

MARCH  
1940

# THE GLOBE CIRCLER

COMPLETE GUIDE-BOOK FOR SHORT-WAVE LISTENERS



Members of Crew of U.S.S. Bear (Byrd Antarctic Expedition) Listening to Reading of Short-Wave Radio Mail Bag Over WGEO of Schenectady, N. Y.

## ENGLISH NEWS BULLETINS FROM FOREIGN SHORT-WAVE STATIONS

(Daily E. S. T.)

8:15 a.m.	London	GSV	17.81	7:00 p.m.	Moscow	RNE	12.00
8:30 a.m.	Berlin	DJB	15.20	7:30 p.m.	Budapest	HAT4	9.125
8:50 a.m.	Perth	VLW2	9.645	7:30 p.m.	Rome	2RO4	11.81
10:30 a.m.	Saigon		11.78	7:30 p.m.	London	GSC	9.580
11:00 a.m.	London	GSV	17.81	8:00 p.m.	Stockholm	SBU	9.535
1:00 p.m.	London	GSI	15.26	8:03 p.m.	Paris	TPB7	11.88
2:30 p.m.	Turkey	TAP	9.465	8:15 p.m.	Berlin	DXB	9.610
6:00 p.m.	Berlin	DJD	11.77	8:15 p.m.	Tokio	JZK	15.16
6:00 p.m.	Boston	WRUW	15.13	11:00 p.m.	London	GSC	9.580
		WRUL	11.79	11:30 p.m.	Paris	TPC	9.520
6:30 p.m.	Panama	HP5A	11.70	12:00 a.m.	Berlin	DJC	6.020
6:30 p.m.	Martinique		9.705	12:03 a.m.	Tokio	JZJ	11.80

ten cents

# INTERNATIONAL DX'ERS ALLIANCE

# SHORT WAVE NOTES

EDITOR: Chas. A. Morrison; ASSOCIATE EDITOR: M.W. Soplop; U.H.F. EDITOR: Perry Ferrell; FREQUENCY CHECKING EDITORS: R.B. Oxrieder and John Larsen; AMA-TOURING EDITORS: Roger Legge and Roy Waite; IDA PROGRAMS DIRECTOR: Herb Tucker.

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## == EXPEDITION NEWS ==

KC4USA (14.140 to 14.152), aboard the Snow Cruiser, present power input 125 watts, the first of the Byrd Expedition's transmitters to take the air, has been worked by W3APO, W1JFG, W4's, W6's, and K6's, early mornings and near 10 pm. The transmitters at "New America", the west base should be on the air soon. (Soplop). . . KFAH, 1000 watt xmtr. of the Fahnstock South Sea Expedition, aboard the schooner "Director", was heard on 9.135, at 10 p.m. EST, on Mon. Feb. 5, and Mon. Feb. 12, both times unsuccessfully trying to establish contact with WCG or WET. Signals fair, but modulation low (\*\*Kandle; CAM)

**PRESS DEADLINES:** For April Globe Circler: March 16; For April Stop Press Sheet; March 29; for April Ama-Touring; March 30 (For Ama-Touring, send in news-items to Roger Legge, 20 Beethoven St., Binghamton, N.Y.)

**MAKE OUT SHORT-WAVE REPORTS AS FOLLOWS:** Double space lines...use one side paper only...group items by continents and state time used...Items in order of importance are: NEW stations; exact frequencies or freq. changes; exact skeds or addresses; identifying signals and unusual receptions. **RUSH IMPORTANT ITEMS BY FASTEST MAIL.** FOUR STAR items denote exceptional merit. EACH FIVE STAR ITEM PAYS its contributor \$1.00.

## == NORTH AND CENTRAL AMERICA ==

(E.S.T.)

BAHAMAS ZIO (8.14), ZSS (4.513) and ZSR (3.125) are testing 7-9pm. ZSS has the best signals (NRC)...ZNS2 (6.09) can be received in California on Saturday nights when XBBF (7.09), Jalapa, is off air (Plotner-San Francisco)

BARBADOS A Govt. xmtr. on 3.9, broadcasts news daily 4:30-4:45pm (Stark)

C.R. NEW: TI7RVN or M (6.035), Las Juntas, power 6kW, heard signing off on Jan. 23, at 11:40pm (\*\*Plotner-Calif.)

CUBA COCM (9.825) no longer troubled by phone QRM (Callan)...NEW- COCY (9.225), owned by Autran Y Carbo, Ltd., relays CMCY (590 kc), weekdays 8am-12 mid, and Sun. 8am-10pm (\*\*Callan, Radio Guia)...COCY also relays CMBY (1180). ...COHI (6.455), Santa Clara, "La Cadena Azul de Radio, in network with CMHI, CMCF-COCH, CMJF, and CMKQ, verifies promptly with courteous letter (Rudd, Stark Lundberg)...COX4 (4.29) and COX7 (6.396), relay CMZ (920 kc), daily 7-10:30pm ...COX4 and COX7 operate in addition daily 2-3 and 6-7pm. All three stations are operated by the Cuerpo de Cultura del Ejercito Constitucional of Havana (Radio Guia, Gilgen)

CURACAO PJCL is being received on 5.936 mcs. at present (Plotner-Calif.)

D.R. HHS is shifted slightly to 6.43 mcs. (Larsen)

EL SALVADOR YSM (11.71), "Alma Cuscatleca", Radiodifusora Nacional, San Salva-

dor, very irreg. in operation at present, issues an attractive red, cream and blue QSL, card with black call letters (\*Soplop)... Station on 10.4, announces as YSP-YSF (Plotner)

GUATEMALA TG2's (6.193) program for IDA is now being broadcast early Sundays 1:30-1:45am (Spatari)... TGWB has shifted to the high frequency side of COHI (6.455), which now covers it completely (Balbi-Calif)

HAITI Haitian amateurs are back on air again (\*Prendergast)

HONDURAS HRP1 (6.355), San Pedro Sula, being heard to 9:30pm. Gives 4 gongs before identification; 2 gongs before each news item, and chimes from some cathedral on the hour (\*Lundberg)

MEXICO - XEBF (6.09), Insurgentes No. 34, Jalapa, heard to 9:30pm (Lundberg)

... XEFT (9.55), Veracruz, not heard for some time may have moved to a new frequency (Balbi-Calif)... A Monterrey station, (9.555), a new one with call

XEFA, or XETA moved from 11.76 mcs., is being heard daily from 8:45am to 12

midnight. QRA is said to be Box 203, Monterrey (Saunders, Plotner, Roberts, NRC)... Unidentified station on 6.21 believed to be XEBE (Plotner)... XEQQ

(9.68), in the clear now, gives English announcement and signs-off at lam.

FLD. New sked for VONG is given on QSL card as: on 9.475, 9am-1pm and on 5.975, 5-10pm. Card is blue, yellow & white (Rudd)

ICARAGUA YNPR (8.58) not heard lately although YNRF (6.76) is still on the air. These stations used to operate in parallel (Larsen)

S.A. WBOS seeks permit to add freqs. of 11.87 and 17.78, and move of transmitter site to Newport Road, Hull, Mass. (FCC)... WCAB now operates on

15.27, daily 12-6pm (Balbi-Calif)... WCBX now operates as follows:

on 17.83, 8am-12:30pm and on 11.83, 1-6pm, to Europe; on 11.83, 6:30-10pm; on

9.65, 10:30-11:30pm, and on 6.17, 12-2am to S.A. (WCBX, Balbi)... WDJM (6.04),

5kW, Miami, Fla., verifies with an attractive scenic view of Miami (Lundberg)

... WNBI (6.100) has not been used recently. WNBI (17.78) is now on the air to 10pm. (Balbi).... COMMERCIAL-WMI (8.585), shore to Gt. Lakes ships phone,

is on the air again (FCC)... W9XDH (12.862), Elgin, Ill., is testing again.

Best heard near 5pm (Saunders-Calif.)... Except for special tests using 20

kW, WWV is now transmitting a standard pitch note of 440 cycles per sec. on

5 mcs., continuously day and night. Verifies promptly (Rudd-Gilgen)

### == SOUTH AMERICA ==

ARGENTINA LRAL uses 1kW from 1 to 19th of month; 10kW from 19th to end of month. Revised sked effective March 1, should be: on 9.69, 10:30am-1, 2:30-

3:30, 4-9pm (Sa/Su 7-9pm); on 6.18, 6-9pm (Sa/Su 7-9pm), and 17.83, Fridays

only 5-5:30pm (Callan)

RAZIL PYA2 (9.205), Rio de Janeiro, new station, broadcasts in Portuguese daily from 5-6pm, heterodyned by COCX (Kriebel)

CHILE CB1180, now on 11.95, is sometimes heard weakly 7-8am (Larsen, MS)

COLOMBIA HJAB, Barranquilla, operates on 9.57 during day (Ramirez).... HJAE

(4.835), signs at 10:30pm with "Song of the Islands" (Herz)... HJAP (4.924),

gives call in English occasionally (Lundberg)... HJCD (6.16), Bogota, being

heard to 11pm (Lundberg)... HJCF (4.855), Bogota, heard 10-10:30pm (Herz)....

NEW: HJCO & HJCW (4.945), "Emisora Sud America", Barranquilla, operates 7:30

10:30pm (Sat. to 11:40pm) (\*\*Larsen)... NEW: HJCT (9.63), "Radio Emisora Nacio

nal, "Bogota, power 2800w, inaugurated Feb. 1, relays HJCI (1200), nightly

from 6-11pm, blotting out 2R03. Announcements in English and requests re-

ports from U.S. (\*\*Montenegro, Balbi, Schubert, Callan)... HJCX (6.017), "La

Voz de Colombia, Bogota, operates 6-11:30pm (NRC)... HJDP (4.885), signs at 11

pm (Herz)... See list for other slight corrections in skeds etc.

ECUADOR Initial tests of the new 10kW xmtr. for HCJB (12.46), were made

on Feb. 12. Signals were strong but modulation very poor. Programs will go

out over a new 4-element rotary beam and with its favorable location at an

altitude of 10,000 ft. HCJB should be heard in U.S. with tremendous strength

(CAM)... HC2CW is now on 9.13 (Larsen)... Unidentified Ecuadorian heard each

night to 10:20pm, on 9.35. It may be HCLETC missing from 8.00 (Larsen)

PARAGUAY Paraguay station on 11.705 irreg. thought to be ZP7.

VENEZUELA NEW: YV1RM (4.88), relays YV1RK, Maracaibo, signing-off with march

at 9:30pm (NNRC)... YV1RO (4.778), "Radio Trujillo", Maracaibo, operates appr.

7-10:05pm (Larsen)... YV1RY (4.91), "Radio Coro" signs-off at 10pm (Lundberg)

... YV4RO (4.953), "La Voz de Carabobo", Valencia, signs at 9:30pm (Lundberg).

YV5RV (now 3.545), operates weekdays till after 11pm (Larsen)... YV5RY, at

Caracas, is now on 4.788 mcs. (Larsen)

== EUROPE ==

ALBANIA Radio Tirana, now operates on 7.85, 6:20-8am; on 6.085, 12:20-5 or 6pm. Interval signal about a dozen note sequence on the piano (Kriebel, Nordgren)...Who is the station on 7.85, signing-off at 3:30pm ? YI5KG ?

BELGIUM ORK (10.33), now being heard with R8-9 signals seems to indicate that the new 20kW transmitter may be in operation (\*Callan)

DENMARK Skamlebak has added two new freqs: OZG2 (11.82) and OZG3 (11.87)

FRANCE Mystery station on 9.57, relays French BCB stations Paris PTT; Lille PTT etc., 2-3pm. Talks, in Polish 2-2:15; in German 2:15-2:30 (Callan) ...TPC3 (11.845), now operates 10:30am-1pm; beamed on NA, 12-12:30pm- (Balbi, Soplop)... Programs to S.A. 4:30-7:45pm, and to N.A., 8pm-12:30am, are now being broadcast over TPC- on 9.52 mcs. (Pedersen, Lebouef, Weiller, Soplop)... TPA4 (11.718) now being heard afternoons to 6pm (Soplop)

GERMANY Unidentified on 9.98, announcing as "Radio Podebrad", using the regular German interval signal, relays DJA, daily 2:40-3:10pm. Gives talks, in Italian 2:40-2:50; in English 2:50-3; in French 3-3:10pm (\*\*Callan)... DZD is on 10.543 (Larsen)...DJB (15.200), now broadcasts to N.A., 6:30-9am, 11:10-11:40am, 4:50-10:45pm...DJD (11.77), now broadcasts to N.A., 4:50pm-1am ...DXB (9.61) and DJC (6.02) broadcast to N.A. 7pm-1am. (PMA)

ICELAND TFJ (12.235) is off the air for the duration of war (Stark)

IRELAND "Radio Eire" on 9.595, heard testing a new transmitter and requesting reports. Signed off at 3pm (\*\*Hart, Callan)

ITALY 2R01 (6.085), operates occasionally. 6-9pm (Kriebel)...2R014 on 15.23, operates intermittently mornings & afternoons (Rudd, Walker)...2R015 (11.76) is now carrying the "American Hour", 7:30-9pm in place of TRF (Callan, Scholz, Gilgen, Soplop)...2R09 (9.67) and WRCA (9.67) continue to fight it out about evenly from 7-9pm (Callan)

NETHERLANDS PCJ (9.59) now broadcasts Tuesdays, 7:30-8:30pm to S. A. and 8:45-9:45pm to N.A. (Rudd). PCJ is quite weak on its evening transmissions

NORWAY The mystery Nordic on 9.645, which operates daily to approximately 4:30pm, and heterodynes CR7BE weekdays has been definitely identified as LLH of Oslo, Norway (\*\*Hart, Callan)

PORTUGAL CSW5 (11.04) is now being heard afternoons with loud signals.

ROUMANIA "Radio Bucharest" (9.234) heard talking about Bucharest and playing national anthem at 7pm. Interval signal was 10 note bugle call (Kernan)

SPAIN EAQ (9.86) signs-off daily at 9:30pm (Larsen)...EAJ9 (7.22), signs-off at 6pm with two anthems, one the former Nationalist theme, then the Republican anthem of old Spain, then "Viva Franco, Viva Espagne". (Soplop)

SWEDEN SBU (9.535) and SBP (11.705) broadcast to N.A. nightly 8-9pm. SBU is the best received (Callan, Magnuson, Soplop)

SWITZERLAND HEC, a 250w xmtr. originally built for the "Swiss National Exhibition", is now testing at Schwarzenburg, as follows: Mon/Wed, on 11.865, 7:45-9:15, to S.A., and 9:45-11:15pm to N.A. on 9.535. The new Schwarzenburg station will be testing on these same frequencies very soon (R.P.S.)

U.S.S.R. The Moscow xmtr. on 11.845 broadcasts in English daily at 5am. The Moscow xmtr. on 9.685, broadcasts daily 4-6pm; in English at 5:30pm (Radio Center, Christie)...RAN (9.6) and CB960 heterodyne badly (Gilgen)

VATICAN CITY Revised skeds for HVJ follow: Sundays, on 6.19, 8:30pm to Brazil; 9pm to Canada; 9:30pm to N.A.; Wed., on 9.66, 2:30-3pm in French; on 15.12, 8:30pm to S.A.; on 11.74, 9pm to S.A. and on 6.19, 9:30pm to N.A. Also operates Tuesdays, on 11.74, 10-10:30am (Balbi, Callan, NRC)

YUGOSLAVIA YUE (11.735), Belgrade, has been conducting tests 9:05-10pm, presumably to determine the advisability of going to this freq. for the N.A. program (Soplop)...YUB (6.100) still being heard with loud signals 12:43-2am (Rudd, Soplop)...YUC (9.505) heard 12:43-2am, on Feb. 12, possibly indicating a change in freq. for this transmission (\*Balbi-Calif).

== AFRICA ==

I.E.A. The IDA program from 12AA (9.65), on Jan. 21, 5-5:30pm, was received throughout eastern North America with signals ranging from R4 to R9.

KENYA VQ7LO (6.083), 500w, owned by Cable and Wireless Ltd. of Nairobi, broadcasts daily 5:45-6:15, 11:30am-2:30pm (Sun. to 2pm), and Tues/Thurs 8:30-9:30am. Each afternoon a half-hour of Indian music is given (Com. Bul.)

MADAGASCAR "Radio Tananarive", operated by the Govt. post-office, telephone, and telegraph department, broadcasts with a power of 500w, on 6.063 & 9.693.

MOZAMBIQUE CR7BE (9.645) is still being heard with excellent strength 2-4pm.

A news-bulletin in English is read near 3pm. On Feb. 12, CR7BE initiated a program directed to N.A., daily 7-8am. Due to hour, and QRM from VLW2 this broadcast has little possibility of being heard in the U.S. This 10kW xmtr. is also licensed to operate as: CR7BI (17.915); CR7BG (15.285 and CR7BF (11.835) (\*\*Kernan, Simpson, Waite, Herz, Lundberg, Ramirez, CAM)

SENEGAL Two 12kW s.w. transmitters at Dakar now under construction, will be completed late in 1940. A 2000 watt broadcast band station is also being installed for service to the colonies of French West Africa (Com. Bul.)

SO. AFRICA Sked for new Durban xmtr. follows: over ZTE (official 11.80, but reported heard on 11.77): weekdays 3:30-11:45am, Sundays 3:55am-11:45am; daily except Saturday, 11:45pm-2am, over ZRO (9.755), weekdays from 3:30am to 3:45pm (Sat. to 4pm), Sundays 3:55am-3:45pm, daily except Saturdays 11:45pm-2am (Callan, Simpson, S.A. Radio Announcer)

==ASIA AND OCEANIA==

MYSTERY Heard on 6.04 mcs., 9-10am, with news in English at 9:30am. Announcements sound like Hongkong or Bangkok (Balbi-Calif.)

AUSTRALIA VLQ, 16kW, Sydney, shifted to a new freq. of 9.68, on Feb. 12, and broadcasts to N.A. daily 7-8am. It is not known as yet whether the other transmissions of this station are still on 9.615, or on the new Freq. of 9.68. The S.A. transmission is 6:15-6:45am...VLQ5 (9.587), an experimental Sydney, freq., is beamed on N.A. daily 7-8am in parallel with VLQ...VLR3 has shifted temporarily to 11.85; broadcasts an additional sked 6:35-7am for Japan and P.I...VLW2 (9.645), Perth, broadcasts for Australia 6-11am; news in English at 8:50am; tests for S. Africa, 3-5pm...VLW3 (11.83), Perth, is in operation 1-5am and 12:30-1:30pm. (\*\*Callan, Balbi, Hart, Beyer, Simpson, CAM, Breen, Roberts)

URMA The new Rangoon xmtr. was inaugurated on Jan. 3. The officially announced freq. is 6.056 but it is also reported on 6.047. It operates in parallel with XYZ (6.007 and 3.488) daily to 10am. English announcement at 8:30am (\*\*Breen, Simpson, Plotner, Beyer, Pardini)

ANTON Amateur KF6JEG (14.200), has a schedule every Wednesday at 9:45pm with WGAED of Oakland, California (Plotner- San Francisco)\*\*

HINA NEW: XGSE (9.84), location unknown, broadcasts daily from 7am on. Announcement is "This is the Chinese short-wave station XGSE on 9.84 kc located in China" (Simpson- Austr.)...XTY (14.13), Chungking, phone, calls XTK Changsha, near 5:30am (Breen-N.Z.)...The Central Broadcasting Administration of China now broadcasts to N.A. daily as follows: over XGOY (9.65), 9-9:40 am, and over XGOX (15.200), 8:30-9:30 and 10-11:05pm. Send reports to Ying Ong, 1001 E. Roosevelt St., Phoenix, Ariz. (\*\*Ong)...XGOY (9.55), tests irreg. 9:45-10:30am (Balbi)...XGOX (15.200) is fairly well heard at present 8:30-9:30pm (Balbi, Hart, CAM, Gillen, Walker, Callan)

COOK Amateur ZK1AA heard several months ago was a phoney. ZK1AA left the Cook Isls. 5 years ago, and ZK1AB about 3 years ago (ZL1HY-N.Z.)

E.I. New stations: YDE (4.85), Semarang, 5kW; YDR (4.91), Tandjongpriok, 5kW; YDR (7.24), Tandjongpriok, 5kW; YDE (7.27), Semarang, 5kW; YDA (7.295), Tandjongpriok, 10kW. New call for YDA (6.04), Bandoeng, is YDD; new call for YBG, Medan, Sumatra, 2kW, is YBF3...YDC (15.15) now has 3kW (\*\*NNRC)

IJI'S VPD2 (9.535), using a new transmitter, resumed broadcasting in January and is now on the air daily 4-5am (\*\*Breen-N.Z.; Simpson-Austr.)

INDO-CHINA "Radio Saigon" (11.78) is overriding HP5G, 6:30-7:15pm (Soplop)

INDIA A rather indefinite QSL card from Madras, signed by Victor Paranjoti, states that VUM1 is now operating on 9.57 (\*\*Beyer)...VUD2 (9.59), has an all-English program with YL announcer 7-7:30am; well heard (\*Hart, DC)

IRAN EQC? (9.68), broadcasts Mondays 7-8am. Music is of western type, and announcements are made by woman with sing-song voice (\*\*Callan-Mass.) Additional calls for Teheran xmtr. are: EQD (4.83), 2kW; E2QE (11.73), 20kW, and EQF (11.895), 20kW (NNRC)

JAPAN JZJ (11.8) is very good 4:30-5:30pm when COGF is off air (Soplop) ...JZJ has moved slightly to 11.795 to avoid QRM from COGF (Soplop)

P.I. KZRF (6.14), "Radio Filipinos", 1kW, relays KZRM (780), Mondays to Saturdays 4:30pm-11am and Sundays 6pm-11am. Card is red and black, with call in white, and very attractive (NNRC)

HAILAND According to QSL the Bangkok xmtr. is now operating as follows: over HS6PJ (19.02), Mondays 8-10am, and over HSP6 (7.968), daily ex. Mondays, 8-10am. Send reports to Overseas Publicity Section, -(Cont. on page 13)

# 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....NEWS IN ENGLISH: The most important English news periods indicated in list as NEWS. (Frequency calibrations by the Oxrieder/Larsen Bureau)

DIAL METERS	MEGS.	CALL STATION	STATION	TIME	EASTERN STANDARD
11.47	26.15	W4XA	Nashville, Tenn.	Noon-1, 6:30-10pm.	
11.49N	26.135	W5XAU	Oklahoma City, Okla.		
11.50	26.10	W9XJL	Superior, Wisconsin	11am-3pm.	
11.52	26.05	W9XH	Southbend, Indiana	Mon/Tues./Wed/Fri 2:30-6:30pm.	
11.54	26.00	W9XA	Kansas City, Mo.	12 noon-3pm.	
11.56	25.95	W8XNU	Cincinnati, Ohio	7am-2, 4pm-1am.	
11.58	25.90	W9XPD	St. Louis, Mo.	10am-1, 4-8pm.	
11.81N	25.40	W9XLA	Denver, Colorado	10am-12 mid.	11
11.86	25.30	W2XJI	New York City, N.Y.	11:30am-2:45, 5-6pm.	
11.86	25.30	W9XOK	St. Louis, Mo.	Testing irreg.	
11.86	25.30	W5XD	Dallas, Texas	12:30-2:30pm.	
13.87	21.63	WRCA	New York City, N.Y.	12 noon-3:30pm to Latin America	
13.92S	21.55	GST	London, England	5:40-8:45, 9-9:15, 9:20-11:30am	
13.93	21.54	WPIT	Pittsburgh, Pa.	6:30-8am.	
13.93	21.53	GSJ	London, England	5:40-8:45am to India/Australia.	
13.96	21.50	WGEA	Schenectady, N.Y.		
13.97	21.47	GSH	London, England	5:40-8:45am to Africa.	13
13.99	21.45	DJS	Berlin, Germany	12:05-7:55am to Asia	
15.77	19.02	HS6PJ	Bangkok, Thailand	Mondays 8-10am.	*
16.23	18.48	HBH	Geneva, Switzerland	Fridays 8:45-10:15 am to Orient	
16.69	17.97	KHE	Kahuku, Hawaii	Sat/Sun 8:30-9pm.	16
16.82	17.845	DJH	Berlin, Germany	12:05-7:50, 8-9, 9-11am.	
16.82	17.84	EIRE	Athlone, Ireland	7:30-8:30, 9-10am.	*
16.83S	17.83	LRA5	Buenos Aires, Arg.	Fridays 5-5:30pm.	*
16.83F	17.83	WCBX	New York City, N.Y.	8am-12:30pm to Europe.	*
16.84	17.82	2RO8	Rome, Italy	5-7:25, 7:30-9am, 6-7:25pm.	
16.85	17.81	GSV	London, England	7-8:45, 9-11:30am to N.A....NEWS	
16.86	17.79	GSG	London, England	5:40-8:45am. (8:15, 11:00am	
16.87S	17.78	WNBI	New York City, N.Y.	9am-4:15 (also to 10pm lately)*	
16.88	17.77	PHI2	Huizen, Holland	Sun. 6:40-7:40am to Far East	
16.89	17.765	TPB3	Paris, France	5-10am to Far East	
16.89	17.76	DJE	Berlin, Germany	12:05-11am.	
19.47	15.41	RV96	Moscow, U.S.R.	5-7:30am, 8:55-10:30pm.	
19.52	15.37	HAS3	Budapest, Hungary	Sundays 9-10:30am.	
19.56S	15.34	DJR	Berlin, Germany	12:05-11am, 4:55-10:50pm to CA.	
19.57	15.33	WGEA	Schenectady, N.Y.	8am-6pm to Europe.	
19.57	15.33	KGEI	San Francisco, Calif.	6:30-11:15pm to Latin America	
19.58	15.32	OZH	Skamlebak, Denmark	Sundays 8am-1:30pm.	
19.60	15.31	GSP	London, England	2-5am; 1:35-3:30pm to N.A.	
19.60	15.31	YDB	Soerabaja, Java	10:30pm-2am and Sat. 7:30pm-2am.	
19.61	15.30	2RO6	Rome, Italy	4:10-4:55, 10am-12:06, 12:20-1240	
19.61	15.295	TPB4	Paris, France	1:38-2:30, 3-5:30, 7:30-9pm to NA	
19.62	15.29	LRU	Buenos Aires, Argentina	5-5:30, 7:30-8am. NEWS: 7:30	
19.62	15.29	VUD2	Delhi, India	7-9am. (11:30p	
19.62	15.29	VUD2	Delhi, India	1:30-2:30, 7:30am-12:30, 9:30-	
19.63S	15.28	DJQ	Berlin, Germany	12:05-11:10am.	
19.64S	15.27	WCAB	Philadelphia, Pa.	12 noon-6pm to South America. *	
19.66	15.26	GSI	London, England.	12:57-5am, 12-3:30pm to Africa.	
19.68	15.24	TPA2	Paris, France	5-10am to Far East.	
19.68	15.24	CR7BD	Lourenco Marques, Mozambique,	2-4pm etc.	19
19.68	15.24	YUF	Belgrade, Yugoslavia	7-8pm to S.A.	
19.68	15.24	YUG	Belgrade, Yugoslavia	8-9pm to N.A.	
19.71	15.22	PCJ2	Huizen, Holland	Su. 7:40-10:05, Mon/Th. 7:40-9am,	
19.72	15.21	WPIT	Pittsburgh, Pa.	Tu. 3-4:30am, Tu/Fr/Sa 7:40-8:45a	
19.74S	15.20	DJB	Berlin, Germany	8am-3pm to Europe.	
				12:05-6, 6:30-9, 9:15-9:30, 11:10-	
				11:40am, 4:50-10:45pm to N.A....	

19.74S	15.20	XGOX	Szechwan, China	NEWS: 6:45, 8:30, 9:15am; 6, 8:15, 8:30-9:30, 10-11:05pm. (10:30pm. 5:30-7:30am prox... NEWS- 7:15am. 3-3:45am (English) 5:40-11:30am to Europe.
19.74	15.195	TAQ	Ankara, Turkey	12:45-1:45pm to NA; Sun. 1:45-8:50am-5pm. (5:15pm)
19.76	15.18	RV96	Moscow, U.S.S.R.	4:30-5:30pm to SA; 8-9pm to NA.
19.76	15.18	GSO	London, England	12:57-4:30p. (NEWS: 8:15 p.m.)
19.78	15.17	TGWA	Guatemala, Guatemala	4:30-10:30am; 6-9pm ex. Sat; 10:30pm-2am; Sat. 7pm-2am. *
19.78	15.165	LKV	Oslo, Norway	3:30-5, 9-11:30am, 3:50-6pm.
19.79	15.16	JZK	Tokio, Japan	2-5, 8:45-10:30pm, Sa. 3-5pm, Sun. -11:30am-12:30pm to N.A.
19.80	15.155	SBT	Motala, Sweden	Sun/Thurs 8:30-9pm. to S.A.
19.80	15.15	YDC	Bandoeng, Java	12:05-2, 10:40am-4:25pm. (-9pm Irreg. (to NA
19.82	15.14	GSF	London, England	7-8:30pm (Eng), 8:30-9pm (French)
19.83S	15.13	WRUW/WRUL	Boston, Mass.	6-7pm; Wed. 4-4:10pm.
19.83	15.13	TPC	Paris, France	Sat. 8:30-9pm; Sun. 8:30-9pm.
19.84	15.12	HVJ	Vatican City	Irreg.
19.85S	15.11	DJL	Berlin, Germany	Sun. 12:30-1, or 1:30am.
19.87	15.10	2R012	Rome, Italy	6:40-10:40am, 5:10-9:40pm.
19.95S	15.04	RKI	Moscow, U.S.S.R.	7-8:15, 11:30am-2:30, 5-10:30pm
20.08	14.94	PSE	Rio de Janeiro, Brazil	Intermit. throughout day (ex. Mon. 7-8am, 4:50-11pm. *
20.11	14.92	KQH	Kahuku, Hawaii	10am-1, 5-10:30pm.
20.64	14.535	HBJ	Geneva, Switzerland	5:30-7:20, 7:20-7:35, 7:40-9, 9:40-11, 11:10-11:50am, 2-4:20, 4:30-6:20pm... NEWS- 6:15am, 5pm. 6:30-7am, 4-6pm.
21.58	13.90	YN3DG	Leon, Nicaragua	1-4, 10:15am-5:15pm to Asia/Afr.
24.02	12.49	HI1N	Trujillo City, D.R.	4:45-7:45pm to SA; 8pm-12:45am to N.A... NEWS- 8:03, 11:30pm, 12:15
24.08	12.46	HCJB	Quito, Ecuador	2:30-3:30am to S. Europe. (am 3-9, 10-11pm or later. Heard from 8:45 am on.
25.00	12.00	RNE	Moscow, U.S.S.R.	3:30-5am to Far East, 6:22-9:15p
25.12S	11.945	CB1180	Santiago, Chile	Intermittently daily. (to SA 3:30pm-2:15am, 6:35-7am to P.I.
25.19	11.91	CD1190	Valdivia, Chile	10:30am-5pm to Madagascar 7-9p.m.
25.22VS	11.895	XGOY	Szechwan, China	1-5am, 12:30-1:30pm to Africa.
25.22S	11.895		Moscow, U.S.S.R.	1-6pm to Europe; 8:30-10pm to 3:30-9:20pm. (SA
25.24	11.885	TPA3	Paris, France	10am-4pm & evenings irreg.
25.25	11.880	TPB7	Paris, France	4:30-9, 10am-2:30, 6-7:25, 7:30-9p Irregular (to N.A... NEWS, 7:30pm
25.27	11.87	VLQ2	Sydney, Australia	12-1:30am to NA, 7-9:30am, 4:30-5:30pm... NEWS- at 12:03am. *
25.27	11.87	WPIT	Pittsburgh, Pa.	2-5pm, Sat. 3-5pm, Sun. 10am-12noon
25.27N	11.87	VUM	Madras, India	5:45-10:15, 10:30-11am, 6:30-7:15, 11:45pm-12:45am... NEWS- 6, 10:30am.
25.30	11.86	GSE	London, England	12-1 (Su. 10am-1pm), 6-10pm.
25.30	11.855	DJP	Berlin, Germany	1:30-2:20am to NA, 9:50-10:50am, 4-4:50pm.
25.32FS	11.85	VLR3	Melbourne, Australia	3:30-11:45 am, Su. 3:55-11:45 am, 11:45pm-2am ex. Sat. *
25.33S	11.845	TPC8	Paris, France	10:45am-4:25, 4:50pm-1am to N.A. ... NEWS- 6:00, 8:15, 10:30pm.
25.34	11.84	OLR4A	Prague, Bohemia	12:57-5, 5:40-8:45, 11:52am- (pm
25.36	11.83	VLW3	Perth, W. Australia	3:30, 3:50-6, 9:37pm-12:30am to NA... NEWS- 8:50, 4:45, 9:45, 11pm.
25.36S	11.83	WCBX	New York City, N.Y.	
25.37S	11.825	CXA14	Colonia, Uruguay	
25.38	11.82	XEBR	Hermosillo, Mexico	
25.40S	11.81	2R04	Rome, Italy	
25.42	11.80	COGF	Matanzas, Cuba	
25.44	11.795	JZJ	Tokio, Japan	
25.45S	11.79	WRUL	Boston, Mass.	
25.47	11.78		Saigon, F. Indo-China	
25.47	11.78	HP5G	Panama City, Panama	
25.48	11.775	MTCY	Hsinking, Manchukuo	
25.49N	11.77	ZTE	Durban, So. Africa	
25.49S	11.77	DJD	Berlin, Germany	
25.51S	11.76	2R015	Rome, Italy	
25.53	11.75	GSD	London, England	

8	25.55	11.74	CB1174	Santiago, Chile	6-11pm; Sun. 6-10:30pm.	(pm
	25.55	11.74	HVJ	Vatican City	Tu. 8:30-9, 10-10:30am, Thur. 9-9:30	
	25.57	11.734	LKQ	Oslo, Norway	4:30-8:50am; Su. 2:30-8:50am	(SA
	25.57	11.735	YUE	Belgrade, Yugoslavia	9:05-10pm irreg.	*
	25.58	11.73	WRUW/WRUL	Boston, Mass.	5:30-8:30, 8:45-10:30pm, Su. 2-9pm	
	25.59	11.725	JVW3	Tokio, Japan	1-7am irreg.	
	25.60	11.72	CJRX	Winnipeg, Canada.	4-8:30pm irreg.	(am-6pm.
	25.60	11.72	ZP14	Villarica, Paraguay	Mon. thru Fri. 4-7:50pm, Sa/Su 11-	
	25.60S	11.718	TPA4	Paris, France	1-5:15pm to Afr., 6-7:45pm to SA	
	25.62	11.71	YSM	San Salvador, El Salvador	1-2, 7-9:30pm irreg.	
	25.63S	11.705	SBP	Motala, Sweden	12:57-4:30pm, Su. 3am-4:30pm; 8-9	
	25.63N	11.705	ZP7	Asuncion, Paraguay	pm to N.A... NEWS- 8:00pm.	
	25.64	11.70	HP5A	Panama City, Panama	Being heard irreg.	*
	25.64	11.70	CB1170	Santiago, Chile	7-10:40am, 5-10:45pm, Su. 6-10:45p	
	25.64S	11.70	IQY	Rome, Italy	10am-2, 3:30pm-mid.	
	25.75	11.65	XGOK	Canton, China	5:20-5:40am (ex. Sun), 1:50-2:30p	
	25.77	11.64		Moscow, U.S.S.R.	7-9am... NEWS- 8:10am.	
	26.32	11.402	HBO	Geneva, Switzerland	6-7am (English)	
	27.17	11.04	CSW6	Lisbon, Portugal	Mon/Wed 6:45-8:15pm, Tu. 12:45	
	27.27	11.00	PLP	Bandoeng, Java	2:15pm; Sat. 12:45-2pm.	
	28.30	10.60	ZIK2	Belize, Brit. Honduras	12-3:30; Sun. 10am-3:30pm.	*
	28.48	10.535	JIB	Taihoku, Taiwan	4:30-10:30am, 6-9, 10:30pm-2am.	
	28.55	10.40	YSP	San Salvador, El Salvador	Tu/Th/Sat 1:30-2, 8:30-9pm.	
	29.04	10.33	ORK	Ruyselede, Belgium	Relays JFAK 9-9:55am; 4-5am ir.	
	29.15	10.29	DZC	Berlin, Germany	San Salvador 1-3, 6:30-11pm.	
	29.24	10.26	PMN	Bandoeng, Java	1:30-3pm to Belgian Congo.	*
	29.35	10.22	PSH	Rio de Janeiro, Brazil	Irreg.	(Sun
	29.32	10.07		German Freedoms endler	4:30-11:30am, 6-9, 10:30pm-2am ex	
	29.33	10.065	TIEM	San Jose, C.R.	5:55-7pm; Mon. 8-8:30pm to NA	
	30.08N	9.973	DXQ	"Radio Podebrad"	Heard near 4-5pm irreg.	
	30.23	9.925	JDY	Darien, Manchukuo	4:30-5pm.	
	30.40	9.87		Tananarive, Madagascar	2:40-3:10pm or later	*
	30.45S	9.855	EAQ	Madrid, Spain	7-8am... NEWS- at 7:45am.	
	30.49N	9.84	XGSE	, China	10-11am. (NEWS- at 8:40p	
	30.54JS	9.825	COCM	Havana, Cuba	5:30-7:30, 7:45-9:30pm to N.A...	*
	30.57S	9.815	IRF	Rome, Italy	Frgm 7am on.--	*
	30.67	9.78	HH3W	Port-au-Prince, Haiti	8am-12 mid.; Sun. 8am-11pm.	
	30.76S	9.755	ZRO	Durban, So. Africa	5:20-5:40am ex. Su, 1:50-2:30pm.	
	30.80S	9.74	CSW7	Lisbon, Portugal	1-2, 7-9pm; Sun. 1-2, 5-8pm.	
	30.83	9.73	CB970	Valparaiso, Chile	3:30am-3:45pm, Su. 3:55am-3:45pm;	
	30.83	9.73	HJFK	Pereira, Colombia	11:45pm-2am daily ex. Sat.	*
	30.90F	9.71	HJCF	Bogota, Colombia	Tu/Th/Sa 3:30-4; daily 4-5:30,	
	30.92	9.705		Fort-de-France, Martinique	5:45-9pm to N.A.	
	30.95	9.695	JIE3	Tyureki, Taiwan	7am-11:30pm intermittently.	
	30.96	9.69	TI4NRH	Heredia, Costa Rica	7:05-9am.	
	30.96	9.69	GRY	London, England	Nightly to 9, sometimes to 11pm.	
	30.96V	9.69	ZHP	Singapore, S.S.	9:05-10:20am.	
	30.96S	9.688	LRA1	Buenos Aires, Arg.	Tu/Th/Sat 9-10pm; Su. 7-8am.	
	30.98	9.685	TGWA	Guatemala, Guatemala	12:25-5:15, 11:52am-8pm to Europe	
	30.98S	9.685		Moscow, U.S.S.R.	4:40-9:40am; Wed/Sat 12:40-1:40	
	30.99	9.68	XEQQ	Mexico City, D.F.	am; Sun. 5:40-9:40am. (Su, 7-9pm.	
	30.99F	9.68	VLQ5	Sydney, Australia	10:30am-1, 2:30-3:30, 4-9pm (Sa/-	
	30.99N	9.68	EQC?	Teheran, Iran	10-11:30pm ex. Su; Su. 7pm-mid.	
	31.02	9.67	WRCA	New York City, N.Y.	4-6pm... NEWS- 5:30pm.	*
	31.02	9.67		Saigon, F. Indo-China	9:55am-12:45a.m.	
	31.03S	9.667	2RO9	Rome, Italy	7-8am to N.A.	*
	31.06	9.66	LRX	Buenos Aires, Argen.	Mondays 7-8am.	*
	31.06	9.66	HVJ	Vatican City	4pm-lam to Latin America.	
	31.09	9.65	12AA	Addis Abeba, I.E.A.	Heard daily to 10:30am.	
					1:01-6:30, 7:30-9pm.	*
					5:30-6:45, 9:15am-10pm.	
					Sun. 5-5:30am; Wed. 2:30-3pm.	*
					3:30-5:30am (Su. 2:30-5:30am), -	
					(8am-2:30p	

31.09	9.65	WCBX	New York City, N.Y.	10:30-11:30pm to Latin America.
31.09S	9.65	CR7BE	Lourenco Marques, Mozambique	7-8am to NA; 2-4pm *
31.11S	9.645	VLW2	Perth, W. Australia	6-11am.
31.11	9.645	LLH	Oslo, Norway	Daily to approx. 4:30pm.
31.12S	9.64	XGOY	Szechwan, China	9-9:40am to N.A.
31.12	9.64	CXA8	Colonia, Uruguay	5am-10:45pm; Sat. to lam.
31.14	9.635	KZRH	Manila, Philippines	4-11am...NEWS- 7:30, 8:45am.
31.14S	9.635	2RO3	Rome, Italy	1-2am, 12:07-2:35, 4:15-4:45, 6-7:30, 7:30-9pm to NA...NEWS-4:15, 4-10:30am. (7:30pm)
31.15	9.63	JFO	Taihoku, Taiwan	6-11pm. *
31.15N	9.63	HJCT	Bogota, Colombia	10:30am-12:30, 3:30-9:30pm.
31.17	9.625	CXA6	Montevideo, Uruguay	7-9:30am, 12-2, 6-11:30pm.
31.19	9.62	TIPG	San Jose, C.R.	11:45-2:50am ex. Sat; 3:30-7:20, 9-11:45am; Su. 3:30-11:45am inter.
31.21	9.615	ZRL	Capetown, So. Africa	2-4, 6:15-6:45, 8:15-8:45, 10:30-11:30am to N.A.
31.21S	9.615	VLQ	Sydney, Australia	11-4:50, 7pm-1am to N.A...NEWS-4:15, 8:15, 10:30pm, 12 mid.
31.22S	9.61	DXB	Berlin, Germany	7-8am, 12-1:30, 6:30-10:30pm. *
31.23V	9.607	HP5J	Panama City, Panama	3-7, 7-8:30pm (English) & 8:30-9pm (French) to NA...NEWS- 7pm.
31.25S	9.60	RAN	Moscow, U.S.S.R.	8-11:30pm.
31.25	9.60	CB960	Santiago, Chile	12:30-4:30, 5-6pm. *
31.27	9.595	EIRE	Athlone, Ireland	Su. 1:40-3, 7:15-8:15, 8:25-9:50pm to NA; Tu. 1:45-3:30, 7:30-8:30, 8:45-9:45pm to NA; Wed. 7:15-8:15, 8:25-8:40pm to NA.
31.28S	9.59	PCJ	Huizen, Holland	M/Th/Sa 6:30pm-2am; Wd. 9pm-2am. 1:30-3:30, 6:30am-12:30, 9:30-7-8am to NA. * (11:30pm.
31.28	9.59	WCAB	Philadelphia, Pa.	2:30-9, 9-9:30am.
31.28	9.59	VUD2	Delhi, India	12:57-1:45, 11:52am-1:25, 1:30-3:30, 3:50-6, 6:22-9:15, 9:37pm-6:30, 7:30, 9:45, 11pm. (10:30am
31.29N	9.587	VLQ5	Sydney, Australia	4:30-6pm ex. Su; Mon. to Fr. 5-2-3pm. *
31.32	9.58	VLR	Melbourne, Australia	Relays CBS 3pm-1am.
31.32	9.58	GSC	London, England	11am-4, 4:30-9:30pm. 9am-10:50pm. 11:30am-1:30pm.
31.25	9.57	KZRM	Manila, Philippines	8:45am-12 mid. (Sa; Sa 7pm-2a
31.25	9.57		, France	4:30-10:30am, 6-9, 10:30pm-2am ex.
31.35	9.57	WBOS	Boston, Mass.	1:30-3:30, 5-6am, 9:30-10:30pm.
31.35	9.57	CXA2	Montevideo, Uruguay	6:15-9:15pm to Latin America.
31.38	9.56	DJA	Berlin, Germany	12:05-2:30am, 4:50-10:50pm.
31.38	9.556	OAX4T	Lima, Peru	4:35-5:05pm; 8-9pm to NA...NEWS
31.38	9.555	KEFA	or KETA, Monterrey, Mexico	4-5am. * (8pm
31.40	9.55	YDB	Soerabaja, Java	7-9:30am, 2-4pm.
31.40	9.55	VUB2	Bombay, India	Schwarzenburg, Switzerland Mon/Wed 8:45-10:15pm. *
31.41	9.55	WGEA	Schenectady, N.Y.	Schenectady, N.Y. 13-6pm to Europe, 6-11:45pm or 12
31.45	9.54	DJN	Berlin, Germany	San Francisco, Calif. 12-3, 7am-12 noon to Asia.
31.47S	9.535	SBU	Motala, Sweden	2-4am, 10pm-2am. (am
31.47	9.535	VPD2	Suva, Fiji's	5-10am, 11:30pm-1:15am; Su. 5-930
31.47	9.535	JZI	Tokio, Japan	4:30-7:45 to SA; 8pm-12:30am to NA...NEWS- 8:03, 11:30pm, 12:15am
31.47N	9.535	HEC	Schwarzenburg, Switzerland	5:15-9, 11am-noon, Su. 6-9, 10:40a
31.48	9.53	WGEO	Schenectady, N.Y.	8-9:30, 9:30-11pm to NA (-1:30pm
31.48	9.53	KGEI	San Francisco, Calif.	Noon-4:30, 7pm-12 mid.
31.48	9.528	VUC2	Calcutta, India	12:57-3:15, 9-11:30am, 1:45-3:30, 3:50-6, 6:22-9:15, 9:37pm-12:30am
31.50	9.525	ZBW3	Hong Kong, Hong Kong	12:43-2, 11:20am-4:20pm, 8-9pm.
31.50S	9.52	TPC-	Paris, France	7:45am-12:30am. NEWS- at 4pm
31.50S	9.52	ZRG	Johannesburg, S.Afr.	5:30-10am, 6-11pm...NEWS- 7:30am
31.51	9.52	OZF	Skamlebak, Denmark	
31.52	9.517	XEDQ	Guadalajara, Mexico	
31.55	9.51	GSB	London, England	
31.57S	9.505	YUC	Belgrade, Yugoslavia	
31.57	9.503	XEWW	Mexico D.F., Mexico	
31.60	9.492	KZIB	Manila, Philippines	

31.65	9.48	VONG	St. John's, Nfld.	8:30am-1:30pm; 4:30-9:30pm irreg
31.70S	9.465	TAP	Ankara, Turkey	10:30am-4:30pm... NEWS-2:15pm
31.77	9.445	HCODA	Guayaquil, Ecuador	8:15-10:15pm ex. Sundays.
31.78S	9.44	COCH	Havana, Cuba	6:40am-12 mid.
31.91	9.40	OAX5C	Ica, Peru	7-11:30pm.
32.00V	9.375	COBC	Havana, Cuba	7am-12 mid.; Sun. 7am-10:30pm.
32.11	9.345	HBL	Geneva, Switzerland	Mon/Wed 8:45-10:15pm to N.A.
32.12	9.34	OAX4J	Lima, Peru	Noon-3, 5pm-12 mid.
32.28	9.295	HI2G	Trujillo City, D.R.	6:40-8:40, 11:40am-2:10, 3:40-4:40
32.44S	9.234		Bucharest, Roumania	12:02-7pm. * (pm
32.52N	9.225	COCY	Havana, Cuba	8am-12 mid.; Sun. 8am-10pm. *
32.59N	9.205	PYA2	Rio de Janeiro, Brazil	5-6pm. *
32.61	9.200	COCX	Havana, Cuba	8am-12 mid.
32.64	9.19	HC2ET	Guayaquil, Ecuador	8-10pm; Sun. 8:30-10:30pm.
32.70V	9.175	HC1GQ	Quito, Ecuador	Mon/Wed/Sat 9-10:30pm.
32.86J	9.130	HC2CW	Guayaquil, Ecuador	11am-1, 7-11pm. *
32.95S	9.125	HAT4	Budapest, Hungary	7-8:30pm; Sat. 6-7:30pm.
33.22S	9.03	COBZ	Havana, Cuba	7:45am-12 mid; Su. 7:45am-1am.
33.43	8.96	TPZ2	Algiers, Algeria	Tuesdays 12:30-1:30pm.
33.48	8.96	COKQ	Santiago, Cuba	6:42am-12 mid. irreg.
33.98	8.83	COCQ	Havana, Cuba	6:50am-1am.
34.48S	8.70	COCO	Havana, Cuba	7:30am-12 mid.
34.62	8.665	COJK	Camaguey, Cuba	11:30am-12:30, 3:30-6, 8-8:30pm.
36.59	8.20	PSK	Rio de Janeiro, Brazil	5:55-7pm.
36.86N	8.14	ZIO	Nassau, Bahamas	Testing 7-9pm. *
37.50	8.00	HCL1ETC	Quito, Ecuador	Sat. 8-10:30pm. Not heard lately
37.65C	7.968	HSP6	Bangkok, Siam	7 or 8 to 11am. *
38.00	7.894	YSD	San Salvador, El Salvador	7-10:30pm.
38.12	7.87	HCL1RB	Quito, Ecuador	8:30-11:30pm.
38.20	7.854	HC2JSB	Guayaquil, Ecuador	11am-2, 4-11pm.
38.25S	7.85	ZAA	Tirana, Albania.	6:30-8am (Su. 6:30-8:30am). *
39.16	7.66	YNDG	Leon, Nicaragua	8:30-9:30pm ex. Sun.
39.39	7.52	KKH	Kahuku, Hawaii	Irreg.
39.89S	7.52	RKI	Moscow, U.S.S.R.	3-6pm (4:30-5 & 5:30-6 English)
40.00	7.50	VQ2CM	Luanshya, N. Rhodesia	Mon/Fri. 12 noon-12:30pm.
40.05	7.49	EAJ43	Tenerife, Canarias	7-8pm.
40.30	7.445	FG8AH	Pointe-a-Pitre, Guadeloupe	6-7:10pm; Su. 9:30-11am.
40.65	7.38	XECR	Mexico D.F., Mexico	Sundays 6-7pm to N.A.
41.01S	7.31	VIG	Port Moresby, Papua	March 16/30 3-5am.
41.13	7.295	JIE	Tyureki, Taiwan	9:05-10:20am.
41.19	7.284	YN1IP	Managua, Nicaragua	Sundays 10-11am.
41.21	7.28	TPB25	Paris, France	1-4, 10:15am-4:15pm to Asia/Afr.
41.32	7.26	CSW8	Lisbon, Portugal	Tues/Thurs/Sat 5:05-6pm.
41.32	7.26	OZU	Skamlebak, Denmark	2-5pm.
41.34	7.257	JVW	Tokio, Japan	2-4pm to Europe. (41
41.38	7.25	YDA	Bandoeng, Java	10:30pm-2am; Sat. 7:30pm-2am.
41.49	7.23	GSW	London, England	5:42-11:30am to Europe.
41.55	7.22	YDX	Medan, Sumatra	6-10:30am; 10:30pm-2am.
41.55	7.22	EAJ9	Malaga, Spain	4-6pm.
42.24	7.10	FO8AA	Papeete, Tahiti	Tues/Fri 11pm-12 mid.
42.80	7.01	XPSA	Kweiyang, China	5:30-11am, 5-6pm.
43.80V	6.85	XOJD	Hankow, China	6-8:35am.
43.82	6.847	YNOP	Managua, Nicaragua	8-9:30pm, Sun. 2-3pm.
44.05	6.81	HIH	San Pedro, D.R.	7-8:30pm; Sun. 5:20-6:40pm.
44.12	6.80	PZH	Paramaribo, D. Guiana	Tues/Fri 5:40-8:40pm; Su. 8:40-10:40am; 1st & 3rd Thurs. 6:40-6:40-10:40pm. (8:40p
44.38	6.76	YNRF	Managua, Nicaragua	
44.38	6.76	HI7P	Trujillo City, D.R.	7:10-8:40pm; Sun. 9:40-10:40pm.
44.58	6.73	HI3C	La Romana, D.R.	4:55 to 6 or 8pm.
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-12 mid.
45.06	6.66	HI5G	Trujillo City, D.R.	To 8:40pm.
45.22	6.635	HC2RL	Guayaquil, Ecuador	Sun. 5:45-7:45 & Tu. 9:15-11:15pm
45.25	6.63	HIT	Trujillo City, D.R.	12:10-1:40, 4:40-8:40pm.
45.29	6.625	PRADO	Riobamba, Ecuador	Thursdays 9-11pm. Who hears?

45.39	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, 9:40-11:40pm.
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, 6-8pm ex.Sundays.
46.26	6.485	HILL	Santiago, d.l.c., D.R.	5:30-7:30pm ex.Sundays.
46.46V	6.457	TGWB	Guatemala, Guatemala	7:45-9, 12:45-3:45, 7:30pm-12:15 am, Sun. 10:30am-5:15, 7pm-12 mid.
46.48V	6.455	COHI	Santa Clara, Cuba	6:42am-12:15am.
46.66SF	6.43	HILS	Santiago, D.R.	5:40-9:10pm ex.Sundays.
46.88	6.40	TGQA	Quezaltenango, Guatemala	8-11pm; Sat. 8pm-1am, Sun.
46.91N	6.396	COX7	Havana, Cuba	2-3, 6-10:30pm. * (7am-3:00pm
46.92	6.395	HI9B	Santiago, D.R.	7:40-8:40pm. (hearing?)
46.99	6.384	ZIZ	Basseterre, St. Kitts	4-4:45pm; Wed. 7-7:30pm. Who is-
47.02	6.38	TIWS	Puntarenas, C.R.	5-7, 7:30-10pm; Sun. 5-6pm.
47.06S	6.375	COCQ	Havana, Cuba	6:50am-1am.
47.22	6.355	HRP1	San Pedro Sula, Honduras	6-7:30am, 2-4, 6-9:30pm.
47.28	6.345	HH3W	Port-au-Prince, Haiti	1-2, 7-9pm; Sun. 5-8pm.
47.32	6.34	HILX	Trujillo City, D.R.	8:10-10:10pm; Sun. 7:40-9:40am.
47.36	6.335	OAX1A	Chiclayo, Peru	8-11pm.
47.39S	6.33	COCW	Havana, Cuba	7:55am-12:15am; Sun. 9:55am-12:15
47.51	6.315	HILZ	Trujillo City, D.R.	11:40am-12:40pm; 5:10-7:40pm ex
47.62V	6.30	OAX4G	Lima, Peru	6-12 mid. (Sun
47.69	6.29	HILG	Trujillo City, D.R.	6:40-8:40, 11:40am-2:10, 3:40-9:40
47.96	6.255	CP12	La Paz, Bolivia	7-9pm. (pm
48.04S	6.245	HILN	Trujillo City, D.R.	5:10-9:40 or 10:10pm.
48.11	6.235	HRD	La Ceiba, Honduras	8-11pm; Sun. 4-6pm.
48.27	6.215		Saigon, F. Indo-China	7:30-9:45am, 11:45pm-1am.
48.39	6.20	CP5	La Paz, Bolivia	6:30-11pm.
48.43	6.195	HI2D	Trujillo City, D.R.	5:10-7:10pm.
48.44S	6.193	TG2	Guatemala, Guatemala	7:30-10am, 6-11:30pm, Sa. 6pm-3am, Sun. 3-8pm. For IDA Sun. 1:30am.
48.47	6.19	HILA	Santiago, D.R.	10:40am-1:40, 6:40-9:40pm.
48.47	6.19	HVJ	Vatican City	1:30-3:30pm ex Sun; Sun. 9-9:30pm to Canada; Su/Thur 9:30-10p.m (NA)
48.51	6.185	TIRCC	San Jose, C.R.	Tu/Thurs/Sat 6-7pm, Sun. 8-10pm.
48.54S	6.18	LRA2	Buenos Aires, Arg.	6-9pm; Sat/Sun 7-9pm. *
48.54	6.18	XEXA	Mexico D.F., Mexico	8-11am, 2:30-4, 7:30pm-12:30am.
48.58	6.175	HI4V	S.F. de Macoris, D.R.	5:10-7:40pm; to 10pm irreg.
48.62F	6.17	WCBX	New York City, N.Y.	12 mid.-2am to S.A. *
48.66	6.165	TILS	San Jose, C.R.	Noon-2:30, 6-11pm.
48.70S	6.16	HJCD	Bogota, Colombia	To 11pm; Sat. to 11:40pm.
48.78	6.15	YSW	San Salvador, El Salvador	Nightly to approx. 9:15pm.
48.78	6.15	CJRO	Winnipeg, Canada.	8:30pm-1:30am...NEWS- 10:45pm.
48.81S	6.147	ZTD	Durban, So. Africa	11:45pm-3:15am, Su. 11:55pm-3am.
48.82	6.145	HJDE	Medellin, Colombia	9:30am-1pm, 5-11:30pm.
48.86	6.14	WPIT	Pittsburgh, Pa.	9-10pm, 11pm-1am irreg.
48.86S	6.14	KZRF	Manila, Philippines	4:30pm-11am; Su. 6pm-11am.
48.88S	6.137	CR7AA	Lourenco Marques, Mozambique	12-1, 4:30-6:30, 12-4pm, Su. 5-7, 10am-1:15pm.
48.93S	6.132	COCD	Havana, Cuba	9am-10:30pm; Sun. 5:30-8pm.
48.93	6.132	CHNX	Halifax, N.S., Canada	6:45am-11:15pm; Sa. 8am-11pm, -
48.94	6.13	LKJ	Jeloy, Norway	Noon-6pm irreg. (Su. 12noon-11p
48.94	6.13	VP3GB	Georgetown, B. Guiana	10:15-11:15am, 3:45-7:45pm ex.
48.98	6.125	MTCY	Hsinking, Manchukuo	4-9am. (Sun
49.00	6.122	FK8AA	Noumea, New Caledonia	2:30-3:30am ex.Sundays.
49.00V	6.122	HP5H	Panama City, Panama	6-10:30pm; to mid. irreg.
49.04	6.117	XEUZ	Mexico D.F., Mexico	9am-1, 7pm-2am. (6am
49.05	6.116		Saigon, F. Indo-China	12:15-12:45, 6-10:15am...NEWS-
49.08	6.112	HIGH	Trujillo City, D.R.	5-8:50pm.
49.10	6.11	GSL	London, England	6:22-9:15, 9:37-12:30am to N.A.. ...NEWS- 6:30, 7:30, 9:45, 11pm.
49.14	6.105	HJFB	Manizales, Colombia	5:30-10pm ex.Sun.
49.18	6.100	YUA/YUB	Belgrade, Yugoslavia	12:43-2, 11:20am-1, 2:20-4:20pm
49.18S	6.100	WNBI	New York City, N.Y.	8:45pm-1am to S.A. irreg. *
49.18	6.100	ZHJ	Penang, S.S.	6:40-9:40am ex.Sun. & irreg.

12	49.20S	6.097	ZRK	Capetown, So. Africa	12-4pm; Sun. 12-3pm.
	49.20S	6.097	ZRJ	Johannesburg, So. Afr.	3:15-7am; Su. 3-7am.
	49.25	6.09	KZRH	Manila, Philippines	4-11am.
	49.25	6.09	ZNS2	Nassau, Bahamas	8-9, 1:30-2, 7-9pm... NEWS- 8:15a, To 9:30pm. * (7:30pm).
	49.25S	6.09	XEBF	Jalapa, Mexico	12:20-5pm.
	49.30S	6.085	ZAA	Tirana, Albania	6-9pm irreg. *
	49.30	6.085	ZRO1	Rome, Italy	5:45-6:15, 11:30am-2:30 (Su. to 2 pm), Tues/Thurs 8:30-9:30am. *
	49.32S	6.083	VQ7LO	Nairobi, Kenya	Mon. 8:30-10am.
	49.34	6.08	CRY9	Macao, Macao	1-3am ex. Mondays.
	49.34	6.08	CKFX	Vancouver, Canada	7am-12 mid.
	49.34	6.08	OAX4Z	Lima, Peru	7am-12:30am; Sun. 10am-11pm.
	49.42	6.07	CFRX	Toronto, Canada	4:35-5:05pm.
	49.46	6.065	SBO	Motala, Sweden	ear 12:30-12:45, 10-11am, Su. 2:30- Su/Tu/Fri 6:30-11pm, Wd. - (4am 6:30-8:30pm.
	49.48	6.063		Tananarive, Madagascar	Su. 8am-6:30pm, M/Th 5:45am-2am, Tu/Wd/Fri 5:45am-5:30pm, Sa. 5:45 -11pm, Su. Tu/W/Fr 11pm-2:30am.
	49.50	6.06	WCAB	Philadelphia, Pa.	Daily to 10am. *
	49.50	6.06	WLWO	Cincinnati, Ohio	9am-noon, 6:30-10pm.
	49.54N	6.056		Rangoon, Burma	12:25-5:15, 11:52am-8pm to- 7-9pm. (Europe.
	49.55	6.055	HJFA	Pereira, Colombia	7pm-1am.
	49.56	6.05	GSA	London, England	5:30-8:30pm ex. Su.; Su. 2-9pm.
	49.56J	6.05	HP5F	Colon, Panama	1-3, 9pm-1am.
	49.63	6.045	XETW	Tampico, Mexico	5:30-10am, 6-11pm. .
	49.67	6.04	WRUL	Boston, Mass.	10:30am-2, 6-10pm.
	49.67	6.04	WDJM	Miami, Florida	10am-2am.
	49.67	6.04	KZIB	Manila, Philippines	Nightly to 11:40pm.
	49.73	6.033	HP5B	Panama City, Panama	1-7, 7-8:30pm to NA, 8:30-9pm....
	49.75	6.03	CFVP	Calgary, Alta., Canada	10pm-1am. NEWS- 7pm.
	49.75	6.03	XEKW	Morelia, Mexico	11:30am-4:25, 7pm-1am to N.A....
	49.75	6.03	RV96	Moscow, U.S.S.R.	NEWS- 8:15, 10:30pm, 12 mid.
	49.81	6.023	XEUW	Moscruz, Mexico	7:10-8:55, 11:40am-1:40, 4:40-640 6-11:30pm. (p
	49.83S	6.02	DJC	Berlin, Germany	4-9pm.
	49.83	6.02	HI3U	Santiago, D.R.	7am-1:30, 4-8:30pm.
	49.86	6.017	HJCX	Bogota, Colombia	7:45am-1am, Sun. 9am-11:15pm.
	49.92	6.01	PRA8	Pernambuco, Brazil	6:30-10am, 9-11pm; Sa. 9:30-11:30p
	49.92	6.01	CJCX	Sydney, Nova Scotia	10am-1:45am.
	49.92	6.01	CFCX	Montreal, Canada	7-9am, 11:30am-1, 6-11pm.
	49.94	6.007	XYZ	Rangoon, Burma	6:30-9pm.
	49.94S	6.007	ZRH	Johannesburg, So. Afr.	10:45am-3; Su. 12:15-3pm.
	49.94	6.005	XEBT	Mexico City, D.F.	10am-1:45am.
	49.94	6.005	HP5K	Colon, Panama	7-9am, 11:30am-1, 6-11pm.
	50.13S	5.985	HH2S	Port-au-Prince, Haiti	6:30-9pm.
	50.21	5.975	CAX4P	Huancayo, Peru	9-11pm.
	50.22	5.973	VONG	St. John's, Nfld.	4:30-9:30pm.
	50.34	5.960	H11J	San Pedro, D.R.	11:40am-1:40, 6:10-8:40pm.
	50.54F	5.936	PJCL	Curacao, D.W.I.	6:36-8:36pm; Su. 10:36am-12:36pm
	50.51	5.94	OAX2A	Trujillo, Peru	Tues/Wed/Sat/Sun 7-10pm.
	50.95	5.90	ZNB	Mafeking, Bechuanaland	1-2:30pm; 6-7am Ex. Sundays.
	51.07	5.875	HRN	Tegucigalpa, Honduras	6-11pm.
	51.24	5.855	TGX1	Guatemala, Guatemala	Nightly to approx. 11:30pm.
	51.46	5.83	TIGPH	San Jose, Costa Rica	7-10pm.
	51.46	5.83	TIX	San Jose, Costa Rica	10pm-12 mid.
	52.10	5.758	YNJAT	Leon, Nicaragua	7-10:20pm.
	52.40S	5.725	HCLPM	Quito, Ecuador	Mon/Tues/Thurs/Sat 8-10pm.
	58.31	5.14	PMY	Bandeng, Java	5:30am-noon.
	59.58V	5.035	YV5RN	Caracas, Venezuela	4-11:30pm; Su. 8:30-11:30am, 3:30- 5:30pm. (10:30p
	59.76S	5.02	YV4RQ	Puerto Cabello, Venez.	3:30-10:15pm; Sun. 8am-10:30pm.
	59.88S	5.01	YV5RM	Caracas, Venezuela	10am-9:30pm.
	60.12	4.99	YV3RX	Barquisimeto, Venez.	5:30-10pm.
	60.31	4.975	YV1RJ	Coro, Venezuela	7:30am-12:30pm.
	60.48	4.96	VUD2	Delhi, India	4:30-9:30pm or later.
	60.48	4.96	YV5RS	Caracas, Venezuela	

60.57S	4.953	YV4RO	Valencia,Venezuela	Noon-1, 6-9:30pm.
60.67N	4.945	HJCO	Barranquilla,Colombia	7:30-10pm (sa.to 11:40pm) *
60.73	4.94	YV5RO	Caracas,Venezuela	Signs-off at 10pm.
60.85	4.93	YV4RP	Valencia,Venezuela	5-10pm.
60.92	4.924	HJAP	Cartagena,Colombia	9am-1:30, 7-10:15pm Sundays.
60.98	4.92	YV5RH	Caracas,Venezuela	6:30-7:30,10:30am-1,3:30-10pm.
60.98	4.92	VUM2	Madras,India	6:30am-noon.
61.10S	4.91	YV1RY	Coro,Venezuela	6:30-10pm ex.Sundays.
61.16	4.905	HJAG	Barranquilla,Colom.	11am-11pm; Sun.11am-8pm.
61.22	4.90	YV6RT	Bolivar,Venezuela	5:30-9:30pm.
61.29	4.895	HJCH	Bogota,Colombia	11:30am-2, 6-11pm.
61.35	4.89	YV1RX	Maracaibo,Venez.	10:30am-1:30,4:30-10:30pm.
61.42S	4.885	HJDP	Medellin,Colombia	8am-2, 6-11pm.
61.48N	4.88	YV1RM	Maracaibo,Venezuela	Signs-off at 9:30pm. *
61.48	4.88	VUB2	Bombay,India	7:30am-12:30pm.
61.54	4.875	HJ6FAH	Armenia,Colombia	8-11am, 6-10pm.
61.60	4.87	YV2RN	San Cristobal,Venez.	11:30am-12:30pm,6-9pm ex.Sun.
61.67	4.864	HJFK	Pereira,Colombia	6:05-10:30pm.
61.73	4.86	YV1RL	Maracaibo,Venez.	11am-1pm, 4:30-10:30pm.
61.88	4.85	YV1RZ	Valera,Venezuela	11:30am-1, 5:45-8:45pm.
61.98	4.84	VUC2	Calcutta,India	6:30am-noon.
61.98	4.84	YV4RX	Maracay,Venezuela	Nightly to 10pm.
62.05	4.835	HJAE	Cartagena,Colombia	7am-6, 7-10:30pm.
62.11	4.83	YV5RU	Caracas,Venezuela	5-9:30pm; Sun. to 10:30pm.
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	Signs-off at 11pm.
62.38	4.81	YV1RU	Maracaibo,Venezuela	10:45am-12:45, 4:30-10:30pm.
62.44	4.805	HJDU	Medellin,Colombia	7-8:50pm.
62.50	4.800	VP5PZ	Kingston,Jamaica	Fridays 5:30-6:30pm.
62.53	4.798	YV1RV	Maracaibo,Venezuela	10:45am-12:45, 4:30-10:30pm.
62.57	4.795	HJDX	Medellin,Colombia	5:00-10:35pm.
62.65	4.788	YV5RY	Caracas,Venezuela	5-10:30pm.
62.70	4.785	HJAB	Barranquilla,Colombia	5-10pm.
62.79	4.778	YV1RO	Maracaibo,Venezuela	7-10:05pm. *
62.87	4.772	HJGB	Bucaramanga,Colombia	6-10pm.
62.96V	4.765	YV1RT	Maracaibo,Venezuela	5:30-9:30pm. *

## ULTRA HIGH FREQUENCIES

-Perry Ferrell-

**FREQUENCY MODULATION.**- WLXOJ (43),Boston (2-50kW); WLXPW (43.4),Meriden, Conn,and WEXMN (42.8),North Alpine,N.J.,10kW,are outstanding F-M stations... **NEW:** Zenith Radio Corp. (42.8), lkW,Chicago, Ill...W2XQR (43.2),Long Island City,lkW,operates 4pm-12 mid...W2XDV (42.3), operates Mon/Tues/Thurs 6-10pm, and Wed/Fri.1-3pm...W6XDA (42.3),Los Angeles,operates Sun/Mon/Fri 3-11pm and Tues./Sat 12 noon to 8pm...W9XHW (42.3),Minneapolis,operates 9am-12:30am... W9XAO (42.6),Milwaukee,Wisc. is on the air...The FCC has received applications for new F-M stations in 12 cities. (Evanovsky,Stark,CAM,FCC,Ferrell). . **BROADCAST** (11 meter).- The following stations were deleted in 1939; W9XUP (26.15), W9XTC (26.05), W9XUY (31.60), W8XOY (31.60), W8XNO (26.10), W8XAI (31.60), W3XEX (26.05), W6XKG (25.95); W2XQO (25.55), New York, is also off the air now (Evanovsky,Ferrell)...W4XA (26.15),Nashville,heard Feb.13,8:30-9 pm, on short skip (CAM-11)...W5XAU (26.135),Oklahoma City,Okla, heard R5-7, Feb.13,8:30-9pm, on short skip (CAM-11); heard with weak signs (Ferrell-N.J.) heard on Fri.afternoon Feb.9 (Larsen-N.Y.); heard after 5pm with excellent signs (Campbell-Pa.)...W5XD (25.3),Dallas, Texas,very good signs 12:30-2:30pm (Barneson-Calif; Evanovsky-N.Y.)...W2XJI (25.3),N.Y.C.,being heard good here (Amers-Calif.)...Is W9XJL still on air?...W9XBA, owned by WHB Broadcasting Co. of Kansas City,Mo,has been granted license to operate with 100w, on 26.1.... **COMMERCIAL.**- KQBV (31.9),Los Angeles Co. Sheriff's Office, heard here every afternoon with loud signs (CAM-11)...WQMA (33.10), Miami, police,heard on short skip (Ferrell-N.J.)... **TELEVISION.**- W2XAB (55.75),CBS,New York City,is operating regularly...W9XZV,operated by Zenith of Chicago,telecasts Mon/Wed/Fri 8:15-10:15pm & daily 1-1:30pm (video 45.25/sound 49.75). Station will soon be relocated so that aerial will be 600 feet above ground (Zenith).

International

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BLOOMINGTON, ILLINOIS, U. S. A.

Ax'ers Alliance

CHARLES A. MORRISON  
EDITOR

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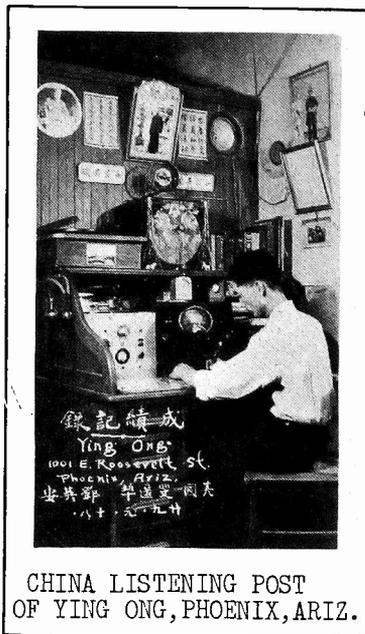
March, 1940

Number 3

**ARE YOU A GOOD IDA MEMBER?**

Do you pay your renewal promptly?...Do you sell IDA to your radio friends?...Do you send in dx tips and station data?...Do you listen to, and report on, all possible dx programs?...Do you remit constructive suggestions for bettering your club and its publications?

Don't let your club down- merely because poor weather conditions and war have slightly affected dx reception. Better days are coming and you may then want the advantages of DX clubs and DX-publications. Most dx'ers have come to accept without much appreciation the fact that dx organizations are non-profit making, and take a lot of time and hard work for which little in the way of thanks is forthcoming. Your attitude NOW may determine the future of DX clubs and dx'ing as a hobby. There is plenty of dx and interesting stations to be heard if you get right in and dig it out. Leading dx'ers are turning in newsy items as usual. DX'ers, don't lose the pioneering spirit, patience and real love of the sport that all early dx'ers had. Charles A. Morrison



CHINA LISTENING POST  
OF YING ONG, PHOENIX, ARIZ.

**—NEW MEMBERS—**

J. F. Morris, Toronto, CANADA...L.T. Jones, Los Altos, Calif...R.A. Seaton, Manhattan, Kansas...H. Baron, Chicago, Ill...Geo. Viliiani, Santa Monica, Calif...E. Andre Van Haelst, Boston, Mass...Robert Camp, Moosic, Pennsylvania.

**— CALENDAR FOR IDA LOCAL CHAPTERS—**

BETA (N.Y.C.)-Meetings temporarily suspended. Hope to resume regular meetings in near future...DELTA (Lansing area)-Next meeting Fri., April 5. For details contact J. DeMyer, 2230 Maplewood, Lansing, Mich...LAKES (Mpls area)- For exact date of March meeting contact C. Eder, Willmar, Minn...SO. JERSEY (Philadelphia area)-The chapt. now has its own club house where members can play pool, darts, shuffle board, cards etc., at any time of the day or night. Location is 104 Broadway, Camden, N.J. Regular dx meetings are held on Saturday nights and all dx'ers are welcome...SO. CALIF. (L.A. area)- Next meeting Sat., March 30. For details contact Hal Klein, at 1427 Maltman Ave., L. A...WINDY CITY (Chicagoland)- Next meeting on March

13 (then April 10), at the Central Y.M.C.A., 19 So. La Salle St., Chicago. All dx'ers are cordially welcome.

**— IDA NORTH AMERICAN DIRECTORS —**

2nd Dist.- Aug. Balbi, 1328 Angelus Ave., Los Angeles (for Western U.S.A.)

4th Dist.- Chas. Trezise, 7638 Lafayette Ave., Chicago, Ill (for Ill, Wisc., Minn. Iowa, Mo, La, Ark, Texas, Okla, S.D., and N.D., Kans, and Neb.)

5th Dist.- Geo. Magee, 3190 Cliff Road, Birmingham, Alabama (Ala, Miss, Ga, Fla., Tenn, S.C. and N.C.)

6th Dist.- John DeMyer, 2230 Maplewood, Lansing, Mich. (Mich, Ind, Ohio, Pa, N.Y., Ky, Va, W. Va, Md, Dela, D.C., N.J.)

7th Dist.- Desmond Callan, Green St., Readville, Mass. (Mass, Conn, R.I., Vt, Me, N.H., Nfld, N.B., N.S., P.Q., Ont.)

These directors keep all dx records for their respective districts and your VIC/VAC ratings should be sent to them. They will also aid IDA members in any way possible, and are official executives in any matters pertaining to the I.D.A. in their districts. Keep in close touch with your director. Help build up your district

# BROADCAST STATION NOTES AND DX TIPS <sup>15</sup>

AUSTRALIA 2KO (1410) and GML (1130) have both installed new 500 watt transmitters. 5DN (960) has modernized its 500-watt xmtr. 7DY (1440) is now being heard on 1440. An unknown Aussie is being heard on 860 under 7HO of Hobart. March should bring peak reception from Australia for listeners in N.A. (Breen, ADXC)

ARGENTINA LRA (750) is on almost every morning (Siringer-Ohio)

CHINA NEW: XHHR (840) and XQSS (1320), both 100w, and in Shanghai. These stations take the place of XHHU and XHHT which are off air (Breen)

COLOMBIA HJAN (1190) is best heard Colombian (Siringer-Ohio)

COSTA RICA TIPG (625) is very well heard throughout U.S. (Seth-N.Y.)

CUBA Freq. changes:-- CMBL to 720; CMK to 750; CMHO to 1020 and CMKW to 1050 kcs...CMBG and CMBC are to operate jointly on 1180, and CMCX and CMCH are to share time on 1050 kcs. (Radio Guia, Com. Bul.)

ECUADOR HJCB (1105), HJ CZ (1042) and HJCC (870), are all being heard when conditions are favorable (NRC)

MEXICO XERA shifted to 960, and XEAW shifted to 1050, on Feb. 8 (Callan) ...XELO is still on 670 but has 50 kw. power. XEY, San Luis, Sonora, has moved to 1450 kcs. (Saunders-Calif.)

MONTREAUX WAVELENGTH PLAN.- The new allocation for all broadcasting stations in the European zone was supposed to go into effect on March 3-4, 1940, but due to unsettled conditions we doubt if many countries will bother with even trying to make the frequency changes at this time- Ed.

N.Z. 5ZB (1360), "The Exhibition Station", at Wellington, 250w, will be on the air for the next few months, daily 1:30-5am EST (Breen). 2YA (570), 1YA (650), 3YA (720) and 4YA (790) are all being heard well now in the United States, peaking near 5 a.m. (Breen, Seth, Siringer, NRC)

PERU The broadcasting stations of Peru are as follows: In Lima, OAX4A (854), 10kw; OAX4B (1200), 250w; OAX4E (960), 200w; OAX4J (1320), 250w; OAX4L (1250), 200w, and OAX5B (1280), 200w, in Ica. (Com. Bul.)

P.I. KZRH, "The Voice of the Philippines", Manila, has shifted to 710;

U.S.A. Construction permits have been granted for the following stations: Akron, Ohio (1530), 1kw; Opelika, Ala. (1370), 100/250w; Martinsville, Va. (1420), 100/250w; Scranton, Pa. (1370), 100/250w; Erie, Pa. (1500), 100/250w; Logan, W. Va. (1200), 100w day (FCC)...The FCC has revoked the licenses of Texas stations KSAM, Huntsville; KAND, Corsicana; KRBA, Lufkin; KTBC, Austin, and KNET, Palestine, effective Feb. 24...The FCC will investigate the management contracts under which the following stations operate: WBZ, KYW, KDKA, WGY, WESG, WWL, and WAPI...The FCC has turned certain facts concerning the Tums "Pot o' Gold" program over to the Department of Justice (FCC).

VENEZUELA Four Maracaibo stations take the air around 5:30 a.m. EST, name ly: YVIRE (1158); YVIRF (1120), YVIRK (1250) and YVIRA (1300) (Siringer-NRC)

## ==NORTH AMERICAN REGIONAL BROADCAST AGREEMENT==

By far the most important shake-up that has ever been made in North American broadcast frequencies will be effected sometime within the next few months, probably by July 1, 1940. The new broadcast agreement which has been ratified by Canada, Cuba, Haiti, Mexico and the United States, provides for the allocation of the broadcast facilities from 550 to 1600 kcs. between these countries. Some 730 stations in the United States, particularly those above 720 kcs. will be affected. The main objective is to set up a sound technical plan whereby mutual interference will be materially reduced. From a dx stand point many stations will be heard after the new agreement goes into affect that were formerly covered up, and many stations will be blotted out then that are in the clear now. As a preliminary to reallocating channels, the FCC has ordered all licenses to terminate as of next August 1., so that the new set-up can be started with an entirely clean slate all around. As soon as the new list of frequencies is available in final form it will appear in the Globe Circler.-Ed.

PERSONAL.- John May of Pittsburgh, Penna., now has 150 VIC, 116 VAC..... Chas. Guilbert, stationed on the Maginot Line, was allowed to spend the Christmas holidays with his family in Paris...Eric Butcher, on the S/S Nemaha, carrying a cargo of steel, is enroute to Lourenco Marques, and South Africa.

# SHORT-WAVE NOTES

EDITOR: Chas.A.Morrison; ASSOCIATE EDITOR: M.W.Soplop; U.H.F. EDITOR: Perry Ferrell; FREQUENCY CHECKING EDITORS: R.B.Oxrieder and John Larsen; AMA-TOURING EDITORS: Roger Legge and Roy Waite; IDA PROGRAMS DIRECTOR: Herb Tucker.

PRESS DEADLINES: For May Globe Circler: April 16; For May Stop Press Sheet: April 29; For May Ama-Touring: April 27 (For Ama-Touring, send news-items in to Roger Legge, 20 Beethoven Street, Binghamton, New York).

MAKE OUT SHORT-WAVE REPORTS AS FOLLOWS: Double space lines...USE ONE SIDE OF PAPER ONLY...group items by continents and state time used...Items in order of importance are: NEW stations; exact frequencies or frequency changes; exact schedules or addresses; identifying signals, and unusual receptions. RUSH IMPORTANT ITEMS BY FASTEST MAIL. FOUR STAR items denote exceptional merit. EACH FIVE STAR ITEM pays its contributor \$1.00.

Herb Allen of Venice, California, is now eligible for the IDA 100 CLUB, with a total VIC (Verified all countries) of 101.

## EXPEDITION NOTES

BYRD ANTARCTIC EXPED.: KC4USC (14.148; 14.248; irreg. on 14.39), 100w, aboard the snow cruiser, which is at present 6 miles from the West Base Camp, operated by Felix Ferranto, is on air from as early as 7:00 p.m. to as late as 8:00 a.m. EST, but regular operating hours are 10 p.m. to 1:30 a.m. EST. Best reception from KC4USC is had at from 11 p.m. to 1 a.m. EST. KC4USC reports that the 10 meter band is open for W6 and W9 from 6 to 8 p.m. and that best W reception on 20 meter band is obtained from 5 to 7 a.m. EST. KC4USC uses a V beam directed to Eastern N.A. Dorothy Hall, W2IXY, was the first YL to contact KC4USC. (\*\*W2IXY, Soplop, Kernan, E. Roberts, Underwood)... KC4USC (14.148), 150w, in the Snow Cruise, works Dorothy Hall, W2IXY, Springfield Gardens, Long Island, New York, Wednesdays at 12:30 a.m. EST.-(W2IXY)... RCA transmitters at Rocky Point have received licenses to communicate with Byrd commercial stations KRTA, snow cruiser, and KRTK, West Base Camp, so be on the lookout for these stations on the following frequencies: 6.425, 9.135, 11.06, 12.862, and 17.31 mcs.

FAHNESTOCK SOUTH SEA EXPED.: RCA transmitters at Rocky Point, N.Y.; Boli nas, Calif., and Kahuku, T.H., have received licenses to communicate with KFAH (6.425-9.135-11.06-12.862-17.31), aboard the yacht DIRECTOR II, which is bearing the Fahnestock Exped. toward the South Seas (FCC)

(E.S.T.)

## ULTRA HIGH FREQUENCIES

(E.S.T.)

UHF conditions were on the up-swing in middle of March much to every ones surprise. On the west coast the following are best heard in order named: W4XA (26.15), Nashville, W8XNU (25.95), Cincinnati, W5XD (25.3), Dallas, W9XPD (25.9), St. Louis, and W9XOK (25.3), St. Louis (Barneson, Clein). On east coast following are being heard: W5XD (25.3), W5XAU (26.125), Oklahoma City, & W9XLA (25.4), Denver. W5XD reported operating on 28.2 by Larsen, N.Y. W5XAU is on air daily 6am-10pm. W9XWT (25.2), Louisville, will soon be on air with 100w. W9XJL (26.1), has been deleted. Operation of W2XJI (25.3) has been suspended. . . . NEW: NON-COMMERCIAL EDUCATIONAL on 41.9 megs, 100w, from Beattyville, Ky. . . . W3XIR (42.14), lone amplitude modulated station on 7-meter band, now operates Mon/Wed/Fri 7-10pm. . . . FREQUENCY MODULATION (F-M).- This new type of radio transmission threatens to revolutionize the whole present radio set-up. More than 100 applications for permits to operate F-M are now in the hands of the FCC. F-M broadcasters Inc., is a powerful new organization already numbering 58 members, set up to encourage wide-spread use of F-M, to get more frequencies for F-M and to eventually supply a national FM service. In the meantime the 7-meter band is rapidly filling up with F-M signals... W2XOR (43.4), Carteret, N.J. is on daily 12N to 12M; W2XWF (42.18), N.Y.C., is testing afternoons & evenings, using 150 instead of usual 200kc band width. W9XAZ (42.26), Milwaukee, is testing, as also are W2XOY (43.2), New Scotland, N.Y. and W9XEN (42.8), Zenith Corp., Chicago... W9XHW is moving to 42.8 to use F-M, and W2XDV is moving to 43.00 to use F-M. Watch for F-M signals from new stations: W1XSQ (43.4), Worcester, Mass.; W1XSN (42.6) and W1XSO (43.2), Hart-

TLXK (42.6), Hull, Mass.; W2XOY (43.2), New Scotland, N.Y.; W8XAD (43.2), Rochester, N.Y.; W8XAO (43.4), Rochester, N.Y.; W8XAN (43.4), Columbus, Ohio; W9XAO (42.6), Milwaukee, Wis., and Crosley Co. (43.2), Cincinnati, Ohio. . . .  
RCA has announced an expanded television program which includes immediate production of a line of moderately priced receivers; and expanded television service by NBC and a new RCA radio relay telecast circuit between N.Y. and Philadelphia. A similar circuit is now in existence between N.Y.C. and Schenectady, N.Y. which is operating perfectly (RCA)

### NORTH AND CENTRAL AMERICA

BAHAMAS — ZNS2 (6.09) now operates evenings 6:30-11pm (Torok, Larsen)  
CANADA — Address for CFCX (6.01), 75w, is P.O. Box 1690, Montreal; verifies promptly with attractive cd (Torok)...CJRX is off air for technical alterations, meanwhile CJRO (6.15) is operating 8:30pm-1:30am (Soplop, Christie)  
P.R. — Following new stations are given on late list: TI7RVM (6.035), 500w, "La Voz del Guanacaste", Ruben Venegas, M. Las, Juntas and TIEMC (6.15), 250w, "Radio El Mundo", Rafael Hinech, San (Juntas Jose) (Herz)  
CUBA — CMY (8.415), "Observatorio Montserrat", Cienfuegos, is used for special meteorological service (Kriebel)...COBC now on 9.36 (Larsen).....COBQ will be new call for COGF (11.8)...COCM now on 9.835 (Plotner)...COCQ now on 8.85 (Larsen, Plotner)...COJK (8.665), Camaguey now signs-off at 7pm.  
P.R. — HIH (now 6.78), occasionally signs-off as early as 8:05pm (Larsen, Lundberg)...HIIG (6.29), and HI2G (9.295), 150w, operate 7:10am-9:40pm intermittently; verifies (Lundberg, Saunders)...HIIN (12.49 & 6.245), 750w, "La Voz del Partido Dominicano", Trujillo, operates 11:40am-1:40 & 7:10-9:10pm; has Evangelical church services in English on Thurs. at 8pm; verifies (CAM, Lundberg)...HILS (6.43), "La Voz de La Hispaniola", Santiago, verifies with attractive cd (Lundberg)...HI3C, La Romana, now heard on 6.15 (Legge)  
GUATEMALA — TGWB now on 6.465 (Larsen)  
HAWAII — Revised schedule for HH2S (5.985) is 6:30-10pm (Torok)  
HAWAII — KQH (14.92) not used lately. All programs over KHE (17.97) (Balbi)  
JONORAS — HRPI (6.359), 100w, San Pedro Sula, verifies with attractive card.  
JAMAICA — ZL1 (4.75), formerly VP5PZ, 2 Seaview Avenue, Half-Way Tree, Jamaica, broadcasts Fridays 5:30-6:30pm; will issue QSL cards later. Station is operating on emergency basis but hopes to operate regularly with daily programs later (Kernan, Seth, Mrs. Allwood)  
MEXICO — XBA (6.977), Tacubaya, broadcasts weather reports for all-Mexico nightly 9:45-10:10pm (IRM)...Station on 9.555 is XETA (Legge)...  
NICARAGUA — YNJAT (5.758), verified promptly by letter (Legge)...NEW: YNCM (9.66), 200w, "Ecos del Caribe", Bluefields, operates 7-10pm; YN2FT (7.193), "La Voz de la Sultana, Granada, owned by Jose F. Tercero, operating nightly 8-10 pm, verifies promptly. "My report was first from U.S." (Legge); YN7AG (7.87), 50w, "Oriente Y Mediodia", Masaya, operates 7-10pm (W2IXY)...YNOP now on 6.86, operates 7-10pm (Larsen)...Call of "Radiodifusora Nicaraguense" on 6.76, is YNRS, not YNRF (W2IXY)  
PANAMA — HP5G (11.785), now 3kw, operates weekdays 12-1:30 and 6-10pm, and Sun. 9am-12 noon. Geo William's famous English "Radio Newspaper", is given weekdays 12:30-1 and 6:30-7pm. A 5kw sister station for HP5G to operate in the 16-meter band has been ordered from U.S.A. (Geo. Williams)...New sked for HP5K (6.005), Colon, is 7-9:30am and 5:30-11pm; verifies (Torok)  
PENNSYLVANIA — VP2SA finally verified reception of Ama-Touring broadcast of last May on 40 meters. Card is pink with black call letters (Soplop-Penna.)  
PENNSYLVANIA — Revised sked for WLWQ follows: Sun. 8am-6:30, 11pm-2am; Mon/Thurs/Sat 5:45am-2am, and Tues. Wed/Fri 5:45am-6:30 and 11pm-2am (Lundberg, Torok)  
PENNSYLVANIA — WPIT, Pittsburgh, Pa., seeks a permit to move location to Hull, Mass. and increase power to 50,000w. Sked is: on 21.54, 9-10am; on 15.21, 10am-3; on 11.87, 3-10 and on 6.14, 10pm-12 mid. (to lam on Sun) (Torok, FCC)...New sked for WRCA/WNBI follows: over WNBI (17.78), 8am-4pm to Europe, 4-9:15pm to SA; and over WNBI (6.1), 9:45pm-12 mid; over WRCA (21.63), 12 noon-3:30pm and over WRCA (9.67), 4pm-12 mid., to SA (RCA)...A permit to increase power to 50kw has been granted WRUL, Boston...WRUW (15.13) operates 8:45-10:30pm ex. Sun; WRUW (11.73), operates daily 8:45-10:30pm ex. Sun (Tu/Fri 8-9pm for Calif); WRUL (15.25), operates 11 am-8pm (Sun irreg.), and WRUL (11.79), operates 11am-8pm (Balbi). . . WWV, Beltsville, Md., transmits standard frequency signals as follows: On 20 mcs., Tues/Wed/Fri, 2-3:30pm; on 10 mcs., Tues/Wed/Fri, 12 noon-1:30pm, and on 5 mcs., continuously except for the

for the times mentioned on the preceding page (Gilgen, NNRC)  
 ARGENTINA LRX (9.66), Buenos Aires, signs-off nightly now at 11pm (Balbi)  
 BRAZIL NEW: PRF5 (11.855), Broadcasts in parallel with PSH nightly 5:55  
 -7pm, badly QRM'ing DJP. The national anthem and announcements in English,  
 are heard at the beginning and end of the broadcast (Soplop, Larsen)\*\*

COLOMBIA LATEST OFFICIAL LIST OF COLOMBIANS-- (\*) New Stations.

<u>Armenia</u>	500w	<u>HJFH</u>	4875	<u>Buenaventura</u>	500w	<u>HJEH</u>	4755
	(*)2500	<u>HJFH</u>	9750	<u>Cali</u>	720	<u>HJED</u>	4825
<u>Barranquilla</u>	600	<u>HJAB</u>	4875	<u>Cartagena</u>		<u>HJAD</u>	4835
	600	<u>HJAG</u>	4905		250	<u>HJAE</u>	4835
<u>Bogota</u>	(*)2500	<u>HJCD</u>	9690		603	<u>HJAP</u>	4925
	(*)5000	<u>HJCD</u>		<u>Cucuta</u>	500	<u>HJBB</u>	4815
	720	<u>HJCD</u>	4845	<u>Manizales</u>	500	<u>HJFB</u>	6105/4765
	(*)2500	<u>HJCF</u>	9710	<u>Medellin</u>	700	<u>HJDE</u>	6145
	(*)750	<u>HJCF</u>	4855		500	<u>HJDP</u>	4885
	720	<u>HJCH</u>	4895		750	<u>HJDX</u>	4795
	2500	<u>HJCT</u>	9630	<u>Pasto</u>	500	<u>HJHB</u>	4945
	(*)500	<u>HJCW</u>	4935	<u>Pereira</u>	500	<u>HJFA</u>	6054
	(*)750	<u>HJCW</u>			500	<u>HJFK</u>	4865
	750	<u>HJCX</u>	6018		(*) 2500	<u>HJFK</u>	9930
<u>Bucaramanga</u>	750	<u>HJGB</u>	4775	<u>Quibdo</u>	(*) 150	<u>HJGD</u>	4805

Notes: HJAB, "La voz de Barranquilla" broadcasts on 4.785 nights, and on 9.57 days; best heard near 2:30pm (Lundberg, Stark, Simpson, Roberts, Larsen)  
 ...NEW: HJCW (4.945), "Emissora Sud-America", Bogota, broadcasts 7-8am and 7:30-11pm (NNRC, Legge, Shanks)...HJCT (9.63), "Emissora Nacional" relays HJCR (Smith, Larsen, Christie, Com. Bul.)...HJFA (6.055), signs-off at 11pm...  
HJFH (4.875), is new call for HJGFAH, Armenia (Com. Bul.)

ECUADOR NEW: HCFT or G, "Radio La Cooperativa", Quito, broadcasts nightly to 10:20pm (\*\*Roberts, Plotner)...Regular programs were started over the new 10kW transmitter of HCJB, Quito, on March 17. The Inaugural program was broadcast on March 24. Station is on air nightly 8-11pm except Mondays when equipment tests are made. Reports will be verified with new 3-color card showing transmitter and rotary beam (HJLJB, Flora, Kernan, Larsen, Legge, CAM, Torok, Callan, Plotner)

PARAGUAY ZP14 (11.72) is in clear now with CJRX off air (Soplop)  
 PERU According to veri' OAX1A (6.335), "Radio Delcar", Casilla No.9, Chiclayo, operates 7:30am-11:30pm (Lundberg)...OAX4Z (6.08), 10kW, operates 7pm-1:30am. OAX4T (9.562), operates 11:30am-1:30pm (Lundberg)

URUGUAY CXAB (9.64) signs-off at 11pm now (Balbi); verifies with neat folder card printed in Spanish, Portuguese, English & German (Stark)

VENEZUELA YV1RO (4.78) is at Trujillo (Legge)...YV3RF (3.49), "La Voz del Llano", Acarigua, verified promptly by letter (Legge)...YV4RO (4.953), signs off with English announcement (Plotner)...YV4RQ (5.02), "Radio Puerto Cabello", Puerto Cabello, operates 5-9:30pm; verifies promptly (Lundberg, Legge)...YV5RH is verifying with old YV9RC cards (Lundberg)...YV6RU (4.88), Bolivar, is on air and operates 5:30-9:30pm. YV1RM (4.88) not heard (Legge).

EUROPE

ANDORRA Mystery French station announcing as "Ici Radio A---", heard on 8.795, daily 3:15-4pm, is believed to be in Andorra (Legge). "Radio Andorra" is radiating experimental programs on 11.835 mcs. (Radio Press Service)

BOHEMIA OLRAA (11.84), is still broadcasting nightly from 7pm on (Soplop)

DENMARK OZH (15.32), now broadcasts weekdays 1-1:30pm, Sun. 8am-1:30pm.

EIRE "Radio EIRE", 1.5kW, now operates 7:30-8:30, 9-10am, 12:30-4:30 and 5-6pm, on 9.595. Send reports to T.J. Monaghan, Engineer-in-Chief, Dept. of Posts and Telegraphs, The Castle, Dublin; verifies (Magnuson\*)

ENGLAND GSW (7.23) is now being heard daily 5:40-11:30am, 11:52am-6, 6:24-8pm (Callan, Soplop)...GSD (11.75), is again on air for NA, 6:24-9:15pm (BBC)

FINLAND One of the Lahti stations is on the air again, daily 9am-5pm on 15.19 (news in English at 1:20 and 3:45pm), and 12:05-3am on 9.5 mcs. These transmitters are probably OIE, and OPD respectively (Berggren, Soplop, E.R.)

FRANCE "Paris Mondial" now broadcasts to N.A. as follows: To western N.A., 10:30-11am, over (15.13-11.845); to eastern N.A., 11:30am- 4:15pm, over (15.13-11.845); to N.A., C.A. & Canada, 8pm-12:30am, over (11.885-11.72-9.52) and to Calif. & Mexico, 12:45-1:45am, over (9.52) (\*\*Torok, Pedersen, Balbi, Peters). The new 100kW xmtr. at Allouis operates on 11.845 & 9.52 (Peters)

..Advance program announcements given on Thurs.at 8:20pm (Bostad,CAM)...  
 ew anti-Nazi station "La Vie de la France" (7.24),broadcasts talks in Po-  
 ish and Czech,4-5 or 5:30pm (Soplop,Hart)...Mysterious French station on  
 .27,daily 4-5pm may be notorious "Peace Station" (Legge)...TYA2 (9.04),  
 broadcasts news in French at 1:30am,-1:30,2:30 and 4:30pm; TYB (9.57),op-  
 erates 12:30-4pm,including news in German at 1; in Turkish 1:30; Polish  
 3:15; German 3:15 and in Greek at 3:45pm (E. Radio)

GERMANY DJI (7.29),broadcasts a propaganda talk in English 5-5:30pm;  
XM (7.27),broadcasts the Lord Haw Haw program at 4:15pm,and another propa-  
 gm,and relays the news in English;8:15-8:30pm (Torok,Soplop,Bostad,CAM)..  
 ..NEW:DJW (9.65), broadcasts to Latin America,4:50-10:50pm, in parallel  
 with DJA (replacing DJN) (Plotner,Callan,Roberts,Soplop,Larsen,Bostad,Peder-  
 en)...DZB (10.042), "Radio Podebrad,"Podebrady, Bohemia, broadcasts daily  
 4:40-3:25pm; Lord Haw Haw talk in English at 2:50pm. This program is also  
 relayed by DXQ (6.17) (Soplop,Roberts,Bostad,Callan, CAM)...DZC (10.29), is  
 on air nightly 4:50-10:45pm...Advance program announcements are given from  
 Berlin as follows: Fri. 5:30pm; Sat.8:30pm and Sun.4:50pm,over DJB (15.20)  
 and DJD (11.77)...Anti-Nazi FREIHEITS SENDER is definitely on air daily  
 3:30pm, on 10.07.Hum of generator in truck plainly audible (Soplop,Callan)

EECE NEW:SVJ (9.825) heard testing at 8:20am (\*\*\*Simpson-Australia)  
ALY Many changes have been made in the Rome transmissions. The  
 "American Hour" is now broadcast 8:15-10:10pm (news in English at 10pm),  
 over 2R06 (15.3),2R04 (11.8), 2R03 (9.63) and 2R011 (7.22). A new program  
 for the Pacific region is broadcast 1-2am over 2R06 & 2R04 (news in En-  
 glish at 1:35am). 2R014 (15.23) and 2R020 (17.85) are being used experi-  
 mentally. New schedules shown in S.W. list (\*\*Brehmer,Tuff, Callan, Torok,  
 Balbi,Soplop,Larsen,Cress,Legge,Moreland,CAM)

YUGOSLAVIA Present sked is believed to be: 1-2:30am,over YUC (9.5); 4:55-  
 5:55am and 7:55-8:55pm,to S.A.,over YUE (15.24); 6-7 and 8-9am, to NA,over  
YUG (15.24),and 12-1,2-4, and 9-10pm to NA, over YUE (11.735). The evening  
 program to NA actually ends at 9:55pm.The 12 note horn signal is repeated  
 at 10:05pm at which time station signs-off (Soplop,Larsen,Legge,Balbi,Jen-  
SCHECHTENSTEIN A short-wave station which will broadcast commercially (kins  
 sponsored programs will definitely be installed soon (R.P.S.)

NORWAY The Lambseter (Oslo) station now operates as follows: over LKQ  
 (11.735),2-2:10, and 5:15-8:50am; over LKV (15.17), 11am-1:30pm, and over  
LH (9.645),1:30-5pm. Power is 5kW. Station announces "Oslo calling."News  
 in Norwegian is given at 4-4:15pm (Nordgren,Christie,Soplop,Berggren)

PORTUGAL CSW, "Emissora Nacional",Lisbon,now operates as follows: over  
SW3 (11.04),11am-2pm (Sun.to 3:45pm), to Mozambique & Angola; over CSW7  
 (9.74),2:15-3pm ex.Sundays,directed to Europe (Mon/Wed/Fri in German and  
 Italian and Tues/Thurs/Sat in ENGLISH & French,with English talk at 2:35pm)  
 ...over CSW7 (9.74),3:15-6 (Sun.4-6pm),to Brazil; 6:05-8pm,to N.A. (\*CSW)

SPAIN EAQ (9.86),Madrid,broadcasts daily 5-7:20; and 7:30-8:30pm, to  
 S.A.; also on Sat.1-3pm to Canary Islands (Radio Nacional,Tuff)

S.S.R. News in English is radiated daily as follows: 6-7am (11.9);  
 7-4pm (6.03-9.60-9.69); 4:30pm (7.52-9.60-7.36); 5:30pm (6.03-9.69-9.52);  
 6pm (6.03-12.00-9.60-7.52). Calls of irregularly heard Moscow stations are  
RIG (11.9), RKE (11.63), RIA (11.705), RWG (14.72) and RV96 (11.685)  
 Soplop,Tuff,Christie,Balbi,Legge,Messer,Callan,Shanks,Radio Center)...For  
 complete schedules see S.W. list.

VATICAN CITY See short-wave list for latest revised skeds for HVJ.

### ====AFRICA====

ANGOLA CR6AAA (7.614),Alvaro de Carvalho,Lobito operates 12:30-1:15  
 on and Mon/Wed/Fri 2-4pm; CR6BB (15.23)or CR6RD (10.955),50w,Radio Club de  
 Benguela,Benguela,2:30-3:30 or 4pm; CR6RC (11.74),Radio Club de Angola,50w,  
 Luanda,operates 6:45-8am and 2-4pm; CR6RS (7.174),Radio Club do Sul de An-  
 gola,Lobito,operates 6:30-7:30am and Tues/Fri Sun 2-4pm.These stations are  
 actually on air and heard by Butcher in ship off African coast (Com. Bul.,  
 Griebel,Legge,Soplop,Butcher,Radio Nacional)

CONGO OO2AA (6.15),heard very weak at 6:15am EST (Willis-Ontario)

CANARIAS EAJ43 (10.36),Tenerife,Heard at 1:30pm (Butcher- aboard ship)

Egypt NEW:SUx (7.865),20kW,the Cairo Short Wave Station, at Cairo,  
 broadcasts an all-Arabic program daily 12:30-3:30pm. English announcement

is made at sign-off. Send reports to Cairo Short Wave Station, Dept. of Tele-  
phones & Telegraphs, Cairo, Egypt (\*\*\*Stockbridge; E. Radio, Kriebel, Legge)

I.E.A. The IDA broadcast reports are being verified with 2RO type of  
card, with 12AA instead of 2RO, by the EIAR (Soplop, Kernan, Robinson, Myers).  
According to the EIAR many letters from dx'ers all over the U.S. reported  
fair reception of the broadcast from Addis Abeba (EIAR)

MOZAMBIQUE CR7BG (15.285), broadcasts to N.A., daily 7-8am. Station is not  
audible until about 7:45am (\*\*Legge, Soplop, Campbell, Butcher)...CR7BE is  
verifying by letter pending arrival of QSL cards from the printers (Legge).

TANGER "Radio Falange del Exterior," Tanger (7.09), operates daily 7:30-  
9:30 and 3-5pm (Radio Nacional)

### —ASIA AND OCEANIA—

AUSTRALIA VLQ5 (9.68), now broadcasts to Ea. N.A., 7-8, and to West N.A.,  
10:30-11:30am (Christie, Balbi)...VLW card received in 2½ months is just a  
plain white QSL card from the P.M. Gen. Dept. (Messer)

BURMA XYZ (6.056), Rangoon, being heard near 7-8:45am. English announce-  
ments are made at 8:35am (Pardini-Chicago; Seth-N.Y.)

CHINA XUGAM (28.16), Canton, being heard 6:30-7pm (CAM)...XIHBE (7.9), in  
Shanghai, 100w, heard in Australia at 8:30am (ADXC)...XGOX (15.2), now broad-  
casts 8:30-9:30 and 10-11:05pm to NA, and 11:30pm-1am to Japan (\*Ong)...XGOY  
(9.64), is being heard just a hair below VLW2 (9.645), 9-9:40am (Soplop, CAM,  
Saunders)...XGOY has been testing on 9.5, 9:45-10:30am irreg (Christie)...  
Third letter in Chinese calls denotes town or district. XG calls are Chiang  
Kai-Shek government stations; XH calls are Shanghai stations and XO calls  
are Japanese operated stations (Fern)...XGOK, Canton, heard on 8.05 irreg.

FRENCH INDO-CHINA "Radio Saigon" (11.78) operates as follows: 12:05-12:45am  
(French); 6-10:15am; 10:30am-11am, to N.A. and 6:35-7:15pm (French). News in  
English is given at 6:30 and 10:30 am (Willis, ADXC, Herz, Traiser, Trezise)

INDIA Reports on any of the India short-wave stations should be sent  
to the Director, All-India Radio, Delhi, India (Shubert)...VUM2 (11.873), Mad-  
ras, operates 6:30am-12:30pm, in parallel with VUD2 (9.59); best heard near  
10:30am when chimes are sounded and clock strikes 9 times (Hart, Soplop, CAM,  
E. Roberts, Christie)

JAPAN The Govt. will greatly expand overseas broadcasts during 1940/41  
...Will use one of JOAK's 150kW xmtrs. for short-wave, and will establish re-  
lay S.W. stations at Shanghai and Peiping (\*Honda)...A 20kW station is be-  
ing built at Hankow, which when completed will operate as XGSA on 6.105, 9.52,  
11.73, 15.24, 17.755 and 21.45... "Radio Tokyo" on about 15.4, is being heard  
with fine signals 6:45-7:45am (Shanks-Tenn)...JZK heard with very loud sig-  
nals, 8-9pm, on new freq. of 15.01 irreg. This may be initial tests using the  
new JOAK 150kW xmtr. (E. Roberts)...JZJ (11.8) has replaced JZI daily 2-4pm.

MANCHUKUO MTCY (11.78), now operates as follows: 1:30-2:20am to Western  
N.A. and Hawaii (English news at 2:00am); 8:40-9:30am, to Mongolia & Soviet  
Russia (News in Russian 8:45; in Mongolian 9:20am); 9:50-10:55am, to China &  
the South Seas (News in Japanese 9:57; in Manzhou 10:10; in English 10:35am);  
and 4-4:50pm, to Europe (News in English at 4:05pm) (\*\*MTCY, Soplop, Hiatt)

NEW CALEDONIA FK8AA now operating on 6.135 to escape QRM from MTCY (6.122)

NEW ZEALAND ZMEF (9.2), on a small island near mainland of N.Z. operates  
about twice a week between 2 and 3 a.m. EST (NZDXHA-N.Z.)

P.I. KZRC (6.1), "Voice of Cebu, Manila, heard to 9am. Signs-off with  
"Goodnight Melody" (Plotner)...KZRM (9.57), has Chinese program 9:15-9:45am

PITCAIRN VR6AY received his rig from Panama. ZL2FR is now on Pitcairn  
operating a British Admiralty controlled station on 15.5, and 5.93, at 1:30  
and 2:40am EST (W2IXY, Dorothy Hall)

ST. PAULS ROCKS (Halfway between Africa & Australia, in Indian Ocean). -Wm. Pal-  
mer of Ohio, is the lucky recipient of a veri' from this isle, in answer to an  
SOS sent out by the "S.S. Ile de Bourbon," anchored off the island, Dec. 21,  
1938, asking for help for starving inhabitants. (\*\*Palmer)

S.S. ZHJ (now on 6.094 to escape QRM from Manila station on 6.1),  
signs-off at 8:40, not 9:40am (Plotner)...ZHP now on 9.705, being heard with  
very strong signals (Plotner-San Francisco) (Saunders)

THAILAND The PJ suffix on Bangkok calls stands for "Pura Jatra," in honor  
and commemoration to late Prince Pura Jatra of Kambaeng Bejra, who was the  
father of broadcasting in Thailand (Soplop\*)

TURKEY TAP (9.465) being heard in California at sign-on at 10:30am

# HORT-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....**NEWS IN ENGLISH:** The most important English news periods indicated list as NEWS. (Frequency calibrations by the Larsen, Oxrieder Bureau)

WAVELENGTH METERS	MEGS.	CALL	STATION	TIME-----EASTERN STANDARD
11.47	26.15	W4XA	Nashville, Tenn.	Noon-1, 6:30-10pm.
11.49	26.135	W5XAU	Oklahoma City, Okla.	6am-10pm.
11.52	26.05	W9XH	Southbend, Indiana	Non/Tues/Wed/Fri 2:30-6:30pm.
11.54	26.00	W9XA	Kansas City, Mo.	12 noon-3pm.
11.56	25.95	W8XNU	Cincinnati, Ohio	7am-2, 4pm-1am.
11.58	25.90	W9XPD	St. Louis, Mo.	10am-1, 4-8pm.
11.81	25.40	W9XLA	Denver, Colorado	10am-12 mid.
11.86	25.30	W9XOK	St. Louis, Missouri	Testing irreg.
11.86	25.30	W5XD	Dallas, Texas	12:30-2:30pm.
13.87	21.63	WRCA	New York City, N.Y.	12 noon-3:30pm to Latin America
13.92	21.55	GST	London, England	5:40-8:45, 9-9:15, 9:20-11:30am.
13.93S	21.54	WPIT	Pittsburgh, Pa.	9-10am.
13.93	21.53	GSJ	London, England	5:40-8:45am to India/Australia.
13.96	21.50	WGEA	Schenectady, N.Y.	Sometimes replaces WGEA (15.33)
13.97	21.47	GSH	London, England	5:40-8:45am to Africa.
13.99	21.45	DJS	Berlin, Germany	12:05-7:55am to Asia.
15.77	19.02	HS6PJ	Bangkok, Thailand	Mondays 8-10am.
16.23	18.48	HBH	Geneva, Switzerland	Fridays 8:45-10:15am to Orient
16.69	17.97	KHE	Kahuku, Hawaii	Sat/Sun 8:30-9pm to N.A.
16.82	17.845	DJH	Berlin, Germany	12:05-7:50, 8-9, 9-11am.
16.83	17.83	LRA5	Buenos Aires, Arg.	Fridays 5-5:30pm.
16.83	17.83	WCBX	New York City, N.Y.	8am-12:30pm to Europe
16.84S	17.82	2RO3	Rome, Italy	4:30-4:55, 5-7:15, 7:30-7:50, 9:30-10:55am, 6-7:55pm.
16.85	17.81	GSV	London, England	7-8:45, 9-11:30am to NA.....NEWS
16.85	17.80	OIH	Lahti, Finland	Heard irreg. (8:15 & 11am)
16.86S	17.79	GSG	London, England	5:40-8:45, 9-11:30am.
16.87	17.78	WBIB	New York City, N.Y.	8am-4pm, 4-9:15pm (After Apr. 28)
16.88	17.77	PHL2	Huizen, Holland	Sun. 6:40-7:40am to Far East
16.89	17.765	TPB3	Paris, France	5-10am to Far East.
16.89	17.76	DJE	Berlin, Germany	12:05-11am.
19.47	15.41	RV96	Moscow, U.S.S.R.	Heard very irregularly
19.52	15.37	HAS3	Budapest, Hungary	Sundays 9-10:30am.
19.56	15.34	DJR	Berlin, Germany	12:05-11am, 4:55-10:50pm to CA
19.57	15.33	WGEA	Schenectady, N.Y.	8am-6pm to Europe
19.57	15.33	KGEI	San Francisco, Calif.	6:30-11:15pm to Latin America
19.58	15.32	OZH	Skamlebak, Denmark	Sundays 8am-1:30pm, daily 1-1:30
19.60	15.31	GSP	London, England	2-5am; 1:35-3:30pm to N.A. (pm)
19.60	15.31	YDB	Soerabaya, Java	10:30am-2am and Sat. 7:30pm-2am.
19.61S	15.30	2RO6	Rome Italy	1-2, 5-9:25, 11am-2:35, 3-5:30, 815
19.61	15.295	TPB4	Paris, France	5-5:30, 7:30-8am (-10:10pm to NA)
19.62	15.29	LRU	Buenos Aires, Arg.	7-9am (11:30pm)
19.62	15.29	VUD2	Delhi, India	1:30-2:30, 7:30am-12:30, 9:30-
19.62N	15.285	CR7BG	Lourenco Marques, Mozambique	7-8am to N.A. *
19.63	15.28	DJQ	Berlin, Germany	12:05-11:10am...NEWS- 9am.
19.64	15.27	WCAB	Philadelphia, Pa.	12 noon-6pm to South America.
19.66	15.26	GSL	London, England	12:57-5am, 12-3:30pm to Africa.
19.67S	15.25	WRUL	Boston, Mass.	11am-8pm (Sun. irreg). *
19.68S	15.24	TPA2	Paris, France	5-9:45am to Far East.
19.68	15.24	CR7BD	Lourenco Marques, Mozambique	2-4pm etc.
19.68S	15.24	YUF	Belgrade, Yugoslavia	4:55-5:55am, 7:55-8:55pm to SA*
19.68S	15.24	YUG	Belgrade, Yugoslavia	6-7, 8-9am. *
19.71	15.22	PCJ2	Huizen, Holland	Su. 7:40-10:05, Mon/Th. 7:40-9am, Tu. 3-4:30am, Tu/Fr/Sa 7:40-8:45a 10am-3pm to Europe. *
19.72S	15.21	WPIT	Pittsburgh, Pa.	12:05-6, 6:30-9, 11:10-11:40am, 4:50-10:45pm to NA...NEWS- 6:45
19.74S	15.20	DJB	Berlin, Germany	

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19.74	15.20	XGOX	Szechwan, China	3:15am, 6:00, 8:15, 10:30pm. 8:30-9:30, 10-11:05 to NA, 11:30 pm-1am to Japan. *
19.74	15.195	TAQ	Ankara, Turkey	5:30-7:30am prox...NEWS- 7:15am
19.75	15.19	OIE	Lahti, Finland	9am-5pm...NEWS- 1:20, 3:45pm.
19.76	15.18	RV96	Moscow, U.S.S.R.	3-3:45am (English)
19.76	15.18	GSO	London, England	Not on air at present.
19.78	15.17	TGWA	Guatemala, Guatemala	12:45-1:45pm to NA; Sun. 1:45- 11am-1:30pm 5:15pm.
19.78	15.17	LKV	Oslo, Norway	4:30-5:30pm to SA; 8-9pm to NA.
19.79	15.16	JZK	Tokio, Japan	12:57-4:30pm. (-NEWS- 8:15pm.
19.80	15.155	SBT	Motala, Sweden	4:30-10:30am; 6-9 ex.Sat;
19.81	15.15	YDC	Bandoeng, Java	10:30pm-2am; Sat. 7pm-2am.
19.82	15.14	GSF	London, England	3:30-5, 9-11:30am, 3:50-6pm.
19.83	15.13	WRUW/WRUL	Boston, Mass.	8:45-10:30pm ex.Sun.
19.83S	15.13	TPB-	Paris, France	10:30-11, 11:30am-12:30pm to NA
19.84	15.12	HVJ	Vatican City	Sun/Thurs 8:30-9pm to S.A.
19.85	15.11	DJL	Berlin, Germany	12:05-2, 10:40am-4:25pm.
19.95	15.04	RKI	Moscow, U.S.S.R.	Not in use at present.
21.58	13.90	YN3DG	Leon, Nicaragua	Sun. 12:30-1, or 1:30am.
24.02	12.49	HILN	Trujillo City, D.R.	11:40am-1:40, 7:10-9:10pm.
24.08	12.46	HCJB	Quito, Ecuador	7-8:15, 11:30am-2:30, 5-10:30pm.
25.00	12.00	RNE	Moscow, U.S.S.R.	Weekdays 6:30-7:30am, 7-8:30pm- (English), 8:30-10pm; Su. 6:30- 10:30am, 7-10pm.
25.12	11.945	CB1180	Santiago, Chile	7-8am, 4:50-11pm.
25.19	11.91	CD1190	Valdivia, Chile	10am-1, 5-10:30pm
25.22	11.895	XGOY	Szechwan, China	5:30-7:20, 7:20-7:35, 7:40-9, 9:40 -11, 11:10-11:50am, 2-4:20, 4:30- 6:20pm...NEWS- 6:15am, 5pm.
25.22S	11.895	RIG	Moscow, U.S.S.R.	5:30-6 (French), 6-6:30am (Eng.)
25.24	11.885	TPA3	Paris, France	1-4, 10:15am-5:15pm to Asia/Afr.
25.25	11.880	TPB7	Paris, France	4:45-7:45 to SA; 8pm-12:45am to NA...NEWS- 8:03, 11:30pm, 12:15 6:30am-12:30pm. * (am
25.26S	11.873	VUM2	Madras, India	2:30-3:30am to So. Europe.
25.27	11.87	VLQ2	Sydney, Australia	3-10pm. *
25.27S	11.87	WPIT	Pittsburgh, Pa.	2:15-5am to Far East, 6:24-9:15- Intermittently daily (pm to SA.
25.30	11.86	GSE	London, England	5:55-7pm *
25.30	11.855	DJP	Berlin, Germany	3:30pm-2:15am, 6:35-7am to P.I.
25.30N	11.855	PRF5	Rio de Janeiro, Brazil	10:30-11, 11:30am-12:30, 1:15- 7-9pm (-4:15pm to N.A.
25.32	11.85	VLR3	Melbourne, Australia	1-5am, 12:30-1:30pm to Africa.
25.33S	11.845	TPC8	Paris, France	1-6pm to Europe; 6:30-10pm to- 3:30-9:05pm. (SA
25.34	11.84	OLR4A	Prague, Bohemia	10am-4pm & evenings irreg.
25.36	11.83	VLW3	Perth, W. Australia	1-2, 3:30-3:45, 4:30-4:55, 7:20- 9:25, 9:30-10:55, 11am-2:25, 2:30- 5:30, 6-7:55, 8:15-10; 10pm to NA.
25.36	11.83	WCBX	New York City, N.Y.	Irregular (-NEWS...10:00pm
25.37S	11.825	CXAL4	Colonia, Uruguay	12-1:30am to NA, 7-9:30am, 2-4,- 4:30-5:30pm...NEWS- at 13:03am.
25.38	11.82	XEBR	Hermosillo, Mexico	11am-8pm. (-NEWS- 12:30, 6:30pm
25.40S	11.81	ZRO4	Rome, Italy	12-1:30, 6-10pm; Sun. 9am-Noon- 6-10:15, 10:30-11am to NA, 6:35- 7:15, 12:05-12:45am...NEWS-10:30
25.42	11.80	COGF	Matanzas, Cuba.	1:30-2:20am to NA, 8:40- (am
25.44S	11.795	JZJ	Tokio, Japan	9:30, 9:50-10:50am, 4-4:50pm.
25.45S	11.79	WRUL	Boston, Mass.	3:30-11:45am ex.Sun; Sun. 3:55- 11:45am, 11:45pm-2am ex.Sat.
25.46FS	11.785	HP5G	Panama City, Panama	10:45am-4:25, 4:50pm-1am to N.A.
25.47S	11.78		Saigon, F. Indo-China	...NEWS- 6:00, 8:15, 10:30pm.
25.48S	11.775	MTQY	Hsinking, Manchukuo	11.40am-3, 6:30-7pm.
25.49	11.77	ZTE	Durban, So. Africa	12:57-5, 9-11:30, 11:52am-3:30,-
25.49	11.77	DJD	Berlin, Germany	
25.51S	11.76	ZRO15	Rome, Italy	
25.53S	11.75	GSD	Daventry, England	

		(GSD)	
25.55	11.74	CB1174	Santiago, Chile
25.55S	11.74	HVJ	Vatican City,
25.57S	11.735	LKQ	Oslo, Norway
25.57S	11.735	YUE	Belgrade, Yugoslavia
25.58S	11.73	WRUW/L	Boston, Mass.
25.59	11.725	JVW3	Tokio, Japan
25.60S	11.72	CJRX	Winnipeg, Canada
25.60	11.72	ZPL4	Villarica, Paraguay
25.60	11.718	TPA4	Paris, France
25.62	11.71	YSM	San Salvador, El Salvador
25.63	11.705	SBP	Motala, Sweden
25.63	11.705	ZP7	Asuncion, Paraguay
25.64	11.70	HP5A	Panama City, Panama
25.64	11.70	CB1170	Santiago, Chile
25.64	11.70	IQY	Rome, Italy
25.75	11.65	XGOK	Canton, China
27.17S	11.04	CSW3	Lisbon, Portugal
27.27	11.00	PLP	Bandoeng, Java
27.39N	10.955	CR6BD	Benguela, Angola
28.30	10.60	ZIK2	Belize, Brit. Honduras
28.48	10.535	JIB	Taihoku, Taiwan
28.55	10.40	YSP	San Salvador, El Salvador
29.04	10.33	ORK	Ruyselede, Belgium
29.15S	10.29	DZC	Berlin, Germany
29.24	10.26	PMN	Bandoeng, Java
29.35	10.22	PSH	Rio de Janeiro, Brazil
29.82	10.07		Anti-Nazi Freiheits
29.83	10.065	TIEM	San Jose, C.R.
29.83S	10.042	DZB	Podebrady, Bohemia
30.23	9.925	JDY	Darien, Manchukuo
30.40	9.87		Tananarive, Madagascar
30.43S	9.86	EAQ	Madrid, Spain
30.51J	9.835	COCM	Havana, Cuba
30.57	9.815	IRF	Rome, Italy
30.67	9.78	HH3W	Port-au-Prince, Haiti
30.76	9.755	ZHO	Durban, So. Africa
30.80S	9.74	CSW7	Lisbon, Portugal
30.83	9.73	CB970	Valparaiso, Chile
30.83	9.73	HJFK	Pereira, Colombia
30.90	9.71	HJCF	Bogota, Colombia
30.92	9.705		Fort-de-France, Martinique
30.92F	9.705	ZHP	Singapore, S.S.
30.95	9.695	JIES	Tyureki, Taiwan
30.96	9.69	T14NRH	Heredia, Costa Rica
30.96	9.69	GRX	London, England
30.96	9.688	LRL1	Buenos Aires, Arg.
30.98	9.685	TGWA	Guatemala, Guatemala
30.98S	9.685	RV96	Moscow, U.S.S.R.
30.99	9.68	XEQQ	Mexico City, D.R.
30.99	9.68	VLQ5	Sydney, Australia
31.02	9.67	WRCA	New York City, N.Y.
31.02	9.67		Saigon, F. Indo-China
31.03S	9.667	2R09	Rome, Italy
31.06S	9.66	LRX	Buenos Aires, Argen.
31.06S	9.66	HVJ	Vatican City

3:50-6, 6:24-9:15, 9:37pm-12:30-9 am... NEWS-3:50, 4:45, 6:30, 7:30, 6-11:00pm. (-9:45, 11pm, Tu. 6:30-7, 10-10:30am, Thurs. 9-2-2:10, 5:15-8:50am. (-9:30pm. 12-1, 2-4, 9-10pm to NA. \* 8:45-10:30pm ex. Sun (Tu/Fri 8-1-7am irreg. /-9pm to Calif.) Off air at present. \* 4-7:50pm; Sa/Sun 11am-6pm. 1-5:15pm to Afr., 6-7:45pm to SA, 8pm-12:30am to N.A. 1-2, 7-9:30pm irreg. 12:57-4:30pm, Sun. 3am-4:30pm; Daily 8-9pm to NA... NEWS-8pm. Testing irregularly. 7-10:40am, 5-10:45pm, Su. 6-10:45 10am-2, 3:30pm-mid. (pm 5:20-5:40am (ex. Su), 1:50-2:30p 7-9am... NEWS- 8:10am. 11am-2 (Su. to 3:45), to Angola. 4:30-10:30am, 6-9, 10:30pm-2am. 2:30-3:30, or 4pm. \* Tu/Th/Sat 1:30-2, 8:30-9pm. Relays JFAK 9-9:55am; 4-5am ir. 1-3, 6:30-11pm. 1:30-3pm to Belgian Congo. 4:50-10:45pm. (Su 4:30-11:30am, 6-9, 10:30pm-2am ex 5:55-7pm; Mon. 8-8:30pm to NA Sender 3-3:30pm. \* 4:30-8pm. 2:40-3:25pm... NEWS- 2:50pm. \* 7-8am... NEWS- 7:45am. 5-7:30, 7:30-9:30pm to NA; Sat. 1-3pm to Canarys... NEWS-8:40pm 8am-12 mid.; Sun. 8am-11pm. 5:20-5:40am, 1:50-2:30pm. 1-2, 7-9pm; Sun. 1-2, 5-8pm. 3:30am-3:45pm, Su. 3:55am-3:45pm; 11:45pm-2am daily ex. Sat. 2:15-3pm ex. Su, 3:15-6 (Su. 4-6), 6:05-8pm to N.A. \* 7am-11:30pm intermittently. 7:05-9am for later. \* Nightly (sked unknown) 6-8:10pm. 4:40-9:40am; Wed/Sat 12:40-1:40 am; Sun. 5:40-9:40am. 9:05-10:20am. Tu/Th/Sat 9-10pm; Su. 7-8am. 7:25-5, 11:52am-8pm to Europe. 10:30am-1, 2:30-3:30, 4-9pm. 10-11:30pm ex. Su; Su. 7pm-mid. 2-3:30, 5:30-6pm... NEWS-5:30pm. 9:55am-12:45am. 7-8am, 10:30-11:30am to NA. 4pm-12 mid. to S.A. Heard on west coast to 10:30 am. 11:40am-3:30, 5:30-6, 6:30-7:40pm 6:30-7:45, 10:15am-11pm. Su. 5-5:30, Mon/Thur 6:30-7am. Wed 2:30-3pm; Mon/Thur 8-8:15pm to- NA, 8:30-8:45pm to NA (French)

31.09	9.65	12AA	Addis Abeba, I.E.A.	3:30-5:30, 8am-2:30pm.
31.09N	9.65	DJW	Berlin, Germany	4:50-10:50pm to S.A. & C.A. *
31.09	9.65	WCBX	New York City, N.Y.	10:30-11:30pm to Latin America
31.09S	9.65	CR7BE	Lourenco Marques, Mozambique	2-4pm to Portugal. *
31.11S	9.645	VLW2	Perth, W. Australia	6-11am...NEWS- 8:50am.
31.11	9.645	LLH	Oslo, Norway	1:30-5pm. *
31.12	9.64	XGOY	Szechwan, China	9-9:40am to H.A.
31.12S	9.64	CXA8	Colonia, Uruguay	5-11pm; Sat. to mid.
31.14	9.635	KZRH	Manila, Philippines	4-11am.
31.14S	9.63	ZRO3	Rome, Italy	12:50-2:50, 3:30-4:45, 6-7:55, 8:15-10:10pm to NA...NEWS-10pm
31.15	9.63	JFO	Taihoku, Taiwan	4-10:30am.
31.15	9.63	HJCT	Bogota, Colombia	6-11pm.
31.17	9.625	CXA6	Montevideo, Uruguay	10:30am-12:30, 3:30-9:30pm.
31.19	9.62	TIPG	San Jose, C.R.	7-9:30am, 12-2, 6-11:30pm irreg.
31.21	9.615	ZRL	Capetown, So. Africa	11:45-2:50am ex. Sat; 3:30-7:20, 9-11:45am; Su. 3:30-11:45am int.
31.21S	9.61	VLQ	Sydney, Australia	2-4, 6:15-6:45, 8:15-8:45am.
31.22	9.61	DXB	Berlin, Germany	11-4:50, 7pm-1am to NA...NEWS-4:15, 8:15, 10:30pm, 12 mid.
31.23V	9.607	HP5J	Panama City, Panama	7-8am, 12-1:30, 6:30-10:30pm.
31.25S	9.60	RAN	Moscow, U.S.S.R.	3-3:30, 4:30-5, 6-8:30pm to NA, 8:30-9 (French)...NEWS-8pm.
31.25	9.60	CB960	Santiago, Chile	8-11:30pm.
31.27S	9.595	EIRE	Anthlone, Ireland	7:30-8:30, 9-10am, 12:30-4:30, 5-Su. 1:40-3, 7:15-8:15, 8:25-(6pm) 9:50pm to NA; Tu. 1:45-3:30, 7:30-8:30, 8:45-9:45pm to NA; Wed. 7:15-8:15, 8:25-8:40pm to N.A.
31.28	9.59	PCJ	Huizen, Holland	Mon/Th/Sa 6:30pm-2am; Wd. 9pm-2
31.28	9.59	WCAB	Philadephia, Pa.	1:30-3:30, 6:30am-12:30, (am) 9:30-11:30pm.
31.28	9.59	VUD2	Delhi, India	2:30-9, 9-9:30am.
31.32	9.59	VLR	Melbourne, Australia	12:57-1:45, 11:52am-3:30, 3:50-6, 6:24-9:15, 9:37pm-12:30am to NA...NEWS-6:30, 7:30, 9:45, 11pm.
31.32S	9.58	GSC	London, England	4:30-6pm ex. Su; Mon. to Fr. 5-12:30-4pm. *
31.35	9.57	KZRM	Manila, Philippines	Relays CBS 3pm-1am.
31.35N	9.57	HJAB	Barranquilla, Colombi	11am-4, 4:30-9:30pm.
31.35CS	9.57	TYB	Paris, France	11:30am-1:30pm.
31.35	9.57	WBOS	Boston, Mass.	9am-10:50pm.
31.35	9.57	CXA2	Montevideo, Uruguay	8:45am-12 mid.
31.37	9.562	OAX4T	Lima, Peru	4:30-10:30am, 6-9, 10:30pm-2am.
31.38	9.56	DJA	Berlin, Germany	1:30-3:30, 5-6am, 9:30-10:30pm.
31.38	9.555	XETA	Monterrey, Mexico	6:16-9:15pm to Latin America.
31.40	9.55	YDB	Soerabaja, Java	4:35-5:05pm, 8-9pm to NA...NEWS (8pm)
31.40	9.55	VUB2	Bombay, India	7-9:30am.
31.41	9.55	WGEA	Schenectady, N.Y.	Mon/Wed 8:45-10:15pm.
31.47	9.535	SBU	Motala, Sweden	3-6 to Europe, 6-11:45pm or mid
31.47	9.535	VPD2	Suva, Fiji's	12-3, 7am-12 noon to Asia.
31.47S	9.535	JZI	Tokio, Japan	2-4am, 10pm-2am. (am)
31.47	9.535	HEC	Schwarzenburg, Switzerland	5-10am, 11:30pm-1:15am; Su. 5-9:30
31.48	9.53	WGEO	Schenectady, N.Y.	4:30-7:45, 8pm-12:30am, 12:45am-1:45am to NA...NEWS- 8:03, 11:30
31.48	9.53	KGEE	San Francisco, Calif	Afternoons irreg. (-pm, 12:15am)
31.48	9.528	VUC2	Calcutta, India	3:15-9:50, Sun. 3:30am-3pm.
31.50	9.525	ZBW3	Hong Kong, Hong Kong	8-9:30, 9:30-11pm to NA.
31.50S	9.52	TPC-	Paris, France	Noon-4:30, 7pm-12 mid.
31.50	9.52	RV96	Moscow, U.S.S.R.	12:57-3:15am, 3:50-6, 6:24-9:15, 9:37pm-12:30am to Latin Amer.
31.50S	9.52	ZRG	Johannesburg, S.Afr.	12:43-2:30am.
31.51	9.52	OZF	Skamlebak, Denmark	7:45am-12:30am.
31.52	9.517	XEDQ	Guadalajara, Mexico	
31.55S	9.51	GSB	London, England	
31.57	9.505	YUC	Belgrade, Jugoslavia	
31.57	9.503	KEXW	Mexico D.F. Mexico	

31.58	9.50	OFD	Lahti, Finland	12:05-3am.
31.60	9.492	KZIB	Manila, Philippines	5:30-10am, 6-11pm...NEWS- 7:30a
31.65	9.48	VONG	St. John's, Nfld.	8:30am-1:30pm; 4:30-9:30pm ir.
31.70	9.465	TAP	Ankara, Turkey	10:30am-4:30pm...NEWS- 2:15pm.
31.77	9.445	HCODA	Guayaquil, Ecuador	8:15-10:15pm ex.Sundays.
31.78	9.44	COCH	Havana, Cuba	6:40am-12 mid.
31.91	9.40	OAX5C	Ica, Peru	7-11:30pm.
32.05V	9.36	COBC	Havana, Cuba	7am-12 mid.; Sun.7am-10:30pm.
32.11	9.345	HLB	Geneva, Switzerland	Mon/Wed. 8:45-10:15pm to N.A.
32.12	9.34	OAX4J	Lima, Peru	Noon-3, 5pm-12 mid.
32.28S	9.295	HI2G	Trujillo City, D.R.	7:10-8:40, 11:40am-2:10, 7:10-12:02-7pm. (9:40pm.)
32.44	9.234		Bucharest, Roumania	8am-12 mid.; Sun.8am-10pm.
32.52	9.225	COCY	Havana, Cuba	8am-12 mid.
32.59	9.205	PYA2	Rio de Janeiro, Brazil	5-5:55pm.
32.61	9.200	COCX	Havana, Cuba	8am-12 mid.
32.64	9.19	HC2ET	Guayaquil, Ecuador	8-10pm; Sun.8:30-10:30pm.
32.70V	9.175	HC1GQ	Quito, Ecuador	Mon/Wed/Sat 9-10:30pm.
32.86J	9.130	HC2CW	Guayaquil, Ecuador	11am-1, 7-11pm.
32.95	9.125	HAT4	Budapest, Hungary	7-8:30pm; Sat.6-7:30pm.
33.19N	9.04	TYA2	Paris, France	1:30am, 1:30, 2:30 & 4:30pm. *
33.22	9.03	COBZ	Havana, Cuba	7:45am-12 mid; Su.7:45am-1am.
33.48	8.96	TPZ2	Algiers, Algeria	Tuesdays 12:30-1:30pm.
33.48	8.96	COKG	Santiago, Cuba	6:42am-12 mid. irreg.
33.90V	8.85	COCQ	Havana, Cuba	6:50am-1am.
34.48	8.70	COCO	Havana, Cuba	7:30am-12 mid.
34.62	8.665	COJK	Camaguey, Cuba	11:30am-12:30, 3:30-7.8-8:30pm.
36.59	8.20	PSK	Rio de Janeiro, Brazil	5:55-7pm.
37.50	8.00	HC1ETC	Quito, Ecuador	Sat.3-10:30pm. Heard lately?
37.65	7.968	HSP6	Bangkok, Siam	8-11am, ex.Mondays.
38.00	7.894	YSD	San Salvador, El Salvador	7-10:30pm.
38.12	7.87	HCLRB	Quito, Ecuador	8:30-11:30pm.
38.15N	7.865	SUX	Cairo, Egypt	12:30-3:30pm (Arabic) *
38.20	7.854	HC2JSB	Guayaquil, Ecuador	11am-2, 4-11pm.
38.25	7.85	ZAA	Tirana, Albania	6:30-3am (Su.6:30-8:30am.)
39.16	7.66	YNDG	Leon, Nicaragua	8:30-9:30am ex.Sundays.
39.89S	7.52	RKI	Moscow, U.S.S.R.	4:30-5:30, 7-8:30pm to NA.
40.05	7.49	EAJ43	Tenerife, Canarias	7-8pm.
40.30	7.445	FG8AH	Pointe-a-Pitre, Guadeloupe,	6-7:10pm; Su.9:30-11am.
40.65	7.38	XECR	Mexico D.F., Mexico	Sundays 6-7pm to NA.
40.76N	7.36		Moscow, U.S.S.R.	4-4:30, 4:30-5pm (English).
41.01S	7.31	VIG	Port Moresby, Papua	April 13/27 3-5am.
41.13	7.295	JIE	Tyureki, Taiwan	9:05-10:20am.
41.15N	7.29	DJI	Berlin, Germany	5-5:30pm (English) (41)
41.19	7.294	YNIIP	Managua, Nicaragua	Sundays 10-11am.
41.21	7.28	TPB25	Paris, France	1-4, 10:15am, 4:15pm to Asia/Afr.
41.27N	7.27	DXM	Berlin, Germany	4:15-4:30, 6:15-6:30pm (English)
41.32	7.26	OZU	Skamlebak, Denmark	2-5pm.
41.34	7.257	JVW	Tokio, Japan	2-4pm to Europe.
41.38	7.25	YDA	Bandoeng, Java	10:30pm-2am; Sat.7:30pm-2am.
41.44N	7.24	DXJ	Berlin, Germany	8-8:15, 8:15-8:30pm (English)
41.44N	7.24		Paris, France?	4-5:30pm. *
41.49S	7.23	GSW	London, England	5:42-11:30am, 11:52am-6, 6:24-8pm
41.55	7.22	YDX	Medan, Sumatra	6-10:30am; 10:30pm-2am.
41.55N	7.22	2R011	Rome, Italy	8:15-10:10p, to NA...NEWS-10pm.
41.55	7.22	EAJ9	Malaga, Spain	4-6pm.
42.24	7.10	FO8AA	Papeete, Tahiti	Tues/Fri 11pm-12 mid.
42.80	7.01	XPSA	Kweiyang, China	5:30-11am, 5-6pm.
43.73J	6.86	YNOP	Managua, Nicaragua	8-9:30pm; Sun.2-3pm.
43.80	6.85	XOJD	Hankow, China	6-8:35am. (Heard lately?)
44.12	6.80	PZH	Paramaribo, D.Guiana	Tues/Fri 5:40-8:40pm; Su.8:40-10:40am; 1st & 3rd Thurs.6:40-7-8pm; Su.5:20-6:40pm (8:40pm)
44.25FS	6.78	HIH	San Pedro, D.R.	6:40-10:40pm.
44.38C	6.76	YNRS	Managua, Nicaragua	7:10-8:40pm; Sun.9:40-10:40pm.
44.38	6.76	HI7P	Trujillo City, D.R.	4:30-11am; Sun.8:30pm-1:30am.
44.64	6.72	PMH	Bandoeng, Java	

44.81	6.695	TIEP	San Jose, C.R.	7pm-12 mid.
45.06	6.66	HI5G	Trujillo City, D.R.	To 8:40pm.
45.22	6.635	HC2RL	Guayaquil, Ecuador	Sun. 5:45-7:45 & Tu. 9:15-11:15p
45.25	6.63	HIT	Trujillo City, D.R.	12:10-1:40, 4:40-8:40pm.
45.39	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, 9:40-11:40pm.
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, 6-8pm ex. Sundays.
46.26	6.485	HILL	Santiago, d.l.c., D.R.	5:30-7:30pm ex. Sundays.
46.41V	6.465	TGWB	Guatemala, Guatemala	7:45-9, 12:45-3:45, 7:30pm-12:15 am, Sun. 10:30am-5:15, 7pm-12 md
46.48	6.455	COHI	Santa Clara, Cuba	6:42am-12:15am.
46.66	6.43	HI1S	Santiago, D.R.	5:40-9:10pm ex. Sundays. *
46.88	6.40	TGQA	Quezaltenango, Guatemala	8-11pm; Sat. 8pm-1am, Sun.
46.91	6.396	COX7	Havana, Cuba	2-3, 6-10:30pm. (7am-3:00
46.92	6.395	HI9B	Santiago, D.R.	7:40-8:40pm.
46.99	6.384	ZIZ	Basseterre, St. Kitts	4-4:45pm; Wed. 7-7:30pm.
47.02	6.38	TTWS	Puntarenas, C.R.	5-7, 7:30-10pm; Sun. 5-6pm.
47.06	6.359	COCQ	Havana, Cuba	6:50am-1am.
47.17	6.395	HRP1	San Pedro Sula, Honduras	6-7:30am, 2-4, 6-9:30pm.
47.20N	6.355	IAC	Rome, Italy	3-3:25pm.
47.28	6.345	HH3W	Port-au-Prince, Haiti	1-2, 7-9pm; Sun. 5-8pm.
47.32	6.34	HI1X	Trujillo City, D.R.	8:10-10:10pm; Sun. 7:40-9:40am.
47.36S	6.335	OAX1A	Chiclayo, Peru	7:30-11pm. (am
47.39	6.33	COCW	Havana, Cuba	7:55am-12:15am; Su. 9:55am-12:15
47.51	6.315	HI1Z	Trujillo City, D.R.	11:40am-12:40pm; 5:10-7:40pm-
47.62V	6.30	OAX4G	Lima, Peru	6pm-12 mid. (ex. Su
47.69S	6.29	HI1G	Trujillo City, D.R.	7:10-8:40, 11:40am-2:10, 3:40-
47.96	6.255	CPI2	La Paz, Bolivia	7-9pm. (9:40pm.
48.04S	6.245	HI1N	Trujillo City, D.R.	11:40am-1:40, 7:10-9:10pm. *
48.11	6.235	HRD	La Ceiba, Honduras	8-11pm; Sun. 4-6pm.
48.27	6.215		Saigon, F. Indo-China	7:30-9:45am, 11:45pm-1am.
48.39	6.20	CP5	La Paz, Bolivia	6:30-11pm.
48.43	6.195	HI2D	Trujillo City, D.R.	5:10-7:10pm.
48.44	6.195	TG2	Guatemala, Guatemala	7:30-10am, 6-11:30pm, Sa. 6pm-3am, Sun. 3-8pm. For IDA, Sun. 1:30am. 10:40am-1:40, 6:40-9:40pm.
48.47	6.19	HI1A	Santiago, D.R.	Weekdays 2-3 or 3:30pm.
48.47S	6.19	HVJ	Vatican City	Tu/Thurs/Sat 6-7pm; Sun. 8-10pm.
48.51	6.185	TIRCC	San Jose, C.R.	6-9pm; Sat/Sun 7-9pm.
48.54	6.18	LRA2	Buenos Aires, Argen.	8-11am, 2:30-4, 7:30pm-12:30am.
48.54	6.18	XEXA	Mexico D.F., Mexico	5:10-7:40pm; to 10pm irreg.
48.58	6.175	HI4V	S.F. de Macoris, D.R.	2:40-3:25pm... NEWS- 2:50pm.
48.62N	6.17	DXQ	Berlin, Germany	Noon-2:30, 6-11pm.
48.66	6.165	TILS	San Jose, C.R.	To 11pm.
48.70	6.16	HJCD	Bogota, Colombia	4:55-6 or 8pm.
48.78F	6.15	HI3C	La Romana, D.R.	8:30pm-1:30am... NEWS- 10:45pm*
48.78	6.15	CJRO	Winnipeg, Canada.	Heard near 6:15am.
48.78	6.15	OQ2AA	Leopoldville, Bel. Congo.	11:45pm-3:15am, Sun. 11:55pm-3am.
48.81	6.147	ZTD	Durban, So. Africa	9:30am-1, 5-11:30pm.
48.82	6.145	HJDE	Medellin, Colombia	10pm-12 mid.
48.86S	6.14	WPIT	Pittsburgh, Pa.	4:30pm-11am; Su. 6pm-11am.
48.86	6.14	KZRF	Manila, Philippines	12-1, 4:30-6:30, 12-4p,
48.88	6.137	CR7AA	Lourenco Marques, Mozambique	Su. 5-7, 10am-1:15pm.
48.90F	6.135	FK8AA	Noumea, New Caledonia	2:30-3:30am ex. Sundays. *
48.93	6.132	COCQ	Havana, Cuba	9am-10:30pm; Sun. 5:30-8pm.
48.93	6.132	CINX	Halifax, N.S., Canada	6:45am-11:15pm; Sat. 8am-11pm, -
48.94	6.13	VP3BG	Georgetown, B. Guiana	3:45-7:45pm ex. Su (Su. Noon-11pm.
48.98	6.125	MTCY	Hsinking, Manchukuo	4-9am.
49.00	6.122	HP5H	Panama City, Panama	6-10:30pm; to mid. irreg.
49.02F	6.12	WCBX	New York City, N.Y.	12 mid.-2am to S.A.
49.04	6.117	XEUZ	Mexico D.F., Mexico	9am-1, 7pm-2am.
49.05	6.116		Saigon, F. Indo-China	12:05-12:45, 6-10:15am.
49.08	6.112	HI6H	Trujillo City, D.R.	5-8:50pm.
49.10	6.11	GSL	London, England	Not on air at present.

49.14	6.105	HJFB	Manizales, Colombia	5:30-10pm ex. Sun.
49.18	6.100	YUA/YUB	Belgrade, Yugoslavia	12:43-2, 11:20am-1, 2-4pm.
49.18S	6.100	WNBI	New York City, N.Y.	9:45pm-12 mid. *
49.18	6.100	KZRH	Manila, Philippines	4-11am.
49.20	6.097	ZRK	Capetown, So. Africa	12-4pm; Sun. 12-3pm.
49.20	6.097	ZRJ	Johannesburg, So. Afr.	3:15-7am; Sun. 3-7am.
49.23SF	6.094	ZHJ	Penang, S. S.	6:40-8:40am ex. Sun.
49.25S	6.09	ZNS2	Nassau, Bahamas	8-9, 1:30-2, 6:30-11pm... NEWS-
49.25	6.09	XEBF	Jalapa, Mexico	To 9:30 p.m. (8:15am
49.30	6.085	ZAA	Tirana, Albania	12:20-5pm.
49.32	6.083	VQ7LO	Nairobi, Kenya	5:45-6:15, 11:30am-2:30 (Su. to-
49.34	6.08	CRY9	Macao, Macao	Mon 8:30-10am (2pm; Tu. Th 8:30a
49.34	6.08	CKFX	Vancouver, Canada	1-3am ex. Mondays.
49.34S	6.08	OAX4Z	Lima, Peru	7pm-1:30am.
49.42	6.07	CFRX	Toronto, Canada	7am-12:30am; Sun. 10am-11pm.
49.46	6.065	SBO	Motala, Sweden	4:35-5:05pm.
49.48	6.063		Tananarive, Madagascar	12:30-12:45, 10-11am, Su. 2:30-
49.50	6.06	WCAB	Philadelphia, Pa.	Su/Tu/Fri 6:30-11pm, Wed. (4am.
49.50S	6.06	WLWO	Cincinnati, Ohio	6:30-8:30pm.
49.54	6.056		Rangoon, Burma	Su. 3am-6:30, 11pm-2am; Mon/Thurs
49.55S	6.054	HJFA	Pereira, Colombia.	Sat 5:45am-2am; Tu/Wa/Fri 5:45
49.56	6.05	GSA	London, England	am-6:30, 11pm-2am. *
49.56J	6.05	HP5F	Colon, Panama	Daily to 10am.
49.63	6.045	XETW	Tampico, Mexico	9am-noon, 6:30-11pm.
49.67	6.04	WRUL	Boston, Mass.	12:25-5, 11:52am-8pm.
49.67	6.04	WDJM	Miami, Florida	7-9pm.
49.67	6.04	KZIB	Manila, Philippines	7pm-1am.
49.73	6.038	HP5B	Panama City, Panama	5:30-8:45; Sun. 2-9pm.
49.75	6.03	CFVP	Calgary, Alta., Canada	1-3, 9pm-1am.
49.75	6.03	XEKW	Morelia, Mexico	5:30-10am, 6-11pm.
49.76S	6.03	RV96	Moscow, U.S.S.R.	10:30am-2, 6-10pm.
49.81	6.023	XEUW	Veracruz, Mexico	10am-2am.
49.83	6.02	DJC	Berlin, Germany	Nightly to 11:40pm.
49.83	6.02	HI3U	Santiago, D.R.	2-6, 7-8:30, 8:30-9pm.
49.85	6.018	HJCX	Bogota, Colombia	10pm-1am.
49.92	6.01	PRA8	Pernambuco, Brazil	11:30am-4:25pm.
49.92	6.01	CJCX	Sydney, Nova Scotia	7:10-8:55, 11:40am-1:40, 4:40-
49.92	6.01	CFCX	Montreal, Canada	6-11:30pm. (6:40pm.
49.94	6.007	XYZ	Rangoon, Burma	4-9pm.
49.94	6.007	ZRH	Johannesburg, So. Afr.	7am-1:30, 4-8:30pm.
49.96	6.005	XEBT	Mexico City, D.F.	7:45am-1am, Sun. 9am-11:15pm.
49.96	6.005	HP5K	Colon, Panama	6:30-10am, 9-11pm; Sa. 9:30-11:30
50.13	5.985	HH2S	Port-au-Prince, Haiti	10:45am-3; Su. 12:15-3pm. (pm
50.21	5.975	OAX4P	Hyancayo, Peru	10am-1:45am.
50.22	5.973	VONG	St. John's, Nfld.	7-9:30am, 5:30-11pm.
50.34	5.960	HI1J	San Pedro, D.R.	9-11pm.
50.54	5.936	PJCI	Curacao, D.W.I.	4:30-9:30pm.
50.51	5.94	OAX2A	Trujillo, Peru	11:40am-1:40, 6:10-8:40pm.
50.95	5.90	ZNB	Mafeking, Bechuanaland	6:36-8:36pm; Su. 10:36am-12:36p
51.07S	5.875	HRN	Tegucigalpa, Honduras	Tues/Wed/Sat/Sun 7-10pm.
51.46	5.83	TIGPH/TIX	San Jose, C.R.	1-2:30pm; 6-7am ex. Sundays.
52.10	5.758	YNJAT	Leon, Nicaragua	1-2:30pm; 6-11pm; Sun. 6-9:30pm.
52.40	5.725	HCLPM	Quito, Ecuador	6-11pm, 10pm-12 mid.
53.31	5.14	PMY	Bandoeng, Java	7-10, 10pm-12 mid.
59.58V	5.035	YV5RN	Caracas, Venezuela	7-10:20pm.
59.76S	5.02	YV4RQ	Puerto Cabello, Venez.	Mon/Tues/Thurs/Sat 8-10pm.
59.88	5.01	YV5RM	Caracas, Venezuela	5:30am-noon.
60.12	4.99	YV3RX	Barquisimeto, Venez.	4-11:30pm; Su. 8:30-11:30am, 3:30
60.31	4.975	YV1RJ	Coro, Venezuela	(-10:30p
60.48	4.96	VUD2	Delhi, India	3:30-10:15pm; Sun. 8am-10:30pm.
60.48	4.96	YV5RS	Caracas, Venezuela	10am-9:30pm
60.57	4.953	YV4RO	Valencia, Venezuela	10am-9:30pm
				5:30-10pm.
				7:30am-12:30pm.
				4:30-9:30pm or later.
				Noon-1, 6-9:30pm. (Cont. Page 16)

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**Fx'ers Alliance**CHARLES A. MORRISON  
EDITOR

Volume 8

April, 1940

Number 4

**NEW MEMBERS**

Carlos Ramirez G., Havana, CUBA... John Zsembik Jr.  
Lakewood, Ohio... John S. Haire, Mocksville, N.C... Jos.  
S. Torok, Pittsburgh, Penna... Baron Franz Gall von  
Atlas, Guatemala City, GUATEMALA... Robert W. Acton,  
Clinton, Indiana... Gerhard Berggren, Stockholm, SWE-  
DEN... Dr. Paul S. Hill, Harrisonburg, Va... F. H. More-  
land, Springfield, Ill... Ted Seaton, Sevierville, Tenn  
... B.W. Harris, Eleroy, Ill... Robt. Breymaier, Lakewood  
Ohio... Geo. B. Leonard, Port Huron, Mich... Harold A.  
Baxter Jr., Aptos, Calif... Geo. B. Flint, Chicago, Ill..  
... Edward DeBaecke, Philadelphia, Penna... Victor  
Blackman, London, ENGLAND.

**MIDSUMMER DX CONVENTION**

The world wide dial club, and Windy City Chapter of the IDA, of Chicago, will act as hosts to a combined mid-summer conclave of the International DX'ers Alliance and the National Radio Club, to be held in Chicago the latter part of July, probably on Sunday, July 20. The convention committee composed of L. Pardini, L. Herz, R. Irwin, C. Trezise, and Mrs. Z. Kandle, are making arrangements for a real gab, eat and fun fest, with all of the trimmings that dx'ers enjoy. A nominal registration fee will include light refreshments, or possibly a full meal (also dancing for those who wish to indulge), at some suitable Chicago "nite spot". This promises to be one of the most lively dx affairs yet put on and advance prospects indicate a very good attendance. For further information write to Convention Secretary, Gail Beyer, 3226 Sunnyside Ave. Chicago, Ill.

**CALENDAR FOR IDA LOCAL CHAPTERS**

**LAKES** (Mpls area)- On Mar. 16, a very successful meeting was held at home of Roy Schuckhart, Mpls, and all former officers were reelected for another year. Carl Eder of Willmar, is Chapter Chairman; L. Lundberg, 1020 Lowry Ave., N. Minneapolis, the Chapt. Sec... **SOUTH JERSEY** (Philadelphia area)- Has its own well-equipped club house at 104 Broadway, Camden, where members can congregate at any time, and with regular dx meetings held on Saturday nights... **SO. CALIF**- (L.A. area)- Next meeting Sat. April 27. For details contact Hal Clein, 1427 Maltman, Los Angeles... **WORLD WIDE DIAL** and **WINDY CITY** CHAPT.



J5CW, the best heard of the Japanese amateurs.

(Chicagoland)- Next meeting on April 10 (then May 8), at the Central YMCA, 19 So. La Salle St., Chicago. Regular neighborhood meetings of an informal character are also held regularly. For full information contact Chas Trezise 7638 Lafayette Ave., Chicago, Illinois.

**PERSONAL**

Ron. G. Baker, 40 Stilehall Gardens, Chiswick, London, The European Rep. of the IDA, has been called to the colors (Royal Army Medical Corps), and in the meantime N. Burton, 13 Elrington Road, London E.8, has assumed the post as acting Gen. European Representative... Godfrey Wignall, Australian Rep. of IDA, from Perth, W. Australia, is now in the 2nd Australian Imperial Force... Ray Shaffar of Waterloo, Iowa, is now a columnist for, "THE ARC", well known publication of the Asheville Radio Club... Ray Swenson of Rockford, Ill., is the proud pappy of a baby girl, born Jan. 15... Gerhard Berggren, Furusundsgatan 14, VII, Stockholm, Sweden, has been appointed the official Scandinavian Rep. of the IDA... Floyd Slosson, Pres. of the DXIEC, reports the demise of this DX organization. The IDA sincerely regrets the suspension of this club.

# BROADCAST STATION NOTES AND DX TIPS

**ALBANIA** The EIAR will build a 50 kw medium-wave station in Albania.....  
 The meantime a low-power station is broadcasting on 1284 kcs. (EIAR)

**CEYLON** Colombo (700), 5kw, operates daily 1-3 and 4-10am EST (Com.Bul.)

**CUBA** CMEX of Havana now operates on 1180 kcs. (Radio Guia)

**ENGLAND** The BBC's services for the B.E.F. in France are broadcast daily  
 m-1:30pm, on 804, and 1:30-6pm on 877 kcs. Daventry overseas programs are  
 layed as follows: on 804 kcs, 12:25-1am, 12-12:30, 3-3:15, 4-6 and 6:24-7:30  
 ; on 1149 kcs., 2-6 and 6:24-7:30pm (Burton, BBC). . . RECEPTION IN ENGLAND:  
 llowing heard: WTIC-WCAU-WHAM-WWL-CHNS-CMX-CMCK-XEW-WOR-XLAW-WHN-KDKA-WBAL  
Z-VONF-WRVA-LR1-LR3-LR6-LR4-PR13-LS1, PRA8, LS11 and WKAQ. Conditions vari-  
 le with occasional mixed nights when both NA's and SA's came in. On Feb. 20,  
 e NA's were completely replaced by the SA's at 2:30am GMT (Walton, Pybus,  
**FRANCE** "Radio Paris" reads English news 4:45-5pm... "Radio-  
 -Burton)  
 ernational" (1412) is off the air (Burton)

**GERMANY** Mysterious station announcing as "Deutschlandsender and Reichs  
 nder" heard broadcasting on 986, in Dutch, and on 995 kcs., in German. (N.B.)

**JAPAN** During 1940-41, 100kw stations will be installed at Osaka and  
 kuoka. The 870 kilocycles frequency of JOAK1, will soon be deleted in favor  
 a short-wave frequency for this transmitter (Honda)

**MEXICO** XEAW (1050) is heard best after KNX signs-off at 4am (Honda)

**NFLD.** VONF (640) frequently puts in a signal up to R9 in strength for  
 out 30 mins., after WGAN and WHKC sign off at 9pm. Try a stormy but not too  
 ld night (Campbell-Penna.\*)

**USA** The highly publicized Transcontinental Broadcasting System, has  
 apparently folded up before getting on air (Fern)... WJSV (1460), Washington,  
 C., is now operating with power of 50kw (CBS)... PERMITS ISSUED FOR NEW STA-  
IONS: KMYC (1420), 100w, Marysville, Cal; KPHO (1200), 100/250w, Phoenix, Ariz;  
KR (1530), 1kw, Akron, Ohio (reinstated); WARM (1370), 100-250w, Scranton, Penna;  
LOG (1200), 100w, Logan, W. Va.; WJHO (1370), 100/250w, Opelika, Ala.; WLOL (1300)  
W, Minneapolis; WCBT (1200), 250w, Roanoke Rapids, N.C.; WGOV (1420), 100/250w,  
 ldosta, Ga; WINX (1310), 250w, Washington, D.C.; WKPT (1370), Kingsport, Tenn,  
 50w; WLOF (1200), 250w, Orlando, Fla... CALL: WHTR (1370), Spartansburg, S.C. to  
DRD... FREQ. CHANGES: KFVS, Cape Girardeau, Mo. to 1370; KPAC, Port Arthur, Tex.  
 1220; WBOW, Terre Haute, Ind. to 1200kc; WHBY (1200), to Appleton, Wisconsin..  
 and WKNY (1500) to Kingston, N.Y.... POWER CHANGES: KCMO (1450) to 1kw/5kw  
 ; KHSL (1260) to 500w/1kw-LS; KMJ (580), to 1Kw/5kw-LS; KMPC (710), to 1 kw/  
 w-LS fulltime; WEEI (590), to 5kw; WICA (940), to 500w day; WMFJ (1420), to  
 50 watts (FCC, Cal lan)

## DX BROADCASTS

Friday, April 5, 4:00-5:00 a.m.	TILJ San Jose, C.R.	URDXC	1705
Sunday, April 7, 4:30-5:30 a.m.	TGX Guatemala City	URDXC	1400
Sat., April 13, 4:30-5:30 a.m.	XEXT Tepic, Nayarit, Mexico	NRC	1240
Sed., April 24, 4:00-5:30 a.m.	WEAU Eau Claire, Wis.		1050
Sundays Weekly 1:30-1:45 a.m.	TG2 Guatemala City,	IDA	6195
Thursdays Weekly 2:45-3:00 a.m.	KSL Salt Lake City, Utah	Tips	All 1130
Saturdays Weekly 11:30-11:45 PM.	WTAM Cleveland, Ohio	Tips	All 1070

## EXCHANGE CORNER

Clyde A. Ritter, 320 Leonard St., Blooms  
 burg, Pennsylvania (will swap letters &  
 SL cards 100%)... O. Barneson, 2838 Moss  
 ve., Los Angeles, Calif. (swap SWL cds)  
 e. Larry Lundberg, 1020 Lowry Ave. North,  
 Minneapolis, Minn. (swap photos, SWL cds,  
 postal card views 100%)... W. H. Stark,  
 117 North 62nd St., Wauwatosa, Wisconsin  
 swap letters; no SWL cards)... Alex Mac  
 enzie, 68 Hyde Vale, Greenwich, SE 10, Lon  
 on, England (USA pen pals wanted; is SW  
 x'er & swing fan. Will swap photos; news  
 papers, magazines etc.)... J. L. Millard,  
 17 W. Ganson St., Jackson, Mich (will ans  
 er questions about the Antarctic)

A fine program dedicated to IDA,  
 was broadcast from KVSF, in the  
 Ancient City, Old Santa Fe, New Mexico  
 on Feb. 17, from 12 to 1:45am.....  
 Featured on the program was chants  
 by Indians from the U.S. Indian  
 School under direction of Miss Bai-  
 ley. Mexican songs were played by  
 the La Fonda Hotel Orchestra, and  
 IDA State Mgr., J.F. Pichler, gave a  
 short talk.... Special credit should  
 go to Ernie Thwaites, who arranged  
 the program and did the announcing.  
 For each correct report received,  
KVSF sent the listener an attract-  
 ive booklet on New Mexico. (JFP\*)

**- AUSTRALIAN OR NEW ZEALAND STAMPS -**

A Mervyn Branks of the N.Z. DX Club, 5 Dublin St., Invercargill, N.Z., is prepared to send Australian and/or New Zealand stamps to any dx'er who may require them for return postage on reports to those countries, on receipt of unused 3¢ U.S.A. stamps. Collectors requiring a mint set of the new N.Z. Centennial issue (12 stamps and 1/-) can receive same for \$1.00. Ten N.Z. used stamps, containing at least four Centennial stamps, all different, will be sent for 15¢ in mint U.S. 3¢ stamps

**NORTH AMERICAN REGIONAL BROADCAST AGREEMENT**

The new broadcast agreement affecting practically all stations in North America will probably go into effect on about July 1, as most of the new frequencies have already been assigned. The broadcast band will be extended to 1600 kcs. and most U.S. stations above 710 kcs. will move upwards in frequency

from 10 to 40 kcs. Of the 106 broadcast channels available, 63 will be classified as clear channels for U.S.A. stations: 15 allotted to Mexico; 14 to Canada; 9 to Cuba; 2 to Newfoundland, and 1 each to Haiti, and the Dominican Republic. In the U.S.A. 59 channels will be clear; 41 will be regional (not over 5kw), and 6 will be local (not over 250w). In some localities, local stations with special directional antennae, will be allowed to operate during daylight hours, on so called clear channels, thus relieving general congestion. Channels for 50,000 watt stations outside of the U.S.A. have been assigned as follows: 600 (Quebec); 730 (Mexico D.F.); 740 (Ont.); 800 (Sonora); 860 (Ont.); 900 (Mexico D.F.); 990 (Manitoba); 1010 (Alta); 1050 (Nuevo Leon); 1220 (Yucatan); 1540 (Santa Clara); 1570 (Nuevo Leon), and 1580 (Quebec). Watch for late night tests from stations on new freqs.

**Short Wave List (Cont. from page 13)**

60.67C	4.945	HJCW	Bogota, Colombia	7-8am, 7:30-11pm (Sa. to 11:40)
60.73	4.94	YV5RO	Caracas, Venezuela	Signs-off at 10pm.
60.85	4.93	YV4RP	Valencia, Venezuela	5-10pm
60.92	4.925	HJAP	Cartagena, Colombia	9am-1:30, 7-10:15pm Sundays.
60.98	4.92	YV5RH	Caracas, Venezuela	6:30-7:30, 10:30am-1, 3:30-10pm
60.98	4.92	VUM2	Madras, India	6:30am-noon.
61.10	4.91	YV1RY	Coro, Venezuela	6:30-10pm ex. Sundays.
61.16	4.905	HJAG	Barranquilla, Colom.	11am-11pm; Sun. 11am-8pm.
61.22	4.90	YV6RT	Bolivar, Venezuela	5:30-9:30pm.
61.29	4.895	HJCH	Bogota, Colombia	11:30am-2, 6-11pm.
61.35	4.89	YVLRX	Maracaibo, Venezuela	10:30am-1:30, 4:30-10:30pm.
61.42	4.885	HJDP	Medellin, Colombia	8am-2, 6-11pm.
61.48	4.88	YV6RU	Bolivar, Venezuela	5:30-9:30pm.
61.48	4.88	VUB2	Bombay, India	7:30am-12:30pm.
61.54S	4.875	HJ6FAH	Armenia, Colombia	8-11am, 6-10:30pm.
61.60	4.87	YV2RN	San Cristobal, Venez.	11:30am-12:30pm, 6-9pm ex. Sun.
61.66	4.865	HJFK	Pereira, Colombia	6:05-10:30pm.
61.73	4.86	YV1RL	Maracaibo, Venezuela	11am-1pm, 4:30-10:30pm.
61.88	4.85	YV1RZ	Valera, Venezuela	11:30am-1, 5:45-8:45pm.
61.98	4.84	VUC2	Calcutta, India	6:30am-noon.
61.98	4.84	YV4RX	Maracay, Venezuela	Nightly to 10pm.
62.05	4.835	HJAE	Cartagena, Colombia	7am-6, 7-10:30pm.
62.11	4.83	YV5RU	Caracas, Venezuela	5-9:30pm; Sun. to 10:30pm.
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	Signs-off at 11pm.
62.38	4.81	YV1RU	Maracaibo, Venezuela	10:45am-12:45, 4:30-10:30pm.
62.44C	4.805	HJDG	Quibdo, Colombia	7-8:50pm.
62.53	4.798	YV1RV	Maracaibo, Venezuela	10:45am-12:45, 4:30-10:30pm.
62.57	4.795	HJDX	Medellin, Colombia	5:00-10:35pm.
62.65	4.788	YV5RY	Caracas, Venezuela	5-10:30pm.
62.70	4.785	HJAB	Barranquilla, Colombia	5-10pm.
62.79	4.778	YV1RO	Trujillo, Venezuela	7-10:05pm.
62.83	4.775	HJGB	Bucaramanga, Colombia	6-10pm.
62.9E	4.765	YV1RT	Maracaibo, Venezuela	5:30-9:30pm.
63.10	4.755	HJEH	Buenaventura, Colombia	5-10:30pm.
63.16C	4.750	ZQ1	Kingston, Jamaica	Fridays 5:30-6:30pm.