

THE GLOBE CIRCLER

COMPLETE GUIDE-BOOK FOR SHORT-WAVE LISTENERS



Jack Gerber (left), director of CBS Shortwave Listening Station, and Henry Cassirer, foreign news reporter.

WHEN TO HEAR WAR NEWS IN ENGLISH Daily E. W. T.

7:30 a.m.	Melbourne	VLG2	9.54	6:45 p.m.	London	GRG	11.68
8:00 a.m.	Tokyo	JZJ	11.80	6:48 p.m.	Moscow	RV96	15.18
8:30 a.m.	Chungking	XGOY	9.635	7:00 p.m.	Tokyo	JZK	15.16
9:00 a.m.	London	GRE	15.39	7:00 p.m.	Berlin	DJD	11.77
9:30 a.m.	Berlin	DJB	15.20	8:05 p.m.	Madrid	EAQ	9.860
10:30 a.m.	Tokyo	JZK	15.16	8:10 p.m.	Lahti	OFE	11.78
11:00 a.m.	Stockholm	SBT	15.15	8:30 p.m.	Rome	2RO4	11.81
11:30 a.m.	Berlin	DJB	15.20	9:00 p.m.	Bern	HER4	9.538
12:00 noon	London	GRE	15.39	10:45 p.m.	London	GSC	9.580
1:30 p.m.	Rome	2RO8	17.82	11:15 p.m.	Vichy		9.520
5:00 p.m.	Rome	2RO6	15.30	12:00 mid.	Berlin	DXJ	7.240
5:45 p.m.	London	GRG	11.68	12:30 a.m.	London	GSC	9.580

INTERNATIONAL DX'ERS ALLIANCE

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EDITORINTERNATIONAL DX'ERS ALLIANCE
NORMAL, ILL. U. S. A.

JULY, 1942

NUMBER 105

IMPORTANT EDITORIAL

The next Globe Circler will be mailed on about August 1.

Many IDA members are now serving in our armed forces, both here and abroad. In the months to come many more will follow. We are proud and happy that so many of our members are able to help our country in this time of need. There is also much for us to do that stay at home. If I did not know that the IDA was serving a useful purpose at this time I would immediately suspend its activities for the duration but it is doing an important and necessary job in making vital shortwave information available to the Gov't. and other radio, and defense agencies. This is the sole purpose for which it exists at this time. Its continued functioning through these difficult times depends upon two factors: the willingness of each and every member to contribute a little time for "cruising" the dials, since reports are necessary to keep up the steady flow of station, program and reception information; the other factor is financial. No organization can exist without revenue. Ours is no exception. Our only sources of revenue are: New membership dues; renewal subscription fees, and voluntary contributions. Let's don't allow the service we can render be jeopardized for want of a few dollars. I am doing what I can. I only ask that of YOU.



W. MATHERS, SEC. OF IDA'S DETROIT CHAPTER, PRESENTING A DX CERTIFICATE TO JOE VOISICH.

Charles A. Morrison

DX CONVENTIONS

JULY 4-5, - annual NRC convention at Buffalo, N.Y. Banquet dinner on Sun. July 5, at 1:30pm. For full details write to R. Edge, 525 Stockbridge Ave., Buffalo, NY.

JULY 17-19-- annual GNSWLC convention at Hotel Gibson, Cincinnati, Ohio. Banquet dinner on Sat. July 18, at 7pm. For full details write to G. H. Jacobs, P.O. Box 141-Station V, Cincinnati, Ohio.

The IDA will hold no more conventions for the duration. An informal gathering and business session may be held later in the summer.

INTERNATIONAL DX'ERS ALLIANCE CLUB NOTES**NEW MEMBERS**

K.R. Boord, Smithfield, W. Va. ... J. Mayer, Detroit, Mich. ... J. Pollari, Lincoln Park, Mich. ... Ted Bamberger, Shaker Heights, Ohio. ... Robt. H. Goodell, Lancaster, Pa. ... New Defense Agency receiving G.C.- The Coordinator of Information, New York, NY.

RENEWALS

N.L. Maguire ... Bill Mathers ... H. Ward (Canada) ... G. Cote (Canada) ... John Wilson ... G.A. Magnuson ... John W. May ... C.B. Calder ... A. Mc.C. Warren ... Jack Gardner.

(Contributions)- Herb Campbell... Mike Soplop... Norman L. Maguire.

CHAPTER ACTIVITIES

For information concerning dates and meeting places for IDA Chapters contact the representatives below:

ACC (Detroit area)- W.P. Mathers, 6607 Vinewood, Detroit. ... BEER CITY (Milwaukee area), - Kay Williams, 6824 W. Stevenson St., Milwaukee. ... SO. CALIF. (Los Angeles area)- Aug. Balbi, 1090 W. Kensington Road, Los Angeles. ... WINDY CITY CHAPTER and WORLD WIDE DIAL CLUB (Chicago area)- Chas. Trezise, 7638 Lafayette, Chicago.

PERSONAL NOTES

To my many friends who sent me a card or letter wishing me a speedy recovery from my recent illness my grateful thanks. I am happy to say that I am now completely recovered (Charles Morrison) ... Stan Sonowski of Detroit, is now attending the Aeronautical University in Chicago. ... Steve Mann of Cleveland, is attending summer school at the University of Cuba. ... Eric Butcher of Ponce, P.R., recovered from his

recent leg injury, is again shipping out on a merchant line to South America.... Joe Voisich & Lee Mason of Detroit, are taking a practical transmitter course... Dick Wilkinson, of Detroit, is in Radio Communications for the Army Air Cps... Rudolph Kure, long-time IDA member, formerly of Cincinnati, is now employed by Campton & Sons Lithographing Co. of St. Louis, Mo... Robt. Base, Baltimore, Md., has been trying out a new Zenith portable broadcast receiver, which he says has fine sensitivity and selectivity... N.L. Maguire, Albuquerque, N.M., is doing defense work in the east this summer... John Jenkins Jr. formerly of Glen Ellyn, Illinois, is now working in the supply department of a U.S. Naval Air Station, on the east coast... L. Bettelon of Tipp City, Ohio, is now in the army of Uncle Sam at Fort Thomas, Ky... Henry Ward Jr., 78 Court St., Sherbrooke, P.Q., Canada, would like to exchange stamps with anybody, anywhere; has hundreds of good Canadian stamps as well as many other countries, to exchange... Bob Pybus of Manchester, England, is still doing a bit of listening; has only missed 2 issues of the Globe Circler since the war began. Says broadcast band reception was the best last winter since the season of 1932-33 with as many as 75 U.S.A. and

Canadian stations being heard in single night; now has 109 countries verified.. Aug. Balbi, Los Angeles, will take a weeks vacation, in July; hopes to get some work in on his yard and garden... Tom Becker, 802 S. Leroy St., Fenton, Michigan, would like to buy a DB-20 preselector, in good condition.. A.B. McKeen, South Laguna, Calif., has been trying out an AR77 receiver but is not satisfied with its performance... Tommy Grey of Cicero, Ill. has been in the navy RADAR school for about a month now... Gail Beyer, Chicago, Ill., has been reclassified into 1A, and is expecting the call anyday..... Hal Newell, formerly at WCAU, is now Director of Sports, at WGRC, Louisville... Roger Legge, Binghamton, N.Y. now has a dx rating of VAC 170, with 2000 foreign stations in all verified--a remarkable achievement... John Wilson is doing clerical work in Civilian Defense Hqts. in Wilmington, Dela... Mike Soplop, Buffalo, N. Y. is taking the code lessons course over WRUL... John May, formerly of Pittsburgh, and one of the world's leading dx'ers, is now Asst. Supt. of one of the big plants of the Wright's Automatic Tobacco Packing Machine Co., turning out defense materials at Durham, N.C.... Fred Borchardt & Bob Hetzel, Milwaukee, have been vacationing in the South....

Note: Shortwave list continued from Back cover

2.00	62.24	4.82	XEJG	Guadalajara, Mexico	Relays XEJB 11pm-12 mid.
	62.31	4.815	HJBB	Cucuta, Colombia	Signs-off at 12 mid.
	62.33	4.81	HV1RL	Maracaibo, Venezuela	12 noon-2, 5:30-11:30pm.
	62.44	4.805	JYDU	Medellin, Colombia	7-9:30pm irreg.
	62.50	4.80	YV1RX	Maracaibo, Venezuela	to 11:30pm.
	62.57	4.795	HJDX	Medellin, Colombia	6-11:35pm.
1.00	62.63	4.79	YV6RU	Cuidad Bolivar, Venezuela	6:30-10:30pm.
	62.70	4.785	HJAB	Barranquilla, Colombia	6-11:30pm.
	62.76	4.78	HUB	San Salvador, El Salvador	2-3, 9:30-12 mid. with YSD
	62.83	4.775	HJGB	Bucaramanga, Colombia	7-11pm.
	62.89	4.77	YV1RX	Coro, Venezuela	7:30-11pm ex. Sun.
	63.03	4.76	YV4RO	Valencia, Venezuela	11am-2, 5-10pm.
2.50	63.20	4.747	YV1RV	Maracaibo, Venezuela	10:45am-12:45, 4:30-10:30pm.
	63.83	4.70	ZQI	Kingston, Jamaica	5:15-6:15pm ex. Sun; Sun. 5:15-5:30pm.
	65.50	4.58	RV--	Khabarovsk, U.S.S.R.	7-11:30am approx.

86 METER BAND

	86.20	3.48	YV4RQ	Puerto Cabello, Venezuela	6-10pm.
1.00	86.70	3.46	YV4RP	Valencia, Venezuela	
	87.00N	3.45	YV6RC	Barcelona, Venezuela	
	87.20	3.44	YV1RU	Maracaibo, Venezuela	to 10:30pm.
	87.70	3.42	YV2RC	Merida, Venezuela	
	88.20	3.40	YV5RW	Caracas, Venezuela	Nightly to 11:30pm
	88.50N	3.39	YV4RK	Maracay, Venezuela	to 10:30pm
	88.80	3.58	YV5RY	Caracas, Venezuela	6-11:30pm.
	88.90	3.375	YV5RI	Caracas, Venezuela	to 12:25am.
	89.00	3.37	YV1RT	Maracaibo, Venezuela	6:30-11:30pm.
	89.60	3.35	YV5RS	Caracas, Venezuela	5:30-10:30pm. 3.360
	89.80	3.34	YV1RO	Trujillo, Venezuela	8-11pm. 3.315
	90.60	3.31	YV4RX	Maracay, Venezuela	
	90.90	3.30	YV1RJ	Coro, Venezuela	

YV5RX 3.505
YV3RX 3.410

	129.3	2.32	TGWC	Guatemala City, Guatemala	9-10am, 1:45-4:45, 6:16-1:15am, Sun. 10am-6:15pm.
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Note: Hang on to this list as the 86-meter band is only published once a year.

SHORT WAVE NOTES

EDITOR-IN-CHIEF--CHARLES A. MORRISON

ASSOCIATE EDITORS: Robt. Skyten, J. Wilson, August Balbi, Roger Legge,
Mrs. A. B. Allen, W.W. Lyerly, James Hart, and Murray Soplop.

PRESS DEADLINES: for AUGUST GLOBE CIRCLER, July 13; for AUGUST STOP PRESS SHEET, July 29. According to present plans August G.C. will be mailed on or about August 1st.

SHORTWAVE NOTES FOR THE GLOBE CIRCLER: During the present emergency short-wave information has become doubly important. We need plenty of notes. Please submit your items as follows- when possible: Use one side page only.....Double space all lines...Group items by continents...Be sure to state time used. We are particularly interested in items pertaining to: NEW stations; changes in frequency, or schedule; times for newscasts in English, or other languages; times of peak reception for the weaker stations or those of timely war interest; identifying signals; any detailed authentic information concerning station schedules, addresses, power etc. It is imperative that any important items reach me by fastest mail...FOUR STAR (****) items denote exceptional merit...Each FIVE STAR (*****) ITEM pays its contributor \$2.00 in war stamps...In crediting items the general geographical location of that member- if in North America- is shown as: E-Eastern; C-Central; W-Western. If foreign, the country or an abbreviation of that country is given.

NO STOP PRESS SHEET THIS MONTH--Due to circumstances beyond our control, there will be no Stop Press Sheet this month. This feature will be resumed in connection with the August Globe Circler--Ed.

FM BROADCASTERS NOW ACTIVE

43.9 W39B Mt. Washington, N.H.	45.1 W51C Chicago, Illinois. (Zenith)
44.3 W43B Boston, Mass. (Yankee Net)	45.1 W51R Rochester, N.Y. (Stromberg C.)
44.5 K45LA Los Angeles, Calif. (Don Lee)	45.3 W53H Hartford, Conn.
44.5 W45CM Columbus, Ohio (WBNS)	45.5 W55M Milwaukee, Wisc. (The Journal)
44.5 W45D Detroit, Mich. (Evening News)	45.5 W53PH Philadelphia, Penna. (WFIL)
44.5 W45BR Baton Rouge, La.	45.9 W59C Chicago, Ill. (WGN Inc.)
44.5 W45V Evansville, Ind.	46.5 W65H Hartford, Conn. (WDRG)
44.7 W47A Schenectady, N.Y.	46.7 W67B Boston, Mass. (Westinghouse)
44.7 W47NV Nashville, Tenn. (WSM)	46.7 W67C Chicago, Ill. (CBS)
44.7 W47NY New York City, N.Y.	46.7 W67NY New York City, N.Y. (CBS)
44.7 W47P Pittsburg, Pa.	46.9 W69PH Philadelphia, Penna. (WCAU)
44.9 W49D Detroit, Mich. (J. Lord Booth)	47.1 W71NY New York City, N.Y. (WOR)
44.9 W49PH Philadelphia, Pa. (Pa. Br. Co.)	47.5 W75P Pittsburgh, Pa. (Westinghouse)
The few experimental FM stations still on the air follow:	
42.6 W1XSN Springfield, Mass.	43.2 W3XO Washington, D.C. (Jansky Bailey)
42.6 W8XAD Rochester, N.Y. (WHEC)	43.4 W1XTG Worcester, Mass.
42.8 W2XMN New York City (Alpine, N.J.)	45.1 W2XWG New York City, N.Y. (NBC)
43.0 W9XYH Superior, Wisc.	45.9 W2XQR New York City, N.Y.
43.2 W2XOY Schenectady, N.Y. (G.E. Co.)	46.5 W9XER Kansas City, Mo.

SHORTWAVE NOTES

(Eastern War Time) **NORTH AND CENTRAL AMERICA** (Eastern War Time)

ALASKA WXH (9.92), Ketchikan, heard calling WVD, Seattle at 11:15pm (Allen-W)

CANADA Power of Canadian stations: CFCX (6.005) 75w; CJCX (6.01) 1000w; CFVP (6.08) 100w; CFRX (6.07) 1000w; CKFX (6.08) 10w; CBFW (6.09) 7500w; CHNX (6.13) 500w; CBRX (6.16) 150w; CBFY (11.705) 7500w (*Ayvazian-E)...CJCX (6.01), Sydney, has news in English at 5:15pm (M.Allen-E)

C.R. TI4NRH (9.74), Heredia, now celebrating 15th year on air, broadcasts daily 8-9am, Tues/Thurs/Sat 11pm-12 mid. Theme: "Prayer for Peace"; Signature a bugle call (*Allen, Legge, Payette, Ferguson, Brehmer, Hankins, Voisich-E, Lyerly-C) ...TIJMP (11.9), Sistema Nacional de Radioemisoras, Aptd 849, San Jose, verifies with a red, white & blue folder card; not heard lately (*Wedewer, Lyerly-C)

CUBA COBQ (now on 9.22), "Radiodifusora de Publicidad," "La Voz de Cuba," Vista Alegre 269, Vibora, Havana, relays CMBQ to midnight (Legge, Juett-E, Wedewer-C)...A letter to COBZ was returned by the U.S. Censor (Moser-C)...COCY (11.74), comes on the air at 6:30am with English & Spanish announcements (Hankins-E)...COCQ is still heard mornings on 9.515 in parallel with 8.83 (Legge, Hankins-E).

CURACAO PJCl (7.25), broadcasts 8-10:18pm; occasionally Sun. 6-7:15pm with

sports-cast; has French program 8:30-9pm. Identification is "This is the Curom." Closes down with announcements in Dutch, French & English; signs-off with the Dutch anthem (*Gozen, Ferguson, Hart-E, Baxter-W)

D.R. Power of D.R. stations follows: HILX (6.333) 300w; HI2X (11.96) 250w; HI1N (6.243) 700w; HI1Z (6.316) 100w; HI1G (6.280) 100w; HI2G (9:29) 100w; HIL (6.500) 60w; HIT (6.63) 100w; HI6H (6.115) 100w; HI1J (6.025) 40w; HIH (6.780) 250w; HI3C (6.15) 30w; HI1L (6.480) 200w; HI1S (6.44) 200w; HI9B (6.383) 200w; HI3U (6.015) 100w; HI1A (6.102) 300w; HI9T (6.170) 100w;

(*Ayvazian-E)... HI1A (6.19), Radiodifusora La Voz del Yaque, Apartado Postale 423, Santiago de los Caballeros, broadcasts 12:40-2:40, 8:40-10:40pm; verifies with pretty red, white & blue card (Ayvazian-E, Wedewer-C)... Schedule for HILX (6.333) and HI3X (11.88), Direccion General de Comunicaciones, Ciudad Trujillo, follows: Mon. 6:10-9:30pm, Tues. 6:10-10:30pm, Wed/Fri 6:10-9:10pm, Thurs. 6:10-9pm, Sat. 6:10-8:15pm (*Legge-E)... HI9T (6.174) verifies with red & blue card.

GUATEMALA TGWA (9.885), is on the air week nights 10-10:15pm with Spanish news; broadcasts English Hour Sat. 12:30-1am (Wilson-E, CAM-C)... TG2 (now 6.22), verifies promptly with blue-white postal card. /Top-E

MARTINIQUE "Radio Martinique" (9.705), broadcasts French news daily 8-8:15pm (Sop MEXICO XEBT (6.00), El Buen Tono, S.A., Aptdo. Postal 7944, Mexico City, verifies with a red & white card (Victory News)... XECC (6.19), Puebla, uses 3 chimes descending as interval signal; signs-off with a Strauss Waltz after a slow march at 2:00 a.m. (*Field-W)... XEQQ (9.68), opens Sundays at 9:30am with selection "Bolero" (Lyerly-C)... XEWW heard on 15.16, irreg. evenings (Ferguson-E)

PANAMA HP5F (6.05) not heard recently (Legge-E)... HP5G (11.78), broadcasts the news in English 9:45-10pm; Jamaica Hour (musical), in English, 11:30-11:45pm (Krumlinde-W)

U.S.A. All diathermy apparatus was registered on June 8 (FCC)... All public domestic point-to-point radio circuits within the U.S.A. are being closed for the duration on June 30 (FCC)... KGEI now broadcasts on 7.25, 1am-12 noon, in parallel with KET (9.48) and KEL (6.86). KKW (13.78) does not relay KGEI anymore. (Hankins, Wilson-E, Lyerly, Wedewer-C, Balbi-W)... NEW: KWID (15.29), Associated Broadcasters Inc, San Francisco, is now on the air, and operating nightly 9:00pm-3:00 a.m. to the Far East; English news at 11pm, 1:00, 2:00am (**Ferguson, Payette, Gozen, Wilson, Allen, Brehmer, Hale-E, Juett, Wedewer, Lyerly-C, Baxter, Picard, Allen, Balbi, Field, Krumlinde-W). Associated Broadcasters also seek a permit to install 50 kw stations at Los Angeles, and Seattle (FCC)... The CBS station now operates: over WCBX (15.27), 6am-3:45 to Europe, 3:47-11pm to S.A.; over WCRC (11.83), 6am-3:30pm to Europe, 3:47-11pm to S.A.; over WCDA on 17.83, 6-8, 9:15-10am to C.A.; & 3:30-4:45pm to Europe, on 17.83, 4:50-11pm to C.A. (CBS)... WCV (15.85), "The Voice of America," operated by Press Wireless, Hicksville, N.Y., now broadcasts program material to Europe, daily 9am-5pm; English news every hour on the hour (Brehmer, Payette, Ferguson-E, CAM, Lyerly-C; Picard-W)... WJQ (10.01), "The Voice of America," operated by Press Wireless, Hicksville, N.Y., now broadcasts program material, 6:00-10:15am (Payette, Ferguson, Hankins, Legge, Allen-E, CAM, Lyerly, Moser-C, Balbi, Baxter-W)... WKD (13.435), heard contacting Moscow for broadcast by Robt. Magidoff, (Ferguson-E)... WLWO operates on 15.25, 12:45-2:30, 10am-5:15, 6:30-7:45 (Sun. 5:30-7pm); on 11.71, 8pm-12 mid. (Sun. 7:15pm-12 mid) (WLWO)... WNBI-WRCA have been granted permission to add freq. of 15.19; See list for revised skeds for these stations (FCC)... See list for revised skeds for WRUL-WRUW-WRUS (Balbi, Picard-W, Wilson-E, WRUL)

SOUTH AMERICA

ARGENTINA LRX (9.66) now comes on the air at 6:00 a.m. (Hankins-E)

BOLIVIA CP38 (9.48) identified by a woman announcer as "Radio Nacional de Bolivia," is heard with fair signals in early evenings (Ferguson-E)

BRAZIL PSE (14.935) broadcasts Fridays 8-8:30pm in Spanish (Becker-E)... PYD8 (11.765) heard again irreg. to 10:15pm (Balbi-W)

CHILE CB1190 (11.96) has not been heard for about two months (Lyerly-C)

COLUMBIA HJCT, Bogota, has moved to 6.22 mcs. (Legge-E)... HJ-B, "La Voz de Victor," Barranquilla, heard on 14.536 at 11:15pm (HS); also unknown Barranquilla station heard on approx. 12.5, 1:30-3:30pm (Goddell-E)

DUTCH GUIANA PZX5 (15.40), gives the news in Dutch at 7:30pm (Ferguson-E). Using the commercial call PZC this station may frequently be heard calling WDO, N.Y. near 4 and 6pm (Hankins, Hart-E, Beyer, Juett-C)... PZX3 is now on 5.865 (Legge-E).

ECUADOR HCJB (12.455) opens evenings now at 6:30pm (Ferguson, Mayer-E, Picard-W)

HCIQRX (5.972), Quito, formerly HCQRX, relays HCIQR nightly to 11:35pm (Legge-E)..

HZRL (6.635), operated by Dr. Roberto Levi, Quinta Piedad Apartado Postal 759, Guayaquil, verified after several months (Victory News)

PARAGUAY NEW: ZPAG (15.165), "Radio Panamerica," Villa Encarnacion, Asuncion, is

being heard nightly, in Spanish, from 6:00 to 9:00 or 10:00pm; announces every 15 minutes (**Ayvazian, Legge, Ferguson, Gozen, Allen, Payette, Hart-E, Juett, Wedewer-C, Baxter-W)...A letter-vert from ZPA2 stated that this is the same station as ZP-14, which formerly operated on 11.72; the transmitter having been increased in power and moved from Villarrica to Asuncion. The mailing address for ZPA2 is: Teleco Paraguaya, S.A., Avda. R.S.Pena 615, Buenos Aires (**Thomas-E)

PERU OAX4K (9.715), "Radio Goicochea," Apartado 1427, Lima, verified promptly with a letter from Gustavo Montoya, Gerente (**Legge-E)...OCC2 (18.68), heard contacting N.Y. at 5:50pm (Legge-E)

VENEZUELA YVQ (13.345) and YVR (9.15), heard 10;15-10:55pm relaying a Caracas station (M.Allen-E)...YV4RK (3.39), "Radio Maracay," Apartado 63, Maracay, operated by Ormezzano & Capriles, verified with yellow & red card (Legge-E)...Rev. J.Y. Rincon signed card of YV5RX (Victory News)

AFRICA

EGYPT Radio Cairo has been heard on 5.75 & 6.1 irreg. (Burton-Eng, NZDXRA)

F.SOMALILAND FZEB (17.28), Djibouti, heard one Sunday afternoon broadcasting in English, and saying they would be on every Sunday, but not heard since (**Burton)

MOZAMBIQUE Lourenco Marques now broadcasts as follows: 1-2, 5:30-8am, 1-5pm (Th/Fri/Sat to 5:15pm); Sun. 5:30-8, 11am-3pm, on 6.097, 9.843, and 15.247 (this frequency given as 15.215 but believed incorrect). News in English is given at: 1:55, 6:55am, 1:12, 4pm ex. Sun; Sun. 6:55am, 2:45pm. (Ferguson, Hart-E, Van Auken, Wedewer-C, Burton-Eng). CR7BE (9.843), heard 7:45-8am (Baxter-W)

SO.AFRICA ZRD (6.15), Durban, heard some nights real good at 1:45am (Field-W).

EUROPE

UNIDENTIFIED- Undercover on 11.35, still heard 2:30-2:40pm in Serbo-Croat (Legge) ...Undercover on 11.60, still heard 4:15-4:25pm in Roumanian or Italian; Opens with short piano selection (Legge-E)...Unidentified on 11.735, heard 1-1:45pm, but according to announcement starts at 11:45am; English news 1:15-1:25pm (Hart-E)...Freedom station on 11.785, 3-3:30pm, in Serb? (Hart-E)...Spanish speaking station on 11.875, signs-on at 7pm (Hart)...Unidentified on 15.242, heard announcing in English, something like Radio Mexical and giving sked in East Europe Time, at 6:30am (HS)

ANDORRA Radio Andorra heard on 12.24 & 12.4 mcs. lately (Burton, Pybus-England)

AZORES Ponta Delgada on 14.68 approx. heard 2-3pm or a little later. This apparently replaces the 7.33 megs freq. for the summer (Ferguson-E)

BULGARIA A station believed to be in Bulgaria, on 9.40 mcs., comes on the air at 4:00pm, with a march, followed by what sounds like "Yahwoal Bulgaree" (Burton-Eng)

ENGLAND Extensive changes in frequencies used in BBC transmissions were instituted on June 1. We will endeavor to include as many of these as possible in the shortwave list. Frequencies beamed on N.A. are now approximately as follows: In Eastern Trans.: 6:45-11:15am over GRE (15.39); In African Trans.: 11:30 am-12:30pm, 3:15-3:30, 3:30-5pm over GRE (15.39); 1:30-3:00pm over GRP (17.89); 3:30-5pm over GRP (17.89) and GRY (9.60); in N.A. Trans.: 5:15pm-12:45am over GRG (11.68), GSD (11.75), GRH (9.825), GSC (9.58). In the N.A. Trans. GRY (9.60), broadcasts 5:15-6:45pm to Africa, GSF (15.14), 5:15-8pm to S.A., GRF (12.095), 6-10:45 pm to S.A...English news bulletins in the N.A. Service are now broadcast at 545, 6:45, 9:00, 10:45pm and 12:30am (**Wilson-E, Juett-C, Balbi-W)

FINLAND Suomen Vapaus Radio (Finnish Freedom Station) (11.59), not heard recently (Skyten-E)...Lahti stations now operate approx: 10:55am-7:05pm over OIE (15.19), OFE (11.785), OFD (9.495), 12:15-1:30am with home service. Broadcasts to N.A. are made: 2:05-2:35pm over OIE, OFE, OFD, 8:25-8:50 and 11:05-11:50pm over OFE, OFD; English news at 12:45, 2:10, 6:15, 8:25, 11:10pm (*Hart, Ferguson, Allen, Hankins, Becker-E, CAM, Lyerly-C, Picard-W)...Reception reports should be sent to the Finnish Legation, Washington D.C. (Ferguson-E, Moser-C)

FRANCE Vichy's 12:45 to 1:40am transmission to Indo China, is now made on 9.52 instead of 15.24. (Balbi-W*)...NEW: DXL6 (15.13), Paris, broadcasts approx. 10:30-11:15am, 12 noon-12:30pm, 5:50-9pm (**Wilson-E)

GERMANY "Gustave Siegfried Eint" heard on new freq. of 9.605, 9:55-10pm (Allen) ...Guess Who of the BBB broadcasts from Berlin, Tues/Thurs 9:15-9:30pm, is none other than Robt. H. Best of Sumter, So. Carolina (**Ferguson-E, CAM-C)...DZB (10.04) is being heard 4-4:20pm and 12 mid.-12:30am (Becker-E, Lyerly-C, Balbi-W)...DJX (9.675), has English news at 12:30pm (Lyerly-C)...Berlin now broadcasts to N.A.: 7-9:45am over DJB (15.20) and DXT (15.23); 5:50pm to 12 mid. over DJB (15.20), DXL7 (11.885), DJD (11.77), DZD (10.545), DXL24 (9.62), DZH (14.46); 5:50pm-2am over DXC2 (11.74), DXJ (7.24) (**Wilson, Brehmer, Hankins-E, Krumlinde, Balbi, Baxter-W)

IRELAND Has anyone heard "Radio Eirrean" on 15.12 or 9.595 lately? If anyone has present schedule please send it to us at once--Ed.

ITALY NEW Rome frequency of 6.30, is in use daily 6-6:50pm with 2R03-4-6-11, and 11.95; English news at 6:20pm (Legge-E)...The call on 15.06 has been changed to 2R011 (Becker-E)...2R018 is now on 9.78 (Baxter-W, Juett-C)...2R07 (17.77), operates 8-9,10-11,11:30am-12:55pm (Wilson-E)...2R08 (17.82), is heard approx., 7:00-7:25,8:50-9:00am to NA, 2-2:30pm; English news at 8:50am (Wilson-E).

POLAND DXH2 (15.12) heard at 6:30pm with DJB,DJQ,PCJ2 (Legge-E)

PORTUGAL Emissora Nacional broadcasts 12 noon-4:30pm over CSW6 (11.04); 4:40 5:50,6-7,7:10-9pm to NA (*Hart,Ferguson-E, CAM-C)... Unidentified. Portuguese announcing as Emissora Nacional (May be relaying Emissora Nacional), is heard daily 5-5:30pm on 11.72. No English (**Wilson-E,CAM-C)

SPAIN Radio Spain (9.86), now on summer schedule broadcasts 1-2, 7-8pm to NA ...Also heard Sun.5-5:35pm (Ferguson-E,Juett-C)

SWEDEN SBT (15.155) is heard irregularly 8-8:15am,7-7:15pm with pickup of David Anderson in Stockholm for American networks (*Pagenhardt, Gozen-E)...SBP (11.705) heard coming on at 5pm (Becker-E)...Reports on the Stockholm Station can be sent to the Swedish Legation, Washington, D.C. (Moser-C)

SWITZERLAND HER4 (9.538),HER5 (11.865), have advanced their schedules one hour; now broadcast 6:45-8:10pm to S.A.; 8:45-10:15pm to NA; English news at 9pm (Payette,Ferguson,Pagenhardt,Becker-E, Moser,Juett,Lyerly-C, Picard,Balbi-W)... According to verification from Bern, station may soon begin transmissions on 19 meter band--probable frequency 15.305 (Becker-E,Picard-W).

U.S.S.R Effective May 8, the following new timings and frequencies for Soviet-English transmissions to N.A. became effective:

7:40-8:20am (English news at 7:45am) over: 15.265,15.23,15.18,11.885,9.545,15.11

10:40-11:45am (10:40-11am in English) over 15.18,15.17

5:15-5:40pm (English news at 5:15pm) over: 15.23,11.885

6:30-7:30pm (7:00-7:30pm in English) over: 15.265,15.23,15.18,15.11, 6.115,6.98

8:00-8:45pm (English news at 8:15pm) over: 15.265,15.18,6.98, 15.11, 6.115

9:00-9:40pm (English news at 9:15pm) over: 15.23, 15.11,15.265

11:15-11:40pm (English news at 11:15pm) over: 15.23, 15.11,15.265

Russian & Foreign language broadcasts are heard at:

8:30-9:30am (English news at 8:45am) over 12.18,12.06

10-11:30am over: 12.235

11:30am-12:30pm over: 12.18

7:00-10:30pm over: 10.01,7.52

10-11:30pm over: 15.265

11pm-1am, or later, over: 14.06,13.71,12.235,12.18,9.52,7.52

12 mid.-2am over: 15.265,15.18,9.566 (**Becker,Allen,Hankins,Legge,Kernan,Wilson,Ferguson,Hart,Gozen,Cherkassky,Voisich-C,Lyerly,Wedewer,Juett,CAM-C, Allen, Balbi,Field,Baxter,Picard-W... The 15.18 frequency is RV96,Moscow,back on the air. The 15.265 frequency is a new one and may indicate a new transmitter. This transmitter is definitely in Siberia--probably the central part (*Legge-E)

ASIA AND OCEANIA

AUSTRALIA VIS (9.84), heard near 7:45-8:15am with arrangements for, and program pickups for American networks (Legge,Ferguson-E,Beyer-C,Baxter-W); VLK (10.525) heard irreg. near 3:00am with program pickups for Gt.Britain (Baxter,Balbi-W)..

...John Wilson,Wilmington, Dela., received a veri' from Australia on May 13, in answer to a report sent Aug.20, 1940. Ball of the Australia Broadcasting Corp. claims he did not receive Wilson's report until April 20, 1942. . . Following a list of new transmissions, new frequencies or other changes in Australian

schedules recently (EWT): 12:25-1:10am to W.NA over VLG6 (15.23); 1:15-1:45am

(Eng.news) over VLG6(15.23); 1:55-2:40am (French) over VLG6 (15.23)VLQ6 (9.58);

2:55-3:25am (English) to Gt. Britain over VLG6 (15.23) VLQ6 (9.58); 3:40-6am

over VLG6 (15.23); 6:50-7:15am over VLQ2 (11.87); 7:25-8:10am to E.NA over VLQ2

(9.54); 9:15-10:50am to S.E.Asia over VLG2 (9.54) VLW6 (9.68); 11-11:45am to

W.NA over VLG2 (9.54) VLQ2 (11.87); 5:45-6:15pm (Eng.news) over VLG7 (15.16);

7:25-8pm to E.NA (tests irreg.) over VLG2 (9.54) VLQ4 (7.22); 10:45pm--12:15am

over VLG7 (15.16)....VLW3 (11.83),Perth,operates 2-6:45am; VLW6 (9.68), Perth,

operates 7-10:50am (**Kernan,Legge,Voisich,Bailey,Ferguson,Allen,Hart,Hankins,

Pagenhardt,Payette-E, Bergeron,Lyerly,Wedewer,CAM-C, Balbi,Krumlind,Field,Bax-

ter-W)

CHINA Unidentified: on 6.22, heard daily from 7 or before to approx.10am.

(Baxter-W); on 9.89, heard daily from 7:30 or earlier to 9am (Baxter-W);on 9.90

heard weakly approx. 9-9:45am (Baxter-W)...FFZ (12.06) now has Eng.news at 8:15

am (Balbi-W)...XGAP (10.26),Peiping, now heard 8-10am (no English)(Balbi-W)....

XGOX (currently on 15.17) now heard 6:30 to approx.10pm (Hart-E,Baxter-W).....

XGOY,Chungking, broadcasts as follows: on 11.90, 6-6:55am to Asia & Australia,

7-7:30am to Japan; on 9.635, 7:35-11:25am to N.A. & So.Seas; on 11.90, 11:35-

11:55am to Near East; News in English broadcast at 6,8:30,10,11am (**Ong,Balbi-W, Ferguson,Hart-E, Lyerly-C)...XGRS (11.68) also has English news at 6:15,7:30 am (Hankins-E, Balbi-W)...XIRS (now 11.99), Shanghai, is still heard well daily approx. 4:20-10am; English news at 9:30am (Baxter-W**)

FIJI'S Several members have received veri's from Suva Radio recently. This station is not heard at present (*Kernan-E,Wedewer-C,Field-W)

F.INDO-CHINA Radio Saigon (11.775 but on 11.79 irreg.), now operates 6am-12 noon, 1-1:30, 7:45-8:20pm. New transmission 10:30-11:30 instituted June 1, is beamed on India. English news bulletins are read at 7:30,11,11:45am. English commentary is broadcast Tues/Thurs/Sat at 7:45am (**Hart,Beckner,Ferguson,Hankins-E,Lyerly C, Balbi-W.) Radio Saigon sometimes relays Tokyo programs at 7:00am (Balbi-W)

INDIA Address for the British Broadcasting Corp.in India is BBC,New Delhi (CAM-C)..."The Voice of Free India" (11.47--9.40) has not been heard for some time (Allen-E)...VUM2, Madras, India, is off the air (Van Auken)...See list for some alterations in operating schedules.

JAPAN The Japs claim to have seized an American radio station in Chekiang Province,China (Balbi-W,CAM-C)...Nagasaki heard calling Taihoku on 10.19 at 3am (Balbi-W)...Tokyo is sending special programs to Germany and Italy for rebroadcast on their respective networks (Balbi-W)...English transmissions from Radio Tokyo are now about as follows: 11:25pm-2:30am to W.NA over JZK (15.16), & JZJ (11.80); 3:15-4:15am over JZL (17.785) JZJ (11.80); 5am-2:30pm over JZJ(11.80), JZI (9.535); -to 12 noon over JZK (15.16); 2:55-6:30pm over JZJ (11.80), JZK (15.16); 6:55-11pm to E.NA over JZK (15.16) JZJ (11.80). English news is broadcast as follows: 11:30pm, 2am over JZK,JZJ; 4am over JZL, JZJ, 5,8am over JZK,JZJ JZI; 10:30am over JZK; 11am over JZJ,JZI; 2pm over JZJ,JZI; 3,6pm over JZJ,JZK; 7,10:10pm over JZJ,JZK (**Beckner,Kernan,Gozen,Hart,Hankins,Payette,Ferguson,Allen,Legge-E,Moser,Lyerly,Wedewer,CAM-C,Balbi,Baxter,Picard,Field-W).....Daily at 8:45am Radio Tokyo makes a special English broadcast to the Philippines over JZJ,JZK (CAM-C)...Japanese & foreign language transmissions from Tokyo can be heard about as follows (EWT): over JWV3 (11.725), 10pm-3am; irreg. to 9:45am; over JVZ2 (11.825), 12 mid. to 12 noon intermittently; JWV2 (9.675), 5-9am, JWV (7.277), 7-9:30am; JWV4 (15.235), 4-7 approx.,JV--(11.74), 2-9am (**Balbi, Baxter-W,CAM-C)

JAVA Unidentified Oriental on 3.04, daily to about 8:00 a.m. may be old YDA, Tandjongprik, now under Jap control (Baxter-W)

LEBANON (Syria) FXE (8.035), "Radio Levant," Beirut, Lebanese Republic, verified in form of prepared card signed by "C.H.Ingert." Report was sent to American Consul General in Beirut and apparently card was returned with official Consulate mail as it bears Lebanese stamps but was cancelled in Washington D.C.It is stamped "This article originally mailed in country indicated by postage" (** Roy Waite-Ballston Spa, N.Y.)

MALAYA Singapore is again on the air.About the middle of May a station operating on a frequency of 12.20 mcs., and identified as the Shonan (Japanese name for Singapore) Broadcasting Station was first heard. It now operates daily from 6:00 to 9:30 a.m., with English news at 9:15am. The station is best heard from 9:00 a.m. on as code qrm is bad earlier (**Balbi;Baxter-W)..."Letter returned saying no mail service to Penang. Report was mailed Dec.18"(Hart-E*)

MANCHUKUO Transmissions from Hsinking are now heard as follows:1:30-3am to NA over MTCY (11.775; sometimes on 11.79) and HLA2 (10.065); 9-11am over MTCY (9.545); 5-6pm over MTCY (9.545); also domestic programs 3-8:30am on 6.125, and 3-10:30am on 6.03 (no English)(**Balbi,Baxter-W)....Since June 8, MTCY has been relaying personal messages and greetings from United Nation's nationals interned in Manchukuo, daily at the conclusion of each English news-cast,these broadcast at 1:30,2:30,9,10:30am,5pm (**Balbi-W)

PHILIPPINES KZRH, Manila, still broadcasts daily 7:00pm to 10am, on 6.14, 9.635, and a new frequency of 11.62 This last named frequency replaces 11.89 and is heard irregularly in parallel with the other two. English news is broadcast at 8 and 9:30 a.m.The slogan is now given as "The Voice of the NEW Philippines," In closing the announcer says "God Bless and Keep you all" (**Balbi,Picard,Baxter-W, Lyerly-C,Becker-E)

TAHITI FO8AA (6.98), is heard Tues/Fri 11:55pm-12:55am. Transmission opens with the "Marseillaise," is in French language to 12:15am, and in native Tahitian to close-down (**Balbi-W)

TASMANIA A station identified as "Hobart Calling" has been testing with another station on 15.50 megs,near 12 mid.Announcer has English accent(Baxter-W)

THAILAND Bangkok station HSP5 (11.715), now gives the news in English daily at 8:00 and 9:15am (**Balbi-W). Bangkok is not being heard in the central or eastern stations at present (Hart-E,CAM-C)

SHORT-WAVE BROADCASTING STATIONS

SYMBOLS: N — NEW stations, F — Frequency changes, S — Change in sked, J — Stations persisting in hopping about, V — Varying in frequency, * — See shortwave notes IMPORTANT English news periods are indicated in list as NEWS.

METERS	MEGS.	CALL	STATION	LOCATION	TIME	EASTERN WAR
13 METER BAND						
13.86	21.84	GRZ	London, England		7:15-8, 8:15-9am	
13.92	21.55	GST	London, England		9:45-11:15am to S.A.	
13.97	21.47	GSH	London, England		6:45-11:15am to Africa	
15.31	19.59	2RQ17	Rome, Italy		7:30-9:30, 11:30am-12:45pm	am
16.61	18.065	PCV	Kootwijk, Holland		7:30-11:45am...News 7:45, 8:45, 10:30, 11:30	
16 METER BAND						
16.64S	18.03	GRQ	London, England		7-9:30am (Sun. 6:45-9:30am)	
16.77S	17.89	GRP	London, England		6:45-11:15, 11:30-12:30, 1:15-3 to NA, 3:00-3:15, 3:15-5pm to NA...News 2, 4:45pm.	
16.81	17.85		Vichy, France		7:30-8:15am to NA, 8:30-9:15, 10:45-11:30a	
16.81	17.845	DJH	Berlin, Germany		3:45-11am	
3000 10000	16.82	17.84	Athlone, Ireland		8-9:30am, 1:30-2:15pm...News--1:45pm	
16.83S	17.83	WCDA	New York City, N.Y.		4:50-11pm	
16.83	17.83	LRA5	Buenos Aires, Argentina		Fridays 5-5:30pm	
16.84S	17.82	2R08	Rome, Italy		7-7:25, 8:50-9am to NA, 1:30-2:50pm to NA.	
16.84S	17.81	GSV	London, England		3-4:15, 6:45am-1:30pm	
16.85	17.80	OIH	Lahti, Finland		7am-1:30pm, or later /am, 12:30-12:45pm	
16.86S	17.79	GSG	London, England		6:30-7:30, 7:45-8, 9:30-10:45, 11:15-11:30-	
16.87S	17.785	JZL	Tokyo, Japan		3:15-4:15am approx.	*
16.87S	17.78	WNBI	New York City, N.Y.		9am-4:40pm to Europe	
16.88S	17.77	2R07	Rome, Italy		8-9, 10-11, 11:30am-12:55pm.	*
16.89S	17.76	DJE	Berlin, Germany		2:30-7, 7-9:30, 11am-11:45am.	*
16.90S	17.75	WRUL	Boston, Mass.		10-10:55, 11am-12:30; Sun. 10am-12 noon.	
17.36n	17.28	PZE8	Djibouti, F.Somaliland		Heard very irreg.	*
19 METER BAND						
18.93N	15.85	WCW	Hicksville, N.Y.		9am-5pm.	*
19.42S	15.45	GRD	London, England		3-4:15am to N.Z./8:40pm; Su. 9:10-11:40am	
19.48	15.40	PZX5-PZC	Paramaribo, Dutch Guiana		7:40-9:40pm ex. Sa/Su; Sa. 5:40-	
19.51S	15.39	GRE	London, England		3-4:15, 6:30-6:45, 6:45-11:15, 11:30am-12:30pm to NA, 12:45-1, 1:15-2:15, to NA, 2:30 to 2:45, 3:13-3:30, 4-5pm to NA...News 7, 9am, 1-3:15am, 12:30-2pm /Noon, 2, 4:45pm.	
19.53	15.36	DZG	Berlin, Germany		10-10:55, 11am-12:30pm, 1-6:30pm ex. Sun;	
19.54S	15.35	WRUW	Boston, Mass.		1am-12 noon to Asia /Sun. 10am-Noon.	
19.56	15.34	DJR	Berlin, Germany		9am-6:30pm	
19.57	15.33	WGEA	Schenectady, N.Y.		7pm-12 mid.	
19.57	15.33	KGEI	San Francisco, Calif.		7-9:30am /10:45am 1-2:15pm.	
19.58	15.32	DXU	Berlin, Germany		1-4:15, 6:30-7:30, 8:15-8:30, 9:30-10, 10:30	
19.60S	15.31	GSP	London, England		2:15-2:30, 3-3:30, 3:40-4:20, 6:30-7:15, 7:30-10:30am, 2:50-6:50, 7-9:30pm, 12:30-1:30am to W.N.A..News--2:50, 5, 6:20, 1am.	
19.61S	15.30	2R06	Rome, Italy		9:00pm-3:00am.	*
19.62N	15.29	KWID	San Francisco, Calif.		2:30-4:55am	
19.62S	15.29	VUD2	Delhi, India		7:15-8:15am.	
19.62	15.29	LRU	Buenos Aires, Argentina		1-3:30, 7am-12 noon, 3:30-3:45, 4-5:45, 5:50	
19.63S	15.28	DJQ	Berlin, Germany		6am-3:45, 3:47-1am. /-10pm.	
50000	19.64S	15.27	WCBX	New York City, N.Y.	12 mid.-2, 7:40-8:20, 6:30-7:30, 8-8:45, 9:15-9:40, 10-11:30pm...English at 7:40am	
19.65N	15.265		Moscow-Komsomolsk		6:48, 8, 9:15, 11:15pm.	*
19.66S	15.26	GSI	London, England		11:30am-2:45pm to So. Africa	
19.67	15.25	WLWO	Cincinnati, Ohio		10am-5:15, 6:30-7:45pm.	
19.67S	15.247	CR7BD	Lourenco Marques, Mozambique		1-2, 5:30-8am, 1-5 (Th/Fri/Sat.-to 5:15pm); Sun. 5:30-8, 11am-3pm.	*
19.69	15.24		Vichy, France		9:30-10:30, 11:45am-12:45, 1-1:45, 2-2:45pm	
19.69	19.235	JVV4	Tokyo, Japan		4-7am approx.	
19.70	15.23		Moscow-Komsomolsk		7:40-8:20am, 5:15-5:40, 6:30-7:30, 9:15-9:40, 11:15-11:40pm...English 7:40am, 5:15	
19.70	15.23	2R014	Rome, Italy		6:48, 9:15, 11:15pm. 1:30-2:40, 6:15-6:25, 7-10:30, 11:30am-1pm.	

19.70	15.23	DXT	Berlin, Germany	7-9:45am...News--7:30,8:30,9:30am.
10000 19.70S	15.23	VLG6	Melbourne, Australia	12:25-1:10am to W.NA, 1:15-1:45, 1:55-- 2:40, 2:55-3:25, 3:40-6am...English news- 12:30, 1:15, 2:55am. /7:45, 8:45, 8:30, 1030 7:30-11:45am, 4-5:45, 5:50-10pm...News at 5pm-1:10am.
19.71S	15.22	PCJ	Huizen, Holland	7-9:45am to NA, 11am-12, 12:30-12:45, 5:50pm-12 mid. to NA...News--7:30, 9:30, 11:30am, 12:30, 7, 8, 9, 10, 11pm.
19.72	15.21	WBOS	Boston, Mass.	7-9:45am to NA, 11am-12, 12:30-12:45, 5:50pm-12 mid. to NA...News--7:30, 9:30, 11:30am, 12:30, 7, 8, 9, 10, 11pm.
19.72S	15.20	DJB	Berlin, Germany	7-9:45am to NA, 11am-12, 12:30-12:45, 5:50pm-12 mid. to NA...News--7:30, 9:30, 11:30am, 12:30, 7, 8, 9, 10, 11pm.
19.75	15.195	TAQ	Ankara, Turkey	6:30-8am.
19.75	15.19	OIE	Lahti, Finland	10:55am-7:05pm...News--12:45, 2:15pm.
19.76S	15.18	GSO	London, England	12:30-12:45 (Afrikaans)
19.76S	15.18	RV96	Moscow, U.S.S.R.	12-2am, 7:40-8:20, 10:40-11:45am, 6:30 to 7:20, 8; 8:45pm...English 7:40, 10:40a.m., 6:55-8am, 2:45-3:45pm/6:48, 8:00pm.
19.77	15.175	OQ2AA	Leopoldville, Bel. Congo	6:55-8am, 2:45-3:45pm/6:48, 8:00pm.
19.78N	15.17		Moscow-Komsomolsk	10:40-11:45am. *
19.78V	15.17	XGOX	Shanghai, China	6:30-10pm approx. *
19.78	15.17	TGWA	Guatemala, Guatemala	1:45-2:55pm to NA; Sun. 1:45-6:15 pm.
19.78	15.165	PRE9	Fortaleza, Ceara, Brazil	9:10am-12 noon.
19.78N	15.165	ZPA6	Encarnacion, Asuncion, Paraguay	6-9pm, or later. */5:45pm*
19.79S	15.16	VLG7	Melbourne, Australia	5:45-6:15, 10:45pm-12:15am...News 11:25pm-2:30am to W.NA...News- 5, 8, 1030 am, 3-6, 7, 10, 11, 30pm, 2am. /11am
19.79S	15.16	JZK	Tokyo, Japan	5am-12 noon, 2:55-6:30, 6:55-11pm to E.NA 11:25pm-2:30am to W.NA...News- 5, 8, 1030 am, 3-6, 7, 10, 11, 30pm, 2am. /11am
19.80	15.155	SBT	Stockholm, Sweden	8-8:15am irreg., 11am-12 noon...News at
19.81	15.15	WRCA	New York City, N.Y.	9am-3:15, 4:55-5:30pm. /pm, 3-4:15am.
19.82S	15.14	GSF	London, England	6:45-11:15, 11:30am-4:15, 4:35-5, 5:15-6:15
19.83S	15.13	DXL6	Paris, France	10:30-11:15am, 12 noon-12:30, 5:50-9pm. *
10000 19.84	15.12		Athlone, Ireland	2:30-5pm. / (Spanish).
19.84	15.12	HVJ	Vatican City	10:30am-lpm or later; Sun. 8:30-8:50 pm,
19.84n	15.11		Moscow, U.S.S.R.	7:40-8:20, 9:15-9:40am, 7-7:30, 9:15-9:40pm.
19.85	15.11	DJL	Berlin, Germany	1-3:15, 7:30-7:45, 8:30-8:45, 9:30-9:45, 4:30-6am (Fri. 4-7am) /11:40am-5:30pm.
19.86	15.10	EPB	Teheran, Iran	4:30-6am (Fri. 4-7am) /11:40am-5:30pm.
19.92C	15.06	2R011	Rome, Italy	10-10:30, 11:30am-1, & afternoons. *
20.07S	14.935	PSE	Rio de Janeiro, Brazil	Thurs. 4-4:30pm (Italian), 8-8:30pm
20.11	14.92		Sverdlovsk, U.S.S.R.	8:30-9:30am (English)
20.48F	14.68		Ponta Delgada, Azores	2-3pm or later. *
20.75	14.46	DZH	Berlin, Germany	11am-Noon, 3:30-4:15, 5:50pm-12:15am.
20.83	14.40		Kuibyshev, U.S.S.R.	8:45-9:15am (English)
21.88N	13.71		U.S.S.R.	11pm-lam approx. *
23.88	12.83	CNR	Rabat, Morocco	8-9am (French) /5:30pm, 6:30-11:00 pm.
24.09S	12.455	HCJB	Quito, Ecuador	7:45-9:30am, 12:30-3:30, (Sun. 9:30am-
24.51?	12.24		Radio Andorra	Heard afternoons irreg. *
24.52S	12.235		Sverdlovsk, U.S.S.R.	8:20-8:30, 10-11:30am, 11pm-lam. *
24.59N	12.20		Shonan-Singapore, Malaya	6-9:30am...News--9:15am. *
24.61S	12.18		U.S.S.R.	8:30-9:30, 11:30am-12:30, 11pm-lam. News- 10-3:45, 3:55-5:45, 5:50pm-12:15a/8:45am.
24.73S	12.13	DZE	Berlin, Germany	7:15-8am, 2:30-4:15, 5-7pm...French news, 3-11:45am, 12-1:45, 2-3, /4, 5:30pm.
24.75	12.12	TPZ	Alger, Algeria	3:15-4, 6:30-10:45pm.)
24.80S	12.095	GRF	London, England	12-2, 4:30-10am...News--8:15am.
24.88	12.06	FFZ	Shanghai, China	8:30-9:30am...News--8:45am.
24.88S	12.06	RNE	Moscow, U.S.S.R.	8:30-9:30am...News--8:45am.
24.92SS	12.04	GRV	London, England	3:30-5, 8:15-9:15, 11:30am-12:30, 12:45- 4:45, 6:30-10:45pm.
25 METER BAND				
25.02S	11.99	XIRS	Shanghai, China	4:20-10am...News--9:30am.
10000 25.04	11.975	CB1180	Santiago, Chile	7:30-10am, 6:15pm-12 mid.
25.05	11.97	FZI	Brazzaville, Middle Congo	2-2:20, 9:30-10am, 3:45-5:30, 11pm- 12 mid. to NA...News--3:45, 11:45pm
25.10S	11.95	2R0	Rome, Italy	10:30am-12:15, 1-8:15, 8:30pm-12 mid. to- NA, 12:30-1:30am to W.NA, 1:30-2:30am.
25.18	11.915		Anti-Fascist	9-9:30, 11-11:30am, 3-3:30, 5-5:30, 7-7:30,
25.21	11.90	TIJMP	San Jose, C.R.	8-9:30am, nights to lam /9-9:30pm, 1-130a
25.21S	11.90	XGQY	Chungking, China	6-6:55, 7-7:30, 11:35-11:55am...News--6am
25.23S	11.89	WNBI	New York City, N.Y.	4:55pm-1:10am
25.24	11.885		Paris (Mondiale), France	2-5:10pm
25.24	11.885	DXL7	Paris, France	5:50pm-12 mid. to NA...News 7, 8, 9, 10, 11

25.24S	11.885	Komsomolsk, -Moseow, U.S.S.R.	7:40-8:20am, 5:15-5:40, 6:30to 7:20, 8-8:45, 9:15-9:40, 11:15-11:40pm...
25.25	11.88	HI3X Trujillo City, D.R.	Mon. 6:10-9:30pm; Tu. 6:10-10:30pm; Wed. & Fri. 6:10-9:10pm; Th. 6:10-9pm; Sa. 610 / -8:15pm.
25.25	11.88	VLR3 Melbourne, Australia	9pm-3:30am.
25.25	11.88	VLG5 Melbourne, Australia	5-7am.
25.27	11.87	VLQ2 Sydney, Australia	6:50-7:15, 11-11:45am to W.N.A... News 11a
25.27	11.87	WBOS Boston, Mass.	5:00pm-1:10am (Sun. to 1am) / News--9, 10pm
25.28S	11.865	HER5 Bern, Switzerland	6:45-8:10, 8:45-10:15pm to NA ex. Sat...
25.29	11.86	XMHA Shanghai, China	5-11am, 8-8:30pm... News, 9, 10am, 8pm.
25.29S	11.86	GSE London, England	1-2:15, 2:30-4:20pm.
25.30	11.855	DJP Berlin, Germany	1-3:15, 7am-4:20, 5:50pm-12:15am. /pm
25.33	11.845	Vichy, France	3:45-4:30am, 3:45, 4-4:45, 5-5:45, 6-6:45
25.35S	11.84	DHE4A Prague, Bohemia	4:30-6:30, 6:50-9:15pm
25.36S	11.83	VUD4 Delhi, India	2:30-4:55, 7am-1:35, 10pm-1am.
25.36S	11.83	VLW3 Perth, W. Australia	2-6:45am.
25.36S	11.83	WCRC New York City, N.Y.	6am-3:30, 3:47-11pm
25.37	11.825	CXA14 Colonia, Uruguay	4:30-10:05pm
25.37S	11.825	JVZ2 Tokyo, Japan	12 mid.-12 noon intermittently *
25.38	11.82	GSN London, England	6:45-11:45am, 12-12:15, 3:15-4:15pm
25.38	11.82	XEBR Hermosillo, Mexico	9am-1am
25.39	11.815	JVZ Tokyo, Japan	Present schedule unknown
25.40	11.81	ZRO4 Rome, Italy	2:15-2:30, 3:20-4:20, 6:30-7:25, 10:30am- 12:15, 12:30-8:15, 8:30pm-12 mid. to NA, 12:30-1:30am to W.N.A... News--8:30, 1030
25.42	11.80	DJZ Berlin, Germany	7am-12 noon /pm
25.42S	11.80	JZJ Tokyo, Japan	3:15-4:15, 5am-2:30, 2:55-6:30, 6:55-11pm to E.N.A., 11:25pm-2:30am... News--4, 5, 8, -11am, 2, 3, 6, 7, 10:10, 11:30pm, 2am.
25.45S	11.79	WRUL Boston, Mass.	1:15-6:30pm ex. Sun; Sun. 10am-12, 2-9:15
25.46	11.785	OFE Lahti, Finland	10:55am-7:05, 8:25-8:50, 11:05-11:50pm, 12:15-1:30am... News--12:45, 2:10, 6:15,
25.46	11.785	Jugoslav undercover station	3-3:30pm (Serb) / 8:25-10:10p
25.47	11.78	HP5G Panama City, Panama	9:15-10am, 12:30-3, 6-11pm.
25.48V	11.775	MTCY Hsinking, Manchukuo	1:30-3am to NA... News--1:30, 2:30am. *
25.48S	11.775	Saigon, Fr. Indo China	6am-12 noon, 1-1:30, 7:45-8:20pm.... News--7:30, 11, 11:45am.
25.49	11.77	DJD Berlin, Germany	1-3:15, 7-11:30, 11:40am-5:30, 5:50pm-12 mid. to NA... News--7, 8, 9, 10, 11pm.
25.50S	11.765	PYD8 Sao Paulo, Brazil	5:30-10:15pm. *
25.51S	11.76	DXR Warsaw-Berlin	1-2:30, 11:40am-5:30pm to Africa
25.51	11.76	VLR8 Melbourne, Australia	3:30-7:15pm /pm
25.51	11.76	ZRO15 Rome, Italy	1:30-2:40, 6:15-9:30, 11:30am-2:30, 3:20-7
25.53S	11.75	GSD London, England	1-2:45, 3-4:15, 9:45-11:15, 11:30am-2:15, 3:15-3:30, 5:15pm-12:45am to NA... News- 5:45, 6:45, 9, 10:45pm, 12:30am.
25.55	11.74	CB1174 Santiago, Chile	8-9am, 7:30pm-12:30am.
25.55S	11.74	JV-- Tokyo, Japan	2-9am approx. *
25.55S	11.74	COCY Havana, Cuba	6:30am-2:15am. /am to No. America
25.55S	11.74	DXC2 Berlin, Germany	1:30-3:15, 4:30-12 noon 12:30-5, 5:50pm-2
25.58S	11.73	WRUW Boston, Mass.	6:30-11:30pm ex. Sun.
25.58	11.73	Leopoldville, Bel. Congo	2:55-3:45pm with OPF
25.59S	11.725	JVW3 Tokyo, Japan	10pm-3am; irreg. to 9:45am. *
25.60	11.721	ZPA2 Asuncion, Paraguay	Relays ZP10 6-8:40pm
25.60N	11.72	Lisbon, Portugal?	5-5:30pm *
25.60	11.715	HSP5 Bangkok, Thailand	7-11am, 7:45-8:30pm... News, 8, 9:15 am.
25.62	11.71	YSM San Salvador, El Salvador	2-3, 8-10:30pm
25.62	11.71	WLWO Cincinnati, Ohio	8pm-12 mid.
25.63	11.705	CXA19 Montevideo, Uruguay	7-8am, 7:30-11pm. /4am-5:35pm.
25.63	11.705	SBP Motala, Sweden	2-5:15, 5:20-5:35pm; 9-10pm to NA; Sun.
25.63S	11.705	CBFY Montreal, Canada	6:55am-12 mid... News--7:30, 8, 9am.
25.64	11.70	HP5A Panama City, Panama	9:15-11:40am, 9:10pm-1am; Sun. 9am-1am.
25.64	11.70	IQY Rome, Italy	3:50-4:30pm. /12:30am
25.64	11.70	CB1170 Santiago, Chile	8-10pm. /News--5:45, 6:45, 9, 10:45pm
25.68S	11.68	GRG Longon, England	11:30am-2:45, 3-5, 5:15-12:45am to NA..
25.68S	11.68	XGRS Shanghai, China	3:45am-12 noon, 6:45-9pm. News 6:15, 7:30
25.75	11.65	XGOK Canton, China	5-9:30am /8am.
25.82F	11.62	KZRH Manila, Philippines	4-10am... News--8, 9:30am.

25.82	V11.616	COK	Havana, Cuba	1pm-1am; Sun. 1-7pm... News--1, 3:30, 7, 10
25.86	11.60		Undercover	4:15-4:25pm in Rumanian. /pm
26.16	11.47		Voice of Free India	11am-noon, 9:30-11:30pm. Not heard
26.43	11.35		Undercover	2:30-2:40pm in Serbo-Croat /recently
27.17	11.04	CSW6	Lisbon, Portugal	12 noon-4:30 pm
27.29	10.953	CR6RB	Benguela, Angola	3:20-4:30pm; Sun. 12 noon-1pm
28.30	10.60	ZIK2	Belize, Br. Honduras	Tues/Thurs/Sat 2:30-3, 9:30-9:50pm.
28.45	10.543	DZD	Berlin, Germany	2:30-3:15, 4:30-5, 5:50pm-12 mid. to NA, 12:30-1am... News--2:30, 4:30, 7, 8, 9, 10, 11 10-10:50am... News--10:30am. /12:30am
28.49	10.53	JIB	Taihoku, Taiwan	
28.85	10.40	YSPA	San Salvador, El Salvador	9:10-10am, 7:30pm-12:30am.
29.04	10.33	ZRO--	Rome, Italy	7-9:30pm to S.A.
29.15	10.29	DZC	Berlin, Germany	4-5:45, 5:50pm-12:15am to S.A.
29.24	10.24	XGAP	Peiping, China	6:30-11:50am. /Sun. 9:15-9:40
29.35	V10.22	PSH	Rio de Janeiro, Brazil	7-8pm ex. Sun; Mon/Wed/Sat 9-9:30pm;
29.44	10.19	J--	Tokyo, Japan	4:45-8:55am.
29.59	10.14	OPM	Leopoldville, Bel. Congo	2:55-3:45pm.
29.62	V10.13	HH3W	Port-au-Prince, Haiti	1-4:45, 7:30-11:30pm; Sun. 1-5, 7-11:30
29.79	10.17		Norway Freedom Station	11am-2:40pm /pm
29.81	10.065	HLA2	Hsinking, Manchukuo	1:30-3am to NA... News- 1:30, 2:30am. *
29.84	V10.055	SUV	Cairo, Egypt	Relays Cairo programs to American nets.
29.87	10.042	DZB	Berlin, Germany	12:00-12:30am, 4-4:20pm.
29.88	10.04		Kuibyshev, USSR	11:30pm-3:30, 7-10:50am... News--1, 8:50am
29.97N	10.01	WJQ	Hicksville, N.Y.	6-10:15am. *
29.97n	10.01		U.S.S.R.	7-10:30pm approx. *
30.30N	9.90		China	7:30-9am approx. *
30.33N	9.89		China	9-9:45am approx. *
30.43S	9.86		Madrid, Spain	1-2, 7-8pm to NA... News--1:15, 7 pm. *
30.48S	V9.843	CR7BE	Lourenco Marques, Mozambique	1-2, 5:30-8am, 1-5pm (Th/Fr/Sat to 5:15pm); Sun. 5:30-8, 11am-3pm... News- 1:55, 6:55am, 1:12-4pm ex. Su; Su. 6:55am.
30.49C	9.84	VIS	Sydney, Australia	Relays programs to U.S. networks/2:45pm.
30.51	9.833	COCM	Havana, Cuba	9am-1am; Sun. 9am-12 mid.
30.54	9.825	GRH	London, England	5:15pm-12:15am to C.A... News--5:45, 6:45
30.57	9.815	IRF	Rome, Italy	3:50-4:30pm. /9, 10:45pm, 12:30am
30.67	9.78	HNF	Baghdad, Iraq	10am-3pm.
30.67F	9.78	ZRO18	Rome, Italy	12:30-2:30, 7-9:30pm to S.A.
30.75	9.755	ZRO	Durban, So. Africa	4:30-8, 10am-5pm; Sun. 4:50am-5pm.
30.77	9.75		Radio Unconnu	2-2:15, 6:30-6:55am, 3:30-3:50pm.
30.80S	V9.74	TI4NRH	Heredia, C.R.	8-9am; Tu/Th/Sat 11pm-12 mid. *
30.82S	9.735	CSW7	Lisbon, Portugal	4:40-5:50, 6-7, 7:10-9pm to NA. *
30.82	9.73	CB970	Valparaiso, Chile	7:30-9am, 7:15pm-12:30am.
30.86	9.72	XGOA	Chungking, China	7am-12 noon, 3-5pm... News 8:30, 10, 11am.
30.88	9.715	OAX4K	Lima, Peru	8pm-12 mid.
30.92	9.705		Fort-de-France, Martinique	12:30-1:40, 6:30-9pm.
30.93S	9.70	WRUW	Boston, Mass.	6:30-11:30pm ex. Sun; Sun. 2-7pm..
30.95	9.695	JIE3	Taihoku, Taiwan	8-9, 10-10:50am... News--10:30am.
30.96S	9.69	GRX	London, England	2-10:45, 11am-3, 5-6pm.
30.96	9.688	LRA1	Buenos Aires, Argentina	11:30am-2, 3:30-4:30, 5-10pm.
30.98S	9.685	TGWA	Guatemala, Guatemala	10-10:15, 11pm-12:45am ex. Su; Su. 7pm--
30.99	V9.68	XEQQ	Mexico D.F., Mexico	9am-1:45am. /12:45am
30.99	9.68	EQC	Teheran, Iran	11am-1pm (Th. 9:30am-1, Fri. 10am-1pm.)
30.99N	9.68	VLW6	Perth, W. Australia	7-10:50am. *
31.01	9.675	DJX	Berlin, Germany	1-3:15, 11:40am-5:30 pm... News--12:30pm.
31 METER BAND				
31.02N	9.67	JVW2	Tokyo, Japan	5-9am. *
31.02S	9.67	WRCA	New York City, N.Y.	3:30-4:40, 5:45pm-1:10, 1:10-5am.
31.06S	9.66	LRX	Buenos Aires, Argentina	6-7, 8:30am-11:10pm.
31.06	9.66	HVJ	Vatican City	Sun/Thurs 9:30-9:50pm to NA, in English.
31.06	9.658	HHBM	Port-au-Prince, Haiti	8-9:45am, 1-4, 4:30-9:45pm.
31.09S	9.65	DJW	Berlin, Germany	1-3:30, 7am-12 noon, 5:50pm-12:15am.
31.11	9.645	LLH	Oslo, Norway	6:40-8am, 1:30-6, 10-11pm to N.A. /pm
31.11	9.645		German Revolutionary	3-3:15, 5-5:15, 7-7:15, 9-9:15, 11-11:15
31.12	9.64	KZRH	Manila, Philippines	4-10am... News- 8, 9:30am.
31.12	9.64	CXAS	Colonias, Uruguay	6-8am, 3-5, 7-11pm (Sun. to 2am.) /10, 11am
31.13	9.635	XGOY	Chungking, China	7:35-9:55, 10-11:25am to NA... News--8:30
31.14	9.63	ZRO4	Rome, Italy	3-3:30am, 1-2:30, 3:20-8:15, 8:30pm-12 mid to NA, 12:30-1:30am to W.N.A... News-8:30, /10:30pm, 1am.

31.17	9.625		Addis Abeba, Ethiopia	10:15-11:35am	
31.19	9.62	CXA6	Montevideo, Uruguay	4:30-10:15pm	
31.19	9.62	DXL24	Paris, France	5:50pm-12 mid. to NA...News- 7,8,9,10,11	
2000	31.19	9.62	TIPG	San Jose, C.R.	8:15am-12:30am /pm
10000	31.21	9.615	VLQ	Sydney, Australia	4:20-5:25am
31.22	9.61	XEYU	Mexico D.F., Mexico	12 mid.-1:15am	
31.22S	9.61	DXB	Berlin, Germany	12:15-2:30am, 12:15-4:15pm/9,10-11:15am	
31.23	9.606	ZRL	Capetown, So. Africa	4:15-10, 10:11:15am; Sun. 2:10-2:45, 4:30--	
31.23	9.606	HP5J	Panama City, Panama	8am-2:30, 7:30-11:30pm; Sun. 9am-11pm.	
31.23F	9.606		Gustav Siegfried Eint	2:52, 3:52, 4:52, 5:52, 6:52, 7:52, 8:52, -	
31.25	9.60	CB960	Santiago, Chile	7pm-12 mid. /9:52, 10:52, 11:52 pm*	
31.25S	9.60	GRY	London, England	1-2:45am, 2:30-5 (4-5pm to NA), 5:15-6:45	
2000	31.27	9.595	Athlone, Ireland	5:10-6pm...News--5:10pm /pm...News 4:45	
31.28S	9.59	VUD3	Delhi, India	2:30-4:55, 7am-1:35, 10pm-1am.	
10000	31.32S	9.58	VLQ6	Sydney, Australia	1:55-2:40, 2:55-3:25am...News-3am. *
2000	31.32	9.58	VLR	Melbourne, Australia	3:45-9:30am...News--9:15am.
31.32S	9.58	GSC	London, England	1-2:30am, 2:15-3:15, 3:30-4:45, 5:15pm- 12:45am to NA...News--5:45, 6:45, 9, 10:45 pm, 12:30am. /News--1:30, 3:30, 2:30 p.m.	
31.35S	9.57	DXZ	Berlin, Germany	1:30-4:00, 5:30-5:45, 5:50pm-12:15am....	
31.37S	9.566		Moscow-Komsomolsk, USSR	12-2, 7:40-8:20am...News 7:45am. *	
31.38	9.56	DJA	Berlin, Germany	5:50-8, 9:30pm-12:15am to S.A.	
500	31.39	9.557	XETT	Mexico D.F., Mexico	24 Hours daily
31.41	9.55	WGEA	Schenectady, N.Y.	7pm-1am.	
31.43	9.545	MTCY	Hsinking, Manchukuo	9-11am, 5-6pm...News--9, 10:30am, 5pm. *	
31.43	9.545	RV--	Khabarovsk, U.S.S.R.	1:30-10:30am, 4-7pm irreg.	
31.44	9.543	XEFT	Vera Cruz, Mexico	10am-2:15am. /9:52, 10:52, 11:52pm	
31.44	9.543		Gustav Siegfried Eint	2:52, 3:52, 4:52, 5:52, 6:52, 7:52, 8:52,	
31.45	9.54	OAX5C	Ica, Peru	8pm-1am. /am to W.NA...News--7:30, 11am.	
10000	31.45S	9.54	VLG2	Melbourne, Australia	7:25-8:10am to E.NA, 9:15-10:50, 11-1145
31.46S	9.538	HER4	Bern, Switzerland	6:45-8:10, 8:45-10:15pm to NA ex.Sat.... News--9, 10pm. 5am-2:30pm...News 5, 8, 11am, 2pm.	
31.47S	9.535	JZI	Tokyo, Japan	5:20-5:35, 9-10pm to N.A.	
31.47	9.535	SBU	Motala, Sweden	5-11:45pm, 12 mid.-1am.	
31.48	9.53	WGEO	Schenectady, N.Y.	8-10am...News--9:15am.	
31.50	9.525	JZHA	Hongkong, Hongkong	9am intermittently to 7pm.	
31.50	9.525	DXY	Warsaw-Berlin	4:30-9, 10-11:30am.	
31.50	9.523	ZRG	Johannesburg, So. Africa	12:45-1:40, 1:45-2:30, 2:45-3:30am, 7-7:45 pm to NA, 8-8:45, 9-11, 11:15pm-12:30am to 11pm-1am & irreg. */NA	
31.50S	9.52	RV96	Moscow, U.S.S.R.	Early mornings irreg.* /10:45pm	
31.53n	9.515	COCQ	Havana, Cuba	1-4:15, 9:30-11:15am, 1:30-2:15, 5-6, 7 to	
31.55S	9.51	GSB	London, England	12-12:20am, 4-4:30, 6-8pm.	
31.57	9.505	YUC	Belgrade, Yugoslavia	Mon/Wed/Fri/Sat to N.A. 7-8pm.	
31.57	9.503		Bratislava, Slovakia	10am--3:45am	
31.58	9.50	XEWW	Mexico, D.F., Mexico	10:55am-7:05 (2:05-2:30 to NA), 8:25-850	
31.60S	9.495	OFD	Lahti, Finland	6:30-11pm/pm to NA...News 12:45, 2:15,	
5000	31.65	9.48	CP38	La Paz, Bolivia	Relays KGET 12:15am-12 nn. /6:15, 8:25pm.
31.65C	9.48	KRCA	Bolinas, Calif.	3:30-5pm. /3:15pm.	
31.69	9.47	CR6R ^A	Luanda, Angola	10am-5pm; 6:50-7:30pm irreg...News	
31.70	9.465	TAP	Ankara, Turkey	1-1:45, 8:15-9:15, 11-11:15am, 12:15-5pm.	
31.75S	9.45	GRU	London, England	3:15-4:30 or 5pm.	
31.88	9.41	FGA	Dakar, Senegal	9:30-11:30pm...News--11pm.	
31.91	9.40		Voice of Free India	4pm- *	
31.91N	9.40		Sofia, Bulgaria?		
32.00	9.375	COBC	Havana, Cuba	9am-1:15am; Sun. 8am-11:30pm.	
32.12	9.34	OAX4J	Lima, Peru	9-10am, 1-4, 7pm-2am.	
1000	32.22S	9.31	HC2AK	Guayaquil, Ecuador	7-10:40pm.
100	32.28	9.295	HI2G	Trujillo City, D.R.	8:10-9:40, 12:40-3:10, 6:10-10:40pm.
32.36	9.27	COCX	Havana, Cuba	8:45am-1am.	
32.43V	9.25		Bucharest, Roumania	3-6:05pm...News--4:50pm	
32.54F	9.22	COBQ	Havana, Cuba	Relays CMBQ to 12 mid. *	
32.64	9.19	HC2ET	Guayaquil, Ecuador	8:30am-1:30am; Sun. 9:30-11:30pm	
32.88	9.125	HAT4	Budapest, Hungary	7-9, 9-11pm to NA...News--9:20, 10:25pm.	
33.24	9.025	COBZ	Havana, Cuba	8:45am-1am; Sun. 8:45am--12 mid.	
33.48	8.96	TPZ2	Alger, Algeria	3-4, 8-10am, 2:30-4:15, 5-7pm.	
33.98J	8.83	COCQ	Havana, Cuba	6am-2:15am.	

34.48	8.70	COCO	Havana, Cuba	5:30am--1:30am.
34.62	8.665	COJK	Camaguey, Cuba	12:30-1:30, 4:30-7, 9-9:30pm.
34.95	8.585	YNRS	Managua, Nicaragua	9-10am or later; 7:40pm-12 mid.
35.44	8.465	XPSA	Kweiyang, China	6:30am-12 noon, 4-6pm... News--10, 11am.
37.27	8.05		Kuibyshev, U.S.S.R.	11am-6:30pm... News--4pm. 7/4, 5:30 p.m.
37.36	8.035	CNR	Rabat, Morocco	3:15-3:45, 8-9am, 1:30-7pm... French news
37.37	8.035	FXE	Beyrouth, Syria	1-4:30, 5-7:30, 9am-4pm.
37.50	8.00	RIA6	Douala, Camerouns	6:45-7am, 2:15-2:30pm.
37.81	7.935	PSL	Rio de Janeiro, Brazil	7-8pm; Sun. 9:15-9:40pm.
38.00	7.894	YSD	San Salvador El Salvador	8pm-12 mid. with HUB
38.15	7.865	SUX	Cairo, Egypt	1:30-5pm.
38.20	7.854	HC2JSB	Guayaquil, Ecuador	9-11pm.
39.16S	7.66	YNDG	Leon, Nicaragua	9:30-11pm (11:20pm Sat/Sun)
39.40	7.615	YNLAT	Granada, Nicaragua	9-11:15pm.
39.89n	7.52	RV96	Moscow, U.S.S.R.	7-10:30, 11pm-1am approx.
40.05S	7.49	YN2FT	Granada, Nicaragua	9-11pm.
40.30	7.446	FG8AH	Pointe-a-Pitre, Guadeloupe	7-9pm.

41 METER BAND

40.93	7.33		Ponta Delgada, Azores	3-4pm.
40.98S	7.32	GRJ	London, England	11pm-12:45, 1-2:30am, 3-3:15, 3:30-4:45pm.
41.10	7.30	VIG	Port Moresby, Papua	Mondays 7-7:30am (Eng.)
41.15S	7.29	VUD2	Delhi, India	2:30-4:30, 7-9:30am, 10:30pm-1am.
41.27	7.27	DXM	Berlin, Germany	1-8pm... News--1:30, 2:30, 3:30, 4:30pm.
41.32	7.26	EA--	Spain	Daily to 7 pm.
41.32	7.26	TGWC	Guatemala, Guatemala	8:30pm-1am with TGWB
41.34S	7.257	JVW	Tokyo, Japan	7-9:30am approx.
41.38	7.25	KGEI	San Francisco, Calif.	12:15am-12 noon.
41.38	7.25	PJCL	Willemsted, Curacao	8-10:18pm; Sun. 6-7:15pm irreg.
41.44S	7.24	VUB2	Bombay, India	3-4:55, 7-9:45am, 10:30pm-1am.
41.44	7.24	DXJ	Berlin, Germany	12:30-4, 5:50pm-2am to NA... News--12:30, 1:30, 2:30, 3:30, 7, 8, 9, 10, 11pm, 12, 1am.
41.49S	7.23	GSW	London, England	11:40pm-5:45, 7am-4, 4:30-7:15pm (Europe)
41.55S	7.22	VLQ4	Sydney, Australia	7:25-8pm to E.NA irreg. (Tests)
41.61S	7.21	VUC2	Calcutta, India	2:30-5, 7:30-11:15am, 10-11:30pm.
41.64	7.205	EA--	Madrid, Spain	4-7pm.
41.67	7.20		Station Debunk	8:30-9pm (English)
41.96S	7.15	GRT	London, England	11:40pm-5:45am, 3:15-7pm (Europe)
42.00	7.143	EAJ9	Malaga, Spain	4-6:30pm.
42.05	7.135		Kuibyshev, U.S.S.R.	12:15-1am.
42.08	7.13	EAJ22	Oviedo, Spain	3-6pm. "
42.28	7.095	EA--	Spain	Heard to 6:30 pm.
42.31	7.09	EA9AA	Melilla, Spanish Morocco	Heard to 6 pm.
42.37	7.08	YI5KG	Baghdad, Iraq	10am-3pm.
42.40	7.075		Athens, Greece	5:15-6pm approx.
42.46	7.07		Serb Freedom Station	3:15-3:30, 4-4:15, 4:30-4:45pm.
42.46	7.07	GRS	London, England	1-4:15am.
42.47	7.063		Antigua, B.W.I.	6-6:20pm ex. Sun; Sun. 4-4:45pm.
42.65	7.037	EA--	Valencia, Spain	3-7pm.
42.74	7.03	EA--	Madrid, Spain	4:30-5:20pm.

42.98S	6.98	FO8AA	Papeete, Tahiti	Tues/Fri 11:55pm-12:55am.
42.98S	6.98		U.S.S.R.	6:30-7:20, 8-8:45pm... News 6:48, 8pm.
43.67	6.87	YNOW	Managua, Nicaragua	8pm-12:30am or later.
43.73C	6.86	KRCA	Bolinas, Calif.	12:15am-12 noon with KGEI.
44.28	6.775	HIH	San Pedro, D.R.	8-9:30pm; Sun. 6:20-7:40pm.
44.38	6.76	YNRS	Managua, Nicaragua	9-10am, 7:40pm-12 mid.
44.81	6.696	TIEP	San Jose, C.R.	8-9am, 8pm-1am.

49 METER BAND

45.05	6.66		Brazil	6-7pm.
45.22	6.635	HC2RL	Guayaquil, Ecuador	Sun. 6:45-7:45, Tu. 10:15pm-12:15am.
45.25	6.63	HIT	Trujillo City, D.R.	1:10-2:40, 5:40-9:40pm.
45.87	6.54	YN1GG	Managua, Nicaragua	2-3:30, 9-11pm ex. Sun.
46.15	6.50	HIL	Trujillo City, D.R.	1:30-3, 7-10:30pm ex. Sun.
46.22J	6.49	TGWB	Guatemala, Guatemala	9-10, 1:45-4:45, 8:30pm-1am; Sun. 11:30am-6:15, 8:30pm-1am.
46.26	6.485	HILL	Santiago de los Caballeros, D.R.	6:30-8:30pm ex. Sun.
46.48	6.455	COHI	Santa Clara, Cuba	7:42am-1:15am.
46.58	6.44	HILS	Santiago, D.R.	6:40-9:10pm ex. Sun.

46.48	6.405	TGQA	Quezaltenango, Guatemala	9-11:30pm; Sat. 9pm-2am; Su. 8pm-4
<u>2.00</u> 46.95	6.39	HI9B	Santiago, D.R.	6:40-8:40pm. /am
47.10J	6.37	COCQ	Havana, Cuba	7:30am-2am.
47.20	6.357	HRP1	San Pedro Sula, Honduras	7-8:30am, 7-11:30pm.
47.32	6.342	OAX4G	Lima, Peru	7pm-1:30am (Sat. to 2am)
<u>3.00</u> 47.39F	6.333	HILX	Trujillo City, D.R.	Mon. 6:10-9:30pm; Tu. 6:10-10:30pm; Wed & Fri. 6:10-9:10 pm.; Th. 6:10-9pm; Sat. 8:55am-1:15am. /6:10-8:10pm
47.39	6.33	COCW	Havana, Cuba	8:55am-1:15am. /6:10-8:10pm
47.47	6.32	SUP2	Cairo, Egypt	12:10-1pm.
<u>5.00</u> 47.50	6.316	HILZ	Trujillo City, D.R.	12:40-1:40, 6:10-11:10pm.
47.61N	6.30	ZRO--	Rome, Italy	6-6:50pm... News--6:20pm *
47.68	6.29	OAX1A	Chiclayo, Peru	8:30pm-12:30am.
<u>1.00</u> 47.77	6.28	HILG	Trujillo City, D.R.	8:10-9:40am, 12:40-3:10, 4:40-10:40pm.
47.85	6.27	YSR	San Salvador, El Salvador	8pm-12 mid.
<u>2.00</u> 48.04	6.245	HILN	Trujillo City, D.R.	7:40-8:40am, 12:40-2:40, 7:10-11:20pm.
48.08	6.24	HRD	La Ceiba, Honduras	9-11:30pm; Sun. 5-7pm.
48.08	6.24	HJCF	Bogota, Colombia	8pm-12 mid.
48.23F	6.22	HJCT	Bogota, Colombia	11am-3, 6:15pm-12:40am.
48.35	6.205	OAX3A	Huancayo, Peru	9pm-12 mid. approx.
48.39	6.20	YV5RN	Caracas, Venezuela	5pm-12:30am (Sat/Sun to 11:30pm)
<u>1.00</u> 48.39	6.20	CP5	La Paz, Bolivia	7:15-9am, 7:30pm-12 mid.; Su. 4-9pm.
48.43	6.196	TG2	Guatemala, Guatemala	8:30-11am, 7pm-12 mid.; Sat. 7pm-4am.
48.43S	6.195	GRN	London, England	11:40pm-5:45am, 12 noon-7:15pm
<u>3.00</u> 48.47S	6.19	HILA	Santiago, D.R.	12:40-2:40, 4:40-6:40, 8:40-10:40pm. *
48.47S	6.19	XECC	Puebla, Mexico	Heard evenings to 2:00am next morning*
48.47	6.19	HVJ	Vatican City	2-3:45pm approx. irreg.
48.48	6.188		Saigon, Fr. Indo-China	8-10:30am.
48.51	6.185	TIRCC	San Jose, C.R.	Th/Th/Sat 7-8pm; Sun. 9-10pm.
48.54	6.18	XEXA	Mexico D.F., Mexico	9:30am-12 noon, 3:30-5, 8:30pm-1:30am.
<u>1.00</u> 48.58	6.175	HI9T	Puerto Plata, D.R.	Daily to 7:40pm; Sat. to 11pm or later
48.66	6.165	HER3	Bern, Switzerland	1:40-2:30, 7-8:45am, 2-5:30pm.
48.66	6.165	TILS	San Jose, C.R.	8-10:30am, 1-3:30, 7-11pm (to 3am Sun.)
48.70	6.16	HJCD	Bogota, Colombia	11am-1, 5pm-12 mid.
<u>1.50</u> 48.70	6.16	CBRX	Vancouver, B.C., Canada	relays CBR 10:30am-4am... News--Noon
48.74	6.155	EQB	Teheran, Iran	1-4pm... English talks at 3pm.
48.74	6.155	CS2WD	Lisbon, Portugal	4-7pm.
48.74	6.155		Anti-Vichy Station	5:10-5:20, 12:45-12:55am.
<u>3.00</u> 48.78	6.15	HI3C	La Romana, D.R.	Heard 8:20-9am, 5:55-7:10pm.
48.78	6.15	YSPB	San Salvador, El Salvador	Nightly to lam.
48.78	6.15	YV5RM	Caracas, Venezuela	12noon-3, 5-11pm; Sun. 10:30am-2, 5-11pm.
48.78	6.15	TIRH	San Jose, C.R.	Heard to 12:35am /2:45, 6:30am-5:00pm.
48.81	6.147	ZRD	Durban, So. Africa	12:45-2:45, 4:30-8, 10am-5pm; Sun. 2:10-
48.82	6.145	HJDE	Medellin, Colombia	10:30am-11:30pm.
48.82	6.145	GRW	London, England	Not heard at present.
48.84	6.145	KZRH	Manila, Philippines	4-10am... News--8, 9:30am. *
48.90	6.135	FK8AA	Noumea, New Caledonia	3:30-4:30, 9-10am; Sun. 1:40-2:35am.
<u>5.00</u> 48.93	6.132	CHNX	Halifax, N.S., Canada	8am-12:15am; Sat. 9am-12 mid.; Sun. 1pm-12:15am... News--7am, 3:30, 5:30, 11pm
48.94	6.13	VUD2	Delhi, India	9:15am-12 noon... News--11:50am.
48.98S	6.125	MTCY	Hsinking, Manchukuo	3-8:30am, 6:30-7pm.
48.98	6.125	CXA4	Montevideo, Uruguay	7pm-12 mid.
49.00	6.122	HP5H	Panama City, Panama	7pm-12 mid.
49.02	6.12	OFH	Helsinki, Finland	2-3:30, 8:30-9:30, 11am-6:15pm.
49.02	6.12	YV3RN	Barquisimeto, Venezuela	12:30-2:30, 6:30-10:30pm.
49.02	6.119	XEUZ	Mexico D.F., Mexico	10am-2, 8pm-3am.
<u>1.00</u> 49.08	6.115	HI6H	Trujillo City, D.R.	10:40am-9:40pm.
49.08S	6.115		Komsomolsk-Moscow, U.S.S.R.	7:40-8:20am, 6:30-7:20, 8-8:45pm
49.10	6.11	CP2	La Paz, Bolivia	5pm-lam.
49.10S	6.11	GSL	London, England	1-2:45am.
49.14	6.105	PRE9	Fortaleza, Ceara, Brazil	4:30-11pm.
<u>2.50</u> 49.14	6.105	HJFB	Manizales, Colombia	6:30-11pm ex. Sun.
49.14	6.105	XGAP	Peiping, China	6:30-11:50am.
49.21	6.097	HJFK	Pereira, Colombia	8-9am, 7:05-11:30pm (to 3:30am SUN ir.)
49.21S	6.097	CR7AA	Lourenco Marques, Mozambique	1-2, 5:30-8am, 1-5pm (Th/Fr/Sa. to 5:15pm); Sun. 5:30-8, 11am-3pm.
49.21	6.097	ZRK	Capetown, So. Africa	12:45-2:45am; after 11am irreg.
49.21	6.095	PYD7	Sao Paulo, Brazil	5:40-10:45pm.
<u>1.00</u> 49.25	6.090	ZNS2	Nassau, Bahamas	9-9:15am-2-2:30, 7-10pm (Sun. to 11:20pm)

7500	49.25	V 6.09	CBFW	Montreal, Canada	7:30am-12 mid...News--11pm.
	49.25	6.09	XEBF	Jalapa, Mexico	Heard evenings irreg.
14000	49.33	6.082	OAX4Z	Lima, Peru	8pm-12 mid. or later
	49.34S	6.08	GRR	London, England	1:30-1:45, 6:20-6:35pm.
10	49.34	6.08	CKFX	Vancouver, B.C., Canada	10:30am-4am, ^{pm}
	49.34	6.08	ZFY	Georgetown, Brit. Guiana	6:45-8:45, 10:45am-12:45, 3:15-8:15
	49.38	6.075	HJCF	Bogota, Colombia	8pm-12 mid.
1000	49.42	V 6.07	CFRK	Toronto, Canada	7am-1:30am; Sun. 11am-12 mid.,, News-8am
	49.42	6.07	YVSRU	Caracas, Venezuela	6-10:30pm (Sun. to 11:30pm)
	49.42	6.07	TWVS	Puntarenas, C.R.	8:30-11pm; Sun. 8-9pm.
	49.42	6.07	CR8AA	Maçao, Macao	6-10am (Probably off air)
	49.46	6.065	SBO	Motala, Sweden	5:20-5:35pm.,, English--5:20pm.
	49.46	6.063		Tananarive, Madagascar	11:45am-12:30pm approx. irreg.
	49.50	6.06	VQ7LO	Nairobi, Kenya	6:45-7:15am, 12:30-3:30 ex. Sa/Sun; Tu, Th 9:30-10:30am; Sa. 6:45-7:30am, 12:30-7-11am. /3:30pm; Sun, 12-3pm.
	49.50	6.06		Bangkok, Thailand	10am-1, 7:30-11:20pm
	49.55	6.054	HJFA	Pereira, Colombia	11:40pm--8:15pm (European Service)
	49.59	6.05	SSA	London, England	2-4am approx.
	49.59	6.05	RV--	Khbarovsk, U.S.S.R.	7pm-12 mid.
	49.59	6.05	OAX6A	Arequipa, Peru	8pm-2am.
	49.66	6.04	XETW	Tampico, Mexico	1:15-11:30pm ex. Sun; Sun. 2-9:15pm.
	49.66S	6.04	WRUS	Boston, Mass.	11:30am-3, 7-11pm.
	49.78	6.03	HP5B	Panama City, Panama	11am-3am.
	49.73	6.03	CFVP	Calgary, Alta., Canada	3-10:30am.
100	49.78S	6.03	MTGY	Hsinking, Manchukuo	9am-2, 6pm-12:40am.
	49.75	6.03	XEKW	Morelia, Mexico	12:40-2:40, 7:10-9:40pm, or later.
1500	49.78	6.026	HILJ	San Pedro, D.R.	8am-2am.
	49.80	6.023	XEUW	Vera Cruz, Mexico	1:30-3:15am, 11:40am-5:30pm to Africa
	49.83	6.02	DJC	Berlin, Germany	8-9, 11:30am-3, 6:30pm-12:40am.
	49.83	6.018	HJGX	Bogota, Colombia	8:10-9:55am, 12:40-2:40, 5:40-6:40pm.
1000	49.88	6.015	HISU	Santiago, D.R.	6:30am-2:30, 9pm-12 mid... News--7, 8am, /5:15pm.
	49.92	6.01	CJCX	Sydney, N.S., Canada	11am-5pm, 12:45-2:45am.
	49.92	6.01	PRAS	Recife, Pernambuco, Brazil	9am-11:15pm; Sun. 9am-11:15pm.
	49.95	6.007	ZRH	Johannesburg, So. Africa	8am-2, 6pm-12 mid... News--10:15, 11:15p
75	49.96	6.005	CFCK	Montreal, Canada	9pm-2am.
	49.96	V 6.005	HP5K	Colon, Panama	11am-4pm.
	49.96	6.005	CXAZ	Montevideo, Uruguay	11am-1:30am... News--8:45pm, 1:20am.
	49.98	6.002	ZOY	Accra, Gold Coast	
1000	50.00	V 6.00	XEBT	Mexico D.F., Mexico	
	50.13	5.985		Cairo, Egypt	8:30-4:30pm... News--4pm.
	50.21	5.975	OAX4P	Huancayo, Peru	10pm-12 mid.
350	50.23C	5.972	HCLQRX	Quito, Ecuador	7:45-9am; Evenings to 11:45pm.
	50.25S	5.97	VONH	St. John's Newfoundland	7:45am-2:30, 4:30-8:30pm.
	50.45	/5.947	HE2S	Port-au-Prince, Haiti	7:30-11pm.
	50.51	5.94	OAX2A	Trujillo, Peru	9pm-12 mid.
	50.51	5.94	RV--	Khbarovsk, U.S.S.R.	4am-1pm approx.
	50.90	5.89	ZNB	Mafeking, Bechuanaland	12:45-2:45, 7:30-8:10am, 11am-5pm.
	50.90	5.89	RV--	Khbarovsk, U.S.S.R.	11:45pm-1am or later irreg.
4000	51.075	5.875	HRN	Tegucigalpa, Honduras	7pm-12:30am (Sun. to 10:45pm)
100	51.15F	5.865	PZ33	Paramaribo, Dutch Guiana	7:40-9:40pm ex. Sa/Su; Sa, 5:40-
	52.17	5.75	YNUAT	Leon, Nicaragua	8-11:20pm /8:40pm; Sun. 9:10-11:40am.
	52.40	5.725	HCLPM	Quito, Ecuador	9-11pm ex. Sun.

60 METER BAND

1000	60.36	4.97	HJAG	Barranquilla, Colombia	12 noon-12 mid.; Sun. 12 noon-9pm.
	60.67	4.945	HJCV	Bogota, Colombia	7:30-9am, 8:30pm-12 mid. ^{news}
	60.85	4.93	HJAP	Cartagena, Colombia	10am-2:30, 8-11:15pm ex. Sun.
	61.29	4.895	HJCH	Bogota, Colombia	12:30-3, 7pm-12 mid.
	61.42	4.885	HJDP	Medellin, Colombia	9am-2, 7pm-12 mid.
	61.54	4.875	HJFH	Armenia, Colombia	9am-12 noon, 7-11:30pm.
2000	61.67	4.865	PRC5	Belem, Para, Brazil	6-9:05pm.
	61.67	4.865	HJFX	Cali, Colombia	7-11:45pm.
	61.78	4.855	HJCA	Bogota, Colombia	Relays HJCV evenings to 11pm or mid.
	61.98	4.84	YVLRZ	Valera, Venezuela	12:30-2, 6:45-9:45pm.
	62.04	4.835	HJAE	Cartagena, Colombia	8am-7, 8-11:30pm.
	62.11	4.83	YV2RN	San Cristobal, Venezuela	12:30-1:30, 7-10:30pm ex. Sun.
750	62.16	4.823	HJED	Cali, Colombia	8-11:30pm.

Note: Continued on Page Three.

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