

THE GLOBE CIRCLER

AUGUST, 1939



The EIAR Station at Tripoli (Libya), Africa

In this issue

PAN-AMERICAN FRIENDSHIP PROGRAMS—MID-WEST
IDA CONVENTION—BROADCAST STATION NOTES—
COMPLETE SHORT-WAVE LIST—SHORT WAVE NOTES

ten cents

INTERNATIONAL DX'ERS ALLIANCE

SHORT WAVE NOTES

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

SUN., AUGUST 20, 1-3:30am EST	9685 TGWA
Special dx transmission from	6490 TGWB
Guatemala City, for the IDA.	2320 TGWC
SEPT. 10, 17 and 24, 12-12:10am EST	(28080 YL2CD)
NOV. 12 & 19, 10-10:10am EST	(28080 YL2CD)
SUN., SEPT. 24, 9-10pm EST	9660 LRX

First in IDA's new series of PAN-AMERICAN FRIENDSHIP transmissions (Herb Tucker).

LAWRENCE THAW TRANS-ASIATIC EXPEDITION

The 4 mobile motor units in the Lawrence Thaw trans-Asiatic expedition will be able to maintain contact with each other even when separated by distances as great as 200 miles. The equipment will permit short-distance transmission and reception between each of the two trucks, trailer & cruiser sedan by the use of 4 UHF xmtrs. and communication type receivers. 2 medium-high freq. xmtrs. & receivers installed in the cruiser sedan and trailer are capable of giving clear reception up to 200 miles or more. The expedition left New York City on June 21, and will leave Paris soon on the 14,000 mile tour that will take it through Budapest, Istanbul, Damascus, Baghdad, Herat, through Khyber Pass, Delhi, Calcutta and finally into Bombay, India, sometime next spring. Listeners are requested to be on the lookout for transmissions broadcast by the Lawrence Thaw Expedition.



Listening Post of
C. ROBINSON, WATERLOO, IOWA

Harold Clein of Los Angeles, California, with a VIC rating of 100, and Wilbur Britting of Montebello, California, with a VIC rating of 101, have each been admitted to the IDA 100 CLUB (Next complete listing in the October GC) PRESS DEADLINES: For SEPTEMBER GLOBE CIRCLER: Aug. 16; for SEPTEMBER STOP PRESS SHEET, Aug. 31; for SEPTEMBER AMA-TOURING, Aug. 26 (For Ama-Touring send your news items to R. Legge, 20 Beethoven St., Binghamton, N.Y.).

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

(EST)

ULTRA HIGH FREQUENCY

(EST)

(Perry Ferrell Jr., Editor)

August is expected to be a slow month for UHF with mostly short skip..... W6XKG (25.95) is heard here in West weakly with W8XNU heterodyne always present.... If West Coast dx'ers hear W8XNU (25.95) they should be able to catch W2XQO (26.55) and W2XJI (26.3) at the same time (Barneson).... W8XNU has moved to Carew Tower in Cincinnati, Ohio and would appreciate reports as to whether signal strength has changed from this new location... W3XO has special authority to test with 1000 watts on 43.32 megs (FCC),... The Bell Laboratories will test the effectiveness of noise free frequency modulation between aircraft and automobiles on 38.8 megs in comparison with the regular amplitude modulation (FCC)... W8XIR and W8XIQ are still testing for interference with the Cleveland Police Department on 31.22 megs... Heard the second harmonic of W6XBE on 30.66 megs better than the fundamental (Simpson, NSW, Australia)... W6XBE's harmonic logged here on short skip (Barneson-Cal.)... WQLP, special emergency station of the Philadelphia Electric Co. heard calling car 2013 on 39.66 megs.... Roscommon, Mich. forest fire tower heard calling any tower at 10:00 a.m. on short skip... The Michigan forestry

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towers usually use 35.74 megs, while the New Jersey system uses 37.96 and 39.42 megs....Found that it was not W2XHG who was sending facsimile on 41 megs but W10XCP (L.Weber)....W2XHG and W2XDG now off the air....W1XAR is applying for use of 25.60 megs channel; W9XA has applied to use the 26 megs channel where it plans to maintain a constant frequency for calibration purposes....W3XAU hopes to make use of the 25.725 megs frequency soon....Would appreciate knowing whether anyone received a veri' from W5XGB while they were testing on 31.6 megs (Ferrell)....VK2MA (42.86), Sydney, Australia now operating from 1 to 7am daily...The strong facsimile station on 31.6 megs is W9XZP of the W9XPD (31.6) outfit and shares time....W9XAZ, wishes to move to new location in Milwaukee, increase power to 5kW, and shift frequency to 42.26 (FCC)....W9XTC of St.Paul-Minneapolis is temporarily off the air.....W4XA (26.15) specializes in original classical programs...Louisville Times Co. of Eastwood,Ky.,has received permission to install a 500 watt facsimile station to operate on 25.25 megs.

TELEVISION: NBC has revised sked because the outdoor pickups are being cancelled till a second camera can be installed in the telemobile....A possible link between W2XD and W2XBS is becoming more and more apparent as the 130 miles span between the two transmitters can be "jumped" by the use of beam antennas and one intermediate booster station....The FCC now has 17 television applications on hand, 5 of which are from Los Angeles....W9XZV verified both my reception reports on their 49.75 megs sound channel with the statement that they are using a doublet facing north and south with 1kW output. The chief engineer also mentioned that they had been picked up in Clearwater, Florida, at the same time as my reception (P. Ferrell)....CBS' television aerials high up on the Chrysler Tower in N.Y.C. have been completed and the station will be on the air soon...Television was successfully transmitted over an ordinary telephone wire in N.Y.C...Telecasts from W2XBS in N.Y.C. are being received regularly by G.E. engineers on a mountain near Schenectady,N.Y.. more than 130 miles from the station.

== NORTH AND CENTRAL AMERICA ==

BAHAMAS ZNS (6.09),Nassau, relays Daventry almost nightly from 6:20 to 8, and its own local program from 8 to 10pm.Power is 200 w (Callan,RBO,JL)

CANADA The Govt. will build a powerful National short-wave station to transmit programs to all parts of the world (R.P.S.)

COSTA RICA T12RH (6.151) relays T1RH of San Jose (RBO)...TIGPH2 is now on 5.825 (Larsen)....TIPG has moved slightly to 9.615 (RBO)...TIRCC has moved back up to 6.55 (RBO)....TIWS (6.38),Puntarenas,is being heard again (RBO)

CUBA COCM is varying between 9.812 and 9.822 at present (RBO,Oskay, RBO)...COCO has moved to 8.695 (RBO,Althoff, Larsen)...COJK is quite variable in frequency at present (RBO,Larsen)...A license has been granted to operate a commercial S.W. xmr. COGN, 5kW, on 9.437, the station being located on the highway between Habana and Guanabacoa (Com. Bul.)

DOMINICAN REP. H1LJ, varying in frequency is on 5.913 at present. Interval-signal is 2 strokes on a gong (RBO, Larsen)...NEW: H12M (6.993), San Pedro de Macoris, heard broadcasting irreg. (*RBO)...H15P (6.565), Puerto Plata, not heard lately (Larsen)...H19B (6.39), now seems to be on the air from 5 to 8:40pm (Larsen).

GUADELOUPE The power of FG8AH (7.445),"Radio Guadeloupe",may be raised to 1kW, an extended schedule put into effect and English announcements made

GUATEMALA So popular have the IDA/Spatari DX programs heard Sundays, 2 2:30am EST become, that it has been necessary for the station to print a third edition of Spatari veri's. Each card is individually numbered. Worth while awards are made on each dx program for the best report and that received from the greatest distance (Perez,Spatari). TGQA (6.4),Quezaltenango, will also put on Spatari programs soon (Spatari)...TGXA (6.132), owned by senor Miguel Angel Mejicano Novales, having studios in the building of the newspaper "El liberal Progresista", relays TGX irreg. (Oskay, Perez)..

HAWAII The new "Voice of Hawaii", series to the NBC-Blue network, may now be heard Sundays from 9 to 9:30p.m. over KQH (14.92) (NBC)

HAITI The special Wednesday night program for Jamaica over H12S (now 5.987), has been suspended (Mrs.Allwood,RBO,Larsen)...HH3W is now on 9.77.

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YNLIP, Instituto Pedagogico, Managua, is broadcasting irreg. on 7.284 megs
 (RBO)...YN3DG at Leon, Nicaragua, is now broadcasting under the new call
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 10pm. Send 10¢ for QSL card as IRC's are not valid in Nicaragua (Gallo, RBO,
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PANAMA HP5F is on 6.093 megs at present (RBO)

U.S.A. WLXAL, Boston, Mass. will be closed down until about Aug. 25, for
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WLXK is located at Boston, not Springfield, Mass. (callan)... See list for re
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W3XAL's new 50kW xmtr. will probably not be completed before January, 1940.
 ... COMMERCIAL: WVV (5), Beltsville, Md., Frequency Monitoring Station, veri
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 Elias Clark, operator of WLOXDA, aboard the Effie M. Morrissey, has received
 permission to operate the xmtr. on 6.425, 8.655, 12.862, or 17.31 megs,
 with a power of 100 watts, during the impending Arctic cruise of the ship
 (FCC)... A new coastal harbor xmtr. on Mackinac Island, will operate on 2.55
 and 2.738 megs. WAY at Lake Bluff, Ill., will also operate on an additional
 frequency of 2.738, as will a new station at Cape Girardeau, Missouri, to
 maintain contact with vessels on the Mississippi and Ohio Rivers (FCC)

SOUTH AMERICA

BOLIVIA CP12 (6.255), "Radio Fides," power 250w, Observatorio San Calix
 to, P.O. Box 283, La Paz, is said to be operating daily 7-8, 11am-noon and 7-9
 pm (QRC via NNRC)

BRAZIL PSE (14.94), verifies with a card similiar to that sent on PSH
 reports. QRA is given as P.O. Box 709, Rio de Janeiro (Amers).

CHILE CB1174 (11.745), "Radio Hucce, P.O. Box 6009, Santiago, relays CB93
 nightly to 10:30pm (Fern)... NEW: CB946 (9.46), 5kW, to relay CB150 and CB
118, is now under construction at Santiago (Fern*)... CD1190 (11.91), at Val
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COLOMBIA The Govt. is constructing a 2kW non-commercial educational
 station to operate on 9.63 megs, at Bogota. It is believed the call will
 be HJCT (Ferrell)... NEW: HJ4DAX (4.795), Medellin, relays HJ4ABA, heard 9:30
 -10:30pm (Legge)... SCOOP: The following is a list of the new official Col
ombian calls and frequencies some of which are already in use. Frequencies
 seem to vary somewhat from the official assignments in some cases (***)

E. Roberts)	4.745	<u>HJCX</u>	Bogota	750 watts	La Voz de Colombia
	4.755	<u>HJEH</u>	Buenaventura	1000 watts	FF. CC. Nacionales
	4.765	<u>HJFB</u>	Manizales	5000 watts	Alberto Hoyos (in const.)
	4.775	<u>HJGB</u>	Bucaramanga	750 watts	Francisco Bueno
	4.785	<u>HJAB</u>	Barranquilla	750 watts	Clara E. de Buitrago
	4.795	<u>HJFI</u>	Ibague	750 watts	Lamas, Rivera, Barrios
	4.805	<u>HJDU</u>	Medellin	250 watts	Universidad de Antioquia
	4.815	<u>HJBB</u>	Cucuta	600 watts	Pompilio Sanchez
	4.825	<u>HJED</u>	Cali	750 watts	Eduardo Cordoba
	4.835	<u>HJAE</u>	Cartagena	500 watts	Jose Maria Fuentes
	4.845	<u>HJCD</u>	Bogota	1000 watts	Roberto Ramirez
	4.855	<u>HJCF</u>	Bogota	750 watts	Uribe y Moreno
	4.865	<u>HJBJ</u>	Santa Marta	750 watts	Julio A. Sanchez
	4.875	<u>HJFH</u>	Armenia	600 watts	Hoyos y Gutierrez
	4.895	<u>HJCH</u>	Bogota	750 watts	Manuel Gaitan
	4.905	<u>HJAG</u>	Barranquilla	1000 watts	Andres G. Jimeno
	4.915	<u>HJFC</u>	Pereira	500 watts	Cesar y Mario Arango
	4.925	<u>HJAP</u>	Cartagena	600 watts	Lequerica
	9.630	<u>HJCT</u>	Bogota	5000 watts	Min. de Educacion Nacionale

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	4.905	<u>HJAG</u>	Barranquilla	1000 watts	Andres G. Jimeno
	4.915	<u>HJFC</u>	Pereira	500 watts	Cesar y Mario Arango
	4.925	<u>HJAP</u>	Cartagena	600 watts	Lequerica
	9.630	<u>HJCT</u>	Bogota	5000 watts	Min. de Educacion Nacionale

ECUADOR HCK, "Radio Nacional de Ecuador", Quito, has moved down to 5.36.....
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 comes on air and before identifications (*Larsen, RBO, Legge)

PARAGUAY ZP14 (11.72), Villarica, broadcasts Mondays through Fridays, 5-8pm,
 and on Sat/Sun 11am-6pm (*Tuff, Wells, Orlaw)

PERU OAX4D (5.78), Lima, heard on June 7, at 8:40pm (Oskay)

URUGUAY CXA6 (9.62), "Sodre Uruguay", issues an attractive folder type QSL
 printed in six languages. Correct sked is 10:30am-12:30, and 3:30-9:30pm.
 The transmitter power is 20kW and it is licensed to operate as follows:

CXA4 (6.125); CXA6 (9.62); CXA10 (11.895) and CXA18 (15.3) (Amers, Tuff, Leg-

VENEZUELA NEW: YV1RT (4.77), "La Voz de la Fe," Maracaibo, is now on the (ge
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 (4.98), Caracas, 10kW; YV4RK (5.000), 10kW; YV4RZ (5.03), 10kW; YVOR (11.725),
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 ... All Venezuelan stations have now moved down to near their assigned fre-
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Positive identification of the station on 15.41, nightly from 8:55 to
 10:15pm is still lacking. It seems to be a toss up between Roumania and
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ALBANIA According to QSL from ZAA, station still operates daily on 7.85
 from 6:30 to 8am; Sundays to 8:30am, and on 6.085, from 1 to 2:30pm, but
 many listeners doubt station is actually on air at present (Reinhard, SWM)

AZORES CT2BP (14.134), 50w, often heard near 8pm; QSLs (Callan)

BOHEMIA OLR5A (15.23), broadcasts for North America, nightly 6:55 to 10pm.

QSL cards from the OLR stations are still marked as Prague, Czechoslovakia
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 reports to Radio Labor, Gyali u. 22, Budapest (HAD, Legge, Clein**)

IRELAND Letter veri's from EIRE, signed by T.J. Monaghan, Chief Engineer,
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SWEDEN NEW: SBT (15.155),300w,operates daily 1-4:15pm,and Wed/Sat 8-9pm, in parallel with SBP, and SBU (9.535),operates daily 4:15-5:05pm,in parallel with SBO (**Legge,Ferrell,RBO,Callan)

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== ASIA AND OCEANIA ==

AUSTRALIA M/V Kanimbla, 9MI (6.052), is heard 6:45-7:30am and on Saturdays near 2:45am irreg. (Amers,Breen,Walcott)...VLK (10.52), Sydney, calls GBP (10.77), almost daily 10-11am (Amers)...QSL cards are now being received from VLR and VLR3. VLR (9.58) has replaced VLR3 (11.88) from 12 mid. on (Balbi)...VK2ME (9.59),Sydney,now operates Sundays 12 mid.-2,4:30-8:30 and 10:30am-12:30pm (VK2ME)...Construction on VLW,the new 2kW station being in stalled at Wanneroo, W.A., is coming along nicely (Wignall)

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being heard on 6.87 from 8 to 8:35am with Chinese programs only (**Walcott) ...The station on approx. 11.4, was XRVG according to Mr. Tseng of the China Information Committee. The station left the air on February 22, so no QSL cards are available (**Beyer)

FRENCH INDO- "Radio Saigon", P.O.Box 412, Saigon, 12kW, operates on 6.116, 6:45 CHINA 8:30am with native program; on 11.78, 8:30-9:45am; on 6.116, 6:45 7:15pm, 11:45pm-12:15am, and on 11.78, 12:15-12:45am. A new station on 9.49mc, operates simultaneously with "Radio Saigon". English programs are at 12 mid and 8:15am (**Walcott)

INDIA According to the Berne list, Delhi, India on 4.92, is VUD8 instead of VUD2; Calcutta on 4.88 is VUC5, and on 15.15 is VUE3 (E. Roberts)

IRAN The powerful new short-wave stations which will be opened at Teheran in about a year will operate as EQB on 6.155, and as EQC on 9.68, each with a power of 20kW (**Ferrell)

IRAQ The following calls and frequencies are assigned the Baghdad station: HNF (9.683), HNG (11.724), HNH (15.145) and HNI (17.815). The power of the transmitter is 5kW. HNF operates daily from 6am to 3pm (**E. Roberts Ferrell, Breen)...YI5KG (7.14), issues a large cream QSL card with serrated edges, picturing H.R.H. Prince Faisal; call in black with blue shading and the address in arabic characters (*Breen)

JAPAN JWV3 (11.725) broadcasts news in English at 4:55am; relays the JBC almost daily from 4 to 8am (*Wells)

JAVA The new Semarang station is actually on 4.945mc, and carries the same program as PMH on 6.72 mcs. (*Breen)

MANCHOUKUO NEW: MTCY (6.125), is on daily after 8:30am; sometimes from as early as 11:30pm. MTCY (15.2 and 13.53), may be heard irregularly transmitting programs for rebroadcast in other countries. No QSL cards are yet available from MTCY, Hsinking (**Guthrie, Walcott, Ferrell)...JDY (9.92), is issuing new QSL cards. Color is red and white with call in black. A sailboat is pictured in the lower right hand corner (Amers).

NEW GUINEA A whole flock of New Guinea planes were logged one morning between 12:05 and lam. One plane was overdue and the land station on 6.91 was calling the roll of landing fields. Only one definitely identified was Lea on 6.94, with call VHX (**Walcott-Calif)

PHILIPPINES KZIB (9.492), broadcasts direct from the floor of the Manila Stock Exchange nightly from 8:30pm to 2:40am (Fern, RBO)...KZEG, the Sunshine BCB station in Manila, is being relayed daily on 6.14, from 5 to 9am, or later. This is probably KZRM's new xmtr (**Walcott, Plotner)...NEW: KZHS (9.585), P.O.Box 119, Manila, broadcasts daily from 6am on, promising veri's to all who write in (**Ferrell, Fern)...NEW: KZRH (6.1), Manila, which has just come on the air, is testing irregularly from 5 to 8am or later, and requesting reports. It is slightly stronger than KZEG (**Walcott, Ebling)

SIAM HS8PJ (9.51), is broadcasting daily ex. Mon. 8 to 10am. HS4PJ (6.13), broadcasts simultaneously with HS8PJ. HS6PJ (19.02), is still broadcasting Mondays only from 8 to 10am but expects to be on daily soon also. (**Balbi, Walcott, ADXC)

S.S. ZHJ, Penang, has shifted in freq. to 6.09, where it is operating with increased power, said to be 500 watts (*Walcott, Ferrell)

SYRIA There is a new station at Aleppo, said to be operating on 12.215.

TAIWAN NEW: JIE (7.295) and JIE2 (9.695), 10kW, Tyureki, are now transmitting daily from 9:05 to 10:20am, for China and the South Seas. JFO has not move to 9.69 as previously reported but is still broadcasting as usual on 9.63. JIE often broadcasts simultaneously with JFO and JIE2, and is in use almost every morning from 8am to 10:20am. JIE is the loudest signal of the three (**Legge, Walcott, Olthoff, Waite)

TIBET AC4VN (14.292 and 14.298), 100 watts, is on the air and has a WSJK beam directed on the United States. He has been reported as heard at lam, 6:30am and 8 to 10am. His rig was built by FNLC in French India (Ama-Tour.)

TURKEY TAP (9.465), Ankara, broadcast a dx program dedicated to the NRC, the CRC, the IDA, and RADEX, on Sat. July 29, at 4:10pm. Hope many members heard this transmission and only regret we didn't know about it sooner. A short talk in English about Turkey is broadcast over TAP on Saturdays at 3pm, which is followed by the Mail Bag program. As soon as all back correspondence has been answered QSL cards will be prepared for all sending in reports (**Waite, Gardner, Legge, Campbell, TAP)

being heard on 6.87 from 8 to 8:35am with Chinese programs only (**Walcott)
 ...The station on approx. 11.4, was XRVG according to Mr. Tseng of the
 China Information Committee. The station left the air on February 22, so no
 QSL cards are available (**Beyer)

FRENCH INDO- "Radio Saigon", P.O. Box 412, Saigon, 12kW, operates on 6.116, 6:45
CHINA 8:30am with native program; on 11.78, 8:30-9:45am; on 6.116, 6:45
 7:15pm, 11:45pm-12:15am, and on 11.78, 12:15-12:45am. A new station on 9.49mc,
 operates simultaneously with "Radio Saigon". English programs are at 12 mid
 and 8:15am (**Walcott)

INDIA According to the Berne list, Delhi, India on 4.92, is VUD8 instead
 of VUD2; Calcutta on 4.88 is VUC5, and on 15.15 is VUE3 (E. Roberts)

IRAN The powerful new short-wave stations which will be opened at Te-
heran in about a year will operate as EQB on 6.155, and as EQC on 9.68,
 each with a power of 20kW (**Ferrell)

IRAQ The following calls and frequencies are assigned the Baghdad station:
HNF (9.683), HNG (11.724), HNH (15.145) and HNI (17.815). The power
 of the transmitter is 5kW. HNF operates daily from 6am to 3pm (**E. Roberts
 Ferrell, Breen)... YI5KG (7.14), issues a large cream QSL card with serrated
 edges, picturing H.R.H. Prince Faisal; call in black with blue shading and
 the address in arabic characters (*Breen)

JAPAN JWV3 (11.725) broadcasts news in English at 4:55am; relays the
JBC almost daily from 4 to 8am (*Wells)

JAVA The new Semarang station is actually on 4.945mc, and carries the
 same program as PMH on 6.72 mcs. (*Breen)

MANCHOUKUO NEW: MTCY (6.125), is on daily after 8:30am; sometimes from as
 early as 11:30pm. MTCY (15.2 and 13.53), may be heard irregularly transmit-
 ting programs for rebroadcast in other countries. No QSL cards are yet
 available from MTCY, Hsinking (**Guthrie, Walcott, Ferrell)... JDY (9.92), is
 issuing new QSL cards. Color is red and white with call in black. A sail-
 boat is pictured in the lower right hand corner (Amers).

NEW GUINEA A whole flock of New Guinea planes were logged one morning be-
 tween 12:05 and lam. One plane was overdue and the land station on 6.91 was
 calling the roll of landing fields. Only one definitely identified was Lea
 on 6.94, with call VHX (**Walcott-Calif)

PHILIPPINES KZIB (9.492), broadcasts direct from the floor of the Manila
 Stock Exchange nightly from 8:30pm to 2:40am (Fern, RBO)... KZEG, the Sun-
 shine BCB station in Manila, is being relayed daily on 6.14, from 5 to 9am,
 or later. This is probably KZRM's new xmtr (**Walcott, Plotner)... NEW: KZHS
 (9.585), P.O. Box 119, Manila, broadcasts daily from 6am on, promising veri's
 to all who write in (**Ferrell, Fern)... NEW: KZRH (6.1), Manila, which has
 just come on the air, is testing irregularly from 5 to 8am or later, and re-
 questing reports. It is slightly stronger than KZEG (**Walcott, Ebling)

SIAM HS8PJ (9.51), is broadcasting daily ex. Mon. 8 to 10am. HS4PJ
 (6.13), broadcasts simultaneously with HS8PJ. HS6PJ (19.02), is still broad-
 casting Mondays only from 8 to 10am but expects to be on daily soon also.
 (**Balbi, Walcott, ADXC)

S.S. ZHJ, Penang, has shifted in freq. to 6.09, where it is operating
 with increased power, said to be 500 watts (*Walcott, Ferrell)

SYRIA There is a new station at Aleppo, said to be operating on 12.215.

TAIWAN NEW: JIE (7.295) and JIE2 (9.695), 10kW, Tyureki, are now transmit-
 ting daily from 9:05 to 10:20am, for China and the South Seas. JFO has not
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 talk in English about Turkey is broadcast over TAP on Saturdays at 3pm,
 which is followed by the Mail Bag program. As soon as all back correspond-
 ence has been answered QSL cards will be prepared for all sending in re-
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SHORT-WAVE BROADCASTING STATIONS

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

DIAL METERS	MEGS.	CALL	STATION	TIME.....	EASTERN STANDARD
11.30	26.55	W2XQO	New York City, N.Y.	Noon-9pm.	
11.32	26.50	W9XTA	Harrisburg, Ill.	1-4pm.	
11.34	26.45	W9XA	Kansas City, Mo.	10am-1,3-7pm.	
11.41	26.30	W2XJI	New York City, N.Y.	12 noon-6pm.	
11.47	26.15	W9XUP	St. Paul, Minn.	8am-1am.	
11.47	26.15	W4XA	Nashville, Tenn.	Noon-10pm.	
11.50S	26.10	W9XJL	Superior, Wisconsin	9am-5pm.	
11.52S	26.05	W9XTC	Minneapolis, Minn.	10am-8pm.	11M
11.52	26.05	W9XH	Southbend, Indiana	Mon/Tues/Wed/Fri 2:30-6:30pm	
11.54	26.00	W8XUJ	Cincinnati, Ohio	2-3pm.	
11.56S	25.95	W8XNU	Cincinnati, Ohio	7am-2, 3pm-1am.	
11.56	25.95	W6XKG	Los Angeles, Calif	24 hours daily	
11.67	25.70	W2XUP	New York City, N.Y.	4-5pm.	
13.87	21.63	W3XAL	New York City, N.Y.	8am-4pm to Europe	
13.93	21.54	W8XK	Pittsburgh, Pa.	5:30-8am.	
13.93Y	21.53	GSJ	Daventry, England	5:45-8:50, 9am-noon.	
13.94	21.52	W3XAU	Philadelphia, Pa.	Not in use at present.	13M
13.96	21.50	W2XAD	Schenectady, N.Y.	7-10am.	
13.97Y	21.47	GSH	Daventry, England	5:45-8:50, 9am-noon to Africa.	
13.98	21.46	W1XAL	Boston, Mass.	Sun 9-11:30am; Tues 10-11am *	
13.99	21.45	DJS	Zeesen, Germany	12:05-7:50am to Asia.	
15.77	19.02	HS6PJ	Bangkok, Siam	Mondays 8-10am.	*
16.81	17.85	TPB3	Paris, France	8:30-10am.	
16.82	17.845	DJH	Zeesen, Germany	12:05-7:50, 8-9, 9:15-11am.	
16.82S	17.84	EIRE	Athlone, Ireland	7:30-9am; 11:30am-3:30pm irreg*	
16.83S	17.83	W2XE	New York City, N.Y.	6:30-9am, noon-5pm; Sat/Sun 7-11am, 11:30am-5pm.	
16.84S	17.82	2R08	Rome, Italy	5-8:45am, 6-9am.	
16.85YS	17.81	GSV	Daventry, England	5:45-8:50, 9-11:15am.	
16.85	17.80	OIH	Lahti, Finland	4-9am.	16M
16.85	17.80	XGOX	Chungking, China	9:30-11:30pm.	
16.86Y	17.79	GSG	Daventry, England	5:45-8:50, 9am-noon, 12:25-4pm.	
16.87	17.785	JZL	Tokio, Japan	4:30-5:30, 8-8:30pm.	
16.87S	17.78	W3XL	New York City, N.Y.	4-9pm to Latin America.	
16.87S	17.78	W3XAL	New York City, N.Y.	8am-5pm omnidirectionally	
16.88S	17.77	PHI2	Huizen, Holland	Sun 6:10-9:30am; Mon/Wed/Fri/Sa 7:10-8:15am; Mon/Thu 7:10-8:30am	
16.89	17.76	DJE	Zeesen, Germany	12:05-11am, 4:50-9pm, Sun 11:10am	
19.47	15.41			8:55-10:15pm. *) (-12:25pm	
19.52	15.37	HAS3	Budapest, Hungary	Sundays 9-10am.	
19.56	15.34	DJR	Zeesen, Germany	4:50-10:50pm to C.A.	
19.57	15.33	W2XAD	Schenectady, N.Y.	10:15am-5pm to Europe.	
19.57S	15.33	W6XBE	San Francisco, Calif.	6:30-11:15pm.	19M
19.58	15.32	OZH	Skamlebak, Denmark	Sundays 8am-1:30pm.	
19.60Y	15.31	GSP	Daventry, England	1:15-4, 4:20-6pm.	
19.60	15.31	YDB	Soerabaja, Java	10:30pm-2am and Sat. 7:30pm-2am.	
19.61S	15.30	2R06	Rome, Italy	5:10-5:55am, 10am-12:06, 1:40-	
19.62	15.29	LRU	Buenos Aires, Argentina	7-9am. (2:30-, 3-5:30pm.	
19.62	15.29	VUD3	Delhi, India	1:30-3:30, 7:30am-12:30, 9:30-	
19.63	15.28	DJQ	Zeesen, Germany	12:05-11am, 4:50-10:50pm. (11:30pm	
19.64	15.27	H13X	Trujillo City, D.R.	Sun. 7:40-9:40am; Tu/Fri 8:10-	
19.64	15.27	W2XE	New York City, N.Y.	5:30-7:30pm. (10:10pm	
19.64	15.27	W3XAU	Philadelpnia, Pa.	10:45-11:45am, 12:30-5:15, Sat 12-	
19.66YS	15.26	GSI	Daventry, England	12-2:15am, 9:40-(5:15pm, SU 12-5pm	
19.68	15.243	TPA2	Pontoise, France	5-10am to Asia. (11:15p	
19.70S	15.23	OLR5A	Prague, Bohemia	7:55-10pm.	
19.71S	15.22	PCJ2	Huizen, Holland	Su/M/Tu 7:10-8:30am; Tu/W/F/Sa 7:10-8:15am, Tu 2-3:30am, Wd 9:30a	

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11.47	26.15	W9XUP	St. Paul, Minn.	8am-1am.	
11.47	26.15	W4XA	Nashville, Tenn.	Noon-10pm.	
11.50S	26.10	W9XJL	Superior, Wisconsin	9am-5pm.	
11.52S	26.05	W9XTC	Minneapolis, Minn.	10am-8pm.	11M
11.52	26.05	W9XH	Southbend, Indiana	Mon/Tues/Wed/Fri 2:30-6:30pm	
11.54	26.00	W8XUJ	Cincinnati, Ohio	2-3pm.	
11.56S	25.95	W8XNU	Cincinnati, Ohio	7am-2, 3pm-1am.	
11.56	25.95	W6XKG	Los Angeles, Calif	24 hours daily	
11.67	25.70	W2XUP	New York City, N.Y.	4-5pm.	
13.87	21.63	W3XAL	New York City, N.Y.	8am-4pm to Europe	
13.93	21.54	W8XK	Pittsburgh, Pa.	5:30-8am.	
13.93Y	21.53	GSJ	Daventry, England	5:45-8:50, 9am-noon.	
13.94	21.52	W3XAU	Philadelphia, Pa.	Not in use at present.	13M
13.96	21.50	W2XAD	Schenectady, N.Y.	7-10am.	
13.97Y	21.47	GSH	Daventry, England	5:45-8:50, 9am-noon to Africa.	
13.98	21.46	W1XAL	Boston, Mass.	Sun 9-11:30am; Tues 10-11am *	
13.99	21.45	DJS	Zeesen, Germany	12:05-7:50am to Asia.	
15.77	19.02	HS6PJ	Bangkok, Siam	Mondays 8-10am.	*
16.81	17.85	TPB3	Paris, France	8:30-10am.	
16.82	17.845	DJH	Zeesen, Germany	12:05-7:50, 8-9, 9:15-11am.	
16.82S	17.84	EIRE	Athlone, Ireland	7:30-9am; 11:30am-3:30pm irreg*	
16.83S	17.83	W2XE	New York City, N.Y.	6:30-9am, noon-5pm; Sat/Sun 7-11am, 11:30am-5pm.	
16.84S	17.82	2R08	Rome, Italy	5-8:45am, 6-9am.	
16.85YS	17.81	GSV	Daventry, England	5:45-8:50, 9-11:15am.	
16.85	17.80	OIH	Lahti, Finland	4-9am.	16M
16.85	17.80	XGOX	Chungking, China	9:30-11:30pm.	
16.86Y	17.79	GSG	Daventry, England	5:45-8:50, 9am-noon, 12:25-4pm.	
16.87	17.785	JZL	Tokio, Japan	4:30-5:30, 8-8:30pm.	
16.87S	17.78	W3XL	New York City, N.Y.	4-9pm to Latin America.	
16.87S	17.78	W3XAL	New York City, N.Y.	8am-5pm omnidirectionally	
16.88S	17.77	PHI2	Huizen, Holland	Sun 6:10-9:30am; Mon/Wed/Fri/Sa 7:10-8:15am; Mon/Thu 7:10-8:30am	
16.89	17.76	DJE	Zeesen, Germany	12:05-11am, 4:50-9pm, Sun 11:10am	
19.47	15.41			8:55-10:15pm. *) (-12:25pm	
19.52	15.37	HAS3	Budapest, Hungary	Sundays 9-10am.	
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19.57S	15.33	W6XBE	San Francisco, Calif.	6:30-11:15pm.	19M
19.58	15.32	OZH	Skamlebak, Denmark	Sundays 8am-1:30pm.	
19.60Y	15.31	GSP	Daventry, England	1:15-4, 4:20-6pm.	
19.60	15.31	YDB	Soerabaja, Java	10:30pm-2am and Sat. 7:30pm-2am.	
19.61S	15.30	2R06	Rome, Italy	5:10-5:55am, 10am-12:06, 1:40-	
19.62	15.29	LRU	Buenos Aires, Argentina	7-9am. (2:30-, 3-5:30pm.	
19.62	15.29	VUD3	Delhi, India	1:30-3:30, 7:30am-12:30, 9:30-	
19.63	15.28	DJQ	Zeesen, Germany	12:05-11am, 4:50-10:50pm. (11:30pm	
19.64	15.27	H13X	Trujillo City, D.R.	Sun. 7:40-9:40am; Tu/Fri 8:10-	
19.64	15.27	W2XE	New York City, N.Y.	5:30-7:30pm. (10:10pm	
19.64	15.27	W3XAU	Philadelpnia, Pa.	10:45-11:45am, 12:30-5:15, Sat 12-	
19.66YS	15.26	GSI	Daventry, England	12-2:15am, 9:40-(5:15pm, SU 12-5pm	
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19.71S	15.22	PCJ2	Huizen, Holland	Su/M/Tu 7:10-8:30am; Tu/W/F/Sa 7:10-8:15am, Tu 2-3:30am, Wd 9:30a	

19.72	15.21	W8XK	Pittsburgh, Pa.	8am-1pm. (11:10am-12:25pm.
19.74	15.20	DJB	Zeesen, Germany	12:05-11am, 4:50-10:50pm, Sun-
19.74	15.195	TAQ	Ankara, Turkey	5:30-7am.
19.75	15.19	OIE	Lahti, Finland	1:05-4, 9am-5pm.
19.76	15.185	XGOX	Chungking, China	9-11pm irreg.
19.76	15.18	RV96	Moscow, U.S.S.R.	3-4am, 7-9pm & irreg. *
19.76Y	15.18	GSO	Daventry, England	4:20-6pm, 6:25-9:20pm.
19.78	15.17	TGWA	Guatemala, Guatemala	12:45-1:45pm; Sun 12:45-5:15pm
19.78	15.17	LKV	Oslo, Norway	6:40-10am. (4pm
19.79	15.16	JZK	Tokio, Japan	12:30-1:30, 7-7:30, 8-9:30am, 2:30-
19.80N	15.155	SBT	MOTALA, SWEDEN	1-4:15pm, Wed/Sat 8-9pm.
19.80	15.15	YDC	Bandoeng, Java	4:30-10:30am; 6-7:30pm ex. Sat;
19.82YS	15.14	GSF	Daventry, England	10:30pm-2am; Sat. 7pm-2am.
19.82	15.13	TPB6	Paris, France	5:45-8:50, 9am-noon, 4:20-6pm.-
19.83	15.13	WLXAR	Boston, Mass.	1-4am. (6:20-9:15pm.
19.84	15.12	SP19	Warsaw, Poland	2:30-5:30, 9-10pm ex. Sat/Sun ir.
19.84	15.12	HPVJ	Vatican City, Italy	6-9pm. (Wed 2:30-3pm
19.84	15.12	CSW4	Lisbon, Portugal	Sun 1-1:30pm, Tu 10:30-10:45am,
19.85	15.11	DJL	Zeesen, Germany	6-8am.
19.87	15.10	2R012	Rome, Italy	12:05-2, 8-9, 10:40am-4:25pm.
19.95	15.04	RKI	Moscow, U.S.S.R.	Testing irreg.
20.08	14.94	PSE	Rio de Janeiro, Brazil	7-9pm in English. (3:30pm.
20.11S	14.92	KQH	Kahuku, Brazil	6-7pm; Wed. 4-4:10pm; Thur. 3-
20.28	14.795	IQA	Rome, Italy	Sundays 9-9:30pm.
20.64	14.535	HBJ	Geneva, Switzerland	4:30-4:55am.
20.78	14.44		Malaga, Spain	Sun. 10:45-11:30am, Mon 4-4:15am,
20.80	14.42	HCLJB	Quito, Ecuador	Mon. 6:45-8:15pm.
21.43	13.997	EA9AH	Tetuan, Span. Morocco	5:45-7:30pm. (pm ex. Mon.
21.58	13.90	YNDG	Leon, Nicaragua	7-8:15, 11:30am-2:30, 4:45-10:15
22.00	13.635	SPW	Warsaw, Poland	5:15-6:15, 6:30-7:30, 9-10pm.
24.03	12.486	HILN	Trujillo City, D.R.	Saturdays 10pm.
24.08	12.46	HC2JB	Quito, Ecuador	6-9pm.
24.53	12.235	TFJ	Reykjavik, Iceland	6:40-10:40am, 5:10-10:40pm.
24.53	12.23	COCE	Havana, Cuba	7-8:15, 11:30am-2:30, 5-10:30pm
25.00	12.00	RNE	Moscow, U.S.S.R.	Sundays 1:30-2:30pm. (ex. Mon.
25.06	11.97	CB1180	Santiago, Chile	8am-11:30pm; Sun noon-11:30pm.
25.06	11.97	HI2X	Trujillo City, D.R.	6am-5:30pm inter., 9-10pm & irreg
25.13	11.94	TI2XD	San Jose, C.R.	7-11pm.
25.19	11.91		Hanoi, F. Inco-China	Tues/Fri 8:10-10:10pm; Sun 7:40-
25.19	11.91	CD1190	Valdivia, Chile	7:30am-noon, 4-10pm. (9:40am.
25.21	11.90	KEWI	Mexico, D.F., Mexico	3:45-4:15, 7-9:30am.
25.21V	11.90	XGOY	Chungking, China	10am-1pm, 3-6, 7-10pm.
25.23CS	11.885	TPB11	Paris, France	7:30pm-mid; Sun. 12:30-2pm.
25.23CS	11.885	TPB12	Paris, France	5:55-11:45am, 4-6:30pm. *
25.25	11.88	VLR3	Melbourne, Australia	8:30-11pm beamed on U.S.A.
25.27	11.87	W8XK	Pittsburgh, Pa.	6-8:15pm beamed on So. America.
25.27	11.87	VUM2	Madras, India	3:30pm-mid.
25.30	11.855	DJP	Zeesen, Germany	1-10pm.
25.30	11.855	XMHA	Shanghai, China	Mon/Wed/Fr 3:30-4am.
25.32	11.85	CB1185	Santiago, Chile	4:50-10:50pm. *
25.32N	11.85	HAD	BUDAPEST, HUNGARY	5-10:30am approx. *
25.36	11.83	W2XE	New York City, N.Y.	Sat. 6-11pm & irreg.
25.37	11.826	XEBR	Hermosillo, Mexico	2-6pm to S.A. thru Aug. 11 *
25.40S	11.81	2R04	Rome, Italy	8-10:30pm to S.A.
25.40N	11.81	XGOK	CANTON, CHINA	9-11am, 8-10:30pm or later.
25.41S	11.805	COGF	Matanzas, Cuba	12:07-2:55, 5:30-9pm.
25.42	11.801	DJZ	Vienna, Germany	5:30-8:40am. *
25.42S	11.80	JZJ	Tokio, Japan	6am-9pm.
25.45	11.79	WLXAL	Boston, Mass.	4:50-10:50pm to N.A.
25.47	11.78		Saigon, F. Indo-China	8-9:30am, 2:30-4pm.
25.47	11.78	HP5G	Panama City, Panama	2:30-5:30pm ex. Sat/Sun.
25.47	11.78	OFE	Lahti, Finland	7:30-9:15am, 12:15-12:45am.
25.48N	11.775	MTCY	HSINGKING, MANCHOUKUO	Noon-1, 6-10pm.
				1:05-12:05pm.
				1:30-2:30am.

25M

19.72	15.21	W8XK	Pittsburgh, Pa.	8am-1pm. (11:10am-12:25pm.
19.74	15.20	DJB	Zeesen, Germany	12:05-11am, 4:50-10:50pm, Sun-
19.74	15.195	TAQ	Ankara, Turkey	5:30-7am.
19.75	15.19	OIE	Lahti, Finland	1:05-4, 9am-5pm.
19.76	15.185	XGOX	Chungking, China	9-11pm irreg.
19.76	15.18	RV96	Moscow, U.S.S.R.	3-4am, 7-9pm & irreg. *
19.76Y	15.18	GSO	Daventry, England	4:20-6pm, 6:25-9:20pm.
19.78	15.17	TGWA	Guatemala, Guatemala	12:45-1:45pm; Sun 12:45-5:15pm
19.78	15.17	LKV	Oslo, Norway	6:40-10am. (4pm
19.79	15.16	JZK	Tokio, Japan	12:30-1:30, 7-7:30, 8-9:30am, 2:30-
19.80N	15.155	SBT	MOTALA, SWEDEN	1-4:15pm, Wed/Sat 8-9pm.
19.80	15.15	YDC	Bandoeng, Java	4:30-10:30am; 6-7:30pm ex.Sat;
19.82YS	15.14	GSF	Daventry, England	10:30pm-2am; Sat. 7pm-2am.
19.82	15.13	TPB6	Paris, France	5:45-8:50, 9am-noon, 4:20-6pm.-
19.83	15.13	WLXAR	Boston, Mass.	1-4am. (6:20-9:15pm.
19.84	15.12	SP19	Warsaw, Poland	2:30-5:30, 9-10pm ex.Sat/Sun ir.
19.84	15.12	HPVJ	Vatican City, Italy	6-9pm. (Wed 2:30-3pm
19.84	15.12	CSW4	Lisbon, Portugal	Sun 1-1:30pm, Tu 10:30-10:45am,
19.85	15.11	DJL	Zeesen, Germany	6-8am.
19.87	15.10	2R012	Rome, Italy	12:05-2, 8-9, 10:40am-4:25pm.
19.95	15.04	RKI	Moscow, U.S.S.R.	Testing irreg.
20.08	14.94	PSE	Rio de Janeiro, Brazil	7-9pm in English. (3:30pm.
20.11S	14.92	KQH	Kahuku, Brazil	6-7pm; Wed. 4-4:10pm; Thur. 3-
20.28	14.795	IQA	Rome, Italy	Sundays 9-9:30pm.
20.64	14.535	HBJ	Geneva, Switzerland	4:30-4:55am.
20.78	14.44		Malaga, Spain	Sun. 10:45-11:30am, Mon 4-4:15am,
20.80	14.42	HCLJB	Quito, Ecuador	Mon. 6:45-8:15pm.
21.43	13.997	EA9AH	Tetuan, Span. Morocco	5:45-7:30pm. (pm ex. Mon.
21.58	13.90	YNDG	Leon, Nicaragua	7-8:15, 11:30am-2:30, 4:45-10:15
22.00	13.635	SPW	Warsaw, Poland	5:15-6:15, 6:30-7:30, 9-10pm.
24.03	12.486	HILN	Trujillo City, D.R.	Saturdays 10pm.
24.08	12.46	HC2JB	Quito, Ecuador	6-9pm.
24.53	12.235	TFJ	Reykjavik, Iceland	6:40-10:40am, 5:10-10:40pm.
24.53	12.23	COCE	Havana, Cuba	7-8:15, 11:30am-2:30, 5-10:30pm
25.00	12.00	RNE	Moscow, U.S.S.R.	Sundays 1:30-2:30pm. (ex. Mon.
25.06	11.97	CB1180	Santiago, Chile	8am-11:30pm; Sun noon-11:30pm.
25.06	11.97	HI2X	Trujillo City, D.R.	6am-5:30pm inter., 9-10pm & irreg
25.13	11.94	TI2XD	San Jose, C.R.	7-11pm.
25.19	11.91		Hanoi, F. Inco-China	Tues/Fri 8:10-10:10pm; Sun 7:40-
25.19	11.91	CD1190	Valdivia, Chile	7:30am-noon, 4-10pm. (9:40am.
25.21	11.90	KEWI	Mexico, D.F., Mexico	3:45-4:15, 7-9:30am.
25.21V	11.90	XGOY	Chungking, China	10am-1pm, 3-6, 7-10pm.
25.23CS	11.885	TPB11	Paris, France	7:30pm-mid; Sun. 12:30-2pm.
25.23CS	11.885	TPB12	Paris, France	5:55-11:45am, 4-6:30pm. *
25.25	11.88	VLR3	Melbourne, Australia	8:30-11pm beamed on U.S.A.
25.27	11.87	W8XK	Pittsburgh, Pa.	6-8:15pm beamed on So. America.
25.27	11.87	VUM2	Madras, India	3:30pm-mid.
25.30	11.855	DJP	Zeesen, Germany	1-10pm.
25.30	11.855	XMHA	Shanghai, China	Mon/Wed/Fr 3:30-4am.
25.32	11.85	CB1185	Santiago, Chile	4:50-10:50pm. *
25.32N	11.85	HAD	BUDAPEST, HUNGARY	5-10:30am approx. *
25.36	11.83	W2XE	New York City, N.Y.	Sat. 6-11pm & irreg.
25.37	11.826	XEBR	Hermosillo, Mexico	2-6pm to S.A. thru Aug. 11 *
25.40S	11.81	2R04	Rome, Italy	8-10:30pm to S.A.
25.40N	11.81	XGOK	CANTON, CHINA	9-11am, 8-10:30pm or later.
25.41S	11.805	COGF	Matanzas, Cuba	12:07-2:55, 5:30-9pm.
25.42	11.801	DJZ	Vienna, Germany	5:30-8:40am. *
25.42S	11.80	JZJ	Tokio, Japan	6am-9pm.
25.45	11.79	WLXAL	Boston, Mass.	4:50-10:50pm to N.A.
25.47	11.78		Saigon, F. Indo-China	8-9:30am, 2:30-4pm.
25.47	11.78	HP5G	Panama City, Panama	2:30-5:30pm ex.Sat/Sun.
25.47	11.78	OFE	Lahti, Finland	7:30-9:15am, 12:15-12:45am.
25.48N	11.775	MTCY	HSINGKING, MANCHOUKUO	Noon-1, 6-10pm.
				1:05-12:05pm.
				1:30-2:30am.

25M

25.49	11.77	DJD	Zeesen, Germany	11:30am-4:25, 4:50-10:50pm.
25.50	11.76	XETA	Monterrey, Mexico	Noon-3:30pm.
25.53SY	11.75	GSD	Daventry, England	12-2:15, 12:25-4, 4:20-6, 6:20-
25.55	11.74	SP25	Warsaw, Poland	6-9pm. (9:15, 9:40-11:30pm.
25.55	11.74	HVJ	Vatican City, Italy	Tues. 8:30-9am.
25.57V	11.735	COCX	Havana, Cuba	8am-12 mid.
25.57	11.735	LKQ	Oslo, Norway	2-6:40, 10am-3pm. (5:30pm
25.58	11.73	WLXAR	Boston, Mass.	6:30-8:30, 8:45-10pm; Sun 1:30-
25.59S	11.725	JVW3	Tokio, Japan	4-8am irreg. *
25.60	11.72	CJRX	Winnipeg, Canada	Sat. 6pm-Sun. 4am. (6pm.
25.60S	11.72	ZP14	Villarica, Paraguay	Mon thru Fri 5-8pm; Sa/Su 11am-
25.60	11.718	CR7BH	Lourenco Marques, Mozambique	12-1, 4:30-6:30, 9-11am, Noon-4pm, Sun. 4-7, 10am-2pm.
25.61	11.713	TPA4	Pontoise, France	6-8:15, 8:30-11pm to N.A.
25.62	11.71	YSM	San Salvador, El Salvador	1-2:30pm.
25.62	11.71		Saigon, F. Indo-China	7:30-9:45am. (8-9pm
25.63	11.705	SBP	Motala, Sweden	1-4:15pm; Sun 3am-4:15pm; Wed/Sat
25.64	11.70	HP5A	Panama City, Panama	7-8:30am, 10am-1, 5-10pm; Su. 6-10-
25.64	11.70	CB1170	Santiago, Chile	10am-2, 3:30-11pm. (pm
25.74	11.67	IQY	Rome, Italy	5:20-5:40am, 12:06-12:56, 1:50-
26.01	11.535	SPD	Warsaw, Poland	6-9pm. (2:30pm
26.32	11.402	HBO	Geneva, Switzerland	Sun. 7-8:45pm, Mon. 6:45-8:15pm.
27.17	11.04	CSW5	Lisbon, Portugal	11am-4:30pm; Sun. 10am-4:30pm.
27.27	11.00	PLP	Bandoeng, Java	4:30-10:30am, 6-7:30, 10:30pm-2am
28.48	10.535	JIB	Taihoku, Taiwan	Relays JFAK 9-9:55am.
28.55V	10.40	YSP	San Salvador, El Salvador	1-3, 6:30-11pm.
28.96	10.36	EAJ43	Tenerife, Canarias	3-4:30, 5-7, 7:45-8:45, 9-10pm.
29.04	10.33	ORK	Ruyselede, Belgium	12:30-2pm to Belgian Congo. (Sun
29.24	10.26	PMN	Bandoeng, Java	4:30-10:30am, 6-7, 10:30pm-2am ex.
29.35	10.22	PSH	Rio de Janeiro, Brazil	6-7pm; Mon 8-8:30pm; Fri 7-
29.85	10.05	TIEM	San Jose, C.R.	4:30-8pm. (7:30pm.
30.05VS	9.985	COBC	Havana, Cuba	6am-mid. *
30.23	9.925	JDY	Darien, Manchoukuo	7-8am.
30.45S	9.855	EAQ	Madrid, Spain	7:30-8:30pm ex. Sun. *
30.52S	9.83	IRF	Rome, Italy	5:20-5:40, 12-12:25, 12:40-1, 1:50-2:30, 6-9pm.
30.57J	9.815	COCM	Havana, Cuba	8am-12:30am; irreg. to 2am.
30.71F	9.77	HH3W	Port-au-Prince, Haiti	1-2, 7-9:15pm.
30.77S	9.752	ZRO	Durban, So. Africa	11:45pm-12:50, 3:30-7:30, 9-11:15 am; Sun 5:30-7, 9-11:15am.
30.80	9.74	CSW7	Lisbon, Portugal	6-9pm.
30.93	9.70		Fort-de-France, Martinique	6-8:10 or 9:30pm.
30.93	9.70		Saigon, F. Indo-China	7:30-9:45am irreg.
30.95N	9.695	TIE2	TYUREKI, TAIWAN	9:05-10:20am. *
30.95	9.693		Tananarive, Madagascar	12:30-12:45, 3:30-4:30, 10-11am Sun. 2:30-4am.
30.96YN	9.69	GRX	Daventry, England	5:45-8:50, 9am-noon,
30.96	9.69	TI4NRH	Heredia, Costa Rica	Tu/Th/Sat 9-10pm; Sun. 7-8am.
30.96	9.69	LRAL	Buenos Aires, Argen.	Mon to Th 6-9pm; Fri. 4-9pm, Sat/Sun 7-9pm.
30.96V	9.69	ZHP	Singapore, S.S.	4:40-9:40am; Wed/Sat 12:40-1:40am Sun 5:40-9:40am.
30.98	9.685	TGWA	Guatemala, Guatemala	10-11:30pm ex. Sun; Sun 7pm-mid.
30.98F	9.683	HNF	Baghdad, Iraq.	6am-3pm. *
31.01	9.675	DXJ	Vienna, Germany	11:40am-4:25pm to Africa.
31.02	9.67	W3XAL	New York City, N.Y.	5pm-mid.
31.03	9.67	ZRO9	Rome, Italy	12:40-5:30, 6-6:30pm.
31.06	9.66	LFX	Buenos Aires, Argen.	6-6:45am, 9:15am-10pm.
31.06	9.66	HVJ	Vatican City, Italy	Sundays 5-5:30am.
31.09	9.65	IABA	Addis Abeba, I.E.A.	3:55-4:05, 4:15-4:45, 11am-noon, 1-3pm; Sun. 3:30-3:55am.
31.12	9.64	CXA8	Colonia, Uruguay	5am-10:45pm or 11pm; Sat. to lam.
31.15	9.63	ZRO3	Rome, Italy	12:07-2:55, 5:30-9pm.
31.15F	9.63	JFO	Taihoku, Taiwan	4-10:30am.
31.19N	9.625	HAD	BUDAPEST, HUNGARY	6-9pm to N.A. *

25.49	11.77	DJD	Zeesen, Germany	11:30am-4:25, 4:50-10:50pm.
25.50	11.76	XETA	Monterrey, Mexico	Noon-3:30pm.
25.53SY	11.75	GSD	Daventry, England	12-2:15, 12:25-4, 4:20-6, 6:20-
25.55	11.74	SP25	Warsaw, Poland	6-9pm. (9:15, 9:40-11:30pm.
25.55	11.74	HVJ	Vatican City, Italy	Tues. 8:30-9am.
25.57V	11.735	COCX	Havana, Cuba	8am-12 mid.
25.57	11.735	LKQ	Oslo, Norway	2-6:40, 10am-3pm. (5:30pm
25.58	11.73	WLXAR	Boston, Mass.	6:30-8:30, 8:45-10pm; Sun 1:30-
25.59S	11.725	JVW3	Tokio, Japan	4-8am irreg. *
25.60	11.72	CJRX	Winnipeg, Canada	Sat. 6pm-Sun. 4am. (6pm.
25.60S	11.72	ZP14	Villarica, Paraguay	Mon thru Fri 5-8pm; Sa/Su 11am-
25.60	11.718	CR7BH	Lourenco Marques, Mozambique	12-1, 4:30-6:30, 9-11am, Noon-4pm, Sun. 4-7, 10am-2pm.
25.61	11.713	TPA4	Pontoise, France	6-8:15, 8:30-11pm to N.A.
25.62	11.71	YSM	San Salvador, El Salvador	1-2:30pm.
25.62	11.71		Saigon, F. Indo-China	7:30-9:45am. (8-9pm
25.63	11.705	SBP	Motala, Sweden	1-4:15pm; Sun 3am-4:15pm; Wed/Sat
25.64	11.70	HP5A	Panama City, Panama	7-8:30am, 10am-1, 5-10pm; Su. 6-10-
25.64	11.70	CB1170	Santiago, Chile	10am-2, 3:30-11pm. (pm
25.74	11.67	IQY	Rome, Italy	5:20-5:40am, 12:06-12:56, 1:50-
26.01	11.535	SPD	Warsaw, Poland	6-9pm. (2:30pm
26.32	11.402	HBO	Geneva, Switzerland	Sun. 7-8:45pm, Mon. 6:45-8:15pm.
27.17	11.04	CSW5	Lisbon, Portugal	11am-4:30pm; Sun. 10am-4:30pm.
27.27	11.00	PLP	Bandoeng, Java	4:30-10:30am, 6-7:30, 10:30pm-2am
28.48	10.535	JIB	Taihoku, Taiwan	Relays JFAK 9-9:55am.
28.55V	10.40	YSP	San Salvador, El Salvador	1-3, 6:30-11pm.
28.96	10.36	EAJ43	Tenerife, Canarias	3-4:30, 5-7, 7:45-8:45, 9-10pm.
29.04	10.33	ORK	Ruyselede, Belgium	12:30-2pm to Belgian Congo. (Sun
29.24	10.26	PMN	Bandoeng, Java	4:30-10:30am, 6-7, 10:30pm-2am ex.
29.35	10.22	PSH	Rio de Janeiro, Brazil	6-7pm; Mon 8-8:30pm; Fri 7-
29.85	10.05	TIEM	San Jose, C.R.	4:30-8pm. (7:30pm.
30.05VS	9.985	COBC	Havana, Cuba	6am-mid. *
30.23	9.925	JDY	Darien, Manchoukuo	7-8am.
30.45S	9.855	EAQ	Madrid, Spain	7:30-8:30pm ex. Sun. *
30.52S	9.83	IRF	Rome, Italy	5:20-5:40, 12-12:25, 12:40-1, 1:50-2:30, 6-9pm.
30.57J	9.815	COCM	Havana, Cuba	8am-12:30am; irreg. to 2am.
30.71F	9.77	HH3W	Port-au-Prince, Haiti	1-2, 7-9:15pm.
30.77S	9.752	ZRO	Durban, So. Africa	11:45pm-12:50, 3:30-7:30, 9-11:15 am; Sun 5:30-7, 9-11:15am.
30.80	9.74	CSW7	Lisbon, Portugal	6-9pm.
30.93	9.70		Fort-de-France, Martinique	6-8:10 or 9:30pm.
30.93	9.70		Saigon, F. Indo-China	7:30-9:45am irreg.
30.95N	9.695	TIE2	TYUREKI, TAIWAN	9:05-10:20am. *
30.95	9.693		Tananarive, Madagascar	12:30-12:45, 3:30-4:30, 10-11am Sun. 2:30-4am.
30.96YN	9.69	GRX	Daventry, England	5:45-8:50, 9am-noon,
30.96	9.69	TI4NRH	Heredia, Costa Rica	Tu/Th/Sat 9-10pm; Sun. 7-8am.
30.96	9.69	LRAL	Buenos Aires, Argen.	Mon to Th 6-9pm; Fri. 4-9pm, Sat/Sun 7-9pm.
30.96V	9.69	ZHP	Singapore, S.S.	4:40-9:40am; Wed/Sat 12:40-1:40am Sun 5:40-9:40am.
30.98	9.685	TGWA	Guatemala, Guatemala	10-11:30pm ex. Sun; Sun 7pm-mid.
30.98F	9.683	HNF	Baghdad, Iraq.	6am-3pm. *
31.01	9.675	DXJ	Vienna, Germany	11:40am-4:25pm to Africa.
31.02	9.67	W3XAL	New York City, N.Y.	5pm-mid.
31.03	9.67	ZRO9	Rome, Italy	12:40-5:30, 6-6:30pm.
31.06	9.66	LFX	Buenos Aires, Argen.	6-6:45am, 9:15am-10pm.
31.06	9.66	HVJ	Vatican City, Italy	Sundays 5-5:30am.
31.09	9.65	IABA	Addis Abeba, I.E.A.	3:55-4:05, 4:15-4:45, 11am-noon, 1-3pm; Sun. 3:30-3:55am.
31.12	9.64	CXA8	Colonia, Uruguay	5am-10:45pm or 11pm; Sat. to lam.
31.15	9.63	ZRO3	Rome, Italy	12:07-2:55, 5:30-9pm.
31.15F	9.63	JFO	Taihoku, Taiwan	4-10:30am.
31.19N	9.625	HAD	BUDAPEST, HUNGARY	6-9pm to N.A. *

31.19S	9.625	CXA6	Montevideo, Uruguay	10:30am-12:30, 3:30-9:30pm.
31.19S	9.62	ZRL	Capetown, So. Africa	11:45pm-12:50am ex. Sat; 3:30-720, 9-11:45am, Sun 3:30-11:45 am int.
31.21J	9.615	TIPG	San Jose, Costa Rica	7-9:30am, 12-2, 8-11:30pm.
31.22	9.61	LLG	Oslo, Norway	3-6pm.
31.22J	9.61	HP5J	Panama City, Panama	Noon-1:30, 6:30-10:30pm.
31.24	9.604	XEYU	Mexico D.F., Mexico	9-11pm irreg.
31.25	9.60	RAN	Moscow, U.S.S.R.	6-7, 7-9, 9-10pm.
31.25	9.60	CB960	Santiago, Chile	8-11:30pm.
31.27	9.595	EIRE	Athlone, Ireland	11:30am-3:30pm. (alternate days)*
31.28	9.59	PCJ	Huizen, Holland	Sun. 2-3, 7:15-9:50pm; Tu 1:45-330- pm, 7-10:15pm; Wed 7:15-8:40; Fri- Weekdays 6-8am. (8-9pm)
31.28	9.59	VK6ME	Perth, W. Australia	Sun 12-2, 4:30-8:30, 10:30am-12:30
31.28	9.59	VK2ME	Sydney, Australia	Mon/Thu 5:30-6:15, 6:30-10:30 (pm
31.28S	9.59	W3XAU	Philadelphia, Pa.	pm; Sat 5:30-6, 6:30-10:30pm. 1:30-3:30, 7am-12:30, 9:30-11:30pm
31.28	9.59	VUD2	Delhi, India	Daily from 6am on. *
31.30N	9.585	KZHS	MANILA, PHILIPPINES	1:30-4, 4:20-6, 6:25-9:20pm.
31.32YS	9.58	GSC	Daventry, England	Weekdays 12 mid-8:30am, Sun 12- 8am-1am. (7:30am.)
31.32S	9.58	VLR	Melbourne, Australia	Weekdays 4:30-6pm; Mon. to Fri. 5-9am; Sat 5-10am; Sun 4-10am.
31.35	9.57	WLXK	Boston, Mass.	5:30-10:30pm.
31.35	9.57	KZRM	Manila, Philippines	11:30am-1:30pm.
31.35	9.57	CXA2	Montevideo, Uruguay	4-9am.
31.38	9.566	OAX4T	Lima, Peru	6:30-10:50pm to C.A.
31.38	9.56	XGAP	Peking, China	4:30-10:30am; 6-7:30, 10:30pm-2am ex. Sat; Sat. 7pm-2am
31.38	9.56	DJA	Zeesen, Germany	1:30-3:30, 5-6am, 9:30-10:30pm.
31.40	9.55	YDB	Soerabaja, Java	5:15-8:15pm to S.A.
31.40	9.55	VUD2	Bombay, India	7:30pm-midnight.
31.41	9.55	W2XAD	Schenectady, N.Y.	12:05-2:30, 9:30-11am, 4:50-10:50p 5:30-7am ex. Sundays.
31.41	9.55	XEFT	Veracruz, Mexico	4:15-5:05pm. *
31.45	9.54	DJN	Zeesen, Germany	7am-noon, 12 mid-3am to Asia.
31.46	9.538	VPD2	Suva, Fiji's	3-5, 5-11pm to S.A.
31.47N	9.535	SBU	MOTALA, SWEDEN	2-4am, 10pm-2am.
31.48S	9.53	W6XBE	San Francisco, Calif.	Noon-4:30, 7pm-mid. (9:30a
31.48	9.53	W2XAF	Schenectady, N.Y.	5-10am, 11:30pm-1:15am, Sun 5- 2:35-5:30pm.
31.48	9.528	VUC2	Calcutta, India	5-7am; Sundays 5:30-7am.
31.50	9.525	XEDQ	Guadalajara, Mexico	8-9:30, 9:30-11pm.
31.50	9.525	ZBW3	Hong Kong, Hong Kong	1-3, 4-7pm & irreg.
31.50S	9.525	SP31	Warsaw, Poland	12-2:15am, 6:20-9:15, 9:40-11:30pm
31.50S	9.523	ZRG	Pretoria, So. Africa	7-10am except Mondays. *
31.51	9.52	OZF	Skamlebak, Denmark	7:45am-12:30am.
31.51	9.52	RV96	Moscow, U.S.S.R.	4:45-5:55pm ex. Sundays.
31.55YS	9.51	GVB	Daventry, England	12:15-5pm.
31.55S	9.51	HS8PJ	Bangkok, Siam	4-7am ex. Sundays.
31.57	9.503	XEWW	Mexico D.F., Mexico	6-9:05am; 8:30pm-2:40am irreg. *
31.58	9.501	PRF5	Rio de Janeiro, Brazil	6:45-9:15am, 11:45pm-12:45am *
31.58	9.50	OFD	Lahti, Finland	11:30am-5pm.
31.58	9.50	VK3ME	Melbourne, Australia	8:15-10:15pm ex. Sundays.
31.60VS	9.492	KZ1B	Manila, P.I.	8am-11pm; Sun. 8am-10pm.
31.61	9.49		Saigon, F. Indo-China	7-11:30pm.
31.70	9.465	TAP	Ankara, Turkey	Saturdays 8-11pm.
31.77	9.445	HCODA	Guayaquil, Ecuador	Noon-3, and 5pm-mid.
31.79V	9.436	COCH	Havana, Cuba	8-9am in Chinese.
31.95	9.39	OAX5C	Ica, Peru	6:40-8:40, 11:40am-2:10, 3:40- 12-lpm and 12 mid-lam. * (4:40pm,
32.07V	9.354	HCIETC	Quito, Ecuador	8am-11:30pm.
32.12	9.34	OAX4J	Lima, Peru	near 1:45am and Sun. at 8:15am *
32.28	9.295	XTC	Shanghai, China	8-10pm; Sun. 8:30-10:30pm. *
32.28X	9.295	HI2G	Trujillo City, D.R.	Mon/Wed/Sat 9-9:55pm.
32.34S	9.285	LYR	Kaunas, Lithuania	
32.56	9.205	COBX	Havana, Cuba	
32.61	9.20		Sofia, Bulgaria	
32.64S	9.19	HC2ET	Guayaquil, Ecuador	
32.72	9.17	HCLGQ	Quito, Ecuador	

31.19S	9.625	CXA6	Montevideo, Uruguay	10:30am-12:30, 3:30-9:30pm.
31.19S	9.62	ZRL	Capetown, So. Africa	11:45pm-12:50am ex. Sat; 3:30-720, 9-11:45am, Sun 3:30-11:45 am int.
31.21J	9.615	TIPG	San Jose, Costa Rica	7-9:30am, 12-2, 8-11:30pm.
31.22	9.61	LLG	Oslo, Norway	3-6pm.
31.22J	9.61	HP5J	Panama City, Panama	Noon-1:30, 6:30-10:30pm.
31.24	9.604	XEYU	Mexico D.F., Mexico	9-11pm irreg.
31.25	9.60	RAN	Moscow, U.S.S.R.	6-7, 7-9, 9-10pm.
31.25	9.60	CB960	Santiago, Chile	8-11:30pm.
31.27	9.595	EIRE	Athlone, Ireland	11:30am-3:30pm. (alternate days)*
31.28	9.59	PCJ	Huizen, Holland	Sun. 2-3, 7:15-9:50pm; Tu 1:45-330- pm, 7-10:15pm; Wed 7:15-8:40; Fri- Weekdays 6-8am. (8-9pm)
31.28	9.59	VK6ME	Perth, W. Australia	Sun 12-2, 4:30-8:30, 10:30am-12:30
31.28	9.59	VK2ME	Sydney, Australia	Mon/Thu 5:30-6:15, 6:30-10:30 (pm
31.28S	9.59	W3XAU	Philadelphia, Pa.	pm; Sat 5:30-6, 6:30-10:30pm. 1:30-3:30, 7am-12:30, 9:30-11:30pm
31.28	9.59	VUD2	Delhi, India	Daily from 6am on. *
31.30N	9.585	KZHS	MANILA, PHILIPPINES	1:30-4, 4:20-6, 6:25-9:20pm.
31.32YS	9.58	GSC	Daventry, England	Weekdays 12 mid-8:30am, Sun 12- 8am-1am. (7:30am.)
31.32S	9.58	VLR	Melbourne, Australia	Weekdays 4:30-6pm; Mon. to Fri. 5-9am; Sat 5-10am; Sun 4-10am.
31.35	9.57	WLXK	Boston, Mass.	5:30-10:30pm.
31.35	9.57	KZRM	Manila, Philippines	11:30am-1:30pm.
31.35	9.57	CXA2	Montevideo, Uruguay	4-9am.
31.38	9.566	OAX4T	Lima, Peru	6:30-10:50pm to C.A.
31.38	9.56	XGAP	Peking, China	4:30-10:30am; 6-7:30, 10:30pm-2am ex. Sat; Sat. 7pm-2am
31.38	9.56	DJA	Zeesen, Germany	1:30-3:30, 5-6am, 9:30-10:30pm.
31.40	9.55	YDB	Soerabaja, Java	5:15-8:15pm to S.A.
31.40	9.55	VUD2	Bombay, India	7:30pm-midnight.
31.41	9.55	W2XAD	Schenectady, N.Y.	12:05-2:30, 9:30-11am, 4:50-10:50p 5:30-7am ex. Sundays. *
31.41	9.55	XEFT	Veracruz, Mexico	4:15-5:05pm.
31.45	9.54	DJN	Zeesen, Germany	7am-noon, 12 mid-3am to Asia.
31.46	9.538	VPD2	Suva, Fiji's	3-5, 5-11pm to S.A.
31.47N	9.535	SBU	MOTALA, SWEDEN	2-4am, 10pm-2am.
31.48S	9.53	W6XBE	San Francisco, Calif.	Noon-4:30, 7pm-mid. (9:30a
31.48	9.53	W2XAF	Schenectady, N.Y.	5-10am, 11:30pm-1:15am, Sun 5- 2:35-5:30pm.
31.48	9.528	VUC2	Calcutta, India	5-7am; Sundays 5:30-7am.
31.50	9.525	XEDQ	Guadalajara, Mexico	8-9:30, 9:30-11pm.
31.50	9.525	ZBW3	Hong Kong, Hong Kong	1-3, 4-7pm & irreg.
31.50S	9.525	SP31	Warsaw, Poland	12-2:15am, 6:20-9:15, 9:40-11:30pm
31.50S	9.523	ZRG	Pretoria, So. Africa	7-10am except Mondays. *
31.51	9.52	OZF	Skamlebak, Denmark	7:45am-12:30am.
31.51	9.52	RV96	Moscow, U.S.S.R.	4:45-5:55pm ex. Sundays.
31.55YS	9.51	GVB	Daventry, England	12:15-5pm.
31.55S	9.51	HS8PJ	Bangkok, Siam	4-7am ex. Sundays.
31.57	9.503	XEWW	Mexico D.F., Mexico	6-9:05am; 8:30pm-2:40am irreg. *
31.58	9.501	PRF5	Rio de Janeiro, Brazil	6:45-9:15am, 11:45pm-12:45am *
31.58	9.50	OFD	Lahti, Finland	11:30am-5pm.
31.58	9.50	VK3ME	Melbourne, Australia	8:15-10:15pm ex. Sundays.
31.60VS	9.492	KZ1B	Manila, P.I.	8am-11pm; Sun. 8am-10pm.
31.61	9.49		Saigon, F. Indo-China	7-11:30pm.
31.70	9.465	TAP	Ankara, Turkey	Saturdays 8-11pm.
31.77	9.445	HCODA	Guayaquil, Ecuador	Noon-3, and 5pm-mid.
31.79V	9.436	COCH	Havana, Cuba	8-9am in Chinese.
31.95	9.39	OAX5C	Ica, Peru	6:40-8:40, 11:40am-2:10, 3:40- 12-lpm and 12 mid-lam. * (4:40pm,
32.07V	9.354	HCIETC	Quito, Ecuador	8am-11:30pm.
32.12	9.34	OAX4J	Lima, Peru	near 1:45am and Sun. at 8:15am *
32.28	9.295	XTC	Shanghai, China	8-10pm; Sun. 8:30-10:30pm. *
32.28X	9.295	HI2G	Trujillo City, D.R.	Mon/Wed/Sat 9-9:55pm.
32.34S	9.285	LYR	Kaunas, Lithuania	
32.56	9.205	COBX	Havana, Cuba	
32.61	9.20		Sofia, Bulgaria	
32.64S	9.19	HC2ET	Guayaquil, Ecuador	
32.72	9.17	HCIQG	Quito, Ecuador	

32.88	9.125	HAT4	Budapest, Hungary	7-8pm; Sat. 6-7pm.	
32.89JF	9.12	HC2CW	Guayaquil, Ecuador	11am-1, 7-11pm.	
32.97V	9.10	COCA	Havana, Cuba	Noon-1:15am; till 3am irreg.	
33.00	9.091	PJCI	Curacao, D.W.I.	6:36-8:36pm; Su 10:36am-12:36pm.	
33.24	9.025	COBZ	Havana, Cuba	7:45am-1:15am.	
33.48	8.96	COKG	Santiago, Cuba	5-6, 9:30-10:30pm.	
33.48	8.96	TPZ2	Algiers, Algeria	Tuesdays 12:30-1:30pm.	
33.90JS	8.85	COCQ	Havana, Cuba	5:55am-12 mid.	
34.50F	8.695	COCO	Havana, Cuba	7:55am-12 mid.	
34.68JS	8.65	COJK	Camaguey, Cuba	11:30am-12:30, 3:30-6, 8-8:30pm.*	
34.97	8.58	YNPR	Managua, Nicaragua	12:45-2:15, 6:45-10:15pm.	
35.02	8.572		Bucharest, Roumania	8:15-10:30am, 4-7pm.	
38.00	7.894	YSD	San Salvador, El Salvador	7-10:30pm.	
38.12	7.87	HCI1RB	Quito, Ecuador	8:30-11:30pm.	
38.20	7.854	HC2JSB	Guayaquil, Ecuador	11am-2, 4-11pm.	
38.22S	7.85	ZAA	Tirana, Albania	6:30-8am; Sun. 6:30-8:30am.	*
39.16FS	7.66	YNDG	Leon, Nicaragua	8:30-9:30pm.	*
39.89	7.614	CR6AA	Lobito, Angola	Mon/Wed/Sat 2:30-4:30pm.	
39.89S	7.52	KKH	Kahuku, Hawaii	Sun 9-9:30pm.	*
40.05	7.49	EAJ43	Tenerife, Canarias	8-9:30pm & irreg.	
40.27	7.45	TI2RS	San Jose, C.R.	7-11pm.	
40.32	7.44	FG8AH	Pointe-a-Pitre, Guadeloupe	6-7:10pm.	*
40.65	7.38	XECR	Mexico D.F., Mexico	Sundays 6-7pm.	
41.01S	7.31	VIG	Port Moresby, Papua	Aug. 12/26, 3-5am.	
41.13N	7.295	JIE	TYUREKI, TAIWAN	9:05-10:20am.	*
41.21S	7.28	TPB11	Paris, France	10:15am-12:45, 1-5:15pm	
41.32N	7.26	CSW8	LISBON, PORTUGAL	Tues/Thurs/Sat 4:05-5pm.	*
41.38	7.25	YDA	Bandoeng, Java	10:30pm-2am; Sat. 7:30pm-2am.	
41.55	7.22		Malaga, Spain	3:30-5:40pm.	
41.55	7.22	YDX	Medan, Sumatra	5:30-7:45am, 10pm-1:30am.	
41.67	7.20	YIJG	Baghdad, Iraq.	7:30am-4 or 5pm.	
41.78N	7.18	EA9AI	Melilla, Span, Morocco	Sat. 9-10pm.	*
42.25	7.10	FO8AA	Papeete, Tahiti	Sat 12:01-3:30am.	
42.80	7.01	XPSA	Kweiyang, China	5:30-11am.	
43.10	6.96	2ZB	Wellington, N.Z.	Not broadcasting at present.	
43.67F	6.87	XOJD	Hankow, China	6-8:35am.	*
44.12	6.80	PZH	Paramaribo, D. Guiana	Mon/Wed/Fri 5:41-8:41pm.	
44.25	6.78	HIH	San Pedro, D.R.	7-9:40pm; Sun. 5:20-6:40pm.	
44.38	6.76	HI7P	Trujillo City, D.R.	7:10-8:40pm; Sun 9:40-10:40pm.	
44.38	6.76	YNRF	Managua, Nicaragua	6:45-10:15 or 11pm.	
44.51	6.74	HCITQ	Quito, Ecuador	Sundays 5-7pm.	
44.58	6.73	HI3C	La Romana, D.R.	To 8:20pm.	
44.64	6.72	PMH	Bandoeng, Java	4:30-11am; Sun 8:30pm-1:30am.	
44.81	6.695	TIEP	San Jose, C.R.	7pm-midnight.	
45.06	6.66	HI5G	Trujillo City, D.R.	To 8:40pm.	(pm)
45.22	6.635	HC2RL	Guayaquil, Ecuador	Sun. 5:45-7:45 & Tues 9:15-11:15	
45.25	6.63	HIT	Trujillo City, D.R.	12:10-1:40, 4:40-8:40pm.	
45.29	6.625	PRADO	Riobamba, Ecuador	Thursdays 9-11pm.	
45.39V	6.61	YNLG	Managua, Nicaragua	1:30-2:30, 6-10:15pm.	
45.45	6.60	HIGH	Trujillo City, D.R.	7:40-8:40pm & early AMs.	
45.70	6.565	HI5P	Puerto Plata, D.R.	5:40-7:40, 9:40-11:40am.	
45.80F	6.55	TIRCC	San Jose, C.R.	Tu/Th/Sat 6-7pm; Sun. 8-10pm.	
45.87	6.54	YNLGG	Managua, Nicaragua	1-2:30, 8-10pm ex. Sundays.	
46.15	6.50	HIL	Trujillo City, D.R.	12:30-2, 6-8 or 9pm ex. Sundays.	
46.25FV	6.486	TGWB	Guatemala, Guatemala	7:45-9, 12:45-3:45, 7:30pm-12:15 am; Sun 10:30am-5:15, 7pm-mid.	
46.26	6.485	HILL	Santiago, d.l.c., DR,	Weekdays 5:30-9:30pm.	
46.44	6.455	H14V	S.F. de Macoris, D.R.	5:10-7:40pm; to 10pm irreg.	
46.66	6.428	H1LS	Santiago, D.R.	5:40-7:35 or 9pm ex. Sundays.	
46.88	6.40	TGQA	Quezaltenango, Guatemala	8-11pm; Sat 8pm-1am, Sun	
46.97V	6.388	HI9B	Santiago, D.R.	5-8:45pm irreg. (7:30am-3pm.	
46.99	6.384	ZIZ	Basseterre, St. Kitts	4-4:45pm; Wed. 7-7:30pm.	
47.02F	6.38	TIWS	Puntarenas, C.R.	5-7, 7:30-10; Sun. 5-6pm.	
47.20	6.357	HRP1	San Pedro Sula, Honduras	6-7:30am, 2-4; irreg. 10pm.	
47.32	6.34	H1LX	Trujillo City, D.R.	8:10-10:10pm; Sun. 7:40-9:40am.	

32.88	9.125	HAT4	Budapest, Hungary	7-8pm; Sat. 6-7pm.	
32.89JF	9.12	HC2CW	Guayaquil, Ecuador	11am-1, 7-11pm.	
32.97V	9.10	COCA	Havana, Cuba	Noon-1:15am; till 3am irreg.	
33.00	9.091	PJCI	Curacao, D.W.I.	6:36-8:36pm; Su 10:36am-12:36pm.	
33.24	9.025	COBZ	Havana, Cuba	7:45am-1:15am.	
33.48	8.96	COKG	Santiago, Cuba	5-6, 9:30-10:30pm.	
33.48	8.96	TPZ2	Algiers, Algeria	Tuesdays 12:30-1:30pm.	
33.90JS	8.85	COCQ	Havana, Cuba	5:55am-12 mid.	
34.50F	8.695	COCO	Havana, Cuba	7:55am-12 mid.	
34.68JS	8.65	COJK	Camaguey, Cuba	11:30am-12:30, 3:30-6, 8-8:30pm.*	
34.97	8.58	YNPR	Managua, Nicaragua	12:45-2:15, 6:45-10:15pm.	
35.02	8.572		Bucharest, Roumania	8:15-10:30am, 4-7pm.	
38.00	7.894	YSD	San Salvador, El Salvador	7-10:30pm.	
38.12	7.87	HCI1RB	Quito, Ecuador	8:30-11:30pm.	
38.20	7.854	HC2JSB	Guayaquil, Ecuador	11am-2, 4-11pm.	
38.22S	7.85	ZAA	Tirana, Albania	6:30-8am; Sun. 6:30-8:30am.	*
39.16FS	7.66	YNDG	Leon, Nicaragua	8:30-9:30pm.	*
39.89	7.614	CR6AA	Lobito, Angola	Mon/Wed/Sat 2:30-4:30pm.	
39.89S	7.52	KKH	Kahuku, Hawaii	Sun 9-9:30pm.	*
40.05	7.49	EAJ43	Tenerife, Canarias	8-9:30pm & irreg.	
40.27	7.45	TI2RS	San Jose, C.R.	7-11pm.	
40.32	7.44	FG8AH	Pointe-a-Pitre, Guadeloupe	6-7:10pm.	*
40.65	7.38	XECR	Mexico D.F., Mexico	Sundays 6-7pm.	
41.01S	7.31	VIG	Port Moresby, Papua	Aug. 12/26, 3-5am.	
41.13N	7.295	JIE	TYUREKI, TAIWAN	9:05-10:20am.	*
41.21S	7.28	TPB11	Paris, France	10:15am-12:45, 1-5:15pm	
41.32N	7.26	CSW8	LISBON, PORTUGAL	Tues/Thurs/Sat 4:05-5pm.	*
41.38	7.25	YDA	Bandoeng, Java	10:30pm-2am; Sat. 7:30pm-2am.	
41.55	7.22		Malaga, Spain	3:30-5:40pm.	
41.55	7.22	YDX	Medan, Sumatra	5:30-7:45am, 10pm-1:30am.	
41.67	7.20	YIJG	Baghdad, Iraq.	7:30am-4 or 5pm.	
41.78N	7.18	EA9AI	Melilla, Span, Morocco	Sat. 9-10pm.	*
42.25	7.10	FO8AA	Papeete, Tahiti	Sat 12:01-3:30am.	
42.80	7.01	XPSA	Kweiyang, China	5:30-11am.	
43.10	6.96	2ZB	Wellington, N.Z.	Not broadcasting at present.	
43.67F	6.87	XOJD	Hankow, China	6-8:35am.	*
44.12	6.80	PZH	Paramaribo, D. Guiana	Mon/Wed/Fri 5:41-8:41pm.	
44.25	6.78	HIH	San Pedro, D.R.	7-9:40pm; Sun. 5:20-6:40pm.	
44.38	6.76	HI7P	Trujillo City, D.R.	7:10-8:40pm; Sun 9:40-10:40pm.	
44.38	6.76	YNRF	Managua, Nicaragua	6:45-10:15 or 11pm.	
44.51	6.74	HCITQ	Quito, Ecuador	Sundays 5-7pm.	
44.58	6.73	HI3C	La Romana, D.R.	To 8:20pm.	
44.64	6.72	PMH	Bandoeng, Java	4:30-11am; Sun 8:30pm-1:30am.	
44.81	6.695	TIEP	San Jose, C.R.	7pm-midnight.	
45.06	6.66	HI5G	Trujillo City, D.R.	To 8:40pm.	(pm)
45.22	6.635	HC2RL	Guayaquil, Ecuador	Sun. 5:45-7:45 & Tues 9:15-11:15	
45.25	6.63	HIT	Trujillo City, D.R.	12:10-1:40, 4:40-8:40pm.	
45.29	6.625	PRADO	Riobamba, Ecuador	Thursdays 9-11pm.	
45.39V	6.61	YNLG	Managua, Nicaragua	1:30-2:30, 6-10:15pm.	
45.45	6.60	HIGH	Trujillo City, D.R.	7:40-8:40pm & early AMs.	
45.70	6.565	HI5P	Puerto Plata, D.R.	5:40-7:40, 9:40-11:40am.	
45.80F	6.55	TIRCC	San Jose, C.R.	Tu/Th/Sat 6-7pm; Sun. 8-10pm.	
45.87	6.54	YNLGG	Managua, Nicaragua	1-2:30, 8-10pm ex. Sundays.	
46.15	6.50	HIL	Trujillo City, D.R.	12:30-2, 6-8 or 9pm ex. Sundays.	
46.25FV	6.486	TGWB	Guatemala, Guatemala	7:45-9, 12:45-3:45, 7:30pm-12:15 am; Sun 10:30am-5:15, 7pm-mid.	
46.26	6.485	HILL	Santiago, d.l.c., DR,	Weekdays 5:30-9:30pm.	
46.44	6.455	H14V	S.F. de Macoris, D.R.	5:10-7:40pm; to 10pm irreg.	
46.66	6.428	H1LS	Santiago, D.R.	5:40-7:35 or 9pm ex. Sundays.	
46.88	6.40	TGQA	Quezaltenango, Guatemala	8-11pm; Sat 8pm-1am, Sun	
46.97V	6.388	H19B	Santiago, D.R.	5-8:45pm irreg. (7:30am-3pm.	
46.99	6.384	ZIZ	Basseterre, St. Kitts	4-4:45pm; Wed. 7-7:30pm.	
47.02F	6.38	TIWS	Puntarenas, C.R.	5-7, 7:30-10; Sun. 5-6pm.	
47.20	6.357	HRP1	San Pedro Sula, Honduras	6-7:30am, 2-4; irreg. 10pm.	
47.32	6.34	H1LX	Trujillo City, D.R.	8:10-10:10pm; Sun. 7:40-9:40am.	

47.36	6.334	OAX1A	Chiclayo, Peru	8-11pm.
47.39	6.33	COCW	Havana, Cuba	6:55am-1am; Sun. 9:55am-10pm.
47.51	6.315	HI1Z	Trujillo City, D.R.	11:40am-12:40pm; 5:10-7:40pm ex.
47.66	6.295	OAX4G	Lima, Peru	6 or 7pm to mid. (Sun.
47.69V	6.29	HI1G	Trujillo City, D.R.	6:40-8:40, 11:40am-2:10, 3:40-940
47.96	6.255	CPL2	La Paz, Bolivia	7-9pm. (pm
48.05	6.243	HI1N	Trujillo City, D.R.	5:10-10:40pm or later.
48.11	6.235	HRD	La Ceiba, Honduras	8-11pm; Sun. 4-6pm.
48.31	6.21		Saigon, F. Indo-China	7:30-9:45am, 11:45pm-1am.
48.43	6.195	TG2	Guatemala, Guatemala	7:30-10am, 6-11:30pm, Sat 6pm-3 am, Sun 3-8pm. For IDA Sun 2-2:30 5:10-7:10pm. (am
48.43	6.195	HI2D	Trujillo City, D.R.	5:10-7:10pm. (am
48.47	6.19	6.03	HVJ, Vatican City	M/Wd/Th/Sa 2-3:30pm; Tu/F 2-3pm.
48.47	6.19	HI1A	Santiago, D.R.	10:40am-1:40, 6:40-9:40pm.
48.58	6.175	XEXA	Mexico D.F., Mexico	8-11am, 2:30-4, 7:30pm-12:45am; Su
48.66	6.165	TILS	San Jose, C.R.	Noon-2:30pm, 6-11pm (1:30pm-145a
48.78	6.15	HJ4DAE	Medellin, Colombia	9:30am-1pm, 5-11:30pm.
48.81S	6.147	ZTD	Durban, So. Africa	11:20am-3:45pm; Sun. 11:30-3:20p
48.81	6.147	CJRO	Winnipeg, Canada	Sat 6pm-Sun. 4am.
48.86	6.14	W8XK	Pittsburgh, Pa.	10pm-mid.
48.86C	6.14	OQ2AA	Leopoldville, Belgian Congo	Sundays 5:35-7am.
48.86N	6.14		MANILA, PHILIPPINES	5-9am or later. *
48.86S	6.14	SP48	Warsaw, Poland	2:25-5:30pm. *
48.88	6.138	COCD	Havana, Cuba	10am-11pm; Sun. 10am-9pm.
48.88	6.137	CR7AA	Lourenco, Mozambique	12-1, 4:30-6:30, 9-11am, 12-4, Su 5-7am, 10am-2pm. (Noon-11:15pm.
48.93	6.132	CHNX	Halifax, N.S., Canada	7am-11:15pm; Sat 8am-11pm; Sun
48.93C	6.132	TGXA	Guatemala, Guatemala	Heard irreg.
48.94	6.13	VP3BG	Georgetown, B. Guiana	10:15-11:15am, 3:45-7:45pm ex.
48.94	6.13	LKJ	Jeloy, Norway	Noon-6pm irreg. (Sun.
48.98N	6.125	MTCY	HSINGKING, MANCHOUKUO	7-9am approx. *
49.00	6.122	FK3AA	Noumea, New Caledonia	Wed/Sat 2:30-3:30am.
49.00V	6.122	HP5H	Panama City, Panama	6-10:30pm; to mid. irreg. (49M
49.00	6.12	W2XE	New York City, N.Y.	11pm-mid.
49.04B	6.117	XEUZ	Mexico D.F., Mexico	9am-1, 7pm-2am. (-12:15am
49.05S	6.116		Saigon, F. Indo-China	6:45-8:30am, 6:45-7:15, 11:45pm
49.14	6.105	HJ6ABB	Manizales, Colombia	5:30-10pm ex. Sun; Sat. to 11pm.
49.18V	6.10	YUA	Belgrade, Yugoslavia	12:43-3, 6:30-8:30am, 12-6:30pm.
49.18	6.10	W3XL	New York City, N.Y.	9pm-mid to So. America.
49.18N	6.10	KZRH	MANILA, PHILIPPINES	Testing from 5 to 8am irreg. *
49.20	6.097	ZRK	Capetown, So. Africa	12-4pm; Sun. 12-3:20pm.
49.20	6.097	ZRJ	Johannesburg, S. Afr.	11:45pm-11:30am inter. ex. Sat.
49.24F	6.093	HP5F	Colon, Panama	7-9pm.
49.25S	6.09	ZNS	Nassau, Bahamas	1:30-2, 6:20-10pm. *
49.25F	6.09	ZHJ	Penang, S.S.	6:40-8:40am ex. Sundays *
49.25	6.09	XEBF	Jalapa, Mexico	Irreg. in evenings. *
49.30S	6.085	ZAA	Tirana, Albania	1-2:30pm.
49.32	6.083	VQ7LO	Nairobi, Kenya	5:30-6, 11:15am-2:15pm; Tues/Thur
49.34	6.08	CRY9	Macao, Macao	Mon. 8:30-10am. (8:15-9:15am
49.34	6.08	XEQQ	Mexico D.F., Mexico	6-11pm.
49.37	6.077	OAX4Z	Lima, Peru	7am-1:30am.
49.42	6.07	CFRX	Toronto, Canada	7am-12:30am; Sun 10am-11pm.
49.46	6.065	SBO	Motala, Sweden	4:15-5pm. (-4am
49.48	6.063		Tananarive, Madagascar	12:30-12:45, 10-11am, Sun 2:30
49.50S	6.06	W3XAU	Philadelphia, Pa.	Tu/Wd/F 5:30-6:15, 6:30-11pm; Sat 11pm-mid; Sun 6:30-11pm.
49.50	6.06	W8XAL	Cincinnati, Ohio	Sun 8am-6:30pm; M/Th 5:40am-2am Tu/Wed/Fr 5:45am-5:30pm; Sat 545 6:45-7:30pm 2 or 3 times a week 9am-noon, 6:30-10pm.
49.56	6.054	9MI	M/V Kanimbla	7-11pm. (pm
49.56	6.054	HJ6ABA	Pereira, Colombia	7-11pm. (pm
49.63	6.045	XETW	Tampico, Mexico	7-11pm. (pm
49.67	6.04	WLXAL	Boston, Mass.	6:30-9pm ex. Sat/Sun; Su 1:30-6
49.67	6.04	W4XB	Miami, Florida	1-3, 9pm-2am; Sun 4-6pm.
49.73	6.033	HP5B	Panama City, Panama	10:30am-2, 6-10pm.

47.36	6.334	OAX1A	Chiclayo, Peru	8-11pm.
47.39	6.33	COCW	Havana, Cuba	6:55am-1am; Sun. 9:55am-10pm.
47.51	6.315	HI1Z	Trujillo City, D.R.	11:40am-12:40pm; 5:10-7:40pm ex.
47.66	6.295	OAX4G	Lima, Peru	6 or 7pm to mid. (Sun.
47.69V	6.29	HI1G	Trujillo City, D.R.	6:40-8:40, 11:40am-2:10, 3:40-940
47.96	6.255	CPL2	La Paz, Bolivia	7-9pm. (pm
48.05	6.243	HI1N	Trujillo City, D.R.	5:10-10:40pm or later.
48.11	6.235	HRD	La Ceiba, Honduras	8-11pm; Sun. 4-6pm.
48.31	6.21		Saigon, F. Indo-China	7:30-9:45am, 11:45pm-1am.
48.43	6.195	TG2	Guatemala, Guatemala	7:30-10am, 6-11:30pm, Sat 6pm-3 am, Sun 3-8pm. For IDA Sun 2-2:30 5:10-7:10pm. (am
48.43	6.195	HI2D	Trujillo City, D.R.	5:10-7:10pm. (am
48.47	6.19	6.03	HVJ, Vatican City	M/Wd/Th/Sa 2-3:30pm; Tu/F 2-3pm.
48.47	6.19	HI1A	Santiago, D.R.	10:40am-1:40, 6:40-9:40pm.
48.58	6.175	XEXA	Mexico D.F., Mexico	8-11am, 2:30-4, 7:30pm-12:45am; Su
48.66	6.165	TILS	San Jose, C.R.	Noon-2:30pm, 6-11pm (1:30pm-145a
48.78	6.15	HJ4DAE	Medellin, Colombia	9:30am-1pm, 5-11:30pm.
48.81S	6.147	ZTD	Durban, So. Africa	11:20am-3:45pm; Sun. 11:30-3:20p
48.81	6.147	CJRO	Winnipeg, Canada	Sat 6pm-Sun. 4am.
48.86	6.14	W8XK	Pittsburgh, Pa.	10pm-mid.
48.86C	6.14	OQ2AA	Leopoldville, Belgian Congo	Sundays 5:35-7am.
48.86N	6.14		MANILA, PHILIPPINES	5-9am or later. *
48.86S	6.14	SP48	Warsaw, Poland	2:25-5:30pm. *
48.88	6.138	COCD	Havana, Cuba	10am-11pm; Sun. 10am-9pm.
48.88	6.137	CR7AA	Lourenco, Mozambique	12-1, 4:30-6:30, 9-11am, 12-4, Su 5-7am, 10am-2pm. (Noon-11:15pm.
48.93	6.132	CHNX	Halifax, N.S., Canada	7am-11:15pm; Sat 8am-11pm; Sun
48.93C	6.132	TGXA	Guatemala, Guatemala	Heard irreg.
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49.73	6.033	HP5B	Panama City, Panama	10:30am-2, 6-10pm.

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Ax'ers Alliance

CHARLES A. MORRISON
EDITOR

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SO. CALIF (Los Angeles). The meeting of June 24, was a picnic lunch at Montebello Park Club House. The monthly dx contest was won by the Amers with a fine QSL card from BCB station JOPK. The next meeting will be a barbeque to be held at the home of the Amers the last Saturday in August. Further information can be obtained by contacting Hal Klein, 1821 Santa Ynez St., Los Angeles, Calif.

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Messrs G. Sholin, A. Walcott, J. Moore, and all members of the IDA Golden Gate Chapter deserve the appreciation and commendation of every member for their untiring effort in behalf of the IDA Convention (we hope to have some remarks about the Convention in time for the Stop Press Sheet).

The latest Hallicrafter's receiver triumph, the SX-23, which embodies many new and novel dx features, has been set up for tests at IDA Headquarters and just as soon as we have time to test it thoroughly and to get our receiving aerials up again following a terrific wind-storm, we will pass on the results to you. Initial and hurried tests indicate the set has an uncanny ability to bring in and hold at readable volume weak dx signals. Full technical information and prices on the SX-23 is available here at Headquarters for those who might be interested.

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DATE: SAT., AUG. 5. . . PLACE: Home of Frank R. Grey, W9LLM, 4416 Florence Ave., Downers Grove, Ill. . . SPECIAL RADIO activities, games, eats and refreshments will be featured and a good turn-out is expected. Those who will attend include Ama-Touring Ed., Roger Legge, and Norm Kriebel of New York, Chas. Morrison from Bloomington, and several members from Michigan. L. Herz, 723 California Ter., Chicago, Ill. heads the Convention committee.

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W.C. Palmer, Rt. #2, Brunswick, Ohio, (swap SWL cards)... Ray Kastl, 465 Douglass St., San Francisco, Calif. (swap stamps & magazines with members outside U.S. & England)... Eric Butcher, Cokeville, Wyoming. (swap letters with members in Samoa, Tahiti, Guatemala or Cook Isls)... C. Drain, 617 Camden St., Parkersburg, Va. (swap snapshots of dx'ers; of their Listening Posts or SWL cards)... Chas M. Robinson, 431 Bayard St., Waterloo, Iowa (swap information with any RME 70 receiver users)... Claude Jones, 1 Dudley Road, Copnor, Portsmouth, Hants, England (swap SWL cards & views of railway trains or locomotives)... Ron E. J. White, 26 Leslie St., P.O. Box 493, St. John's, Newfoundland (Swap SWL cds)

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16	49.75	6.03	CFVP	Calgary, Alta. Canada	10am-2am.
	49.75	6.03	RV96	Moscow, U.S.S.R.	1-3, 4-7pm.
	49.81	6.023	XEUW	Veracruz, Mexico	10pm-1am.
	49.83	6.02	DJC	Zeesen, Germany	11:30am-4:25pm to Africa.
	49.92	6.01	PRA8	Pernambuco, Brazil	4-9pm.
	49.92	6.01	CJCX	Sydney, Nova Scotia	7am-1:30, 4-8:30pm. (pm)
	49.94	6.007	XYZ	Rangoon, Burma	6:30-10am, 9-11pm; Sat 9:30-11:30
	49.94S	6.007	ZRH	Pretoria, So. Africa	11:45-12:45am ex. Sat, 9:30am-3:30
	49.94V	6.005	CFCX	Montreal, Canada	pm; Sun 9:40am-noon, 12:15-3:15pm
	50.00V	6.000	HP5K	Colon, Panama	7-9am, 12-1, 6-11pm.
	50.00	6.00	XEBT	Mexico D.F., Mexico	10am-1:45am.
	50.11FV	5.987	HH2S	Port-au-Prince, Haiti	6:30-9 or 10pm.
	50.17	5.98	VONG	St. John's, Newfoundland	8:30am-12:30, 1:30-9:30 pm.
	50.21	5.975	OAX4P	Huancayo, Peru	9-11pm. mid.
	50.51	5.94	TG2X	Guatemala, Guatemala	Mon/Thurs 9-11:30pm; Sat 10pm-
	50.51	5.94	OAX2A	Trujillo, Peru	Tues/Thurs/Sat/Sun 7-10pm.
	50.74FV	5.913	H11J	San Pedro, D.R.	11:40am-1:40, 6:10-8:30 pm.
	50.85	5.90	ZNB	Mafeking, Bechuanaland	1-2:30pm; 6-7am ex. Sun.
	51.07	5.875	HRN	Tegucigalpa, Honduras	6-11pm.
	51.46	5.83	TIGPH	San Jose, C.R.	7-10pm.
	51.46	5.83	TIXGP3	San Jose, C.R.	10-11pm.
	51.50	5.825	TIGPH2	San Jose, C.R.	Noon-2, 7-11pm ex. Sundays.
	51.77	5.795	HRK	Tegucigalpa, Honduras	Nightly to 11pm.
	52.12FJ	5.755	YNOP	Managua, Nicaragua	8-9:30pm; Sundays 2-3pm.
	52.40	5.725	HClPM	Quito, Ecuador	Sundays 9-11pm.
	55.97JF	5.36	HCK	Quito, Ecuador	Evenings irreg.
	56.60	5.30	ZIK3	Belize, Brit. Honduras	Tu/Th/Sa 1:30-2, 8:30-9pm.
	57.42	5.225	YVA	Caracas, Venezuela	Heard early evenings.
	58.31	5.14	PMY	Bandoeng, Java	5:30am-noon. (-10pm)
	59.25V	5.04	YV5RN	Caracas, Venezuela	4-11:30pm; Sun 8:30-11:30am, 3:30
	59.76	5.02	YV4RQ	Puerto Cabello, Venez.	Broadcasting nightly.
	59.88	5.01	YV5RM	Caracas, Venezuela	3:30-10pm; Sun 8am-10:30pm.
	60.12	4.99	YV3RX	Barquisimeto, Venez.	10am-11pm.
	60.31	4.975	YV1RJ	Coro, Venezuela	Testing.
	60.48	4.96	VUD2	Delhi, India	7:30am-12:30pm.
	60.48	4.96	YV5RS	Caracas, Venezuela	4:30-9:30pm or later.
	60.61	4.95	YV4RO	Valencia, Venezuela	Noon-1, 6-10pm.
	60.73	4.94	YV5RO	Caracas, Venezuela	Signs at 10pm.
	60.85	4.93	YV4RP	Valencia, Venezuela	5-9:30pm.
	60.92C	4.924	HJAP	Cartagena, Colombia	9am-1:30, 7-10:15pm ex. Sun.
	60.98	4.92	YV5RU	Caracas, Venezuela	6:30-7:30, 10:30am-1, 3:30-10pm.
	60.98	4.92	VUM2	Madras, India	6:30am-noon.
	61.04C	4.915	HJFC	Pereira, Colombia	
	61.10	4.91	YV1RY	Coro, Venezuela	6:30-9:30pm ex. Sundays.
	61.16C	4.905	HJAG	Barranquilla, Colom.	11am-11pm; Sun. 11am-8pm.
	61.22	4.90	YV6RT	Bolivar, Venezuela	Signs-off at 9:30pm.
	61.29C	4.895	HJCH	Bogota, Colombia	11:30am-2, 6-11pm.
	61.35V	4.89	YV1RX	Maracaibo, Venez.	10:30am-1:30, 4:30-10:30pm.
	61.42C	4.885	HJDP	Medellin, Colombia	8am-2, 6-11pm.
	61.48	4.88	VUB2	Bombay, India	7:30am-12:30pm.
	61.54C	4.875	HJFH	Armenia, Colombia	8-11am, 6-10pm.
	61.60	4.87	YV2RN	San Cristobal, Venez.	11:30am-12:30pm, 6-9pm ex. Sun
	61.67C	4.865	HJBJ	Santa Marta, Colom.	5:30-10:30pm.
	61.73	4.86	YV1RL	Maracaibo, Venez.	11am-1pm, 4:30-10:30pm.
	61.80C	4.855	HJCF	Bogota, Colombia	7pm-mid. ex. Sundays.
	61.88	4.85	YV1RZ	Valera, Venezuela	11:30am-1, 5:45-8:45pm.
	61.92	4.845	HJCD	Bogota, Colombia	6-11:30pm.
	61.98	4.84	VUC2	Calcutta, India	6:30am-noon.
	62.05C	4.835	HJAE	Cartagena, Colombia	7am-6, 7-11pm.
	62.11	4.83	YV5RH	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.	
	62.38	4.81	YV1RU	Maracaibo, Venezuela	10:45am-12:45, 4:30-10:30pm.

16	49.75	6.03	CFVP	Calgary, Alta. Canada	10am-2am.
	49.75	6.03	RV96	Moscow, U.S.S.R.	1-3, 4-7pm.
	49.81	6.023	XEUW	Veracruz, Mexico	10pm-1am.
	49.83	6.02	DJC	Zeesen, Germany	11:30am-4:25pm to Africa.
	49.92	6.01	PRA8	Pernambuco, Brazil	4-9pm.
	49.92	6.01	CJCX	Sydney, Nova Scotia	7am-1:30, 4-8:30pm. (pm)
	49.94	6.007	XYZ	Rangoon, Burma	6:30-10am, 9-11pm; Sat 9:30-11:30
	49.94S	6.007	ZRH	Pretoria, So. Africa	11:45-12:45am ex. Sat, 9:30am-3:30
	49.94V	6.005	CFCX	Montreal, Canada	pm; Sun 9:40am-noon, 12:15-3:15pm
	50.00V	6.000	HP5K	Colon, Panama	7-9am, 12-1, 6-11pm.
	50.00	6.00	XEBT	Mexico D.F., Mexico	10am-1:45am.
	50.11FV	5.987	HH2S	Port-au-Prince, Haiti	6:30-9 or 10pm.
	50.17	5.98	VONG	St. John's, Newfoundland	8:30am-12:30, 1:30-9:30 pm.
	50.21	5.975	OAX4P	Huancayo, Peru	9-11pm. mid.
	50.51	5.94	TG2X	Guatemala, Guatemala	Mon/Thurs 9-11:30pm; Sat 10pm-
	50.51	5.94	OAX2A	Trujillo, Peru	Tues/Thurs/Sat/Sun 7-10pm.
	50.74FV	5.913	H11J	San Pedro, D.R.	11:40am-1:40, 6:10-8:30 pm.
	50.85	5.90	ZNB	Mafeking, Bechuanaland	1-2:30pm; 6-7am ex. Sun.
	51.07	5.875	HRN	Tegucigalpa, Honduras	6-11pm.
	51.46	5.83	TIGPH	San Jose, C.R.	7-10pm.
	51.46	5.83	TIXGP3	San Jose, C.R.	10-11pm.
	51.50	5.825	TIGPH2	San Jose, C.R.	Noon-2, 7-11pm ex. Sundays.
	51.77	5.795	HRK	Tegucigalpa, Honduras	Nightly to 11pm.
	52.12FJ	5.755	YNOP	Managua, Nicaragua	8-9:30pm; Sundays 2-3pm.
	52.40	5.725	HCLPM	Quito, Ecuador	Sundays 9-11pm.
	55.97JF	5.36	HCK	Quito, Ecuador	Evenings irreg.
	56.60	5.30	ZIK3	Belize, Brit. Honduras	Tu/Th/Sa 1:30-2, 8:30-9pm.
	57.42	5.225	YVA	Caracas, Venezuela	Heard early evenings.
	58.31	5.14	PMY	Bandoeng, Java	5:30am-noon. (-10pm)
	59.25V	5.04	YV5RN	Caracas, Venezuela	4-11:30pm; Sun 8:30-11:30am, 3:30
	59.76	5.02	YV4RQ	Puerto Cabello, Venez.	Broadcasting nightly.
	59.88	5.01	YV5RM	Caracas, Venezuela	3:30-10pm; Sun 8am-10:30pm.
	60.12	4.99	YV3RX	Barquisimeto, Venez.	10am-11pm.
	60.31	4.975	YV1RJ	Coro, Venezuela	Testing.
	60.48	4.96	VUD2	Delhi, India	7:30am-12:30pm.
	60.48	4.96	YV5RS	Caracas, Venezuela	4:30-9:30pm or later.
	60.61	4.95	YV4RO	Valencia, Venezuela	Noon-1, 6-10pm.
	60.73	4.94	YV5RO	Caracas, Venezuela	Signs at 10pm.
	60.85	4.93	YV4RP	Valencia, Venezuela	5-9:30pm.
	60.92C	4.924	HJAP	Cartagena, Colombia	9am-1:30, 7-10:15pm ex. Sun.
	60.98	4.92	YV5RU	Caracas, Venezuela	6:30-7:30, 10:30am-1, 3:30-10pm.
	60.98	4.92	VUM2	Madras, India	6:30am-noon.
	61.04C	4.915	HJFC	Pereira, Colombia	
	61.10	4.91	YV1RY	Coro, Venezuela	6:30-9:30pm ex. Sundays.
	61.16C	4.905	HJAG	Barranquilla, Colom.	11am-11pm; Sun. 11am-8pm.
	61.22	4.90	YV6RT	Bolivar, Venezuela	Signs-off at 9:30pm.
	61.29C	4.895	HJCH	Bogota, Colombia	11:30am-2, 6-11pm.
	61.35V	4.89	YV1RX	Maracaibo, Venez.	10:30am-1:30, 4:30-10:30pm.
	61.42C	4.885	HJDP	Medellin, Colombia	8am-2, 6-11pm.
	61.48	4.88	VUB2	Bombay, India	7:30am-12:30pm.
	61.54C	4.875	HJFH	Armenia, Colombia	8-11am, 6-10pm.
	61.60	4.87	YV2RN	San Cristobal, Venez.	11:30am-12:30pm, 6-9pm ex. Sun
	61.67C	4.865	HJBJ	Santa Marta, Colom.	5:30-10:30pm.
	61.73	4.86	YV1RL	Maracaibo, Venez.	11am-1pm, 4:30-10:30pm.
	61.80C	4.855	HJCF	Bogota, Colombia	7pm-mid. ex. Sundays.
	61.88	4.85	YV1RZ	Valera, Venezuela	11:30am-1, 5:45-8:45pm.
	61.92	4.845	HJCD	Bogota, Colombia	6-11:30pm.
	61.98	4.84	VUC2	Calcutta, India	6:30am-noon.
	62.05C	4.835	HJAE	Cartagena, Colombia	7am-6, 7-11pm.
	62.11	4.83	YV5RH	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.	
	62.38	4.81	YV1RU	Maracaibo, Venezuela	10:45am-12:45, 4:30-10:30pm.