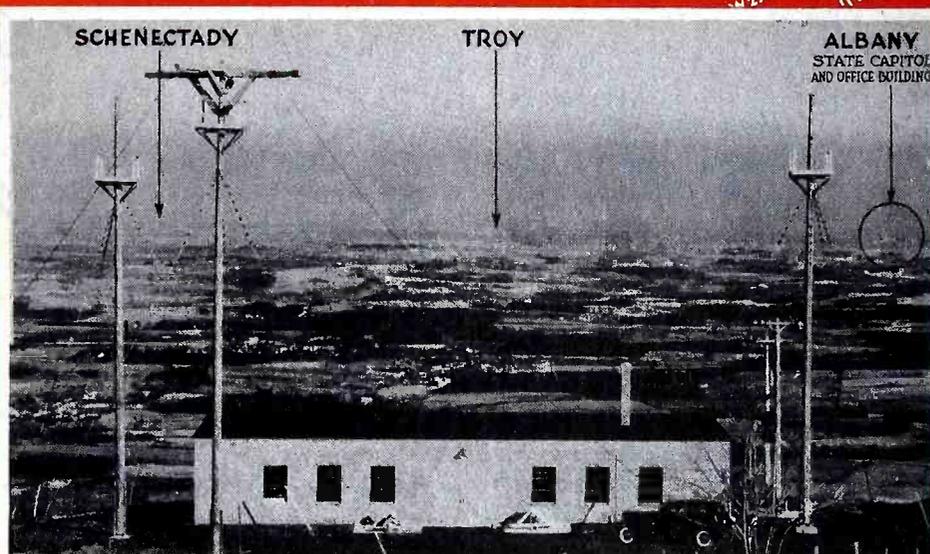


THE GLOBE CIRCLER

SEPTEMBER, 1939



The General-Electric Television Station in
The Helderberg Mountains Near Schenectady, New York

In this issue

COMPLETE SHORT-WAVE LIST—EASTERN STATES IDA
CONVENTION—BROADCAST STATION NEWS—ULTRA-
HIGH FREQUENCY DATA—SHORT-WAVE NOTES.

ten cents

INTERNATIONAL DX'ERS ALLIANCE

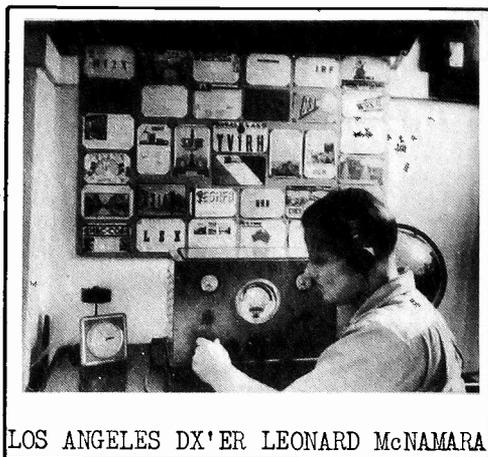
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Editor-in-Chief, Chas. A. Morrison; UHF Editor, Perry Ferrell Jr.; Frequency Checking Editors, John Larsen, R. B. Oxrieder; Ama-Touring Editors, Roger Legge, Roy Waite.

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SOUTH PACIFIC EXPEDITION

The National Geographic-University of Virginia expedition to the South Pacific Islands, will sail from San Francisco, on Sept. 19, aboard the U.S. Coast Guard cutter, Hamilton. The exped. will study fundamental questions about the Pacific Ocean, magnetism and magnetic changes, and many small islands 5,000 miles south of Hawaii, will be charted more accurately than ever before. NBC Field Engineer John M. Larson and a powerful short-wave xmtr. accompany the party. Broadcasts will be put on at frequent intervals both from the boat and from special bases on such remote islands as Pitcairn and Easter. The Expedition will be gone from nine months to a year.



LOS ANGELES DX'ER LEONARD McNAMARA

FREQUENCY MODULATED RADIO BROADCASTING

The new type "frequency modulated" radio broadcasts will be filling the air in this country within a year. For the first time practically static free and electrical interference-free reception will be obtained. This together with a new high fidelity in reproduction and low cost for transmitter installation will soon obsolete the present "amplitude modulation". We venture to predict that within a few years all local broadcasting will be done on the ultra-high frequencies with the new system. This will leave the present broadcast band open to a few super-power stations that will replace the cumbersome, complicated and costly networks. "Frequency modulation will soon be used in connection with all short-wave stations operating on or above 40 mcs. This is the most tremendous development in radio transmission to date and will undoubtedly revolutionize the whole set-up. The General Electric Company is already manufacturing frequency modulation radio receivers which will be sold for the present in the East where several stations, are, or soon will be, using frequency modulation.

THE NEW 40 METER BROADCAST BAND

Short-Wave Broadcasting will, under certain conditions, be permitted in that portion of the 40 meter amateur band extending from 7.2 to 7.3 mcs., commencing with September 1. The following stations have already reserved frequencies and calls in the new band: CSW8 (7.26), DJI (7.29), DXJ (7.24), DXM (7.27), GSU (7.26), GSW (7.23), JIE (7.295), JLG (7.285), JWV (7.257), LLR (7.24), OZU (7.26), TPB11 (7.28), 2RO (7.24- 7.27), Belgrade (7.24), India (7.21, 7.24, 7.27, 7.29) (**Legge-Kriebel)

We are pleased to admit to the IDA 100 CLUB, Bob Pybus of Manchester, England, VIC 103, and Ray Simpson of Concord West, Australia, VIC 110.

The next VIC/VAC lists will appear in the October G.C. Send your revisions in to your director at once. We think a VIC/VAC by chapters would be good sport. Will each chapter please figure up the aggregate VIC and VAC for its entire group and send same to this office as soon as possible- Ed.

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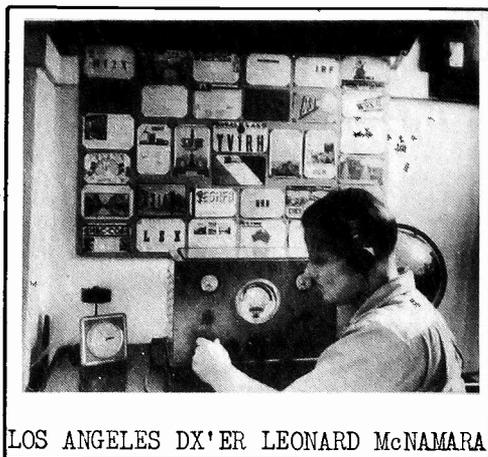
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ITALY 2R06 (15.3), 2R04 (11.81), 2R03 (9.63) and IRF (9.83), all radiate the "American Hour" nightly from 7:30-9pm...2R012 (15.1), is being heard irreg. 4-5:30, 6-7:25 and 7:30-9pm (RBO, Balbi)...NEW: 2R016 (21.51), transmits daily 9-9:55am (**Balbi). The EIAR would like reports on 2R016.

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LUXEMBOURG "Radio Luxembourg's," short-wave transmitter is on the air and testing on frequencies of 6.09, 9.5275, 15.35 and 11.7825 mcs., according to the following complicated schedule: During September: on 6.09 mcs.: Sept. 1-2-3, 6-7am; 4-5-6, 7-8am; 7-8-9, 8-9am; 10-11-12, 9-10am; 13-14-15, 10-11am; 16-17-18, 11-12pm; 19-20-21, 12-1pm; 22-23-24, 1-2pm; 25-26-27, 2-3pm; 28-29-30, 3-4pm; on 15.35 mcs.: Sept. 1-2-3, 2-3pm; 4-5-6, 3-4pm; 7-8-9, 4-5pm; 10-11-12, 5-6pm; 13-14-15, 6-7pm; 16-17-18, 3-4am; 19-20-21, 4-5am; 22-23-24, 5-6am; 25-26-27, 6-7am; 28-29-30, 7-8am etc. Reports on these transmissions will be particularly appreciated and should be sent to

Wireless Publicity Ltd., Electra House, Victoria Embankment, London, W.C.2, England. This firm are agents for Radio Luxembourg (***) Peters. "Radio Luxembourg" (9.527) heard at 5am (Burton-England); heard at 10:30am (Pybus).

NETHERLANDS See list for revised schedules for PCJ and PHI.

NORWAY Optional frequencies for the Oslo xmtr. are: LLA (25.9), LLC (26.35), LLD (9.55), LLI (6.185), LLJ (6.195), LLK (11.85), LLM (15.175), on 15.17, daily 6:40am-5pm; on 11.735, 4:30-6:40am (Sun 2:30-6:40am (**Legge, Kriebel, Callan)

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Sept. 1-2-3, 6-7am; 4-5-6, 7-8am; 7-8-9, 8-9am; 10-11-12, 9-10am; 13-14-15, 10-11am; 16-17-18, 11-12pm; 19-20-21, 12-1pm; 22-23-24, 1-2pm; 25-26-27, 2-3pm; 28-29-30, 3-4pm; on 15.35 mcs.: Sept. 1-2-3, 2-3pm; 4-5-6, 3-4pm; 7-8-9, 4-5pm; 10-11-12, 5-6pm; 13-14-15, 6-7pm; 16-17-18, 3-4am; 19-20-21, 4-5am; 22-23-24, 5-6am; 25-26-27, 6-7am; 28-29-30, 7-8am etc. Reports on these transmissions will be particularly appreciated and should be sent to Wireless Publicity Ltd., Electra House, Victoria Embankment, London, W.C.2, England. This firm are agents for Radio Luxembourg (**Peters). "Radio Luxembourg", (9.527) heard at 5am (Burton-England); heard at 10:30am (Pybus).

NETHERLANDS See list for revised schedules for PCJ and PHI.

NORWAY Optional frequencies for the Oslo xmtr. are: LLA (25.9), LLC (26.35), LLD (9.55), LLI (6.185), LLJ (6.195), LLK (11.85), LLM (15.175), on 15.17, daily 6:40am-5pm; on 11.735, 4:30-6:40am (Sun 2:30-6:40am (**Legge, KriebeI, Callan)

POLAND SP19 (15.16) heard testing 8-9pm, and SP25 (11.74) heard testing 12:45-2am irreg. (Balbi)...SP19 (15.12) comes thru rotten to good depending on YV5RN's harmonic; SP25 (11.74) comes through well depending upon CB1174; SPD comes through well when not covered by CW; SPW generally is the best of the lot (RBO)

SPAIN Radio in Spain has been completely reorganized under the Dept. of Press and Propaganda. This agency lists the following active S.W. transmitters: Radio-Nacional (7.5), operates daily 3-3:30, 8-9am and 1-5:45pm; Alcazarquivir (7.125); Ceuta (7.134); Cordova (7.117); Huelva (7.037); Jaca (7.117-14.115); Las Palmas (7.931-14.115); EAR (9.48) and EAQ (9.86), Madrid, operates 2:30-3:30 and 6:30-8:30pm; Malaga (7.22-14.44); Melilla (7.190-7.151-7.184); Oviedo (7.135); Saint-Sebastien (7.2); Santander (7.16); Teneriffe (7.5); Tetuan (7.194); Tetuan-Rio-Martin (13.992-6.99) Valladolid (7.006); Villa Sanjurjo (7.147); Vitoria (11.991) (**E.Radio)

SWEDEN SBT (15.155) and SBP (11.705), are good Wed/Sat 8-9pm; SBT being heard much better than SBP. SBT's carrier comes on the air about half an hour before 8pm with 12 notes repeated over & over again (as in the German stations), then church bells are heard at 8pm and the station opens with "This is Sweden." (**Larsen, RBO, Bass, Balbi)

SWITZERLAND The Swiss Government S.W. transmissions now being radiated by the League of Nations stations during the time in which the Schwarzenburg transmitter is being rebuilt, are as follows: over HBO (11.402), Mondays 6:45-8:15pm for S.A., 8:45-10:15pm for N.A., Tues/Sat 12:45-2:45pm for Africa; 1st Sun. in each month 12:45-2:30am, for Australia; over HBJ (14.538) Wednesdays 6:45-8:15, for S.A., 8:45-10:15pm for N.A., 1st Sun. in each month 12:45-2:30am for Australia, and over HBF (18.45), Fridays 8:45-10:45 am for the Orient.

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BELGIAN CONGO The new 250 watt transmitter at Leopoldville, operates optionally as either OQ2AA on 9.525, or OQ2AA on 15.17, from 5:25 to 7 am (Tuff)

GOLD COAST Preparatory to inaugurating a broadcasting service in 1940, experimental broadcasts are being made by ZD4AA (7.05), with 10 watts, at Acora. Programs of the Gold Coast Relay System are carried by ZD4AA (Legge-C.B.)

MOZAMBIQUE CR7AA (6.137) and CR7AB (3.49), operate daily except Sundays, from midnight to 1 a.m. CR7BD (15.24) and CR7BH (11.718), operate daily except Sundays, from 4:30 to 6:30, 9:30 to 11 a.m. and from noon to 4 p.m. The address is P.O.Box 594, Lourenco Marques, Mozambique (NNRC)

NO. RHODESIA VQ2CM (14.03, 14.2) heard very well 4:30-6pm, has 100 watts power, rotary beam and RME-69 receiver. He is power man for the copper company, and located in the copper belt 250 miles south of Elizabeth (Ama-T)

SOUTH WEST AFRICA ZUN (7.25) used for the disposal of traffic to isolated points in the Territory of South West Africa, verified by letter. Has a Harvey transmitter, using 40 watts on fone. The QRA is Office of the Director of Posts and Telegraphs, Windhoek, South West Africa. ZSH (7.23), contacts planes irregularly (**Hetzl)

ASIA AND OCEANIA

AUSTRALIA 9MI (6.055) has been testing near 5am EST (Breen)

BAKER ISL. KF6QKH (14.21), 8w, operated by Chas. Stein Jr., on Baker Island, heard at 6-7am. Send reports c/o Lieut. Commander F.C. Kenner, Dept. of Interior, Honolulu, Hawaii, marked "To go to Baker Island". Next mail will arrive in November (**May-Kriebel-Legge)

CANTON ISL. KABS (6.57), is operated by Pan American Airways (FCC)

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XGOY (11.9 to 11.94), Chungking, now operates 9:30-11am and 2-3:20, and 4:30-6:20pm (Walcott, Legge, Balbi). **XGOY** (9.5), Chungking, will transmit special test programs for New York City, daily 6:30-7:40pm from Sept. 2 to Sept. 8, only. News in English at 6:40pm. Send all reports to Ying Ong, 1001 E. Roosevelt Street, Phoenix, Arizona. (**Ong)...**XOJD**, Hankow, heard on 6.35 (Honda)

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HONG KONG **ZBW3** (9.525), operates weekdays 5-10a, 11:30pm-1:15am, (Sat 9pm on) Sundays 5-9:30am. - 7.24, 7.27 and 7.29 mcs (Legge)

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IRAQ According to a communication from I.Hassan of Baghdad, all transmissions from HNF and YI5KG were indefinitely suspended after the death of King Ghazi I, on April 3; however, a station believed to be HNF (9.683), is being heard almost daily 8-9:30am. F.Beane in London, received a beautiful QSL card from I.Hassan, and others will probably be sent soon (Balbi, Legge, SWM)

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SHORT-WAVE BROADCASTING STATIONS

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

DIAL METERS	MEGS.	CALL	STATION	TIME.....	EASTERN STANDARD
13.87C	21.63	WRCA	New York City, N.Y.	8am-4pm to Europe.	*
13.93C	21.54	WPIT	Pittsburgh, Pa.	5:30-8am.	*
13.93Y	21.53	GSJ	Daventry, England	5:45-8:50, 9am-noon.	
13.95N	21.51	2R016	ROME, ITALY	9-9:55am	*
13.96C	21.50	WGEA	Schenectady, N.Y.	7-10am.	*
13.97Y	21.47	GSH	Daventry, England	5:45-8:50, 9am-noon to Africa.	
13.98C	21.46	WSLR	Boston, Mass.	Sun. 9-11:30am & irreg.	13M
13.99	21.45	DJS	Zeesen, Germany	12:05-7:55am to Asia.	
15.77	19.02	HS6PJ	Bangkok, Thai	Mondays 8-10am.	*
16.26N	18.45	HBF	Geneva, Switzerland	Fridays 8:45-10:45am	*
16.81	17.85	TPB3	Paris, France	8:30-10am.	
16.82	17.845	DJH	Zeesen, Germany	12:05-7:50, 8-9, 9-11am.	
16.82S	17.84	EIRE	Athlone, Ireland	7:30-9; even dates 11:30am-3:30, 4:30-5pm; odd days 11:30a-1:30pm	
16.83S	17.83	W2XE	New York City, N.Y.	7:15-9am, noon-5pm; Sat/Sun 7-11am, 11:30am-5pm.	
16.84S	17.82	2R08	Rome, Italy	5-8:45am, 6-7:25pm.	
16.85Y	17.81	GSV	Daventry, England	5:45-8:50, 9-11:15am.	
16.85	17.80	OIH	Lahti, Finland	4-9am.	16M
16.85S	17.80	XGOX	Chungking, China	9-10:30pm.	
16.86Y	17.79	GSG	Daventry, England	5:45-8:50, 9am-noon, 12:25-4pm.	
16.87S	17.785	JZL	Tokio, Japan	4:30-5:30, 8-9pm.	
16.87C	17.78	WNBI	New York City, N.Y.	4-9pm to Latin America.	*
16.87C	17.78	WRCA	New York City, N.Y.	8am-5pm omnidirectionally	*
16.89S	17.77	PHI2	Huizen, Holland	Sun. 6:40-10:05am; Mon/Th 7:40-9am; Tu/W/F/Sa 7:40-8:45am.	
16.98S	17.76	DJE	Zeesen, Germany	12:05-8:45am, 4:55-9pm, Sun 11:10am; Tu/W/F/Sa 7:40-8:45am.	
19.47S	15.41		U.S.S.R.	8:30-11am, 8:55-10:30 (am-12:25pm)	
19.52	15.37	HAS3	Budapest, Hungary	Sundays 9-10am.	
19.54N	15.35		LUXEMBOURG, LUXEMBOURG	Testing irreg. See notes.	
19.56	15.34	DJR	Zeesen, Germany	4:55-10:50pm to C.A.	
19.57C	15.33	WGEA	Schenectady, N.Y.	10:15am-5pm to Europe.	
19.57C	15.33	KGEI	San Francisco, Calif.	6:30-11:15pm.	19M
19.58	15.32	OZH	Skamlebak, Denmark	Sundays 8am-1:30pm.	
19.60Y	15.31	GSP	Daventry, England	1:15-4, 4:20-6pm.	
19.60	15.31	YDB	Soerabaja, Java	10:30pm-2am and Sat. 7:30pm-2am.	
19.61S	15.30	2R06	Rome, Italy	5:10-5:55am, 10am-12:06, 1:40-230	
19.62	15.29	LRU	Buenos Aires, Argentina	7-9am. (3-5:30, 7:30-9pm.	
19.62	15.29	VUD3	Delhi, India	1:30-3:30, 7:30am-12:30, 9:30-	
19.63S	15.28	DJQ	Zeesen, Germany	12:05-2:30am, 4:50-10:50 (11:30pm	
19.64	15.27	W2XE	New York City, N.Y.	5:30-7:30pm. (10:10pm	
19.64	15.27	HI3X	Trujillo City, D.R.	Sun. 7:40-9:40am; Tu/Fri 8:10-	
19.64	15.27	WCAB	Philadelphia, Pa.	10:45-11:45am, 12:30-5:15, Sat. 12	
19.66YS	15.26	GSI	Daventry, England	1:30-3:45am, 12:25-4pm. (-5:15p	
19.68	15.243	TPA2	Pontoise, France	5-10am to Asia.	
19.68N	15.24	YUG	BELGRADE, YUGOSLAVIA	Mondays 6-7, 8-9pm for N.A.	*
19.68N	15.24	CR7BD	LOURENCO MARQUES, MOZAMBIQUE	4:30-6:30, 9:30-11am, -	
19.70S	15.23	OLR5A	Prague, Bohemia	6:55-9:15pm & ir. *(noon-4pm. *	
19.71S	15.22	PCJ2	Huizen, Holland	Su/M/Th 7:40-9am; M/Tu/Wd/F/Sat- 7:40-8:45am; Tu 1-2:30am; Wd 9:30	
19.72C	15.21	WPIT	Pittsburgh, Pa.	8am-1pm. (-11am	
19.74	15.20	DJB	Zeesen, Germany	12:05-11am, 4:50-10:50pm, Sun-	
19.74	15.195	TAQ	Ankara, Turkey	5:30-7am. (11:10am-12:25pm.	
19.75	15.19	OIE	Lahti, Finland	1:05-4, 9am-5pm.	
19.76S	15.185	XGOX	Chungking, China	8-9:30am.	*
19.76S	15.18	RV96	Moscow, U.S.S.R.	11:55pm-2, 3-4am, 7-9pm.	*
19.76	15.18	GSO	Daventry, England	4:20-6pm, 6:25-9:30pm.	
19.78	15.17	TGWA	Guatemala, Guatemala	12:45-1:45pm; Sun. 12:45-5:15pm	

SHORT-WAVE BROADCASTING STATIONS

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

DIAL METERS	MEGS.	CALL	STATION	TIME.....	EASTERN STANDARD
13.87C	21.63	WRCA	New York City, N.Y.	8am-4pm to Europe.	*
13.93C	21.54	WPIT	Pittsburgh, Pa.	5:30-8am.	*
13.93Y	21.53	GSJ	Daventry, England	5:45-8:50, 9am-noon.	
13.95N	21.51	2R016	ROME, ITALY	9-9:55am	*
13.96C	21.50	WGEA	Schenectady, N.Y.	7-10am.	*
13.97Y	21.47	GSH	Daventry, England	5:45-8:50, 9am-noon to Africa.	
13.98C	21.46	WSLR	Boston, Mass.	Sun. 9-11:30am & irreg.	13M
13.99	21.45	DJS	Zeesen, Germany	12:05-7:55am to Asia.	
15.77	19.02	HS6PJ	Bangkok, Thai	Mondays 8-10am.	*
16.26N	18.45	HBF	Geneva, Switzerland	Fridays 8:45-10:45am	*
16.81	17.85	TPB3	Paris, France	8:30-10am.	
16.82	17.845	DJH	Zeesen, Germany	12:05-7:50, 8-9, 9-11am.	
16.82S	17.84	EIRE	Athlone, Ireland	7:30-9; even dates 11:30am-3:30, 4:30-5pm; odd days 11:30a-1:30pm	
16.83S	17.83	W2XE	New York City, N.Y.	7:15-9am, noon-5pm; Sat/Sun 7-11am, 11:30am-5pm.	
16.84S	17.82	2R08	Rome, Italy	5-8:45am, 6-7:25pm.	
16.85Y	17.81	GSV	Daventry, England	5:45-8:50, 9-11:15am.	
16.85	17.80	OIH	Lahti, Finland	4-9am.	16M
16.85S	17.80	XGOX	Chungking, China	9-10:30pm.	
16.86Y	17.79	GSG	Daventry, England	5:45-8:50, 9am-noon, 12:25-4pm.	
16.87S	17.785	JZL	Tokio, Japan	4:30-5:30, 8-9pm.	
16.87C	17.78	WNBI	New York City, N.Y.	4-9pm to Latin America.	*
16.87C	17.78	WRCA	New York City, N.Y.	8am-5pm omnidirectionally	*
16.89S	17.77	PHI2	Huizen, Holland	Sun. 6:40-10:05am; Mon/Th 7:40-9am; Tu/W/F/Sa 7:40-8:45am.	
16.98S	17.76	DJE	Zeesen, Germany	12:05-8:45am, 4:55-9pm, Sun 11:10am; Tu/W/F/Sa 7:40-8:45am.	
19.47S	15.41		U.S.S.R.	8:30-11am, 8:55-10:30 (am-12:25pm)	
19.52	15.37	HAS3	Budapest, Hungary	Sundays 9-10am.	
19.54N	15.35		LUXEMBOURG, LUXEMBOURG	Testing irreg. See notes.	
19.56	15.34	DJR	Zeesen, Germany	4:55-10:50pm to C.A.	
19.57C	15.33	WGEA	Schenectady, N.Y.	10:15am-5pm to Europe.	
19.57C	15.33	KGEI	San Francisco, Calif.	6:30-11:15pm.	19M
19.58	15.32	OZH	Skamlebak, Denmark	Sundays 8am-1:30pm.	
19.60Y	15.31	GSP	Daventry, England	1:15-4, 4:20-6pm.	
19.60	15.31	YDB	Soerabaja, Java	10:30pm-2am and Sat. 7:30pm-2am.	
19.61S	15.30	2R06	Rome, Italy	5:10-5:55am, 10am-12:06, 1:40-230	
19.62	15.29	LRU	Buenos Aires, Argentina	7-9am. (3-5:30, 7:30-9pm.	
19.62	15.29	VUD3	Delhi, India	1:30-3:30, 7:30am-12:30, 9:30-	
19.63S	15.28	DJQ	Zeesen, Germany	12:05-2:30am, 4:50-10:50 (11:30pm	
19.64	15.27	W2XE	New York City, N.Y.	5:30-7:30pm. (10:10pm	
19.64	15.27	HI3X	Trujillo City, D.R.	Sun. 7:40-9:40am; Tu/Fri 8:10-	
19.64	15.27	WCAB	Philadelphia, Pa.	10:45-11:45am, 12:30-5:15, Sat. 12	
19.66YS	15.26	GSI	Daventry, England	1:30-3:45am, 12:25-4pm. (-5:15p	
19.68	15.243	TPA2	Pontoise, France	5-10am to Asia.	
19.68N	15.24	YUG	BELGRADE, YUGOSLAVIA	Mondays 6-7, 8-9pm for N.A.	*
19.68N	15.24	CR7BD	LOURENCO MARQUES, MOZAMBIQUE	4:30-6:30, 9:30-11am, -	
19.70S	15.23	OLR5A	Prague, Bohemia	6:55-9:15pm & ir. *(noon-4pm. *	
19.71S	15.22	PCJ2	Huizen, Holland	Su/M/Th 7:40-9am; M/Tu/Wd/F/Sat- 7:40-8:45am; Tu 1-2:30am; Wd 9:30	
19.72C	15.21	WPIT	Pittsburgh, Pa.	8am-1pm. (-11am	
19.74	15.20	DJB	Zeesen, Germany	12:05-11am, 4:50-10:50pm, Sun-	
19.74	15.195	TAQ	Ankara, Turkey	5:30-7am. (11:10am-12:25pm.	
19.75	15.19	OIE	Lahti, Finland	1:05-4, 9am-5pm.	
19.76S	15.185	XGOX	Chungking, China	8-9:30am.	*
19.76S	15.18	RV96	Moscow, U.S.S.R.	11:55pm-2, 3-4am, 7-9pm.	*
19.76	15.18	GSO	Daventry, England	4:20-6pm, 6:25-9:30pm.	
19.78	15.17	TGWA	Guatemala, Guatemala	12:45-1:45pm; Sun. 12:45-5:15pm	

19.78S	15.17	LKV	Oslo, Norway	6:40am-5pm.	*
19.79S	15.16	JZK	Tokio, Japan	12-1:30, 7-9:30am, 2-3, 8-9pm.	*
19.80	15.155	SBT	Motala, Sweden	1-4:15pm, Wed/Sat 8-9pm.	*
19.80S	15.15	YDC	Bandoeng, Java	4:30-10:30am; 6-9pm ex.Sat; 10:30pm-2am; Sat. 7pm-2am.	
19.82Y	15.14	GSF	Daventry, England	5:45-8:50, 9am-noon, 4:20-6, 6:20-1-4am.	(9:15pm)
19.83	15.13	TPB6	Paris, France	2:30-5:30, 9-10pm ex.Sat/Sun ir.	
19.83	15.13	WLXAR	Boston, Mass.	6-9pm.	
19.84	15.12	SP19	Warsaw, Poland	See notes.	
19.84	15.12	HVJ	Vatican City, Italy	6-8am.	
19.84	15.12	CSW4	Lisbon, Portugal	12:05-2, 8-9, 10:40am-4:25pm.	
19.85	15.11	DJL	Zeesen, Germany	4-5:30, 6-7:25, 7:30-9pm irreg.	*
19.87S	15.10	ZR012	Rome, Italy	7-9pm in English.	
19.95	15.04	RKI	Moscow, U.S.S.R.	6-7pm; Wed. 4-4:10pm; Thur 3p	
20.08	14.94	PSE	Rio de Janeiro, Brazil	Sat. 7:30-8pm; Sun. 9-9:30pm.	
20.11S	14.92	KQH	Kahuku, Hawaii	4:30-4:55am.	
20.28	14.795	IQA	Rome, Italy	Wed. 6:45-8:15; 8:45-10:15pm.	*
20.64S	14.535	HBJ	Geneva, Switzerland	5:45-7:30pm. (pm ex.Mon.)	
20.78	14.44		Malaga, Spain	7-8:15, 11:30am-2:30, 4:45-10:15-	
20.80	14.42	HCL1JB	Quito, Ecuador	Sat. 9:30-10pm or later.	*
21.58	13.90	YNDG	Leon, Nicaragua	6-9pm.	
22.00	13.635	SPW	Warsaw, Poland	6:40-10:40am, 5:10-10:40pm.	
24.03	12.486	HILN	Trujillo City, D.R.	7-8:15, 11:30am-2:30, 5-10:30pm-	
24.08	12.46	HCJB	Quito, Ecuador	Sundays 1:30-2:30pm. (ex.Mon.)	
24.53	12.235	TFJ	Reykjavik, Iceland	6am-5:30pm inter., 9-10pm & irr.	
25.00	12.00	RNE	Moscow, U.S.S.R.	7-11pm.	
25.06	11.97	CB1180	Santiago, Chile	Tues/Fri 8:10-10:10pm; Sun 7:40-	
25.06	11.97	HI2X	Trujillo City, D.R.	7:30am-noon, 4-10pm. (9:40am	
25.13	11.94	TI2XD	San Jose, C.R.	9:30-11am, 2-3:20, 4:30-6:20pm	*
25.15V	11.93	XGOY	Chungking, China	3:45-4:15, 7-9:30am.	
25.19	11.91		Hanoi, F. Indo-China	10am-1, 3-6, 7-10pm.	
25.19	11.91	CD1190	Valdivia, Chile	7:30pm-mid.; Sun. 12:30-2pm.	
25.21	11.90	XEWI	Mexico D.F., Mexico	8:30-11pm beamed on No.America.	
25.23	11.885	TPB11	Paris, France	6-8:15pm beamed on So.America	
25.23	11.885	TPB12	Paris, France	3:30pm-mid.	
25.25	11.88	VLR3	Melbourne, Australia	1-10pm.	
25.27C	11.87	WPIT	Pittsburgh, Pa.	Mon/Wed/Fri 3:30-4am.	
25.27	11.87	VUM2	Madras, India	12:05-2am, 4:50-10:50pm.	
25.30S	11.855	DJP	Zeesen, Germany	5-10:30am approx.	
25.30	11.855	XMHA	Shanghai, China	Sat. 6-11pm & irreg.	
25.32	11.85	CB1185	Santiago, Chile	8-10:30pm to S.A.	
25.36	11.83	W2XE	New York City, N.Y.	9-11am, 8-10:30pm or later.	
25.37	11.826	XEBR	Hermosillo, Mexico	8-9 pm soon.	*
25.37	11.825	JV22	TOKIO, JAPAN	6-8:35am irreg.	
25.38F	11.82	XGOK	Canton, China	4:10-8:45, 10am-3, 6-9pm.	
25.40S	11.81	ZR04	Rome, Italy	6am-9pm.	
25.41	11.805	COGF	Matanzas, Cuba	4:50-10:50pm to No.America.	
25.42	11.801	DJZ	Vienna, Germany	7-9:30am, 2-4pm.	*
25.42S	11.80	JZJ	Tokio, Japan	2:30-5:30pm ex.Sat/Sun irreg.	
25.45	11.79	WSLR	Boston, Mass.	LUXEMBOURG, LUXEMBOURG Testing irreg.	*
25.47N	11.782		LUXEMBOURG, LUXEMBOURG	Saigon, F. Indo-China 8:30-9:45am, 12:15-12:45am.	*
25.47S	11.78			Panama City, Panama Noon-1, 6-10pm.	*
25.47	11.78	HP5G		1:15am-12:05pm.	
25.47	11.78	OFE	Lahti, Finland	1:30-2:20am, to N.A.	*
25.48	11.775	MTCY	Hsinking, Manchoukuo	11:30am-4:25, 4:50-10:50pm.	
25.49	11.77	DJD	Zeesen, Germany	Does anyone hear?	
25.50	11.76	XETA	Monterrey, Mexico	1:30-3:45, 12:25-4, 4:20-6, 6:20-	
25.53YS	11.75	GSD	Daventry, England	Irreg. * (9:15, 9:40-11:30pm.	
25.55N	11.74	CB1174	SANTIAGO, CHILE	6-9pm.	
25.55	11.74	SP25	Warsaw, Poland	See Notes.	
25.55	11.74	HVJ	Vatican City, Italy	8am-12 mid.	
25.57V	11.735	COCX	Havana, Cuba	4:30-6:40am; Sun 2:30-6:40am.	*
25.57S	11.735	LKQ	Oslo, Norway	6:30-8:30, 8:45-10pm; Sun. 1:30-	
25.58	11.73	WLXAR	Boston, Mass.	(5:30pm.)	

19.78S	15.17	LKV	Oslo, Norway	6:40am-5pm.	*
19.79S	15.16	JZK	Tokio, Japan	12-1:30, 7-9:30am, 2-3, 8-9pm.	*
19.80	15.155	SBT	Motala, Sweden	1-4:15pm, Wed/Sat 8-9pm.	*
19.80S	15.15	YDC	Bandoeng, Java	4:30-10:30am; 6-9pm ex.Sat; 10:30pm-2am; Sat. 7pm-2am.	
19.82Y	15.14	GSF	Daventry, England	5:45-8:50, 9am-noon, 4:20-6, 6:20-1-4am.	(9:15pm)
19.83	15.13	TPB6	Paris, France	2:30-5:30, 9-10pm ex.Sat/Sun ir.	
19.83	15.13	WLXAR	Boston, Mass.	6-9pm.	
19.84	15.12	SP19	Warsaw, Poland	See notes.	
19.84	15.12	HVJ	Vatican City, Italy	6-8am.	
19.84	15.12	CSW4	Lisbon, Portugal	12:05-2, 8-9, 10:40am-4:25pm.	
19.85	15.11	DJL	Zeesen, Germany	4-5:30, 6-7:25, 7:30-9pm irreg.	*
19.87S	15.10	2R012	Rome, Italy	7-9pm in English.	
19.95	15.04	RKI	Moscow, U.S.S.R.	6-7pm; Wed. 4-4:10pm; Thur 3p	
20.08	14.94	PSE	Rio de Janeiro, Brazil	Sat. 7:30-8pm; Sun. 9-9:30pm.	
20.11S	14.92	KQH	Kahuku, Hawaii	4:30-4:55am.	
20.28	14.795	IQA	Rome, Italy	Wed. 6:45-8:15; 8:45-10:15pm.	*
20.64S	14.535	HBJ	Geneva, Switzerland	5:45-7:30pm. (pm ex.Mon.)	
20.78	14.44		Malaga, Spain	7-8:15, 11:30am-2:30, 4:45-10:15-	
20.80	14.42	HCL1JB	Quito, Ecuador	Sat. 9:30-10pm or later.	*
21.58	13.90	YNDG	Leon, Nicaragua	6-9pm.	
22.00	13.635	SPW	Warsaw, Poland	6:40-10:40am, 5:10-10:40pm.	
24.03	12.486	H11N	Trujillo City, D.R.	7-8:15, 11:30am-2:30, 5-10:30pm-	
24.08	12.46	HCJB	Quito, Ecuador	Sundays 1:30-2:30pm. (ex.Mon.)	
24.53	12.235	TFJ	Reykjavik, Iceland	6am-5:30pm inter., 9-10pm & irr.	
25.00	12.00	RNE	Moscow, U.S.S.R.	7-11pm.	
25.06	11.97	CB1180	Santiago, Chile	Tues/Fri 8:10-10:10pm; Sun 7:40-	
25.06	11.97	HI2X	Trujillo City, D.R.	7:30am-noon, 4-10pm. (9:40am	
25.13	11.94	TI2XD	San Jose, C.R.	9:30-11am, 2-3:20, 4:30-6:20pm	*
25.15V	11.93	XGOY	Chungking, China	3:45-4:15, 7-9:30am.	
25.19	11.91		Hanoi, F. Indo-China	10am-1, 3-6, 7-10pm.	
25.19	11.91	CD1190	Valdivia, Chile	7:30pm-mid.; Sun. 12:30-2pm.	
25.21	11.90	XEWI	Mexico D.F., Mexico	8:30-11pm beamed on No.America.	
25.23	11.885	TPB11	Paris, France	6-8:15pm beamed on So.America	
25.23	11.885	TPB12	Paris, France	3:30pm-mid.	
25.25	11.88	VLR3	Melbourne, Australia	1-10pm.	
25.27C	11.87	WPIT	Pittsburgh, Pa.	Mon/Wed/Fri 3:30-4am.	
25.27	11.87	VUM2	Madras, India	12:05-2am, 4:50-10:50pm.	
25.30S	11.855	DJP	Zeesen, Germany	5-10:30am approx.	
25.30	11.855	XMHA	Shanghai, China	Sat. 6-11pm & irreg.	
25.32	11.85	CB1185	Santiago, Chile	8-10:30pm to S.A.	
25.36	11.83	W2XE	New York City, N.Y.	9-11am, 8-10:30pm or later.	
25.37	11.826	XEBR	Hermosillo, Mexico	8-9 pm soon.	*
25.37	11.825	JV22	TOKIO, JAPAN	6-8:35am irreg.	
25.38F	11.82	XGOK	Canton, China	4:10-8:45, 10am-3, 6-9pm.	
25.40S	11.81	2R04	Rome, Italy	6am-9pm.	
25.41	11.805	COGF	Matanzas, Cuba	4:50-10:50pm to No.America.	
25.42	11.801	DJZ	Vienna, Germany	7-9:30am, 2-4pm.	*
25.42S	11.80	JZJ	Tokio, Japan	2:30-5:30pm ex.Sat/Sun irreg.	
25.45	11.79	WSLR	Boston, Mass.	LUXEMBOURG, LUXEMBOURG Testing irreg.	*
25.47N	11.782		LUXEMBOURG, LUXEMBOURG	Saigon, F. Indo-China 8:30-9:45am, 12:15-12:45am.	*
25.47S	11.78			Panama City, Panama Noon-1, 6-10pm.	
25.47	11.78	HP5G		1:15am-12:05pm.	
25.47	11.78	OFE	Lahti, Finland	1:30-2:20am, to N.A.	*
25.48	11.775	MTCY	Hsinking, Manchoukuo	11:30am-4:25, 4:50-10:50pm.	
25.49	11.77	DJD	Zeesen, Germany	Does anyone hear?	
25.50	11.76	XETA	Monterrey, Mexico	1:30-3:45, 12:25-4, 4:20-6, 6:20-	
25.53YS	11.75	GSD	Daventry, England	Irreg. * (9:15, 9:40-11:30pm.	
25.55N	11.74	CB1174	SANTIAGO, CHILE	6-9pm.	
25.55	11.74	SP25	Warsaw, Poland	See Notes.	
25.55	11.74	HVJ	Vatican City, Italy	8am-12 mid.	
25.57V	11.735	COCX	Havana, Cuba	4:30-6:40am; Sun 2:30-6:40am.	*
25.57S	11.735	LKQ	Oslo, Norway	6:30-8:30, 8:45-10pm; Sun. 1:30-	
25.58	11.73	WLXAR	Boston, Mass.	(5:30pm.)	

25.59	11.725	JVW3	Tokio, Japan	2-4, 4-8am irreg.
25.60	11.72	CJRX	Winnipeg, Canada	Sat.6pm-Sun.4am. (6pm)
25.60	11.72	ZP14	Villarica, Paraguay	Mon.thru Fri.5-8pm; Sa/Su 11am-
25.60	11.718	CR7BH	Lourenco Marques, Mozambique	4:30-6:30, 9-11am, Noon-4pm, Sun. 4-7, 10am-2pm.
25.61	11.713	TPA4	Pontoise, France	6-8:15, 8:30-11pm to N.A.
25.62	11.71	YSM	San Salvador, El Salvador	1-2:30pm.
25.62	11.71		Saigon, F. Indo-China	7:30-9:45am. (8-9pm)
25.63	11.705	SBP	Motala, Sweden	1-4:15pm; Sun. 3am-4:15pm; Wed/Sa
25.64	11.70	HP5A	Panama City, Panama	7-8:30am, 10am-1, 5-10pm; Su. 6-10p
25.64	11.70	CB1170	Santiago, Chile	10am-2, 3:30-11pm.
25.74	11.67	IQY	Rome, Italy	5:20-5:40am, 12:06-12:56, 1:50-
26.01	11.535	SPD	Warsaw, Poland	6-9pm. (2:30pm)
26.32S	11.402	HBO	Geneva, Switzerland	Mon. 6:45-8:15, 8:45-10:15; Tues-- 12:45-2:45pm; 1st Sun. 12:45-230a
27.17	11.04	CSW5	Lisbon, Portugal	11am-4:30pm; Sun. 10am-4:30pm.
27.27S	11.00	PLP	Bandoeng, Java	4:30-10:30am, 6-9, 10:30pm-2am.
28.48	10.535	JTB	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	Ruyssedele, Belgium	1:30-3pm to Belgian Congo. (Sun
29.24	10.26	PMN	Bandoeng, Java	4:30-10:30am, 6-9, 10:30pm-2am ex.
29.35	10.22	PSH	Rio de Janeiro, Brazil	6-7pm; Mon. 8-8:30pm; Fri. 7-
29.85	10.05	TIEM	San Jose, C.R.	4:30-3pm. (7:30pm)
30.05V	9.985	COBC	Havana, Cuba	6am-mid.
30.23	9.925	JDY	Darien, Manchoukuo	7-8am.
30.45S	9.855	EAQ	Madrid, Spain	5-7:30pm; Sat. 1-3pm, 5-7:30pm.
30.52	9.83	IRF	Rome, Italy	5:30-5:40, 12-12:25, 12:40-1, 1:50-2:30-, 6-9pm.
30.57J	9.815	COCM	Havana, Cuba	8am-12:30am; irreg. to 2am.
30.71F	9.77	HH3W	Port-au-Prince, Haiti	1-2, 7-9:15pm.
30.77	9.752	ZRO	Durban, So. Africa	11:45pm-12:50, 3:30-7:30, 9-11:15- am; Sun. 5:30-7, 9-11:15am.
30.80	9.74	CSW7	Lisbon, Portugal	6-9pm.
30.90N	9.71	DXB	ZEESEN, GERMANY	8-11pm, 12:05-2am. *
30.93	9.70		Fort-de-France, Martinique	6-8:10 or 9:30pm.
30.95	9.695	TIE2	Tyureki, Taiwan	9:05-10:20am. (am; Sun. 2:30-4am.
30.95	9.693		Tananarive, Madagascar	12:30-12:45, 3:30-4:30, 10-11-
30.96	9.69	TI4NRH	Heredia, Costa Rica	Tu/Th/Sat. 9-10pm; Sun. 7-8am.
30.96	9.69	LRA1	Buenos Aires, Argen.	Mon. to Th. 6-9pm; Fri. 4-9pm, Sat/ Sun 7-9pm. (Sun 5:40-9:40am)
30.96V	9.69	ZHP	Singapore, S.S.	4:40-9:40am; Wed/Sat 12:40-1:40am
30.98	9.685	TGWA	Guatemala, Guatemala	10-11:30pm ex. Sun; Sun 7pm-mid.
30.98	9.683	HNF	Baghdad, Iraq	Heard on West coast 8-9:30am. *
31.01	9.675	DJX	Vienna, Germany	10:40am-4:25pm to Africa.
31.01V	9.675		Saigon, F. Indo-China	7:30-9:45am.
31.02C	9.67	WRCA	New York City, N.Y.	5pm-mid. *
31.03	9.67	2RO9	Rome, Italy	12:40-5:30, 6-6:30pm.
31.06	9.66	LRX	Buenos Aires, Argen.	6-6:45am, 9:15am-10pm.
31.06	9.66	HVJ	Vatican City, Italy	See notes.
31.09	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-10:45 or 11pm; Sat. to lam.
31.15	9.63	2RO3	Rome, Italy	12:07-2:55, 5:30-9pm.
31.15	9.63	JFO	Taihoku, Taiwan	4-10:30am.
31.19	9.625	CXA6	Montevideo, Uruguay	10:30am-12:30, 3:30-9:30pm.
31.21J	9.615	TIPG	San Jose, C.R.	7-9:30am, 12-2, 8-11:30pm.
31.22F	9.61	ZRL	Capetown, So. Africa	11:45pm-12:50am ex. Sat; 3:30-7:20 -9-11:45am; Sun. 3:30-11:45am int.
31.22J	9.61	HP5J	Panama City, Panama	Noon-1:30, 6:30-10:30pm.
31.24	9.604	XEYU	Mexico D.F., Mexico	9-11pm irreg.
31.25	9.60	RAN	Moscow, U.S.S.R.	6-7, 7-9, 9-10pm.
31.25	9.60	CB960	Santiago, Chile	8-11:30pm.
31.27	9.595	EIRE	Athlone, Ireland	Odd dates 1:30-3:30, 4:30-5pm. *
31.28	9.59	PCJ	Huizen, Holland	Sun 1:40-3, 7:15-9:50pm; Tu 1:45-

25.59	11.725	JVW3	Tokio, Japan	2-4, 4-8am irreg.
25.60	11.72	CJRX	Winnipeg, Canada	Sat.6pm-Sun.4am. (6pm)
25.60	11.72	ZP14	Villarica, Paraguay	Mon.thru Fri.5-8pm; Sa/Su 11am-
25.60	11.718	CR7BH	Lourenco Marques, Mozambique	4:30-6:30, 9-11am, Noon-4pm, Sun. 4-7, 10am-2pm.
25.61	11.713	TPA4	Pontoise, France	6-8:15, 8:30-11pm to N.A.
25.62	11.71	YSM	San Salvador, El Salvador	1-2:30pm.
25.62	11.71		Saigon, F. Indo-China	7:30-9:45am. (8-9pm)
25.63	11.705	SBP	Motala, Sweden	1-4:15pm; Sun. 3am-4:15pm; Wed/Sa
25.64	11.70	HP5A	Panama City, Panama	7-8:30am, 10am-1, 5-10pm; Su. 6-10p
25.64	11.70	CB1170	Santiago, Chile	10am-2, 3:30-11pm.
25.74	11.67	IQY	Rome, Italy	5:20-5:40am, 12:06-12:56, 1:50-
26.01	11.535	SPD	Warsaw, Poland	6-9pm. (2:30pm)
26.32S	11.402	HBO	Geneva, Switzerland	Mon. 6:45-8:15, 8:45-10:15; Tues-- 12:45-2:45pm; 1st Sun. 12:45-230a
27.17	11.04	CSW5	Lisbon, Portugal	11am-4:30pm; Sun. 10am-4:30pm.
27.27S	11.00	PLP	Bandoeng, Java	4:30-10:30am, 6-9, 10:30pm-2am.
28.48	10.535	JTB	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	Ruyselede, Belgium	1:30-3pm to Belgian Congo. (Sun
29.24	10.26	PMN	Bandoeng, Java	4:30-10:30am, 6-9, 10:30pm-2am ex.
29.35	10.22	PSH	Rio de Janeiro, Brazil	6-7pm; Mon. 8-8:30pm; Fri. 7-
29.85	10.05	TIEM	San Jose, C.R.	4:30-3pm. (7:30pm)
30.05V	9.985	COBC	Havana, Cuba	6am-mid.
30.23	9.925	JDY	Darien, Manchoukuo	7-8am.
30.45S	9.855	EAQ	Madrid, Spain	5-7:30pm; Sat. 1-3pm, 5-7:30pm.
30.52	9.83	IRF	Rome, Italy	5:30-5:40, 12-12:25, 12:40-1, 1:50-2:30-, 6-9pm.
30.57J	9.815	COCM	Havana, Cuba	8am-12:30am; irreg. to 2am.
30.71F	9.77	HH3W	Port-au-Prince, Haiti	1-2, 7-9:15pm.
30.77	9.752	ZRO	Durban, So. Africa	11:45pm-12:50, 3:30-7:30, 9-11:15- am; Sun. 5:30-7, 9-11:15am.
30.80	9.74	CSW7	Lisbon, Portugal	6-9pm.
30.90N	9.71	DXB	ZEESEN, GERMANY	8-11pm, 12:05-2am. *
30.93	9.70		Fort-de-France, Martinique	6-8:10 or 9:30pm.
30.95	9.695	TIE2	Tyureki, Taiwan	9:05-10:20am. (am; Sun. 2:30-4am.
30.95	9.693		Tananarive, Madagascar	12:30-12:45, 3:30-4:30, 10-11-
30.96	9.69	TI4NRH	Heredia, Costa Rica	Tu/Th/Sat. 9-10pm; Sun. 7-8am.
30.96	9.69	LRA1	Buenos Aires, Argen.	Mon. to Th. 6-9pm; Fri. 4-9pm, Sat/ Sun 7-9pm. (Sun 5:40-9:40am)
30.96V	9.69	ZHP	Singapore, S.S.	4:40-9:40am; Wed/Sat 12:40-1:40am
30.98	9.685	TGWA	Guatemala, Guatemala	10-11:30pm ex. Sun; Sun 7pm-mid.
30.98	9.683	HNF	Baghdad, Iraq	Heard on West coast 8-9:30am. *
31.01	9.675	DJX	Vienna, Germany	10:40am-4:25pm to Africa.
31.01V	9.675		Saigon, F. Indo-China	7:30-9:45am.
31.02C	9.67	WRCA	New York City, N.Y.	5pm-mid. *
31.03	9.67	2RO9	Rome, Italy	12:40-5:30, 6-6:30pm.
31.06	9.66	LRX	Buenos Aires, Argen.	6-6:45am, 9:15am-10pm.
31.06	9.66	HVJ	Vatican City, Italy	See notes.
31.09	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-10:45 or 11pm; Sat. to lam.
31.15	9.63	2RO3	Rome, Italy	12:07-2:55, 5:30-9pm.
31.15	9.63	JFO	Taihoku, Taiwan	4-10:30am.
31.19	9.625	CXA6	Montevideo, Uruguay	10:30am-12:30, 3:30-9:30pm.
31.21J	9.615	TIPG	San Jose, C.R.	7-9:30am, 12-2, 8-11:30pm.
31.22F	9.61	ZRL	Capetown, So. Africa	11:45pm-12:50am ex. Sat; 3:30-7:20 -9-11:45am; Sun. 3:30-11:45am int.
31.22J	9.61	HP5J	Panama City, Panama	Noon-1:30, 6:30-10:30pm.
31.24	9.604	XEYU	Mexico D.F., Mexico	9-11pm irreg.
31.25	9.60	RAN	Moscow, U.S.S.R.	6-7, 7-9, 9-10pm.
31.25	9.60	CB960	Santiago, Chile	8-11:30pm.
31.27	9.595	EIRE	Athlone, Ireland	Odd dates 1:30-3:30, 4:30-5pm. *
31.28	9.59	PCJ	Huizen, Holland	Sun 1:40-3, 7:15-9:50pm; Tu 1:45-

31.28	9.59	VK6ME	Perth, W. Australia	3:30pm, 7-10:15pm; Wd 7:15-8:40pm.
31.28	9.59	VK2ME	Sydney, Australia	Weekdays 6-8am. (Fri. 8-9pm.)
31.28SC	9.59	WCAB	Philadelphia, Pa.	Sun. 12-2, 4:30-8:30, 10:30am-12:30
31.28	9.59	VUD2	Delhi, India	Mon/Thu 5:30-6:15, 5:30-10:30 (pm)
31.30	9.585	KZHS	Manila, Philippines	pm; Sat 5:30-6, 6:30-10:30pm
31.32YS	9.58	GSC	Danvers, England	1:30-3:30, 7am-12:30, 9:30-11:30pm
31.32	9.58	VLR	Melbourne, Australia	Daily from 6am on. (11:30pm)
31.35C	9.57	WBOS	Boston, Mass.	1:30-4, 4:20-6, 6:25-9:20, 9:40-
31.35	9.57	KZRM	Manila, Philippines	Weekdays 12 mid.-8:30am, Sun 12
31.35	9.57	CXA2	Montevideo, Uruguay	8am-1am. (-7:30am)
31.38	9.556	OAX4T	Lima, Peru	Weekdays 4:30-6pm; Mon. to Fri.
31.38	9.56	XGAP	Peking, China	5-9am; Sat 5-10am; Sun. 4-10am.
31.38	9.56	DJA	Zeesen, Germany	5:30-10:30pm.
31.40	9.55	YDB	Soerabaja, Java	11:30am-1:30pm.
31.40	9.55	VUD2	Bombay, India	4-9am.
31.41C	9.55	WGEA	Schenectady, N.Y.	6:30-10:50pm to C.A.
31.41	9.55	XEFT	Veracruz, Mexico	4:30-10:30am; 6-9, 10:30pm-2am ex
31.45	9.54	DJN	Zeesen, Germany	Sat; Sat. 7pm-2am.
31.46	9.538	VPD2	Suva, Fiji's	1:30-3:30, 5-6am, 9:30-10:30pm.
31.47	9.535	SBU	Motala, Sweden	5:15-8:15pm to S.A.
31.47	9.535	JZI	Tokio, Japan	7:30pm-midnight.
31.48C	9.53	KGEI	San Francisco, Calif.	12:05-2:30, 9:30-11am, 4:55-10:50
31.48C	9.53	WGEO	Schenectady, N.Y.	5:30-7am ex. Sundays.
31.48	9.528	VUC2	Calcutta, India	4:15-5:05pm.
31.48N	9.527		LUXEMBOURG, LUXEMBOURG	4:30-5:30pm.
31.50	9.525	ZBW3	Hong Kong, Hong King	7am-noon, 12 mid-3am to Asia.
31.50	9.525	OQ2AA	Leopoldville, Bel. Congo	3-5, 5-11pm to S.A.
31.50	9.525	SP31	Warsaw, Poland	2-4am, 10pm-2am.
31.50	9.523	ZRG	Pretoria, So. Africa	LUXEMBOURG, LUXEMBOURG Testing here irreg. *
31.51	9.52	OZF	Skamlebak, Denmark	Hong Kong, Hong King 5-10am, 11:30pm-1:15am; Sun 5-
31.51	9.52	RV96	Moscow, U.S.S.R.	Leopoldville, Bel. Congo 5:25-7am. (9:30am; Sa 9pm on
31.52F	9.517	XEDQ	Guadalajara, Mexico	2:35-5:30pm.
31.55Y	9.51	GSB	Danvers, England	5-7am; Sundays 5:30-7am.
31.55	9.51	HS8PJ	Bangkok, Thai	8-9:30, 9:30-11pm.
31.57	9.503	XEWW	Mexico D.F., Mexico	1-3, 4-7pm & irreg.
31.58	9.501	PRF5	Rio de Janeiro, Brazil	1-30; 3:45am, 6:20-9:15, 9:40-11:30
31.58	9.50	OFD	Lahti, Finland	7-10am except Mondays.
31.58	9.50	VK3ME	Leopoldville, Australia	7:45am-12:30am.
31.58	9.50	XGOY	Chungking, China	4:45-5:55pm ex. Sundays.
31.60V	9.492	KZIB	Manila, P.I.	12:15-5pm.
31.70	9.465	TAP	Ankara, Turkey	4-7am except Sundays.
31.77	9.445	HCODA	Guayaquil, Ecuador	6:30-7:40pm irreg. *
31.79V	9.436	COCH	Havana, Cuba	6-9:05am; 8:30pm-2:40am irreg. *
31.95	9.39	OAX5C	Ica, Peru	11:30am-5pm.
32.07V	9.354	HC1ETC	Quito, Ecuador	8:15-10:15pm ex. Sundays.
32.12	9.34	OAX4J	Lima, Peru	8am-11pm; Sun. 8am-10pm.
32.28	9.295	XTC	Shanghai, China	7-11:30pm.
32.28	9.295	HI2G	Trujillo City, D.R.	Noon-1:15am; till 3am irreg. *
32.34	9.285	LYR	Kaunas, Lithuania	Noon-1:15am; till 3am irreg. *
32.56	9.205	COBX	Havana, Cuba	6:40-8:40, 11:40am-2:10, 3:40-
32.61	9.20		Sofia, Bulgaria	12-1pm and 12 mid.-1am. *
32.64	9.19	HC2ET	Guayaquil, Ecuador	8am-11:30pm.
32.72	9.17	HC1GQ	Quito, Ecuador	Near 1:45am and Sun. at 8:15am.
32.88	9.125	HAT4	Budapest, Hungary	8-10pm; Sun 8:30-10:30pm.
32.89J	9.12	HC2CW	Guayaquil, Ecuador	Mon/Wed/Sat 9-9:55pm.
32.97V	9.10	COCA	Havana, Cuba	7-8pm; Sat. 6-7pm.
33.00	9.091	PJCI	Curacao, D.W.I.	11am-1, 7-11pm.
33.24	9.025	COBZ	Havana, Cuba	Noon-1:15am; till 3am irreg. *
33.48	8.96	COKG	Santiago, Cuba	Noon-1:15am; till 3am irreg. *
33.48	8.96	TPZ2	Algiers, Algeria	6:36-8:36pm; Su. 10:36am-12:36pm.
33.90J	8.85	COCQ	Havana, Cuba	7:45am-1:15am.

31M

31.28	9.59	VK6ME	Perth, W. Australia	3:30pm, 7-10:15pm; Wd 7:15-8:40pm.
31.28	9.59	VK2ME	Sydney, Australia	Weekdays 6-8am. (Fri. 8-9pm.)
31.28SC	9.59	WCAB	Philadelphia, Pa.	Sun. 12-2, 4:30-8:30, 10:30am-12:30
				Mon/Thu 5:30-6:15, 5:30-10:30 (pm
				pm; Sat 5:30-6, 6:30-10:30pm.
31.28	9.59	VUD2	Delhi, India	1:30-3:30, 7am-12:30, 9:30-11:30pm
31.30	9.585	KZHS	Manila, Philippines	Daily from 6am on. (11:30pm
31.32YS	9.58	GSC	Daventry, England	1:30-4, 4:20-6, 6:25-9:20, 9:40-
31.32	9.58	VLR	Melbourne, Australia	Weekdays 12 mid.-8:30am, Sun 12
31.35C	9.57	WBOS	Boston, Mass.	8am-1am. (-7:30am
31.35	9.57	KZRM	Manila, Philippines	Weekdays 4:30-6pm; Mon. to Fri.
				5-9am; Sat 5-10am; Sun. 4-10am.
31.35	9.57	CXA2	Montevideo, Uruguay	5:30-10:30pm.
31.38	9.556	OAX4T	Lima, Peru	11:30am-1:30pm.
31.38	9.56	XGAP	Peking, China	4-9am.
31.38	9.56	DJA	Zeesen, Germany	6:30-10:50pm to C.A.
31.40	9.55	YDB	Soerabaja, Java	4:30-10:30am; 6-9, 10:30pm-2am ex
				Sat; Sat. 7pm-2am.
31.40	9.55	VUD2	Bombay, India	1:30-3:30, 5-6am, 9:30-10:30pm.
31.41C	9.55	WGEA	Schenectady, N.Y.	5:15-8:15pm to S.A.
31.41	9.55	XEFT	Veracruz, Mexico	7:30pm-midnight.
31.45	9.54	DJN	Zeesen, Germany	12:05-2:30, 9:30-11am, 4:55-10:50
31.46	9.538	VPD2	Suva, Fiji's	5:30-7am ex. Sundays.
31.47	9.535	SBU	Motala, Sweden	4:15-5:05pm.
31.47	9.535	JZI	Tokio, Japan	4:30-5:30pm.
31.48C	9.53	KGEI	San Francisco, Calif.	7am-noon, 12 mid-3am to Asia.
31.48C	9.53	WGEO	Schenectady, N.Y.	3-5, 5-11pm to S.A.
31.48	9.528	VUC2	Calcutta, India	2-4am, 10pm-2am.
31.48N	9.527		LUXEMBOURG, LUXEMBOURG	Testing here irreg. *
31.50	9.525	ZBW3	Hong Kong, Hong King	5-10am, 11:30pm-1:15am; Sun 5-
31.50	9.525	OQ2AA	Leopoldville, Bel. Congo	5:25-7am. (9:30am; Sa 9pm on
31.50	9.525	SP31	Warsaw, Poland	2:35-5:30pm.
31.50	9.523	ZRG	Pretoria, So. Africa	5-7am; Sundays 5:30-7am.
31.51	9.52	OZF	Skamlebak, Denmark	8-9:30, 9:30-11pm.
31.51	9.52	RV96	Moscow, U.S.S.R.	1-3, 4-7pm & irreg.
31.52F	9.517	XEDQ	Guadalajara, Mexico	Noon-4:30, 7pm-mid. (pm
31.55Y	9.51	GSB	Daventry, England	1:30-3:45am, 6:20-9:15, 9:40-11:30
31.55	9.51	HS8PJ	Bangkok, Thai	7-10am except Mondays.
31.57	9.503	XEWW	Mexico D.F., Mexico	7:45am-12:30am.
31.58	9.501	PRF5	Rio de Janeiro, Brazil	4:45-5:55pm ex. Sundays.
31.58	9.50	OFD	Lahti, Finland	12:15-5pm.
31.58	9.50	VK3ME	Leopoldville, Australia	4-7am except Sundays.
31.58	9.50	XGOY	Chungking, China	6:30-7:40pm irreg. *
31.60V	9.492	KZIB	Manila, P.I.	6-9:05am; 8:30pm-2:40am irreg. *
31.70	9.465	TAP	Ankara, Turkey	11:30am-5pm.
31.77	9.445	HCODA	Guayaquil, Ecuador	8:15-10:15pm ex. Sundays.
31.79V	9.436	COCH	Havana, Cuba	8am-11pm; Sun. 8am-10pm.
31.95	9.39	OAX5C	Ica, Peru	7-11:30pm.
32.07V	9.354	HC1ETC	Quito, Ecuador	Saturdays 8-11pm.
32.12	9.34	OAX4J	Lima, Peru	Noon-3, and 5pm-mid.
32.28	9.295	XTC	Shanghai, China	8-9am in Chinese (4:40pm
32.28	9.295	HI2G	Trujillo City, D.R.	6:40-8:40, 11:40am-2:10, 3:40-
32.34	9.285	LYR	Kaunas, Lithuania	12-1pm and 12 mid.-1am. *
32.56	9.205	COBX	Havana, Cuba	8am-11:30pm.
32.61	9.20		Sofia, Bulgaria	Near 1:45am and Sun. at 8:15am.
32.64	9.19	HC2ET	Guayaquil, Ecuador	8-10pm; Sun 8:30-10:30pm.
32.72	9.17	HC1GQ	Quito, Ecuador	Mon/Wed/Sat 9-9:55pm.
32.88	9.125	HAT4	Budapest, Hungary	7-8pm; Sat. 6-7pm.
32.89J	9.12	HC2CW	Guayaquil, Ecuador	11am-1, 7-11pm.
32.97V	9.10	COCA	Havana, Cuba	Noon-1:15am; till 3am irreg.
33.00	9.091	PJCI	Curacao, D.W.I.	6:36-8:36pm; Su. 10:36am-12:36pm.
33.24	9.025	COBZ	Havana, Cuba	7:45am-1:15am.
33.48	8.96	COKG	Santiago, Cuba	5-6, 9:30-10:30pm.
33.48	8.96	TPZ2	Algiers, Algeria	Tuesdays 12:30-1:30pm.
33.90J	8.85	COCQ	Havana, Cuba	5:55am-12 mid.

31M

34.50F	8.695	COCO	Havana, Cuba	7:55am-12 mid.	
34.68J	8.65	COJK	Camaguey, Cuba	11:30am-12:30, 3:30-6, 8-8:30pm.	
34.97	8.58	YNPR	Managua, Nicaragua	12:45-2:15, 6:45-10:15pm.	
35.02	8.572		Bucharest, Roumania	8:15-10:30am, 4-7pm.	
37.64N	7.97	XHH-	China	4am-12:30pm.	*
38.00	7.894	YSD	San Salvador, El Salvador	7-10:30pm.	
38.02S	7.89	ZAA	Tirana, Albania	6:30-8:30am.	
38.12	7.87	HCLRB	Quito, Ecuador	8:30-11:30pm.	
38.20	7.854	HC2JSB	Guayaquil, Ecuador	11am-2, 4-11pm.	
38.46N	7.80	COBS	HAVANA, CUBA	Evenings.	*
39.16	7.66	YNDG	Leon, Nicaragua	8:30-9:30pm.	
39.89	7.614	CR6AA	Lobito, Angola	Mon/Wed/Sat 2:30-4:30pm.	
39.89S	7.52	KKH	Kahuku, Hawaii	Sun. 9-9:30pm, Sat. 7:30-8pm.	
40.05S	7.49	EAJ43	Tenerife, Canarias	7-7:45pm; 8-9:30pm irreg.	
40.27	7.45	TI2RS	San Jose, C.R.	7-11pm.	
40.32	7.44	FG8AH	Pointe-a-Pitre, Guadeloupe	6-7:10pm.	
40.65	7.38	XECR	Mexico D.F., Mexico	Sundays 6-7pm.	
41.01S	7.31	VIG	Port Moresby, Papua	Sept. 9/23, 3-5am.	
41.13	7.295	JIE	Tyureki, Taiwan	9:05-10:20am.	
41.19N	7.284	YNLIP	MANAGUA, NICARAGUA	Sundays 10-11am.	*
41.21	7.28	TPB11	Paris, France	10:15am-12:45, 1-5:15pm.	
41.32	7.26	CSW8	Lisbon, Portugal	Tues/Thurs/Sat 4:05-5pm.	41M
41.34	7.257	JVW	Tokio, Japan	2-4pm.	
41.38	7.25	YDA	Bandoeng, Java	10:30pm-2am; Sat. 7:30pm-2am.	
41.55	7.22		Malaga, Spain	3:30-5:40pm.	
41.55	7.22	YDX	Medan, Sumatra	5:30-7:45am, 10pm-1:30am.	
41.78	7.18	EA9AI	Melilla, Span. Morocco	Sat. 9-10pm.	
42.25	7.10	FO8AA	Papeete, Tahiti	Sat. 12:01-3:30am.	
42.55	7.05	ZD4AA	Acora, Gold Coast	Tests irreg.	*
42.80	7.01	XPSA	Kweiyang, China	5:30-11am.	
43.54F	6.89	HI6H	Trujillo City, D.R.	7:40-8:40pm.	
43.80FV	6.85	XOJD	Hankow, China	6-8:35am	
44.12	6.80	PZH	Paramaribo, D. Guiana	Mon/Wed/Fri 5:41-8:41pm.	
44.25	6.78	HIH	San Pedro, D.R.	7-9:40pm; 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	6:45-10:15 or 11pm.	
44.51	6.74	HCL1TQ	Quito, Ecuador	Sundays 5-7pm.	
44.58	6.73	HI3C	La Romana, D.R.	To 8:20pm.	
44.64	6.72	PMH	Bandoeng, Java	4:30-11am; Sun. 8:30pm-1:30am.	
44.81	6.695	TIEP	San Jose, C.R.	7pm-midnight.	
45.06	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	
45.25	6.63	HIT	Trujillo City, D.R.	12:10-1:40, 4:40-8:40pm. (pm.	
45.29	6.625	PRADO	Riobamba, Ecuador	Thursdays 9-11pm.	
45.39V	6.61	YNLG	Managua, Nicaragua	1:30-2:30, 6-10:15pm.	
45.70	6.565	HI5P	Puerto Plata, D.R.	5:40-7:40, 9:40-11:40am.	
45.80	6.55	TIRCC	San Jose, C.R.	Tu/Th/Sat 6-7pm; Sun. 8-10pm.	
45.87	6.54	YNLGG	Managua, Nicaragua	1-2:30, 8-10pm ex. Sundays.	
46.15	6.50	HIL	Trujillo City, D.R.	12:30-2, 6-8 or 9pm ex. Sundays.	
46.25	6.486	TGWB	Guatemala, Guatemala	7:45-9, 12:45-3:45, 7:30pm-12:15 am; Sun. 10:30am-5:15, 7pm-mid.	
46.26	6.485	HILL	Santiago, d.l.c., DR	Weekdays 5:30-9:30pm.	
46.44	6.455	HI4V	S.F. de Macoris, D.R.	5:10-7:40pm; to 10pm irreg.	
46.66	6.428	HI1S	Santiago, D.R.	5:40-7:35 or 9pm ex. Sundays.	
46.88	6.40	TGQA	Quezaltenango, Guatemala	8-11pm; Sat 8pm-1am, Sun	
46.97V	6.388	HI9B	Santiago, D.R.	5-8:45pm irreg. (7:30am-3p	
46.99	6.384	ZIZ	Basseterre, St. Kitts	4-4:45pm; Wed. 7-7:30pm.	
47.02	6.38	TIWS	Puntarenas, C.R.	5-7, 7:30-10pm; Sun. 5-6pm.	
47.20	6.357	HRP1	San Pedro Sula, Honduras	6-7:30am, 2-4; irreg. to 10	
47.32	6.34	HI1X	Trujillo City, D.R.	8:10-10:10pm; Sun. 7:40-9:40am.	
47.36	6.334	OAX1A	Chiclayo, Peru	8-11pm.	
47.39	6.33	COCW	Havana, Cuba	6:55am-1am; Sun. 9:55am-10pm.	
47.51	6.315	HI1Z	Trujillo City, D.R.	11:40am-12:40pm; 5:10-7:40pm ex	
47.66	6.295	OAX4G	Lima, Peru	6 or 7pm to mid. (Sun	
47.69V	6.29	HI1G	Trujillo City, D.R.	6:40-8:40, 11:40am-2:10, 3:40-	(9:40p

34.50F	8.695	COCO	Havana, Cuba	7:55am-12 mid.	
34.68J	8.65	COJK	Camaguey, Cuba	11:30am-12:30, 3:30-6, 8-8:30pm.	
34.97	8.58	YNPR	Managua, Nicaragua	12:45-2:15, 6:45-10:15pm.	
35.02	8.572		Bucharest, Roumania	8:15-10:30am, 4-7pm.	
37.64N	7.97	XHH-	China	4am-12:30pm.	*
38.00	7.894	YSD	San Salvador, El Salvador	7-10:30pm.	
38.02S	7.89	ZAA	Tirana, Albania	6:30-8:30am.	
38.12	7.87	HCLRB	Quito, Ecuador	8:30-11:30pm.	
38.20	7.854	HC2JSB	Guayaquil, Ecuador	11am-2, 4-11pm.	
38.46N	7.80	COBS	HAVANA, CUBA	Evenings.	*
39.16	7.66	YNDG	Leon, Nicaragua	8:30-9:30pm.	
39.89	7.614	CR6AA	Lobito, Angola	Mon/Wed/Sat 2:30-4:30pm.	
39.89S	7.52	KKH	Kahuku, Hawaii	Sun. 9-9:30pm, Sat. 7:30-8pm.	
40.05S	7.49	EAJ43	Tenerife, Canarias	7-7:45pm; 8-9:30pm irreg.	
40.27	7.45	TI2RS	San Jose, C.R.	7-11pm.	
40.32	7.44	FG8AH	Pointe-a-Pitre, Guadeloupe	6-7:10pm.	
40.65	7.38	XECR	Mexico D.F., Mexico	Sundays 6-7pm.	
41.01S	7.31	VIG	Port Moresby, Papua	Sept. 9/23, 3-5am.	
41.13	7.295	JIE	Tyureki, Taiwan	9:05-10:20am.	
41.19N	7.284	YNLIP	MANAGUA, NICARAGUA	Sundays 10-11am.	*
41.21	7.28	TPB11	Paris, France	10:15am-12:45, 1-5:15pm.	
41.32	7.26	CSW8	Lisbon, Portugal	Tues/Thurs/Sat 4:05-5pm.	41M
41.34	7.257	JVW	Tokio, Japan	2-4pm.	
41.38	7.25	YDA	Bandoeng, Java	10:30pm-2am; Sat. 7:30pm-2am.	
41.55	7.22		Malaga, Spain	3:30-5:40pm.	
41.55	7.22	YDX	Medan, Sumatra	5:30-7:45am, 10pm-1:30am.	
41.78	7.18	EA9AI	Melilla, Span. Morocco	Sat. 9-10pm.	
42.25	7.10	FO8AA	Papeete, Tahiti	Sat. 12:01-3:30am.	
42.55	7.05	ZD4AA	Acora, Gold Coast	Tests irreg.	*
42.80	7.01	XPSA	Kweiyang, China	5:30-11am.	
43.54F	6.89	HI6H	Trujillo City, D.R.	7:40-8:40pm.	
43.80FV	6.85	XOJD	Hankow, China	6-8:35am	
44.12	6.80	PZH	Paramaribo, D. Guiana	Mon/Wed/Fri 5:41-8:41pm.	
44.25	6.78	HIH	San Pedro, D.R.	7-9:40pm; 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	6:45-10:15 or 11pm.	
44.51	6.74	HCL1TQ	Quito, Ecuador	Sundays 5-7pm.	
44.58	6.73	HI3C	La Romana, D.R.	To 8:20pm.	
44.64	6.72	PMH	Bandoeng, Java	4:30-11am; Sun. 8:30pm-1:30am.	
44.81	6.695	TIEP	San Jose, C.R.	7pm-midnight.	
45.06	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	
45.25	6.63	HIT	Trujillo City, D.R.	12:10-1:40, 4:40-8:40pm. (pm.	
45.29	6.625	PRADO	Riobamba, Ecuador	Thursdays 9-11pm.	
45.39V	6.61	YNLG	Managua, Nicaragua	1:30-2:30, 6-10:15pm.	
45.70	6.565	HI5P	Puerto Plata, D.R.	5:40-7:40, 9:40-11:40am.	
45.80	6.55	TIRCC	San Jose, C.R.	Tu/Th/Sat 6-7pm; Sun. 8-10pm.	
45.87	6.54	YN1GG	Managua, Nicaragua	1-2:30, 8-10pm ex. Sundays.	
46.15	6.50	HIL	Trujillo City, D.R.	12:30-2, 6-8 or 9pm ex. Sundays.	
46.25	6.486	TGWB	Guatemala, Guatemala	7:45-9, 12:45-3:45, 7:30pm-12:15 am; Sun. 10:30am-5:15, 7pm-mid.	
46.26	6.485	HILL	Santiago, d.l.c., DR	Weekdays 5:30-9:30pm.	
46.44	6.455	HI4V	S.F. de Macoris, D.R.	5:10-7:40pm; to 10pm irreg.	
46.66	6.428	HI1S	Santiago, D.R.	5:40-7:35 or 9pm ex. Sundays.	
46.88	6.40	TGQA	Quezaltenango, Guatemala	8-11pm; Sat 8pm-1am, Sun	
46.97V	6.388	HI9B	Santiago, D.R.	5-8:45pm irreg. (7:30am-3p	
46.99	6.384	ZIZ	Basseterre, St. Kitts	4-4:45pm; Wed. 7-7:30pm.	
47.02	6.38	TIWS	Puntarenas, C.R.	5-7, 7:30-10pm; Sun. 5-6pm.	
47.20	6.357	HRP1	San Pedro Sula, Honduras	6-7:30am, 2-4; irreg. to 10	
47.32	6.34	HI1X	Trujillo City, D.R.	8:10-10:10pm; Sun. 7:40-9:40am.	
47.36	6.334	OAX1A	Chiclayo, Peru	8-11pm.	
47.39	6.33	COCW	Havana, Cuba	6:55am-1am; Sun. 9:55am-10pm.	
47.51	6.315	HI1Z	Trujillo City, D.R.	11:40am-12:40pm; 5:10-7:40pm ex	
47.66	6.295	OAX4G	Lima, Peru	6 or 7pm to mid. (Sun	
47.69V	6.29	HI1G	Trujillo City, D.R.	6:40-8:40, 11:40am-2:10, 3:40-	(9:40p

47.96	6.255	CPI2	Lá Paz, Bolivia	7-9pm.
48.05	6.243	HILN	Trujillo City, D.R.	5:10-10:40pm or later.
48.11	6.235	HRD	Lá Ceiba, Honduras	8-11pm; Sun. 4-6pm.
48.27	6.215		Saigon, F. Indo-China	7:30-9:45am, 11:45pm-1am.
48.43	6.195	TG2	Guatemala, Guatemala	7:30-10am, 6-11:30pm, Sat 6pm-3 am, Sun. 3-8pm. For IDA Sun. 2-2:30 (am)
48.43	6.195	HI2D	Trujillo City, D.R.	5:10-7:10pm.
48.47	6.19	HVJ	Vatican City, Italy	See notes.
48.47	6.19	HILA	Santiago, D.R.	10:40am-1:40, 6:40-9:40pm.
48.54N	6.18	LRA2	Buenos Aires, Argen	5:30-9pm ex. Sun; Sat/Sun 7-9pm
48.58	6.175	XEXA	Mexico D.F., Mexico	8-11am, 2:30-4, 7:30pm-12:45am;
48.66	6.165	TILS	San Jose, C.R.	Noon-2:30pm, 6-11pm.
48.78	6.15	HJ4DAE	Medellin, Colombia	9:30am-1pm, 5-11:30pm.
48.81S	6.147	ZTD	Durban, So. Africa	11:20am-3:45pm; Sun. 11:30-3:20p
48.81	6.147	CJRO	Winnipeg, Canada	Sat. 6pm-Sun. 4am.
48.86	6.14	WPIT	Pittsburgh, Pa.	10pm-mid.
48.86N	6.14	KZEG	MANILA, PHILIPPINES	5-10am.
48.86	6.14	OQ2AA	Leopoldville, Belgian Congo	Sundays 5:35-7am.
48.86	6.14	SP43	Warsaw, Poland	2:25-5:30pm.
48.88	6.138	COCD	Havana, Cuba	10am-11pm; Sun. 10am-9pm.
48.88S	6.137	CR7AA	Lourenco, Mozambique	12-1am ex. Sun. (noon-11:15pm.
48.93	6.132	CHNX	Halifax, N.S., Canada	7am-11:15pm; Sat 8am-11pm; Sun
48.93	6.132	TGXA	Guatemala, Guatemala	Heard irreg.
48.94	6.13	VP3BG	Georgetown, B. Guiana	10:15-11:15am, 3:45-7:45pm ex.
48.94	6.13	LKJ	Jeloy, Norway	Noon-6pm irreg. (Sun.
48.94N	6.13	KZRM	MANILA, PHILIPPINES	6-9am. *
48.98	6.125	MTCY	Hsinking, Manchoukuo	4-9am. *
49.00	6.122	FK8AA	Noumea, New Caledonia	Wed/Sat 2:30-3:30am.
49.00V	6.122	HP5H	Panama City, Panama	6-10:30pm; to mid. irreg.
49.00	6.12	W2XE	New York City, N.Y.	11pm-mid.
49.04	6.117	XEUZ	Mexico D.F., Mexico	9am-1, 7pm-2am. (12:15am
49.05S	6.116		Saigon, F. Indo-China	6-8:30am, 6:45-7:15, 11:45pm-
49.18V	6.10	YUA	Belgrade, Yugoslavia	12:43-3, 6:30-8:30am, 12-6:30pm.
49.18	6.10	WNBI	New York City, N.Y.	9pm-mid. to S.O. America.
49.18S	6.10	KZRH	Manila, Philippines	Testing from 5 to 10am.
49.18F	6.10	ZHJ	Penang, S.S.	6:40-8:40am ex. Sun & irreg. *
49.20	6.097	ZRK	Capetown, So. Africa	12-4pm; Sun. 12-3:20pm.
49.20	6.097	ZRJ	Johannesburg, S. Afr	11:45pm-11:30am inter. ex. Sat.
49.24	6.093	HP5F	Colon, Panama	7-9pm.
49.25	6.09	ZNS	Nassau, Bahamas	1:30-2, 6:20-10pm.
49.25N	6.09		LUXEMBOURG, LUXEMBOURG	Testing irreg. See notes.
49.25	6.09	XEBF	Jalapa, Mexico	Irreg. in evenings.
49.30S	6.085	ZAA	Tirana, Albania	12:20-6pm.
49.32	6.083	VQ7LO	Nairobi, Kenya	5:30-6, 11:15am-2:15pm; Tu/Th 815
49.34	6.08	CRY9	Macao, Macao	Mon. 8:30-10am. (-9:15am
49.34N	6.08	CFKX	VANCOUVER, CANADA	1-3am ex. Mondays. *
49.34	6.08	XEQQ	Mexico D.F., Mexico	6-11pm.
49.37	6.077	OAX4Z	Lima, Peru	7am-1:30am.
49.42	6.07	CFRX	Toronto, Canada	7am-12:30am; Sun. 10am-11pm.
49.46	6.065	SBO	Motala, Sweden	4:15-5pm. (-4am.
49.48	6.063		Tananarive, Madagascar	12:30-12:45, 10-11am, Sun. 230
49.50C	6.06	WCAB	Philadelphia, Pa.	Tu/Wd/F 5:30-6:15, 6:30-11pm; Sat 11pm-mid; Sun. 6:30-11pm.
49.50C	6.06	WLWO	Cincinnati, Ohio	Sun. 8am-6:30pm; M/Th 5:40-2am Tu/Wed/Fri 5:45am-5:30pm; Sat 545
49.56	6.054	9MI	M/V Kanimbla	6:45-7:30am 2 or 3 times a week (pm)
49.63	6.045	XETW	Tampico, Mexico	7-11pm.
49.67	6.04	WSLR	Boston, Mass.	6:30-9pm ex. Sat/Sun; Su 1:30-6
49.67N	6.04	KZIB	Manila, Philippines	7-9am.
49.67	6.04	W4XB	Miami, Florida	1-3, 9pm-2am; Sun. 4-6pm.
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	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 to Africa.

47.96	6.255	CPI2	Lá Paz, Bolivia	7-9pm.
48.05	6.243	HILN	Trujillo City, D.R.	5:10-10:40pm or later.
48.11	6.235	HRD	Lá Ceiba, Honduras	8-11pm; Sun. 4-6pm.
48.27	6.215		Saigon, F. Indo-China	7:30-9:45am, 11:45pm-1am.
48.43	6.195	TG2	Guatemala, Guatemala	7:30-10am, 6-11:30pm, Sat 6pm-3 am, Sun. 3-8pm. For IDA Sun. 2-2:30 (am)
48.43	6.195	HI2D	Trujillo City, D.R.	5:10-7:10pm.
48.47	6.19	HVJ	Vatican City, Italy	See notes.
48.47	6.19	HILA	Santiago, D.R.	10:40am-1:40, 6:40-9:40pm.
48.54N	6.18	LRA2	Buenos Aires, Argen	5:30-9pm ex. Sun; Sat/Sun 7-9pm
48.58	6.175	XEXA	Mexico D.F., Mexico	8-11am, 2:30-4, 7:30pm-12:45am;
48.66	6.165	TILS	San Jose, C.R.	Noon-2:30pm, 6-11pm.
48.78	6.15	HJ4DAE	Medellin, Colombia	9:30am-1pm, 5-11:30pm.
48.81S	6.147	ZTD	Durban, So. Africa	11:20am-3:45pm; Sun. 11:30-3:20p
48.81	6.147	CJRO	Winnipeg, Canada	Sat. 6pm-Sun. 4am.
48.86	6.14	WPIT	Pittsburgh, Pa.	10pm-mid.
48.86N	6.14	KZEG	MANILA, PHILIPPINES	5-10am.
48.86	6.14	OQ2AA	Leopoldville, Belgian Congo	Sundays 5:35-7am.
48.86	6.14	SP43	Warsaw, Poland	2:25-5:30pm.
48.88	6.138	COCD	Havana, Cuba	10am-11pm; Sun. 10am-9pm.
48.88S	6.137	CR7AA	Lourenco, Mozambique	12-1am ex. Sun. (noon-11:15pm.
48.93	6.132	CHNX	Halifax, N.S., Canada	7am-11:15pm; Sat 8am-11pm; Sun
48.93	6.132	TGXA	Guatemala, Guatemala	Heard irreg.
48.94	6.13	VP3BG	Georgetown, B. Guiana	10:15-11:15am, 3:45-7:45pm ex.
48.94	6.13	LKJ	Jeloy, Norway	Noon-6pm irreg. (Sun.
48.94N	6.13	KZRM	MANILA, PHILIPPINES	6-9am. *
48.98	6.125	MTCY	Hsinking, Manchoukuo	4-9am. *
49.00	6.122	FK8AA	Noumea, New Caledonia	Wed/Sat 2:30-3:30am.
49.00V	6.122	HP5H	Panama City, Panama	6-10:30pm; to mid. irreg.
49.00	6.12	W2XE	New York City, N.Y.	11pm-mid.
49.04	6.117	XEUZ	Mexico D.F., Mexico	9am-1, 7pm-2am. (12:15am
49.05S	6.116		Saigon, F. Indo-China	6-8:30am, 6:45-7:15, 11:45pm-
49.18V	6.10	YUA	Belgrade, Yugoslavia	12:43-3, 6:30-8:30am, 12-6:30pm.
49.18	6.10	WNBI	New York City, N.Y.	9pm-mid. to S.O. America.
49.18S	6.10	KZRH	Manila, Philippines	Testing from 5 to 10am.
49.18F	6.10	ZHJ	Penang, S.S.	6:40-8:40am ex. Sun & irreg. *
49.20	6.097	ZRK	Capetown, So. Africa	12-4pm; Sun. 12-3:20pm.
49.20	6.097	ZRJ	Johannesburg, S. Afr	11:45pm-11:30am inter. ex. Sat.
49.24	6.093	HP5F	Colon, Panama	7-9pm.
49.25	6.09	ZNS	Nassau, Bahamas	1:30-2, 6:20-10pm.
49.25N	6.09		LUXEMBOURG, LUXEMBOURG	Testing irreg. See notes.
49.25	6.09	XEBF	Jalapa, Mexico	Irreg. in evenings.
49.30S	6.085	ZAA	Tirana, Albania	12:20-6pm.
49.32	6.083	VQ7LO	Nairobi, Kenya	5:30-6, 11:15am-2:15pm; Tu/Th 815
49.34	6.08	CRY9	Macao, Macao	Mon. 8:30-10am. (-9:15am
49.34N	6.08	CFKX	VANCOUVER, CANADA	1-3am ex. Mondays. *
49.34	6.08	XEQQ	Mexico D.F., Mexico	6-11pm.
49.37	6.077	OAX4Z	Lima, Peru	7am-1:30am.
49.42	6.07	CFRX	Toronto, Canada	7am-12:30am; Sun. 10am-11pm.
49.46	6.065	SBO	Motala, Sweden	4:15-5pm. (-4am.
49.48	6.063		Tananarive, Madagascar	12:30-12:45, 10-11am, Sun. 230
49.50C	6.06	WCAB	Philadelphia, Pa.	Tu/Wd/F 5:30-6:15, 6:30-11pm; Sat 11pm-mid; Sun. 6:30-11pm.
49.50C	6.06	WLWO	Cincinnati, Ohio	Sun. 8am-6:30pm; M/Th 5:40-2am Tu/Wed/Fri 5:45am-5:30pm; Sat 545
49.56	6.054	9MI	M/V Kanimbla	6:45-7:30am 2 or 3 times a week
49.63	6.045	XETW	Tampico, Mexico	7-11pm. (pm
49.67	6.04	WSLR	Boston, Mass.	6:30-9pm ex. Sat/Sun; Su 1:30-6
49.67N	6.04	KZIB	Manila, Philippines	7-9am.
49.67	6.04	W4XB	Miami, Florida	1-3, 9pm-2am; Sun. 4-6pm.
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	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 to Africa.

49.92	6.01	PRA8	Pernambuco, Brazil	4-9pm.	
49.92	6.01	CJCX	Sydney, Nova Scotia	7am-1:30, 4-8:30pm.	(pm.)
49.94	6.007	XYZ	Rangoon, Burma	6:30-10am, 9-11pm; Sat 9:30-11:30	
49.94	6.007	ZRH	Pretoria, S. Africa	11:45-12:45am ex. Sat, 9:30am-330pm; Sun. 9:40am-noon, 12:15-3:15p	
49.94V	6.005	CFCX	Montreal, Canada	7:45am-1am; Sun. 9am-11:15pm.	
50.00V	6.000	HP5K	Colon, Panama	7-9am, 12-1, 6-11pm.	
50.00	6.00	XEBT	Mexico D.F., Mexico	10am-1:45am.	
50.11	5.987	HH2S	Port-au-Prince, Haiti	6:30-9 or 10pm.	
50.17	5.98	VONG	St. John's, Newfoundland	8:30am-12:30, 1:30-9:30pm.	
50.21	5.975	OAX4P	Huancayo, Peru	9-11pm.	mid
50.51	5.94	TG2X	Guatemala, Guatemala	Mon/Thurs 9-11:30pm; sat 10pm-	
50.51	5.94	OAX2A	Trujillo, Peru	Tues/Thurs/Sat/Sun 7-10pm.	
50.74	5.913	H11J	San Pedro, D.R.	11:40am-1:40, 6:10-8:30pm.	
50.85	5.90	ZNB	Mafeking, Bechuanaland	1-2:30pm; 6-7am ex. Sun.	
51.07	5.875	HRN	Tegucigalpa, Honduras	6-11pm.	
51.46	5.83	TIGPH	San Jose, C.R.	7-10pm.	
51.46	5.83	TIKGP3	San Jose, C.R.	10-11pm.	
51.50	5.825	TIGPH2	San Jose, C.R.	Noon-2, 7-11pm ex. Sundays.	
51.77	5.795	HRK	Tegucigalpa, Honduras	Nightly to 11pm.	
52.12J	5.755	YNOP	Managua, Nicaragua	8-9:30pm; Sundays 2-3pm.	
52.40	5.725	HCLPM	Quito, Ecuador	Sundays 9-11pm.	
52.45N	5.72		, U.S.S.R.	Heard mornings near 8am.	*
55.97J	5.36	HCK	Quito, Ecuador	Evenings irreg.	
56.60	5.30	ZIK3	Belize, Brit. Honduras	Tu/Th/Sa 1:30-2, 8:30-9pm.	
57.42	5.225	YVA	Caracas, Venezuela	Heard early evenings.	
58.31	5.14	PMY	Bandoeng, Java	5:30am-noon.	(-10)
59.25V	5.04	YV5RN	Caracas, Venezuela	4-11:30pm; Sun 8:30-11:30am, 3:30	
59.76	5.02	YV4RQ	Puerto Cabello, Venez.	Broadcasting nightly.	
59.88	5.01	YV5RM	Caracas, Venezuela	3:30-10pm; Sun. 8am-10:30pm.	
60.12	4.99	YV3RX	Barquisimeto, Venez.	10am-11pm.	
60.31	4.975	YV1RJ	Coro, Venezuela	Signs off at 9:25pm.	
60.48	4.96	VUD2	Delhi, India	7:30am-12:30pm.	
60.48	4.96	YV5RS	Caracas, Venezuela	4:30-9:30pm or later.	
60.61	4.95	YV4RO	Valencia, Venezuela	Noon-1, 6-10pm.	
60.73	4.94	YV5RO	Caracas, Venezuela	Signs at 10pm.	
60.85	4.93	YV4RP	Valencia, Venezuela	5-9:30pm.	
60.92	4.924	HJAP	Cartagena, Colombia	9am-1:30, 7-10:15pm ex. Sunday.	
60.98	4.92	YV5RH	Caracas, Venezuela	5-9:30pm (Sun. to 10:30pm.)	
60.98	4.92	VUM2	Madras, India	6:30am-noon.	
61.04	4.915	HJFC	Pereira, Colombia		
61.10	4.91	YV1RY	Coro, Venezuela	6:30-9:30pm ex. Sundays.	
61.16	4.905	HJAG	Barranquilla, Colom.	11am-11pm; Sun. 11am-8pm.	
61.22	4.90	YV6RT	Bolivar, Venezuela	Signs-off at 9:30pm.	
61.29	4.895	HJCH	Bogota, Colombia	11:30am-2, 6-11pm.	
61.35V	4.89	YV1RX	Maracaibo, Venez.	10:30am-1:30, 4:30-10:30pm.	
61.42	4.885	HJDP	Medellin, Colombia	8am-2, 6-11pm.	
61.48	4.88	VUB2	Bombay, India	7:30am-12:30pm.	
61.54	4.875	HJFH	Armenia, Colombia	8-11am, 6-10pm.	
61.60	4.87	YV2RN	San Cristobal, Venez.	11:30am-12:30pm, 6-9pm ex. Sun	
61.67	4.865	HJBJ	Santa Marta, Colom.	5:30-10:30pm.	
61.73	4.86	YV1RL	Maracaibo, Venez.	11am-1pm, 4:30-10:30pm.	
61.80	4.855	HJCF	Bogota, Colombia	7pm-mid. ex. Sundays.	
61.88	4.85	YV1RZ	Valera, Venezuela	11:30am-1, 5:45-8:45pm.	
61.92	4.845	HJCD	Bogota, Colombia	6-11:30pm.	
61.98	4.84	VUC2	Calcutta, India	6:30am-noon.	
62.05	4.835	HJAE	Cartagena, Colombia	7am-6, 7-11pm.	
62.11	4.83	YV5RU	Caracas, Venezuela	6:30-7:30, 10:30am-1, 3:30-10pm.	
62.17	4.825	HJED	Cali, Colombia	7-11pm ex. Sundays.	
62.24	4.82	YV3RN	Barquisimeto, Venez	11:30am-1:30, 5:30-9:30pm.	
62.31	4.815	HJBB	Cucuta, Colombia.		
62.38	4.81	YV1RU	Maracaibo, Venezuela	10:45am-12:45, 4:30-10:30pm.	
62.44	4.805	HJDU	Medellin, Colombia	7-10pm ex. Sundays.	
62.50	4.80	YV1RV	Maracaibo, Venezuela	10:45am-12:45, 4:30-10:30pm.	
62.57	4.795	HJFI	Ibague, Colombia		

49.92	6.01	PRA8	Pernambuco, Brazil	4-9pm.	
49.92	6.01	CJCX	Sydney, Nova Scotia	7am-1:30, 4-8:30pm.	(pm.)
49.94	6.007	XYZ	Rangoon, Burma	6:30-10am, 9-11pm; Sat 9:30-11:30	
49.94	6.007	ZRH	Pretoria, S. Africa	11:45-12:45am ex. Sat, 9:30am-330pm; Sun. 9:40am-noon, 12:15-3:15p	
49.94V	6.005	CFCX	Montreal, Canada	7:45am-1am; Sun. 9am-11:15pm.	
50.00V	6.000	HP5K	Colon, Panama	7-9am, 12-1, 6-11pm.	
50.00	6.00	XEBT	Mexico D.F., Mexico	10am-1:45am.	
50.11	5.987	HH2S	Port-au-Prince, Haiti	6:30-9 or 10pm.	
50.17	5.98	VONG	St. John's, Newfoundland	8:30am-12:30, 1:30-9:30pm.	
50.21	5.975	OAX4P	Huancayo, Peru	9-11pm.	mid
50.51	5.94	TG2X	Guatemala, Guatemala	Mon/Thurs 9-11:30pm; sat 10pm-	
50.51	5.94	OAX2A	Trujillo, Peru	Tues/Thurs/Sat/Sun 7-10pm.	
50.74	5.913	H11J	San Pedro, D.R.	11:40am-1:40, 6:10-8:30pm.	
50.85	5.90	ZNB	Mafeking, Bechuanaland	1-2:30pm; 6-7am ex. Sun.	
51.07	5.875	HRN	Tegucigalpa, Honduras	6-11pm.	
51.46	5.83	TIGPH	San Jose, C.R.	7-10pm.	
51.46	5.83	TIKGP3	San Jose, C.R.	10-11pm.	
51.50	5.825	TIGPH2	San Jose, C.R.	Noon-2, 7-11pm ex. Sundays.	
51.77	5.795	HRK	Tegucigalpa, Honduras	Nightly to 11pm.	
52.12J	5.755	YNOP	Managua, Nicaragua	8-9:30pm; Sundays 2-3pm.	
52.40	5.725	HCLPM	Quito, Ecuador	Sundays 9-11pm.	
52.45N	5.72		, U.S.S.R.	Heard mornings near 8am.	*
55.97J	5.36	HCK	Quito, Ecuador	Evenings irreg.	
56.60	5.30	ZIK3	Belize, Brit. Honduras	Tu/Th/Sa 1:30-2, 8:30-9pm.	
57.42	5.225	YVA	Caracas, Venezuela	Heard early evenings.	
58.31	5.14	PMY	Bandoeng, Java	5:30am-noon.	(-10)
59.25V	5.04	YV5RN	Caracas, Venezuela	4-11:30pm; Sun 8:30-11:30am, 3:30	
59.76	5.02	YV4RQ	Puerto Cabello, Venez.	Broadcasting nightly.	
59.88	5.01	YV5RM	Caracas, Venezuela	3:30-10pm; Sun. 8am-10:30pm.	
60.12	4.99	YV3RX	Barquisimeto, Venez.	10am-11pm.	
60.31	4.975	YV1RJ	Coro, Venezuela	Signs off at 9:25pm.	
60.48	4.96	VUD2	Delhi, India	7:30am-12:30pm.	
60.48	4.96	YV5RS	Caracas, Venezuela	4:30-9:30pm or later.	
60.61	4.95	YV4RO	Valencia, Venezuela	Noon-1, 6-10pm.	
60.73	4.94	YV5RO	Caracas, Venezuela	Signs at 10pm.	
60.85	4.93	YV4RP	Valencia, Venezuela	5-9:30pm.	
60.92	4.924	HJAP	Cartagena, Colombia	9am-1:30, 7-10:15pm ex. Sunday.	
60.98	4.92	YV5RH	Caracas, Venezuela	5-9:30pm (Sun. to 10:30pm.)	
60.98	4.92	VUM2	Madras, India	6:30am-noon.	
61.04	4.915	HJFC	Pereira, Colombia		
61.10	4.91	YV1RY	Coro, Venezuela	6:30-9:30pm ex. Sundays.	
61.16	4.905	HJAG	Barranquilla, Colom.	11am-11pm; Sun. 11am-8pm.	
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61.29	4.895	HJCH	Bogota, Colombia	11:30am-2, 6-11pm.	
61.35V	4.89	YV1RX	Maracaibo, Venez.	10:30am-1:30, 4:30-10:30pm.	
61.42	4.885	HJDP	Medellin, Colombia	8am-2, 6-11pm.	
61.48	4.88	VUB2	Bombay, India	7:30am-12:30pm.	
61.54	4.875	HJFH	Armenia, Colombia	8-11am, 6-10pm.	
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61.67	4.865	HJBJ	Santa Marta, Colom.	5:30-10:30pm.	
61.73	4.86	YV1RL	Maracaibo, Venez.	11am-1pm, 4:30-10:30pm.	
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61.92	4.845	HJCD	Bogota, Colombia	6-11:30pm.	
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62.11	4.83	YV5RU	Caracas, Venezuela	6:30-7:30, 10:30am-1, 3:30-10pm.	
62.17	4.825	HJED	Cali, Colombia	7-11pm ex. Sundays.	
62.24	4.82	YV3RN	Barquisimeto, Venez	11:30am-1:30, 5:30-9:30pm.	
62.31	4.815	HJBB	Cucuta, Colombia.		
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62.50	4.80	YV1RV	Maracaibo, Venezuela	10:45am-12:45, 4:30-10:30pm.	
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International

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Dx'ers Alliance

CHARLES A. MORRISON
EDITOR

Volume 7

September, 1939

Number 8

APPOINTMENTS

Charles Trezise, 7638 Lafayette Ave, Chicago, Illinois, as IDA DIRECTOR for the 4th (Mid-States) District, to succeed Robt. Weber of West McHenry, Ill., who has capably fulfilled this position for the past several years.

Gail Beyer, 3226 Sunnyside Avenue, Chicago, Illinois, as IDA State Manager for Illinois, to succeed Chas Trezise.

REPORT ON IDA MID-STATES CONVENTION

Everyone of the more than 40 persons present at the Mid-States IDA Convention, held on Sat., Aug. 5, at the home of F. Grey, Downers Grove, Ill., voted the outing a huge success. Special thanks are due Host and Hostess Frank Grey, and his wife, who so kindly turned their lovely home and yard over to the IDA legions.

Out of town members included Roger Legge, editor of Ama-Touring, Binghamton, N. Y.; Norm Kriebel, Ambler, Penna.; W. Stark, Milwaukee, Wisc.; Ev. Payette, Monroe, Mich; Jos. Voisich & H. Lueth, Detroit, Mich; Irv. Goodeve, Kalamazoo, Mich, and IDA Pres. Charles Morrison, Bloomington, Ill.

Some dx'ers spent most of the time pouring over the many huge albums of choice veri's on display; others got a kick out of W9LLM, the VFB rig of F. Grey; others simply talked dx; while quite a goodly number stayed close to that good old barrel of ice-cold beer which helped to wash down the some 180 hot-dogs with all trimmings, which had been captured for the event. Bob Irwin took some flash-photos of the whole bunch, which we hope to reproduce in an early issue. A short business session with short talks by C. Morrison, Robt. Irwin, W. Stark, Zana Kandle, and Rog Legge, wound up the very enjoyable convention.

We are all deeply indebted to Leo Herz, Convention Chairman, and to the Windy City Chapter of IDA for presenting such a bang up affair.

The Mid-States Convention will be an annual event and next year we hope to have many more dx'ers from other states represented.



Leo Herz of Chicago, Chairman of the successful Mid-States IDA Convention, recently held at home of F. Grey, Downers Grove, Ill.

CHAPTERS

All chapt. will be starting their Fall meetings soon. Chapt. Secretaries please send in reports on meetings.

SO. CALIF (Los Angeles): A genuine California barbeque picnic was held at the home of Mildred and Harve Amers at Pomona, Calif., on August 26. Regular monthly meetings will be resumed in September and all dx'ers in this territory are cordially invited to contact Hal Clein, 1821 Santa Ynez St., Los Angeles, for further details.

SO. JERSEY (Philadelphia area): Meetings this year will be held on the 2nd floor of the Camden, N. J., YMCA, Saturday evenings at 8pm. The first meeting is scheduled for Sept. 9. All dx'ers are cordially invited. For further details contact Lemuel Cavileer, 1223 Keswick Avenue, Haddon Heights, New Jersey.

LAND OF 10,000 LAKES CHAPT. (Minneapolis). The Minnesota Picnic held on Sun., Aug. 30, was a huge success with 35 dx'ers attending. Pictures were taken and a grand picnic lunch was enjoyed by everyone. The picnic will be an annual affair. For exact date of Sept. meeting contact L. Lundberg, 1020 Lowry Ave. North, Minneapolis.

WINDY CITY (Chicago). Meeting Sept. 13, at YMCA, 19 S. La Salle St., Chicago.

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AWARD FOR ENROLLING NEW MEMBERS

Some lucky member will receive a genuine pair of SONJA HEINIE AUTOGRAPH MODEL ICE SKATES exactly as shown in the photograph. This grand prize will go to that member who enrolls the greatest number of new members in the IDA before December 31, 1939. In addition we will award a one year subscription to Ama-Touring for any member enrolling 3 new members, a one year subscription to the Globe Circler to any member enrolling 5 new members or a one year's subscription to both the Globe Circler and Ama-Touring for any member enrolling 7 new members before December 31, 1939.

EASTERN STATES IDA CONVENTION

DATE: SUNDAY, SEPT. 17. . . PLACE: Home of Lem Cavileer, 1223 Keswick Ave., Haddon Heights, New Jersey. . . SPECIAL GAMES AND RADIO ACTIVITIES are planned, eats and refreshments will be featured

and a good turn-out is indicated by advance reports. On the afternoon of Sat. Sept. 16, a delegation from BETA Chapter in New York will arrive and special plans are being made for their entertainment. All dx'ers are cordially invited to attend this 2nd Annual Eastern States Outing and Picnic.

NEW MEMBERS

Dick Henders, Toronto, Ont., CANADA...
 ...G.H. Jolliffe, VS7GJ, Frocester, Grovinnna, CEYLON...
 John F. Wilson, Wilmington, Delaware...
 Ray Simpson, Concord West, N.S.W., AUSTRALIA...
 William C. Post, St. Paul, Minnesota...
 Philip E. Rush, Homewood, Pittsburgh, Pennsylvania...
 Kenneth A. Skoog, Minneapolis, Minnesota.

IDA EXCHANGE CORNER

John L. Tate, 612 Halifax Street, Petersburg, Virginia (swap letters with dx'ers or phonograph record collectors)...
 Frank A. Wilson, 1 Bowler Ave., Mornington, Dunedin W1, New Zealand (swap letters with American BCB dx'ers)...
 Cyrus Will, 1015 Ridgewood Place, Highland Park, Illinois (swap correspondence with other dx'ers).

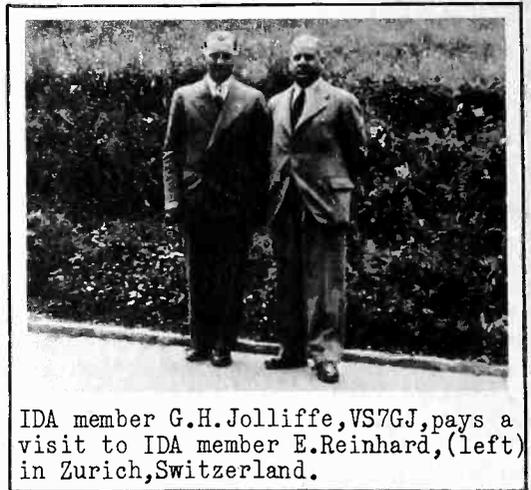
RETURN POSTAGE BUREAU

A permanent address, namely, 85 Francisco Ave., Rutherford, New Jersey has been adopted, effective September 5, 1939. Return Postage Bureau now supplies mint stamps of over ninety different nations for letters, as well as for 1st class postcards to U.S. Prices have been reduced on over 35 countries. Dx'ers get verri's oftener, faster and cheaper by using return postage stamps. Write for our new and completely revised price list.

PAN-AMERICAN FRIENDSHIP PROGRAMS

Sunday, September 24, 9-10pm EST, over LRX (9.66), Buenos Aires, Argentina...
 December 17, 1-2am EST, over YNDG (7.66), Leon, Nicaragua...
 WEEKLY, SUNDAYS 2-2:30am EST, over TG2 (6.195), Guatemala City, Guatemala.

SPECIAL AMATEUR BROADCASTS: Sept. 10, 17 and 24, 12 mid. to 12:10am EST, over YL2CD (14.04), and on Nov. 12 & 19, 10-10:10am EST, over YL2CD (28.08), owned by A. Vitolins, Miera Isla 52-5, Riga, Latvia. Your reports on these broadcasts will be appreciated.



IDA member G.H. Jolliffe, VS7GJ, pays a visit to IDA member E. Reinhard, (left) in Zurich, Switzerland.

PERSONAL

Congratulations to IDA newlyweds: H.S. Bradley of Hamilton, N.Y.; Don. Wright, State College, Pa...
 Guy Bigbee, Ft. Benning, Ga., sailed from New York, on Aug. 25, for extended cruise to Central and South American ports...
 Lyle Nelson will soon be busy editing the Univ. of Oregon's "Daily Emerald".



AWARD FOR ENROLLING NEW MEMBERS

Some lucky member will receive a genuine pair of SONJA HEINIE AUTOGRAPH MODEL ICE SKATES exactly as shown in the photograph. This grand prize will go to that member who enrolls the greatest number of new members in the IDA before December 31, 1939. In addition we will award a one year subscription to Ama-Touring for any member enrolling 3 new members, a one year subscription to the Globe Circler to any member enrolling 5 new members or a one year's subscription to both the Globe Circler and Ama-Touring for any member enrolling 7 new members before December 31, 1939.

EASTERN STATES IDA CONVENTION

DATE: SUNDAY, SEPT. 17. . . PLACE: Home of Lem Cavileer, 1223 Keswick Ave., Haddon Heights, New Jersey. . . SPECIAL GAMES AND RADIO ACTIVITIES are planned, eats and refreshments will be featured

and a good turn-out is indicated by advance reports. On the afternoon of Sat. Sept. 16, a delegation from BETA Chapter in New York will arrive and special plans are being made for their entertainment. All dx'ers are cordially invited to attend this 2nd Annual Eastern States Outing and Picnic.

NEW MEMBERS

Dick Henders, Toronto, Ont., CANADA...
 ...G.H. Jolliffe, VS7GJ, Frocester, Grovinnna, CEYLON...
 John F. Wilson, Wilmington, Delaware...
 Ray Simpson, Concord West, N.S.W., AUSTRALIA...
 William C. Post, St. Paul, Minnesota...
 Philip E. Rush, Homewood, Pittsburgh, Pennsylvania...
 Kenneth A. Skoog, Minneapolis, Minnesota.

IDA EXCHANGE CORNER

John L. Tate, 612 Halifax Street, Petersburg, Virginia (swap letters with dx'ers or phonograph record collectors)...
 Frank A. Wilson, 1 Bowler Ave., Mornington, Dunedin W1, New Zealand (swap letters with American BCB dx'ers)...
 Cyrus Will, 1015 Ridgewood Place, Highland Park, Illinois (swap correspondence with other dx'ers).

RETURN POSTAGE BUREAU

A permanent address, namely, 85 Francisco Ave., Rutherford, New Jersey has been adopted, effective September 5, 1939. Return Postage Bureau now supplies mint stamps of over ninety different nations for letters, as well as for 1st class postcards to U.S. Prices have been reduced on over 35 countries. Dx'ers get verri's oftener, faster and cheaper by using return postage stamps. Write for our new and completely revised price list.

PAN-AMERICAN FRIENDSHIP PROGRAMS

Sunday, September 24, 9-10pm EST, over LRX (9.66), Buenos Aires, Argentina...
 December 17, 1-2am EST, over YNDG (7.66), Leon, Nicaragua...
WEEKLY, SUNDAYS 2-2:30am EST, over TG2 (6.195), Guatemala City, Guatemala.

SPECIAL AMATEUR BROADCASTS: Sept. 10, 17 and 24, 12 mid. to 12:10am EST, over YL2CD (14.04), and on Nov. 12 & 19, 10-10:10am EST, over YL2CD (28.08), owned by A. Vitolins, Miera Isla 52-5, Riga, Latvia. Your reports on these broadcasts will be appreciated.



IDA member G.H. Jolliffe, VS7GJ, pays a visit to IDA member E. Reinhard, (left) in Zurich, Switzerland.

PERSONAL

Congratulations to IDA newlyweds: H.S. Bradley of Hamilton, N.Y.; Don. Wright, State College, Pa...
 Guy Bigbee, Ft. Benning, Ga., sailed from New York, on Aug. 25, for extended cruise to Central and South American ports...
 Lyle Nelson will soon be busy editing the Univ. of Oregon's "Daily Emerald".

BROADCAST STATION NEWS

- ALASKA** KINY (1430), Juneau, has been increased in power to 1000 watts.
- AUSTRALIA** 6TZ (1340), 500w, under construction... **POWER:** 3AR, Melbourne, to 10 kW; 6PM to 500w, 3MA to 200w; 3GL to 500w; 2CK to 300w; 4CA, to 300w.
- BARBADOS** The Govt. is considering the installation of a C.B. station here.
- BRAZIL** "Radio Educadora de Natal" (REN), is constructing a powerful long wave station at Natal to serve the entire state of Rio Grande do Norte.
- CHINA** XOBJ (1400), Dah Shang Hai, Hardoon Building, Nanking Road, Shanghai, has increased power to 10kW. Other powerful stations in China are: XGOA (1200), Chungking, 10kW; XGOG (560), Chengtu, 10kW; XGOC (1130), Nanchang, 3kW, and XGOE (1290), Nanking, 1kW (Breen, Yoshimura).
- CUBA** CMCX (1470), Guanabacoa, is off the air... **POWER:** CMKW (770), Santiago, to 1kW; CMHB (1240), Sancti Spiritus, to 200w; CMX (1260), Havana, to 10 kW; CMBL (750), Havana, to 2kW (Radio Guia*) (22)
- FRANCE** "Radio National", at Allouis, (180kC), 450kW, inaugurated on July-
- FR. INDO-CHINA** "Radio Saigon", Saigon, operates on 849kC; is relayed on the short-wave on 6.116 and 11.78 mcs.
- GT. BRITAIN** On June 14, Start Point (1050), 100kW, and Clevedon (1474), Clevedon -20kW, were officially inaugurated (Jones, BBC)
- GREECE** The Govt. may move the present 15kW Athens xmtr. to Salonika, purchase a new 50kW xmtr. for Athens, and add a 5kW xmtr. in the Corfu district
- HAWAII** KGMB, Honolulu, now on 590kC, with day power of 5kW (Com. Bul.)
- INDIA** VUT (758), Trichinopoly, 5kW, was officially inaugurated on May 15.. A 5kW xmtr. will be installed in the State of Baroda... A 10kW xmtr. may be installed at Willingdon Island, Cochin, and a 5kW xmtr. at Patna... A 5kW station, frequency 730kC, has been opened near Hyderabad (Com. Bul)... VUA, Allahabad, has moved to 1465kC (ADXC, NZDXRA)
- JAPAN** New stations to be established this year: JOTG (1050, Aomori-shi, near Hirosaki, 100w; JOFP (820), Fukushima-shi, near Sendai, 100w; JOCP (570), Koriyama-shi, near Sendai, 300w; JODP (860), Onomichi, near Hiroshima, 500w; JOUG (860), Bofu-shi, near Kokura, 500w; JOVG (950), Matsuyama-shi, near Kouchi; JOAP (1000), Naha-shi, Roo Chu Island, 1000w; JOIP (700), Ouita, -shi, near Kuma moto, 500w, and one on 620kC, at Toyohara... JOBK1 (690), and JOLK (910), will increase power to 100kW each (Saito, Yoshimura). -plant (Ronecker)
- MEXICO** XENT will be off the air for a while due to explosion of power-
- MANCHOUKUO** The following xmtrs. are operating in Manchoukuo: MTCY2 (180), 100kW, Shinkyō; MTCY1 (560), 10kW, Shinkyō; MTCY1 (575), 100w, Kinken; MTNY (615), 50w, Chamusō; MTFY (674), 3kW, Harbin; JOAK1 (760), 1kW, Dairen; MTKY (785), Enkichi, 200w; JQBK (805), 50w, Anto; MTLY (835), Chichihar, 50w; MTBY1 (890), Hoten, 1kW; MTHY (915), 50w, Shotoku; MTOY2 (955), 100w, Kinken; MTGY (1015), Botanko, 50w; MTPY1 (1025), 50w, Eiko; JOAK2 (1065), 1kW, Dairen; MTSY (1100), 100w, Kokura; MTBY2 (1250), 1kW, Hoten; MTRY (1260), 100w, Hairar; MTPY2 (1270), 50w, Eiko (Saito)
- NETHERLANDS** On March 1, 1940, 2 new xmtrs. at Jaarsvel, to be known as Hilversum I (728), and Hilversum II (843), 120kW each, will be opened (Com. Bul.)
- NORWAY** Stavanger is now operating on 850kC, with 100kW power (Tuff).
- PERU** OAX4A, Radio Nacional, Lima, operates on 854kC, daily from 11:30am to 1:30, and from 7 to 11:30pm EST (Gardner)
- POLAND** The power of "Polskie Radio", Warsaw 1, will be increased to 300kW.
- REUNION** FIS (616), St. Denis, has a power of 160 watts.
- SIAM** A 100kW station is under construction at Nondaburi, near Bangkok.
- SPAIN** Radio broadcasting is to be reorganized and the following stations will be installed: at Madrid, a 120kW; at Madrid, a 5kW; at Barcelona, a 50kW; at Saragossa, a 30kW, and at Seville, a 7kW xmtr.
- U.S.A.** Construction permits granted: Greenville, N.C. (1500), 250w day; Ft. Lauderdale, Fla (1370), 100/250w; Plainview, Tex (1200), 100w day; Ft. Dodge Iowa (1370), 100/250w; Mansfield, Ohio (1370), 250w day; Brunswick, Ga. (1500), 100/250w; Victoria, Tex (1310), 100/250w; Greenville, Miss (1310), 100/250w; Cookeville, Tenn (1370), 100/250w; Herrin, Ill (1310), 100/250w; Sault Ste. Marie, Mich. (1200), 100/250w; WCNC (1370), Elizabeth, N.C., 100/250w; WKIN (1500), Kingston, N.Y.; WLBJ (1310), Bowling Green, Pa., 100/250w; WNAM, Marinette, Wis, 250w; Panama City, Fla (1200), 250w; Salem, Mass (1200), 100w; KXOX (1210), 250w day; KDRO (1500), Sedalia, Mo., 100/250w; KOVO (1210), Provo, Utah; WBOX (1370), St. Petersburg, Fla, 100/250w; WSKB (1200), McComb, Miss, 100w.

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