 consecutive monthly issues...that it contains a highly accurate and up-to-date list of short-wave stations monthly..that it gives detailed notes concerning stations in from 60 to 80 countries each issue..that it includes frequent scoop items not found elsewhere, and also photographs, SWL Exchange Corner, a list of IDA Good-will dx programs; that IDA also publishes AMA-TOURING, the only publication dealing exclusively with reception on the amateur bands? If you have explained all of these advantages of IDA membership, and backed up your statements with sample copies of our publications (available free for the purpose from HQ), then you are doing your part toward selling IDA.

## CHAPTERS

ACC (DETROIT): M.Vanderhaeghe, 5844 Springfield, Detroit, has been elected the new chapt. chairman. Next two meetings will be held on Mar. 21, and Apr. 18, in the Conference Room of the Detroit News Building.

BETA (NYC): Entire chapt. petitioned Senatorial action on the anti-QRM bill. Meetings held on alternate Saturday nights at home of Ed. Goss, 812



"Dx'ers 'Par Excellence'"  
Irene, and Daddy Richard Brian  
of Minneapolis, Minnesota

Prospect Place, Brooklyn; Next, Mar. 18.

DELTA (LANSING): New chapt. chairman is C. Williams, 1109 Hapeman, Lansing. Last meeting held on Feb. 10, at his home. Next meeting will be March 10, at home of Al Debicki, 2321 Kensington Rd

EPSILON (LONDON): This chapt. has been reorganized by R.G. Baker, of 40 Stilehall Gardens, Chiswick, London W4, a meeting place is being arranged for and meetings will be held regularly.. All dx'ers interested contact R. Baker

LAND OF 10,000 LAKES (MINNEAPOLIS): Has been organized with following charter members: Messrs, Lundberg, Eder Anderson, Schuckhart, Brian, Gribble, and Mrs. Brian, & Eder. Meetings will be held regularly. For information contact L. Lundberg, 1020 Lowry Ave, N, Mpls

REGINA JUBILEE: Dec. & Jan. meetings were held at home of J. Dickenson. The meeting on Feb. 18, was held at the home of Mrs. Baird.

SCC (LOS ANGELES): Jan. 28 meeting at home of Aug. Balbi, was well attended.. Winners for Singleton-Eliminator Contest were named: 1-The Amers; 2-W. Briting; 3-H. Clein. A new contest to run for a year will consider "Best QSL for Each Month", on total points basis.

WINDY CITY (CHICAGO): Last meeting held on Feb. 8. It was decided to seek cooperation of Chicago amateur groups on anti-QRM drive. Next meeting will be on Mar. 8, at 8pm CST, at the Central YMCA Bldg., 19 So. La Salle St., Chicago.. An IDA Midwest Convention proposed.

# BROADCAST STATION NEWS

**AUSTRALIA** **NEW:** 2CK (1460), Cessnock, 300w, opened on Jan. 9; 4AT (970), Ather-ton, 100w; 2CY (850), 10kW, Canberra, is now relaying 2FC regularly; 2LT (1080) Lithgow, will be on the air soon...**POWER:** 6PM (1390), to 500w; 3DB, Melbourne will go to 1kW soon...**UNDER CONSTRUCTION:** Station at Collie, W.A., to operate on 1340kC, with power of 500w (Wignall, Breen, Forrest, Connor)

**CANADA** CBC's two new 50kW xmters., CBK, at Watrous, Sask., and CBA, at Sackville, N.B., are nearing completion (Willis)...CKPR has moved to 580kC.

**CUBA** **FREQUENCY:** CMQ to 780kC; CMCU to 1010; CMCJ to 1100, and CMKZ to 1420...CMX (1260), 4kW, is relaying certain programs of the NBC (Radio Guia)

**GREECE** "Radio Athens" (601), operates weekdays 6:30-8 and 11am-5pm; Sun-days 4-8 and 11am-7pm. The call signal is a short popular Greek air, played on the flute (Egyptian Radio)

**JAPAN** The construction of several steel towers, each over 1000 feet high and destined for the Tokio transmitter, have been finished (RPS)

**MEXICO** **NEW:** XEM (1385), P.O. Box 2033, Chihuahua, Chih...**FREQUENCY:** XEAF, No-gales, to 985; XEFO, Mexico D.F., to 935, and XELO, Tijuana, to 730 (\*\*Olthoff)

**N.Z.** Stations 1ZJ, 2ZJ and 4ZC are now permanently off the air.

**S.S.** A powerful new station has been opened in Singapore (Com. Bul.)

**SWITZERLAND** A general European Radio Conference is being convened at Mon-treux on March 1., for the purpose of effecting a new distribution of fre-quencies for European stations.

**U.S.A.** **NEW:** Const. permit granted for a station at Louisville, Ky., to op-erate on 1210kC, with a power of 100/250 watts...WLW has been denied a per-mit to continue experimental operation with 500kW power...KVOA of Tucson, Arizona, is the 168th station to be added to the NBC network...WHBF, Rock-ford, Ill., 1kW, has shifted to 1240kC...**POWER:** WEMP (1310), to 250w; WNEW (1250), to 5kW, and WKBN (570), to 1kW (FCC, NBC).

## I. D. A. INTERNATIONAL FRIENDSHIP PROGRAMS

|  |                       |    |        |      |
|--|-----------------------|----|--------|------|
| MAR. 3, FRIDAY, 6-6:30 or 7:30-8am EST | Auckland, N.Z.        | JF | 1070kC | 1ZB  |
| MAR. 5, SUNDAY, 2-3am EST,             | Albuquerque, N.M.     | JP | 1230   | KGGM |
| MAR. 20, MONDAY, 1-2am EST,            | San Salvador, El Sal- |    | 7894   | YSD  |
|  | vador, LA             |    | 640    | YSS  |

### TIPS BROADCASTS

|                                       |                            |         |       |
|---------------------------------------|----------------------------|---------|-------|
| 1st & 3rd Sundays monthly, 2-4am EST, | Baton Rouge, La.           | 1120    | WJBO  |
| Tuesdays, 5:30-6pm EST (IDA Tips)     | Schenectady, NY 15330/9530 | X2XAD/F |       |
| Tues. & Thurs., 12:45-1pm EST,        | Kansas City, Mo.           | 26450   | W9XA  |
| Thursdays, 2:45-3am EST,              | Salt Lake City, Utah       | 1130    | KSL   |
| Saturdays, 5-5:30pm EST, (MNRC)       | New York City, N.Y.        | 26300   | W2XJI |

**NOTE:** Programs arranged by: JF, J. Forrest; JP, J. Pichler; LA-L. Ambrosius.

### IDA EXCHANGE CORNER

R. Spiralko, 2258 W. 24th St., Chicago, Ill. (Swap stamps; and SWL cards outside U.S., Canada, England, Australia & N.Z.)...H. Schubert, Bird Haven Farm, Britt, Iowa (Swap stamps)...R. Trubee, 1 Oak St., Brentwood, N.Y. (Swap let-ters with any dx'ers in foreign countries)...Ron G. Baker, 40-Stile-hall Gardens, Chiswick, London West 4, England (Swap letters with members anywhere)...W. Th. Kamman, Aptdo. 1891, Caracas, Venezuela (Swap stamps)...**PERSONAL:** E. Reinhard of Locust, N.J., has moved to 38 Hotze St., Zurich 6, Switzerland...L.R. Fritsch, formerly of Syria, has moved to Les Fougères, Rue des Petits Champs, Alger, Algeria... Any back issues of the Globe Circler can be had for 5¢ each, plus postage. Complete your files.-Ed.

### RETURN POSTAGE BUREAU

(85 Francisco Ave., Rutherford, N.J.)  
Mint stamps of 1st Class Postcard rate to U.S. can be purchased as fol-lows: Each: (3¢): Canada, Mexico, Cuba; (4¢): C.Z., Chile, P.I. (5¢): Antigua, Barbados, Brazil, Colombia, C.R., D.R., England, Grenada, Haiti, Honduras, Ire-land, Jamaica, Labrador, Nicaragua, Peru Nfld, N. Ireland, Panama, Salvador, Scot-land, Trinidad, Uruguay, Venezuela, and Wales. (6¢): Algeria, Argentina, France, Australia, Bahamas, Bermuda, B. Guiana, B. Honduras, F. Morocco, N.Z., Japan, N. Rhodesia, S. Rhodesia. (7¢): Belgium, Netherlands, Norway, S.W. Africa, Sweden Switzerland, So. Africa... Stamps for printed matter rate to U.S. are also available for a few countries; write for separate list. (This service can save the dx'er considerable over IRCs)

## VIC-VAC SHORT-WAVE HONOR ROLLS

**VAC. VERIFIED—** DISTRICT 1: 13-L.Underwood, 9-W.Ansell, 6-H.Orlaw, 4-Wm. King, N.Ebling, J.Christie, J.Maguire. 2-Mrs.Bairs, J.Hodges 1-W.Wood, S.Barnetson, G.Young, G.Cheeseman. DISTRICT 2: 59-R.MYERS, 30-W. Britting, 16-G.Gallagher, J.Moore, C.Streuber, 15-F.Harris, H.Allen, 13-Amers 10-H.Clein, 7-H.Honda, 6-A.Balbi, 5-M.Fisher, 3-A.Field, W.Guthrie, 2-L.Mc Namara. DISTRICT 4: 20-F.MURPHY, G.BEYER, 13-T.Grey, 8-K.Schram, B. Bostad, H.Schrock, 6-Eders, L.Herz, B.Hetzel, C.Treizise, 5-R.DeMent, A.Deterly, 4-E. Swenson, A.Paul, 1-E.Danielson, W.Daugherty, J.Delaney, R.Dissinger, J.Jenkins, R.Kramer, P.Loyd, L.Lundberg, C.Robinson, Mrs.Rogers, R.Schaffar, E.Schenck. DISTRICT 5: 15-G.BIGBEE, DR.KASH, 7-G.Magee, 4-H.Weatherly, 1-W.Byrn. DISTRICT 6: 83-H.S.BRADLEY, 78-J.DEMYER, 76-J.MAY, 69-R.GOZEN, 53-R.LEGGE, 48-N.KRIEBEL, 35-D.THOMAS, 34-L.CAVILEER, 30-I.GOODEVE, 28-D.HALL, 26-H. ECK, 25-P.ALBERTO, 23-M.BUIITEKANT, 22-M.SOPLOP, 20-J.BARRE, 18-E.Hatch, Wm. Palmer, 16-J.Buitekant, E.Roberts, J.Siringer, M.Cassina, 13-R.Oxrieder, Ted Serafin, E.Powers, 11-H.Kentzel, 10-C.Weber, 9-E.Goss, 8-M.Bass, 7-M.Bruscia, L.Miller, M.Reamy, J.Satterthwaite, 6-R.Schoel, E.Wokaty, 5-C.Bolton, Fred Heller, G.Graeme, R.Partridge, R.Powell, E.Reinhard, J.Steele, I.Van Zandt, Don Wright, 4-A.Augustine, C.Dawson, J.Gardner, R.Verbrugge, 3-A.Bartholomew, B. Horne, H.Lueth, E.Payette, D.Stone. DISTRICT 7: 24-G.ROCKWELL, 17-R.Messer, 9-J.Kneeland, 8-J.Pratt, F.Alfred, L. Hutchinson, 6-J.Graham, 5-H.Ward, 4-J. Lippincott, A.Willis, E.Barker, 3-J.Everett, 2-A.Long, R.Collins, D. Hoadley, 1-G.Cote, J.Harvey, R.Ritchie, I.Witty, S. Rudd. GT.BRITAIN: 19-R.Pybus, 7-R Coales, J.Shaw, 1-G.Haylock. MALTA: 9-V.Trapani, 2-M.Bonici, 1-J.Mercieca, Muscat, J.Preziosi, ST.MARTIN: 3-C.Peterson. N.Z.: 12-A.Breen, 3-B.Connor. CANAL ZONE: 4-J. Gallivan. JAPAN: 9-S.Yoshimura P.R.: 5-CLP.

**VIC: TOTAL NUM. VERIFIED.** DISTRICT 1: 76-W.ANSELL, 71-L.Underwood, 54-H.Orlaw, 51-W King, 48-J.Maguire, 42-N.Ebling, J.Christie, 35-W.Wood, 32 Mrs.Baird, 27-S.Barnetson, 26-F.Newton, 22-D.White, 21-J. Hodges, 20-R.Thompson, 19-G.Young, 17-G.Cheeseman, 15-J.Dickenson, J.Frederick, 14-W.White. DISTRICT 2: 113-R.MYERS, 85-W.BRITTING, 84-H.CLEIN, 75 H.ALLEN, 72-G.Gallagher, J.Moore, 66-Amers, F.Harris, 59-C.Streuber, 44-Aug. Balbi, H.Honda, 43-W.Guthrie, 35-L.McNamara, 32-A.Field, 29-M.Fisher, 16-R. Purcell. DISTRICT 4: 84-F.MURPHY, 82-G.BEYER, 77-R.IRWIN, B.Hetzel, 72-T. Grey, 68-C.Treizise, K.Schram, H.Schrock, 63-Eders, 61-E.Frost, L.Herz, 49-M. Meade, 46-R.DeMent, 44-W.Clarke, 43.D.Traister, 40-A.Deterly, R.Swenson, 36 P.Loyd, E.Schenck, 35-F.Anzalone, C.Robinson, 34-C.Will, 33-R. Dissinger, 31 J.Delaney, 30-S.Graham, A.Paul, 29-L.Eikamp, 28-R.Kramer, 26-L.Lundberg, 25 Mrs.Rogers, 23-R.Shaffar, 20-S.Cashio, J.Jenkins, 19-H.Gustafson, 17-E.Dani elsen. DISTRICT 5: 104-G.BIGBEE, 80-DR.KASH, 72-G.Magee, 53-H. Weatherly, 38-W.Byrn, 27-H.Gunn, 24-M.Mosler, 17-G.Hinson, 9-A.Pleyte. DISTRICT 6: 136-J.DEMYER, 127-J.MAY, 124-H.BRADLEY, R.LEGGE, 113-D.THOMAS, 112-R.GOZEN, 111-H.ECK, 109-P.ALBERTO, 104-N.KRIEBEL, 103-M.SOPLOP, 101-R.WAITE, 98-LEM CAVILEER, 97-E.ROBERTS, 101-C.WEBER, 93-J.BARRE, 91-M.BUIITEKANT, I.GOODEVE, 87-J.SIRINGER, 86-E.POWERS, 85-E.HATCH, W.PALMER, 79-E.GOSS, H.KENTZEL, T.SER AFIN, 78-J.BUIITEKANT, 75-F.SATTERTHWAITE, 72-M.Bass, 71-R.B.Oxrieder, 70-B Fiederowicz, E.Reinhard, 69-M.Cassina, 61-D.Hall, 59-E.Wokaty, 58-R.Powell, J.Steele, 57-R.Partridge, 56-J.Gardner, 55-R.Schoel, 54-J.Newcomer, I.Van Zandt, 53-B.Horne, 52-C.Bolton, 51-M.Bruscia, 50-G.Graham, D.Wright, 49-M. Reamy, 47-J.Hager, E.Payette, G.Rhoads, 45-D.Stone, 44-C. Dawson, 43-A. Bartholomew, 42-R.Verbrugge, 40-H.Lueth, 36-J. Brauner, 34-W. Mathers, 32-M. Garvey, H.Magowan, 28-L.Ambrosius, C.Glick, J.Richrod, 27-M.Kennedy, W.Sammis, 26-H.Graeme, 25-J.Evanovsky, 23-J.Voisich, C.Seth, 22-C.Ast, 19-G. Cook, 13 K.Nelson, 7-R.Nagle. DISTRICT 7: 117-G.ROCKWELL, 77-R.MESSER, 66-L.Hutchin son, 64-J.Graham, 61-J.Pratt, 58-J.Kneeland, F. Alfred, 52-J.Lippincott, 50-H.Ward, 44-J.Everette, 39-A.Long, E.Barker, 37-R.Collins, 31-A.Willis, 29 -G.Cote, 28-D.Hoadley, 26-J.Harvey, 27-R.Ritchie, I.Witty, 22-J. Hardy, 21 J.Kernan, 17-S.Rudd, 14-D.Witthun, 6-K.Morey, 4-T.Hogg, 3-J.Pedersen. GT.BRITAIN: 88-R.PYBUS, 82-R.COALES, 50-J.Shaw, 27-G.Haylock (Send reports to R.Pybus, 4 Highfield Rd, Manchester 21, England). MALTA: 46-V. Trapani, 26-J.Mercieca, 18-A.Muscat, 17-A.Preziosi, 15-J.Rossignaud, 13-M.Bonici, A. Gilibert, 11-A.Crockford. JAPAN: 75-S.YOSHIMURA. CANAL ZONE: 57-J.Gal livan. P.R.: 70-CLP. N.Z.: 78-A.Breen, 53-B.Connor. (NEXT LIST-JUNE GC)