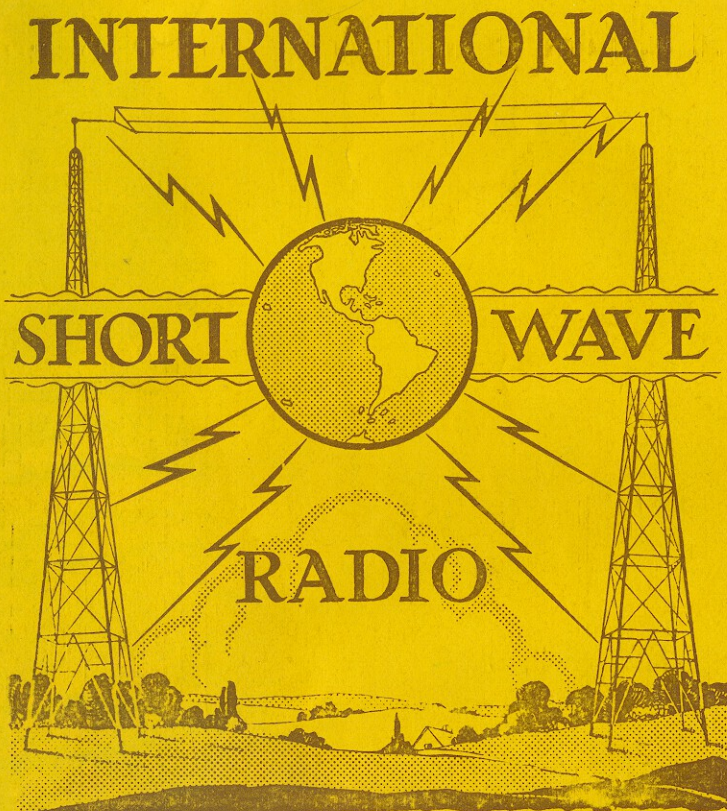


VOL. X

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THE VOICE OF THE
INTERNATIONAL SHORT WAVE CLUB

EAST LIVERPOOL, OHIO, U. S. A.

SHORT WAVE NEWS

What many people call "skill" in tuning for short wave stations is nothing more or less than knowing **WHEN** and **WHERE** to tune for stations. Nearly all short wave stations are experimental and change their wave lengths or schedules almost without notice. To know when these changes take place is as important to successful reception as having a good receiver.

The time is given in Eastern Standard. Add five hours for Greenwich Mean Time.

NOTE: In order that the persons who write and print these pages might enjoy Christmas and New Year celebrations, this was written two days earlier than usual.

FREQUENCY CHANGES

COCQ, Havana, Cuba, moved from 9.71 mc to about 8.56 mc. (Edwards, Pa.) To 8.83 mc. (Nelson, Ill.) Till 1:45 A. M. instead of just 1:00 A.M. and on 8.83 (Davison, Calif.) On 8.71 (Casals, Dom. Rep. On 8.80 (Stark, Mo.) On 8.81 and has harmonic on 17.62, (Stockbridge, Mass.) HC2CW, Guayaquil, Ecuador, moved from 9.32 mc. to 9.13 mc. (Hodge, Calif.) On 9.16 mc. uses slogan "Ondas del Pacifico" and gave address as P. O. Box 1166 and they had improved transmitter, (Davison, Calif.)

NEW STATIONS

The General Electric Company will open a new transmitter located on Treasure Island, site of the San Francisco World's Fair, about the middle of February. This new powerful 20 kw. station will be on 9.53 mc. (31.48 meters) and 15.33 mc. (19.56 meters) the same as W2XAF and W2XAD of Schenectady. Programs will be beamed toward Australia and the Far East and in conjunction with W2XAD and W2XAF, programs will be sent almost twenty-four hours a day.

A new station at Bagdad, Irac, is on the air four times a week. Wavelength and schedule not known, but power is 500 watts (Janson, Germany). Flash!—It is on 4 and 7 mc. between 8:30 A. M. and 3:00 P. M.

A station operated by the National Commercial Broadcasting Service. Private Bag, G. P. O., Wellington, New Zealand, is on 3.48 mc. and 6.96 mc. mc. with 200 watts power. They broadcast alternate fortnights on each frequency, 3.48 mc. one and 6.96 the other, from about 11:00 P.M. Saturdays until 7:00 A.M. Sundays, (Kindell, New Zealand).

"Radio Leo" at Leopoldville, Belgian Congo, is a new 25 watt station operating Sundays and Holidays on 6.14 mc. between 5:40 and 7:00 A.M. and also irregularly at 10:30 A.M. (Janson, Germany).

"Radio Guadelope" at Point-a-Pitre, Guadelope, French West Indies, is on 7.05 mc. between 6:00 and 7:00 P.M. almost daily, (Legge, N. Y.)

A station RFN, Khabavarovsk, U. S. S. R., is on 6.83 mc. between 2:30 and 7:00 A.M. sometimes relaying the programs of RV15, sometimes not, (Hodge, Calif.)

Another station in Russia using the call RFCQ, is on 9.37 mc. between

6:30 and 5:40 P.M. Signed off with "Internationale," so commonly used by Russian stations, (Nichols, Pa.)

Member Huxley of Mississippi, says that HP5G, Panama City, announced a new and powerful station using the call HOA would go on 26.10 meters or 10.68 mc. We learn that HOA is a long wave station on 2.34 mc.

A station CB1174 owned by Orlandini y Loggio Ltda, Casilla 3455, Santiago, Chile, is heard regularly on 11.74 mc. Has 4 kw. power, (Kindell, New Zealand).

A station CB1185, owned by Jorge Echegoyen, Santiago, Chile, is on 11.85 mc. with 2,500 watts power, (Kindell, New Zealand).

A station CB1510 at Valparaiso, Chile, will be on 15.10 mc. with 1000 watts power very soon now, (Nelson, Ill.)

OCEANIA

Papua. A station on 7.31 mc. is broadcasting daily 3:00 to 5:00 A.M. now. They relay station 4PM, Port Moresby, Papua, (Kindell, N. Z.) Some say the call is VIG.—Editor. Another one, VHPM, same city is on 8.08 mc., between 4:00 and 6:30 A.M., irregularly.

New Guinea. A station VHSU, at Salmaca, heard one morning on 6.54 mc. and 8.08 mc. between 5:30 and 8:00 A.M. PK6XX at Hollandia, is not a broadcaster but may be heard on 14.00 mc. between midnight and 8:00 A.M. talking to amateurs.

New Caledonia. FK8AA, "Radio Noumea," at New Caledonia, is on 6.12 mc. now Wednesdays, Thursdays, Fridays and Saturdays 2:30 to 3:30 A.M. This one is operated by Charles Graveau, 44 rue del Alma.

Pitcairn. VR6AY is an experimental station on 14.36 mc. heard between midnight and 8:00 A.M. with the best time between 4:00 and 6:00 A. M.

AFRICA

Natal. ZRD, Durban, was heard on 9.72 mc. between 10:00 and 11:45 A.M. several times, (Honda, Calif.) Schedule is supposed to be 7:00 to 9:00 A.M. and noon to 4:00 P.M. on this new frequency.—Editor.

Tripoli. A station heard on 10.24 mc. between 7:00 and 8:30 A.M. was verified as ICK, Tripoli, (Solito, Pa.) What about the address, etc.? /CJ

Portuguese Africa. CR6AA, Lobito, Angola, Occidental Portuguese Africa, was heard on about 13.00 mc. one Wednesday between 2:45 and 4:30 P.M. (Rubio, Cuba). This is a new frequency. They have also used 9.66 mc. and 7.177 mc.—Editor.

French Somaliland. A station heard every first Thursday of the month 8:00 to 8:30 A.M. (Novotny, Czech). Sorry, but he did not mention frequency used.—Editor.

Spanish Morocco. EA9AI, Melilla, on 7.18 mc. heard Saturdays 9:00 to 10:00 P.M. EA9BJ, Alcazarquivir, on 7.12 mc. also heard at 6:30 P.M., broadcasting, (Legge, N. Y.) EA9AH on 14.03 mc. at Tetuan, is heard as early as 4:00 P.M. and as late as midnight with English being used, 9:00 to 10:00 P.M. Relay "Radio Nacional" programs often.

Union of South Africa. Anyone wanting to get a veri. from Africa should dial to 9.61 mc. between 11:30 P.M. and 12:30 A.M. weekdays for

ZRK, Johannesburg. They broadcast setting-up exercises. Send reports to Box 4559, Johannesburg.

ASIA

Siam. For a time a station was heard on 6.11 mc. broadcasting. It was at Bangkok and was heard between 8:00 and 10:00 A.M. on Wednesdays and Thursdays, (Gallagher, Calif.) Also for a time there was one on 15.23 mc. Mondays, 8:00 to 10:00 A.M. (McDermott, N. Y.) They seem to have moved back to 9.50 mc. and 19.02 mc.

French Indo-China. Radio Hanoi, operated by Radio Club Hanoi, is on 9.51 mc. and 11.90 mc. midnight to 2:00 A.M. and 6:00 A.M. to 10:00 A.M. Gave address as 20 Rue de la Pepiniere, Hanoi, (Kindell, N. Z.) Radio Boy-Landry is heard on about 9.73 and 11.71 mc. FZR-3, Saigon, telephones Paris 8:00 to 9:00 A.M. with five-tone stand-by signal on 16.20 mc. now, (Solito, Pa.)

India. Stations VUD2, Delhi, on 9.59 mc. and VUD3, Delhi, on 15.16 mc. both seem to be broadcasting now from 9:30 P.M. till 11:30 P.M. and can be heard in America well at times. This is a change in schedule, mind you, as it was just one hour earlier a few weeks back. They give news in English at 10:30 P.M. and that is a good time to identify them, (Hofmaster, Ohio; Wooten, Ala.; Stockbridge, Mass.; Stuart, Pa.; Johnson, N. Y.) Member Hodge of California, says VUC2 on 4.88 mc. is good 8:00 till 9:00 A.M. Member Walter of Ohio, reports VUD2 on 9.59 mc. until 8:30 A.M. then fades out. Member Solito of Penna., reports VUD2 on 4.88 mc., VUB2 on 4.90 mc. and VUD2 on 4.99 mc. between 7:00 and 8:00 A.M. coming in well enough to identify. For other schedules see the station list.

Japan. We have printed programs from Japan that show their broadcast schedule as follows: For Europe, 2:30 to 4:00 P.M., JZJ on 11.80 mc. and JZI on 9.53 mc. For South America 4:30 to 5:30 P.M. same stations. For North America, 8:00 to 8:30 P.M. JZJ on 11:80 mc. (JZK is being heard instead on 15.16 mc.) For North America, 7:00 to 7:30 A.M., JZJ on 11.80 mc. For Asia, 8:00 to 9:30 A.M., JZJ on 11.80 and JVP on 7.51. For Hawaii, 12:30 to 1:30 A.M., JZJ on 11.80 Mc. This is their January schedule. Here are some reports from members: JZK on 15.16 mc., not JZJ, heard 8:00 to 8:30 P.M. (Johnson, Herzog, Stuart). JZK at midnight and JVN on 10.60 mc. heard at 4:30 P.M. (Stuart, Pa.) JZJ heard testing till 1:00 P.M. in the afternoon, (Herzog, N.Y.) JVN on 10.66 mc. heard daily 9:00 to 10:00 A.M.; a Japanese also on 6.84 mc., 9:00 to 10:00 A.M. and a phone station JDG heard on 7.61 mc. 8:00 to 9:00 A.M. (Hodge, Calif.) A Japanese broadcaster heard on 6.98 mc. at 6:00 P.M. (Herzog, N. Y.) Letter says they have a JZH on 6.095 mc. and a JZM on 21.52 mc. in addition to stations listed, (Gullberg, Sweden).

China. A broadcast station was first heard on 6.98 mc. using the call XGXA daily 9:00 to 10:00 A.M. (Gallagher, Calif.) Was on 6.90 mc. then moved to 7.01 mc., using the call XGXX and announced schedule as 1:00 A.M. to 9:10 A.M. daily (Honda, Calif.) Is XGSA on 7.00 mc. and located at Kweiyang, Kweichow Province and heard daily 8:00 to 10:00 A.M. instead of just 9:00 A.M. (Hodge, Calif.) Station XTJ on 11.69 mc. is still on the air 7:00 to 7:30 A.M. with programs and till 10:00 A.M. tele-

phoning. Reported with program 8:00 to 8:45 A.M. by Janson of Germany.

Burma. The telephone station listed as VVS on 12.87 mc. verified under the call XYN. Address was Engineer in Charge, Mingaladon Radio, Mingaladon, Rangoon, Burma, (Solito, Pa.) Radio Burma at Rangoon, a broadcaster on about 6.007 mc. said they broadcast 9:00 to 9:30 A.M. and 8:45 to 10:45 P.M. in letters to us. Now it is said to broadcast week-days 7:15 to 10:00 A.M. and 10:00 to 11:00 P.M. and Sundays 10:00 to 11:30 P.M.

Philippines. KZIB, Manila, was heard broadcasting on 9.50 mc. Was heard best Sundays around 4:00 A.M. when VK3ME was off the air, (Kindell, N. Z.) Some Manila station, maybe KZRM, heard on 9.50 mc. (Greenland, England). KZRM is supposed to be on 9.57 mc., you know. Telephone stations KBL, Manila, 11.53 mc. and KTR, Manila, on 10.91 mc. are two new phones heard around 8:00 to 11:00 A.M. (Gallagher and Hodge).

USSR. A station at Khabarovsk, Siberia, is on 6.05 mc. now between 1:00 A.M. and 10:00 A.M. evidently replacing RV15 on 4.25 mc. (Walcott, Honda, Kindell, Slough and Hodge). RFN, same city, is heard on 6.83 mc. at same time, sometimes with same program, (Hodge).

EUROPE

Turkey. Ankara, Turkey, is being heard on 9.46 mc. and 15.19 mc. It is on 9.46 mc. between 11:30 A.M. and 4:00 P.M. daily, sometimes staying on the air till 5:00 and even 6:00 P.M., although usually signing off around 4:00 to 4:15 P.M. (Gullberg, Sweden; Novotny Czech.; Kindell, Stuart, Pa.; Barbancone, N. Y.; Kovisto, Minn.; Dement, Pa., and Casals, Dom. Rep.) Heard on 15.19 mc. at 6:00 A.M. (Kindell, N. Z.) Heard on 15.19 at 3:50 to 4:15 P.M. (Solito, Pa.) Heard on 15.15 mc., not 15.19 from 5:00 to 7:30 A.M. (Janson, Germany). Address (not verified) reported as Turk Muhendisler Birligi, 5 No Lu Oda, Yeni-Sehi, Ankara, Turkey.

Vatican. A letter from the station says HVJ is now able to use seven frequencies. They are: 6.03 mc (49.75 meters), 6.19 (48.47), 9.55 (31.41), 9.66 (31.02), 11.74 (25.55), 15.12 (19.84) and 17.84 (16.82 meters). Their present schedule, which is different from anything we see listed anywhere, is as follows: On 6.03 mc. daily at 2:00 and 2:30 P.M. (till 2:45 P.M.), also Wednesdays and Fridays at 3:00 P.M. on 6.03 mc., on 15.12 mc. Sundays at 1:00 to 1:15 P.M. on 9.55 mc. or 9.66 mc. Sundays at 5:00 A.M. and on either 11.74 mc., 9.55 mc. or 9.66 mc. Wednesdays at 2:30 P.M. Now HVJ has been heard Sundays between 1:00 and 1:30 P.M. on 15.12 mc. and 1:30 and 2:30 P.M. on 11.74 mc. Some say it was a test for a special Christmas program, but this schedule says they use 15.12 mc. every Sunday at 1:00 P.M. (Wooten, Ala.; Walter, Ohio; Stockbridge, Mass.) This new schedule is sent to us by member Stockbridge. Member Novotny of Czechoslovakia reports HVJ on 6.189 mc. at 2:45 P.M. once.

Poland. SPD, Warsaw, on 11.52 mc. heard broadcasting 2:00 to 3:00 P.M. when schedule shows 6:00 to 9:00 P.M. only, (Anthony, D. C.)

Switzerland. Seems like this country is sending out one schedule and keeping another. They give HBL on 9.34 mc. Sundays 7:00 to 7:45 P.M. and 8:00 to 8:45 P.M.; HBQ on 6.675 mc. Sundays, 1:45 to 2:45 P.M.; HBO

on 11.40 mc. Sundays 1:45 to 2:30 P.M. and Mondays 2:30 P.M. to 3:45 P.M.; HBP on 14.535 mc. Sundays 10:45 to 11:30 A.M. and Mondays 4:00 to 4:15 A.M. Member Gullberg, of Sweden, reports HBH on 18.48 mc. still being used Sundays at 11:00 A.M. One member whose name slipped us says HBL was heard on Monday at 8:45 P.M., saying it was a regular weekly program, (the station says Sunday). Members Anthony and Janson say HBO was heard 7:00 to 8:00 P.M. And member Novotny says HBJ was heard one Friday at 2:00 P.M. The Director General des Postes et Telegraphes sent out word four months ago that they were opening a station on 9.53 mc. to be heard between 6:45 and 9:00 P.M. The station was picked up on 11.865 mc. and 15.36 mc. but now it is not being heard on any frequency. What happened?

Germany. Anyone interested in listening to the German stations may secure a free copy of their daily programs by sending some good reports to them asking for this schedule. Members Lucke, Illinois; Oxrieder of Canal Zone, and Gallagher of California, report a station on 6.08 mc. between 7:00 and 11:00 P.M. Member Lucke says it is DJZ, Oxrieder says DJM, and Gallagher says DJY. He also says it is at Vienna, not Berlin, and another one is also heard on 9.64 mc. around 10:30 P.M. Remember that stations DJP on 11.85 mc. and DZC on 10.29 mc. broadcast from 7:00 to 8:15 P.M. on the fourteenth and last days of each month, relaying YUA Yugoslavia (6.10).

Czechoslovakia. Since the crisis, this country has failed to send us a bulletin showing their schedule and frequencies. Our latest one is shown in our station list. Member Herzog says OLR4A was heard between 4:00 and 5:00 P.M. one Wednesday when not scheduled. Member Woodward reports OLR2A on 6.01 mc. at 3:00 P.M. one Friday, when not scheduled. And member Gallagher reports a station OLR4D on 11.90 mc. one Thursday at 1:00 P.M. This station is new to us all, having never been mentioned on any programs sent to us by the station owners.

Finland. A veri. says they have OFE on 11.78 mc. between 1:05 A.M. and noon and OFD on 9.50 mc. from 12:05 to 5:00 P.M. And also stations OIH on 21.55 mc., OIH on 17.80 mc., and OIE on 15.19 mc. (Nelson, Ill.) Another says OFE is used 1:05 to 1:45 A.M., 5:00 to 6:00 A.M. and 8:00 A.M. to 3:00 P.M. week-days and 1:05 A.M. through to 3:00 P.M. Sundays, (Kovisto, Minn.)

Denmark. A veri. says OZF on 9.52 mc. broadcasts 8:00 to 9:30 P.M. for South America and 9:30 P.M. to 11:00 P.M. for North America, (Stockbridge, Mass.) OZH on 15.16 mc. broadcasts Sundays and Holidays 8:00 A.M. to 1:30 P.M. (Gallagher, Graulich and Solito).

Norway. Oslo was heard on 11.72 mc., a new frequency, between 11:00 A.M. and 4:56 P.M. several Saturdays and Sundays although they signed off at 3:00 P.M. once, (Slough, B. C.)

Holland. A change in schedule takes place about every week now. The second week in January shows this schedule. PCJ on 9.59 mc. Sundays 1:20 to 1:35 P.M., 2:00 to 3:00 P.M. and 7:15 to 9:25 P.M., Tuesdays 1:45 to 3:30 P.M. and 7:15 to 10:30 P.M., Wednesdays 7:15 to 9:40 P.M. and Fridays 8:00 to 9:00 P.M. PHI on 11.74 mc. is used Saturdays 7:15 to 7:45 P.M. and all other days 6:15 to 6:45 P.M. PCJ2 on 15.22 mc. is

used Tuesdays 3:00 to 4:30 A.M. and Wednesdays 9:30 to 11:30 A.M. PH12 on 17.78 mc. is used Sundays 6:15 to 9:40 A.M., Tuesdays, Wednesdays, Fridays and Saturdays 7:40 to 8:40 A.M., Mondays and Thursdays 7:40 to 9:00 A.M. Could anything be cut up more? Member Gullberg, of Sweden, says a station PH11 is heard on 21.51 mc. daily 7:00 to 9:00 A.M. and Sundays 7:00 to 11:00 A.M. or noon. This is a new station to us.

France. Our list shows the stations exactly as the latest schedule sent to us from France shows. Member Janson, of Germany, claims TPB7 on 11.88 mc. broadcasts 8:30 to 11:00 P.M. not 9:30 to midnight, but the program sheet for January says 9:30 to midnight.

Sweden. SBO on 6.06 mc. or SBP on 11.71 mc, either one, may broadcast Wednesdays and Saturdays 8:00 to 9:00 P.M. for American listeners. Member Janson also reports a change in schedule. SBP is used week-days 1:30 to 2:00 A.M., 5:00 to 7:00 A.M. and 11:00 A.M. to 1:30 P.M., Sundays 3:00 A.M. through to 4:00 P.M. SBO on 6.06 mc. picks up where SBP leaves off and broadcasts till 5:00 P.M.

Italy. Some Italian station is on 9.67 mc., same frequency as W3XAL at nights now, (Shaffar, Iowa). 2RO4 on 11.81 mc. heard broadcasting one Thursday 7:30 to 7:45 P.M. when 2RO3 on 9.64 is scheduled, (Woodward, Mass.) 2RO3 on 9.64 mc. heard testing 11:30 P.M. to midnight off schedule, (Nichols, Pa.) 2RO5 on 15.30 mc. heard 9:30 to 11:00 P.M. sending programs to Ethiopia, (Honda, Calif.) Heard 1:15 to 1:30 P.M. (Nichols, Pa.) Heard 2:00 P.M. (Shaffar, Iowa). At 2:45 P.M. (Slough, B. C.) At 4:00 and 6:00 P.M. (Wooten and Graulich). 2RO6 on 17.82 mc. heard 10:00 A.M. to 1:00 P.M. often, (Gullberg, Sweden). Heard at 1:50 P.M. (Honda and Slough). Strange to say the official program booklets from Italy never mention 2RO5 or 2RO6, but do mention the daily programs of ICC on 6.35 mc., IRF on 9.83 mc., IQY on 11.67 mc., 2RO3 on 9.64 mc. and 2RO4 on 11.81 mc. These are shown in our station list. Member Herzog reports the phone IQA on 14.73 mc. one Sunday. IRF heard daily 2:15 to 2:55 P.M. (Janson, Germany). Two new Italian phones heard on 14.86 mc. and 14.57 mc. around 7:00 to 8:30 A.M. (Solito, Pennsylvania).

Russia. The station heard on 6.03 mc. is at Moscow, using the call RV69 and is not RV15, Khabarovsk, as it is now heard on 4.27 mc. again. Another Russian is also heard now on 3.80 mc. between 1:30 and 4:00 A.M. (Walcott, Calif.) RV69, Moscow 15.18 mc. and another station on 15.27 mc. heard afternoon and evening now, (Novotny, Czech.) This station on 15.18 mc. heard almost all day and night by many now. A new station at Moscow on 13.235 mc. is heard 7:00 to 9:00 A.M. broadcasting. (Gullberg, Sweden). Another one is reported on 7.35 mc. around 4:00 A.M. Phones RCH, Kerbi, on 15.01 mc.; RIR, Tiflis, on 10.08 mc., and RKK, Moscow, on 12.27 mc. heard at 1:30 A.M. working each other. Another one heard on 11.76 mc. at 10:00 A.M. (Gallagher, Calif.)

Spain. Numerous and conflicting reports on the various stations in Franco Spain have been received. Most of these appear in our station list. New reports show these things. Member Gill, of Manila, reports a veri. showing Radio Malaga on 7.22 mc. and 14.44 mc.; Radio Raquette de Vitoria on 11.97 mc.; Las Palmas, Canary Islands, on 14.06 mc. all re-

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The New HQ-120	\$117.00	\$23.40	\$ 8.26
The New RME-70	138.60	27.72	9.79
The New NC-44	49.50	9.90	3.49
The New NC100A	120.00	24.00	8.44
NC80X and NC81X	99.00	19.80	6.99
Sky Champion	49.50	9.90	3.49
Breting 49 and Super Sky rider ..	99.00	19.80	6.99

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laying Salmana, from 5:45 to 6:45 P.M. Vitoria also works 4:00 to 5:45 P.M. and Las Palmas 5:15 to 5:45 P.M. Member Legge, of New York, reports FET5 on 7.35 mc., 6:30 to 7:30 P.M. (off schedule). RR6, Radio Vitoria, on 11.99 mc., veri. saying 450 watts power, 4:00 to 4:30 A.M., 8:00 to 10:00 A.M., 1:00 to 1:50 P.M. and 4:00 to 7:00 P.M., with English used at 1:30 to 1:50 P.M. Member Novotny reports Vitoria between 7:00 A.M. and 4:00 P.M. often. And now another (the sixth) list provided us, all supposed to come from the station at Salmana, this time through member Janson, of Germany, shows these: Bilboa on 7.246 mc., Cadiz on 14.285 mc., Cadiz on 7.00 mc., Cordoba on 6.451 mc., Malaga on 14.00 mc., Pontevedro on 7.203 mc., Salmaca on 7.02 mc., Balladolid on 7.00 mc., Zaragoza on 7.00 mc., Las Palmas on 14.08 and 7.20 mc., Tenerife on 10.37 mc., Tetuan on 6.996 mc. and 13.992 mc., Melilla on 7.202 mc., Ceuta on 7.143 mc., Nacional AZ on 6.75 mc., Radio Espana on 7.06 mc., Ferrol on 7.117 mc., Vitoria on 12.00 mc. This is just greatly different from the other five lists we have seen. Member Chambers, of Oklahoma, reports the Government station EAQ on 9.86 mc., 3:00 to 4:00 A.M. quite often, contrary to our published list.

Hungary. Member Poyzl of New York. says station HAT4, Budapest, on 9.12 mc. broadcasts now daily except Saturdays and Sundays 7:00 to 8:00 P.M., Saturdays 6:00 to 7:00 P.M. Is on most nights 6:00 to 7:00 P.M. and at times till 7:30 P.M. (Castleman, Tenn.) Heard at 7:15 P.M. one Sunday and as late as 9:00 P.M. at times, (Williams, Texas).

SOUTH AMERICA

Peru. With the Pan-American conference taking place in Lima, Peruvian stations were heard off schedule many times, and many phones were heard sending programs to various countries. One station was heard on 15.29 or 15.30 mc. testing between 4:30 P.M. and 1:00 A. M. in the morning. Many heard it three or four times in one night. Most say the call was OAX4Z, while one says OAX4B, (Nelson, Ill.; Wooten, Ala.; Hodge, Calif.; Gallagher, Calif.; Lucke, Ill.) OAX4Z was heard on 15.17 and also 17.80 mc. testing, (Stuart, Pa.) OAX4G, Lima, on 6.29 mc. heard closing at midnight, not 11:00 P.M. and OAX4P, Huancayo, on 5.98 mc. heard closing at 11:30 P.M., not 11:00 P.M. (Kindell, New Zealand). Radio Rancho Grande, Ciento Chiclina, Peru, once heard on 12.00 mc. and operated by the three Larco Brothers, is heard now on 11.85 mc. around noon by Captain Oxrieder, of the Canal Zone.

Brazil. Station PSE, Rio de Janeiro, on 14.935 mc., a phone station, broadcasts every Wednesday 4:00 to 4:15 P.M. in German, every Thursday, 3:00 to 3:30 P.M. in Italian and every Saturday 3:00 to 3:30 P.M. in French, (Novotny, Czech.) Heard every Saturday 2:30 to 3:00 P.M. (Kindell, New Zealand).

Surinam. Station PZH, Paramaribo, Surinam, verified and gave address as Gouvernements Radio Dienst, Paramaribo. PZ1AA on 14.00 mc. also verifies with same address, (Legge, N. Y.)

Chile. Station CB960, Santiago, silent many months, was heard again on 9.60 mc. with powerful signal at 10:30 P.M. (Shaffar, Iowa). Was heard 10:40 P.M. to 12:09 midnight, (Davison, Calif.) CB1178, Santiago, is now on 11.36 mc. (Oxrieder, C. Z.)

Chile. A station using slogans "Radio Popular vos de Chile para Chile y South America" and "La Voz de Chile para toda America" is heard around 9.72 to 9.74 mc. between 6:00 and 11:00 P.M. broadcasting. The call is CB970 and they relay station CB76. It is located at Vapariso, Chile, but they advertise Santiago firms and you hear Santiago mentioned often. Heard 6:30 to 11:30 P.M. (Hodge). Heard till 1:00 A.M. Sundays only, (Kindell, N. Z.)

Paraguay. Station ZP14, owned by Friedman Hnos, Villarica, was heard on 11.725 mc. at 3:00 P.M. and on another day at 6:00 P.M. (Novotny, Czech.) Heard on 11.75 at 4:30 P.M. (Gil, P. I.) Heard on 11.72 between 5:00 and 6:00 P.M. (Greenland, Eng.) Schedule is Mondays and Wednesdays 2:00 P.M. to 5:00 P.M., Saturdays and Sundays 11:00 A.M. to 5:00 P.M. However, this is their 6.025 schedule, the 11.75 is a new frequency. ZP8, Radio Nacional, at Ascuncion, Paraguay, was heard in October, on 9.26 mc. between 5:30 and 8:30 P.M., giving address as Colonial Martinez 274, Ascuncion, but it has not been reported since.

Colombia. We are corrected on some of the call-signs. HJ6ABC is 6FBC, Ibague, 3ABD is 3CAB, Bogota; 2ABC is 2BAC at Cucuta, 3ABX is 3CAX at Bogota, and a 7ABB, Bucaramangua, is on 4.82 and not in our list, (Hodge, Calif.) HJ2ABC is 2BAC, 3ABX is 3CAX and HJ6FAH is now call for 6ABH, (Legge, N. Y.) HJ3ABX is now 3CAX, (Oxrieder). HJ1ABG on 6.04 mc. was heard till 1:00 A.M. almost every Sunday and HJTABP

on 9.62 mc. is heard till 10:30 P.M. instead of just 10:00 (Kindell, N. Z. and Stockbridge, Mass.)

Argentina. Station LRA, Buenos Aires, is now heard on two frequencies instead on one. Heard on 9.69 mc. and 6.16 mc. at same time, (Casals, Dom. Rep.) Call-sign on 6.69 mc. is LRA1 now, (Castleman, Tenn.) LRU, Buenos Aires, on 15.29 mc. seems to be keeping an irregular schedule and is heard any time between 5:00 A.M. and 9:00 P.M., off and on the air at various times. Heard between 6:00 and 8:00 P.M. (Nelson, Ill.) Hodge, Calif. and Edwards, Pa.) Heard at 5:00 A.M. (Brewer, Ariz.) Heard signing off at 9:30 A.M. (Honda, Calif.)

Uruguay. CXAS, on 9.64 mc. seems to come on the air almost any time. Heard at 6:00 A.M. (Kindell). Heard 9:00 to 9:30 P.M. (Solito, Pa.)

Ecuador. HC2CW, Guayaquil, moved to 9.06 mc. (Oxrieder, C. Z.) To 9.13 mc. (Hodge, Calif.) To 9.16 mc., heard till 11:30 P.M., used slogan "Onas del Pacifico," and said they had improved transmitter and wanted reports at P. O. Box 1166, (Davison, Calif.) HCJB, Quito, heard on 14.42 mc. at 10:00 P.M. once with program, (Teague, Mich.) This station is on 6.23 mc. and has a powerful harmonic on 12.46 mc. They even verify reports on the harmonic, it is heard so well. Heard till 10:45 P.M., not just 10:15 P.M. (Davison). HC1PM, Quito, heard on 5.73 mc. giving schedule as Mondays 9:00 to 11:00 P.M. in place of Saturdays, (Oxrieder, Canal Zone).

Venezuela. Anyone hearing a YV4RQ, Puerto Cabello, supposed to open on 5.02 mc.? YV1RD, Maracaibo, on 6.08 mc. opens at 5:30, not 6:00 A.M. (Kindell and McDermott). Heard at 5:15 P.M., too, when schedule shows 7:00 P.M. (Lippincott). YV1RH on 6.36 mc. at Maracaibo, sent a special program one Sunday at 3:00 A.M. and YV4RD, Maracay, on 6.30 mc. sent one at midnight one Monday this month, (Gallagher).

CENTRAL AMERICA

Nicaragua. The station roaming around 6.71 and 6.73 mc. playing the Nazi Anthem at close down and using the slogan "Radio Pilot," giving news in English at 11:45 P.M. and heard 6:00 to 11:55 P.M. is either YNRS or YNRF. They announced frequency at 6.80 mc., owner A. G. Thomas, (Stockbridge, Mass.) Is owned by some German firm and on 6.75, (Stark, Mo.) Heard on schedule, (Casals, Shaffar, Gallagher, Legge, Cote). Amateur YN3DG, Managua, on 7.12 mc. heard sending programs and signing off at 9:30 P.M. (Shaffar, Iowa).

Panama. HP5I, Aguadulce, once on 11.90 mc. is now off the air. The transmitter has been dismantled and sold, (Oxrieder, C. Z.). HP5A on 11.70 mc. heard till 10:30 P.M. instead of 10:00 P.M. (Stockbridge, Mass.)

Guatemala. TGQA, on 6.40 mc. and TG2 on 6.19 mc. broadcast same program till 2:00 A.M. each Sunday instead of closing at 11:00 P.M. Saturday, (Kindell, N. Z.) TGWA on 15.16 mc. is supposed to broadcast weekdays 12:45 to 1:45 P.M. and Sundays 12:45 to 5:15 P.M., but member Anthony of D. C. reports it at 5:00 P.M., 8:00 P.M. and 9:00 P.M. at different times, and also says TGWA on 11.76 mc. was heard 3:00 to 4:00 P.M., when not scheduled. TGWB is now on 6.52 mc. instead of 6.49, but announces 6.49 yet, (Shaffar, Iowa). TG2X on 5.49 mc. broadcasts Mondays,

Wednesdays, Thursdays and Saturdays 8:00 to 11:30 P.M., not 4:00 to 6:00 and 10:00 to midnight, (Hodge).

Costa Rica. New TI4NRH varies show 9.69 mc. instead of 9.67. In reporting this station, please send a dime in place of the postage coupon. They have a beautiful verie. TIOU, Port Limon, on 6.50 mc. heard 9:00 to 10:00 P.M. off schedule, (Anthony, D. C.) TIEM veri. says 10.0005 mc. not 10.05. (Gardner, Ohio). It is heard on 10.05 mc.—Editor. Address is Box 1949, San Jose. A letter from TI2XD, San Jose, on 11.92 mc., says slogan is "La Voz de Radio Pilot," address P. O. Box 1729, schedule, noon to 2:00 P.M. and 6:00 to 11:00 P.M.

Mexico. XEBT, Mexico City, on 6.00 mc. heard till 2:30 A.M. several times, off schedule, (Shaffar, Iowa). XEXA, Mexico City, on 6.17 mc. broadcasts till 12:30 A. M. every Sunday instead of closing at 11:00 P.M. Saturdays, (Kindell, N. Z.) XEWW, Mexico City, on 9.50 mc. and 15.16 mc. may broadcast on either frequency any time between 6:00 A. M. and midnight and no one knows when it will be heard on either frequency. We publish the most used one.

El Salvador. YSP, San Salvador, on 10.40 mc. using the slogan "La Voz de Cuscatlan," was heard between 7:00 and 10:30 P.M. (Shaffar, Iowa). Heard roaming between 10:40 and 10.36 mc. saying 10.40 mc. (Oxrieder, Canal Zone).

WEST INDIES

St. Kitts. Station VP2LO is now known as ZIZ, the Z pronounced Zed. They are on 6.38 mc. between 4:00 and 4:30 P.M. (Legge, N.Y.) New schedule is Wednesdays 7:00 to 7:30 P.M., new call ZIZ, (Traister, Ill.)

Haiti. HH2S, Port-Au-Prince, is relaying programs from Kingston, Jamaica, now. Address is Gerard Burke-Denis, Manager, West Indian Broadcasting Company, Port-Au-Prince.

Martinique. Radio Martinique, Fort de France, Martinique, on 9.70 mc. broadcasts 6:00 P.M. to about 9:00 or 10:00 P.M., relaying TPA3, Paris, from 8:00 P.M. onward. Heard 5:40 P.M. till 10:00 P.M. once, (Slough, B. C., Edwards, Pa.) Heard at 11:15 A.M. to 12:15 noon, and 11:30 as late as 3:30 P.M. Sundays, (Murray, Virgin Islands).

Dominican Republic. HIG has changed call-sign to HI1G on 6.29 mc. and HI2G on 9.29 mc. (Casals, Dom. Rep.) HIN, Trujillo, on 6.24 mc. is heard now noon to 4:00 P.M. instead of 11:30 A.M. to 1:15 P.M. (Casals). HI6Y is the only call heard now on 6.66 mc. where the call HI5G used to be used. Slogan is "Dominicano Espanola." Address is Isabel le Catolica 117, Trujillo, (Casals). HI9T, San Cristobal, "The Voice of the Foundation Farm," is heard on 6.12 mc. between 2:30 to 4:00 P.M. and 5:40 to 7:40 P.M. (Casals, Dom. Rep.) HI1S, Santiago, on 6.42 mc. signs off at 6:00 P.M., not 9:00 P.M. as listed, (Stockbridge, Mass.)

NORTH AMERICA

CHNX. Old VE9HX is now using the call CHNX and is on 6.13 mc. daily except Saturday and Sunday, from 7:00 A.M. to 11:15 P.M., Saturdays 8:00 A.M. to 11:30 P.M., Sundays noon to 11:15 P.M. A mail-bag program, acknowledging reports received, is sent Sundays at 4:00 P.M.

and 9:00 P.M. (Nelson, Ill., Lippincott, Mass., Gallagher, Calif., Shaffar, Iowa, and Wilson, England).

Canada. CJRO, on 6.15 mc. and CJRX on 11.72 mc. broadcast now only Saturdays 10:00 P.M. till 3:00 A.M. Sundays. Member Shaffar says they have a portable transmitter on 27.00 mc. CFBT, Calgary on 6.03 mc. heard broadcasting till 2:40 A.M. (Shaffar, Iowa). We believe this is VE9CA.—Editor. A station announcing CFRB heard on 12.30 mc. at 6:00 P.M. once, (Herzog, N.Y.) CFRB is a long wave station on 690 kc. at Toronto, Canada.—Editor. A new phone station, VRFB, St. Johns, Newfoundland, was heard on 9.63 mc. calling CJN5 Montreal from 9:35 to 9:50 P.M. (Riggle, Ohio).

W2XE, New York, announces another change. They use 9.65 mc. only Mondays through Fridays, 10:30 to 11:30 P. M. now. W8XK, Pittsburgh, also sends us a new schedule. They are on 21.54 mc. 6:45 to 9:00 A.M., on 15.21 mc. 9:00 A.M. to 2:00 P.M., on 11.87 mc. 2:00 P.M. to 11:00 P.M. and 6.14 mc. 11:00 P.M. to 1:00 or 2:00 A.M. Member Anthony, however, reports them on 21.54 mc. at 10:00 A.M., while member Edwards reports them on 11.87 mc. at 10:45 A. M.

W1XAL, Boston, changes their frequencies and schedule almost weekly, so we can only publish what we have and hope for the best. W8XAL, Cincinnati, on 6.06 mc. has a cut-up schedule. It is Sundays 8:00 A.M. to noon, Mondays, Thursdays and Saturdays 5:45 A.M. to 2:00 A.M. the next day, other days 5:40 A.M. to noon and 11:00 P.M. to 2:00 A.M., with a program Wednesdays 9:00 P.M. to 2:00 A.M.

Hawaii. KQH, Kahuku, a phone station relays "Hawaii Calls" program, Saturdays 9:00 to 9:30 P.M. and "Voice of Hawaii" programs, Fridays 12:15 to 12:30 A.M. and Sundays midnight to 12:30 A.M. (Gallagher, Walter, and Shaffar). HKE on 17.95 mc. also heard Saturday 8:45 to 9:30 P.M. (Walter). KKH on 7.52 and KQH on 14.90 mc. send "Voice of Hawaii" programs now, 1:00 to 1:30 A.M. Saturdays, (Gallagher). These stations all test for half an hour before broadcasting, (Hodge, Calif.)

Alaska. Three telephone stations are being heard on 5.027 mc. around 1:15 A.M. KAQF, Unalaska, KAEW Umnak and KAJJ Atka, (Walcott, Calif.) WXA, Juneau, on 11.51 mc., a new frequency, at 7:15 P.M. and 11:10 P.M., working WVD Seattle. WVD was heard on 11.98 mc. (Shaffar, Iowa).

Special News—A dazzling array of Emperors, Kings, Queens and diplomats of seventeen nations will be heard in a series of weekly broadcasts throughout the U. S. A., saluting the opening of the New York World's Fair, beginning January 1st. The programs will be carried by three net-works and will include W2XAD, W2XAF, W2XE, W3XAU, W8XK and W8XAL. The programs will come via RCA stations at Rocky Point and Bolinas, and many overseas stations will be heard. The programs will take place each Sunday from 2:30 to 3:00 P.M. Famous orchestras will introduce each program. The schedule shows the following:

Jan. 1—France. Jan. 8—Ireland. Jan. 15—Denmark. Jan. 22—Netherlands. Jan. 29—Russia. Feb. 5—Roumania. Feb. 19—Norway. Feb. 26—

Belgium. March 5—Yugoslavia. Mar. 12—Italy. Mar. 19—Hungary. Mar. 26—Poland. April 2—Japan. April 9—Sweden. April 16—Brazil. April 23—Great Britain (Honda, Calif.) Sharpen up your dials, fellows.

Experimental Stations. W10XJF, Virgin Islands and W9XEI, Lake Bluff, Illinois, both on about 8.655 mc. heard at 11:05 P.M. testing (Lucke, Ill.) WNBW, on the ship "Santa Clara" heard on 3.87 mc., 9:30 to 10:30 P.M. and on 12.865 mc., 8:00 to 9:00 P.M. in contact with WET, (Wooten, Ala.) Veri. from McGregor Expedition postmarked Milton, Wisconsin, and said OX2QY, W10XAB and WAWG on card, (Shaffar, Iowa).

HARMONICS

At times certain stations are heard on harmonics that act just like regular broadcast stations. These harmonics fall on 2, 3, 4, etc., times their frequency. A station on 5.00 mc. will have harmonics on 10.00 mc., 15.00 mc., etc. Here are some, with regular frequency and harmonic, being heard: HJ3ABD (4.84) 9.68 mc.; HJ3ABX ((5.99) 11.98 mc.; TIGP (6.41) 12.82 mc.; 12.08 mc.; HIN (6.24) 12.38 mc.; WX1AL (6.04) 12.08 mc.; COCW (6.32) 12.64 mc.; HCJB (6.23) 12.46 mc.

LATE NEWS

The following reports arrived too late for the general magazine: Ashley Walcott, of California, has a veri. from Officer in Charge, Burma Independent Wireless Sub-Division, Rangoon, Burma, saying they are on both 3.488 mc. and 6.007 mc. The 6.007 mc. schedule is week-days 9:00 to 11:00 P.M. (night) and 7:00 to 10:0 A.M. (morning) Sundays 9:30 to 11:00 P.M. The time is E.S.T. A veri. from Calcutta came from All-India Radio, 1 Garstins Place, Calcutta, and from Madras, from All-India Radio, Madras. Under the call XPSA, the Chiang-Kai-Chek government station at Kwerchow Province, is on 7.01 mc. daily 6:10 to 10:10 A.M. English is used at 9:00 A.M. Interval music is sometimes Chinese, sometimes selections like "Yankee Doodle" and "Dixieland."

Captain Oxrieder, of Canal Zone, reports YNOP, Managua, moved to 5.46 from 5.76 mc., YN1GG, Managua moved to 6.53 from 6.51., HP5F, Colon, moved to 6.14 from 6.08 mc., HC2ET, Guayaquil, moved to 5.56 mc. from 4.60 mc. and TIGPH2, San Jose, moved to 5.88 mc. from 5.86 mc. Also a station in Guatemala, heard on 11.704 mc. once and a "La Voz del Choco" station heard on 6.065 mc. between 8:00 and 10:00 P.M.

Captain McDermott, New York, says a station VK2MA on 6.72. is relying VK2ME, Sydney, every Sunday 4:30 to 8:30 A.M. asking reports. This is a new station.

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INTERNATIONAL



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THE VOICE OF THE
INTERNATIONAL SHORT WAVE CLUB

EAST LIVERPOOL, OHIO, U. S. A.

SHORT WAVE NEWS

What many people call "skill" in tuning for short wave stations is nothing more or less than knowing **WHEN** and **WHERE** to tune for stations. Nearly all short wave stations are experimental and change their wave lengths or schedules almost without notice. To know when these changes take place is as important to successful reception as having a good receiver.

The time is given in Eastern Standard. Add five hours for Greenwich Mean Time.

NEW STATIONS

The long awaited Irish station, "Radio Eireann," located in Moydrum County, near Athlone, will operate on the same frequencies as HVJ but will give HVJ an open frequency for all their broadcasts. These are 6.19 mc. (48.47), 9.55 mc. (31.41), 11.74 (25.55), 15.12 (19.84) and 17.84 (16.82). They will start testing in February, (Darby, Ireland).

A new 50 kw. transmitter is going up at Baneasa (near Bucharest) Roumania. (From English newspaper).

The new station at Bagdad, Iraq, (Persia to some) is on the air. It relays YI1J on 7.20 mc. between 8:30 A.M. and 3:00 P.M. and has 500 watts power. QRA: not known, but address of YI1J is I. Hassan, Wireless Stations, Civil Airport, Bagdad, Iraq, (Janson, Germany).

The General Electric Company will open a new transmitter located on Treasure Island, site of the San Francisco World's Fair, about the

middle of February. This new powerful 20 kw. station will be on 9.53 mc. (31.48 meters) and 15.33 mc. (19.56 meters) and same as W2XAF and W2XAD of Schenectady. Programs will be beamed toward Australia and the Far East and in conjunction with W2XAD and W2XAF, programs will be sent almost twenty-four hours a day.

A station operated by the National Commercial Broadcasting Service, Private Bag, G. P. O., Wellington, New Zealand, is on 3.48 mc. and 6.96 mc. with 200 watts power. They broadcast alternate fortnights on each frequency, 3.48 mc. one and 6.96 the other, from about 11:00 P.M. Saturdays until 7:00 A.M. Sundays, (Kindell, New Zealand).

"Radio Leo," at Leopoldville, Belgian Congo, is a new 25 watt station operating Sundays and Holidays on 6.14 mc. between 5:40 and 7:00 A.M. and also irregularly at 10:30 A.M. (Janson, Germany).

FG8AA, "Radio Guadelope," at Point-au-Pitre, Guadelope, French West Indies, moved up to about 7.44 mc. and is broadcasting now between 6:00 P.M. and 7:30 P.M., sometimes signing off as early as 7:00 P.M. They give their address as P. O. Box 125 but do not promise verities. Maybe they will verify, we do not know, (Legge, N. Y., Hutchinson, N. H., Lundberg, Minn., Aikins, Ind., Stark, Mo., Olthoff, Kan. and Oxrieder, C. Z.)

A station CB1174 is owned by Orlandini y Loggio Lida, Casilla 3455, Santiago, Chile, and is on 11.74 mc. with 4000 watts power, (Kindell, New Zealand). Heard when COCX is off the air, (Gallagher, Calif.) With 4000 watts this one should be heard everywhere at almost any time.—Editor.

A station CB1185, owned by Jorge Echegoyen, Santiago, Chile, is on 11.85 mc. with 2500 watts power, (Kindell, N. Z.) When CB57 went on the air last spring, this CB1185 was reported, but it turned out to be CB57, now on 12.00 mc. We would like to know of anyone actually hearing this CB1185 and getting a veri proving it. Are they really on the air?

A station CB1510 at Vaparaíso, Chile, will soon open up with 100 watts power on 15.10 mc. (Nelson, Ill.)

The new station at Kaunas, Lithuania, reported on 9.52 mc. last summer by Member Skog, of Sweden, is now reported on 6.14 mc. and 9.52 mc. between 2:00 and 5:30 P.M.

VK2MA, location unknown, is relaying programs of VK2ME, Sydney, Australia, every Sunday 4:30 to 8:30 A.M. on 6.72 mc. (McDermott, N. Y.)

A new 10,000 watt transmitter at Tangiers, Africa, is under construction according to word received from an amateur there, (McDermott, N. Y.)

Some Italian station was heard relaying 2RO programs on 9.665 mc. (same as W3XAL) afternoons and early evenings. Reception was reported by members Shaffar of Iowa, Oskay of New Jersey, Solito of Pa., Edwards of Pa., Wooten of Alabama, Olthoff of Kansas and Eder of Minn. Mr. Eder reports a letter from station 2RO giving the call sign as 2RO9 and frequency as 9.67 mc. This letter lists these stations. 2RO1 (6.035 mc.), 2RO2 (6.93), 2RO3 (9.635), 2RO4 (11.81), 2RO5 (15.17), 2RO6 (15.30), 2RO7 (17.17), 2RO8 (17.82), 2RO9 (9.67), 2RO-10 (15.18), 2RO-11 (7.22 mc.) This lists many new stations, you will notice. 2RO9 is not broadcasting regularly on 9.67 mc.

A station W2XAA at Boston, Mass. owned by the Chicago Bell Telephone Company was heard testing on 12.86 mc. between 1:00 and 5:00 P.M. (Nichols, Pa. and Nelson, Ill.) Heard at 10:00 A.M. (Edwards, Pa.)

OLR7B, Praha, Czechoslovakia, on 21.565 mc. and OLR7C on 21.64 mc., two new stations, were heard between 5:30 and 6:00 A.M. Power is 30,000 watts, (McDermott, N. Y.)

YV3RX, Baraquismo, Venezuela, is on 4.99 mc. relaying the programs of YV3RA up until 9:30 P.M. (Legge, N. Y. and Oxrieder, Canal Zone). One report said they replaced YV2RA shown on 5.90 mc. in our list. How about it? Late report from Nelson, Ill.

Venezuela. We need some help on this one. Members Stark of Mo., and Nelson of Illinois, report a YV5RM Venezuela on 5.03 mc., relaying YV5RV between 6:00 and 10:00 P.M. Member Stark also reports another Venezuelan on 5.01 mc. between 6:30 and 9:30 P.M., mentioning Caracas. Member Legge says YV5RM, "Radiodifusora Venezuela," is on 5.01 mc., not 5.03. Member Nelson says YV4RQ is on 5.02 mc., and it is Puerto Cabello and heard at 6:00 P.M. We need help on this situation.

Some Oriental station is on 15.16 mc. until 12:30 A.M. when they sign off, (Hodge, Calif.) A station COJE or JH, Camaguey, Cuba, heard on 7.20 mc., 3:00 to 5:00 P.M. on one Wednesday relaying Cuban chain, including COCX, (Stark, Mo.)

Albania. A station announcing "Radio Experimental Tirana," located at Tirane, Albania, was heard one Friday 3:38 to 3:45 P.M. They announced "Thirty meters" and said they would be on 46.5 meters at 4:00 P.M. This would indicate about 10.00 mc. and about 6.45 mc. (Pedicora, New York).

China. A station XGRV, (chungking, is on the air between 7:00 and 8:30 P.M. (evenings). Frequencies reported are 11.54 mc., 11.40 mc. and 10.42 mc., so it must be roaming. It is also used around 7:00 to 10:00 A.M. at times, (Gallagher, Calif., Lundberg, Minn., Hodge, Calif.)

Poland. Stations SP19 and SP25, Warsaw, have been recently replaced by stations SP31 on 9.52 mc. and SP48 on 6.14 mc. Schedule not known.

OCEANIA

VK2ME, Sydney, on 9.59 mc., broadcasts Sundays 1:00 to 3:00 A.M., 5:00 to 11:00 A.M. now. All other Australians remain on schedule.

New Caledonia. FK8AA, "Radio Noumea," at New Caledonia, is on 6.12 mc. now, Wednesdays, Thursdays, Fridays and Saturdays 2:30 to 3:30 A.M. This one is operated by Charles Graveau, 44 rue del Alma.

Pitcairn. VR6AY is an experimental station on 14.36 mc. heard between midnight and 8:00 A.M. with the best time between 4:00 and 6:00 A.M.

Papua. A station on 7.31 mc. is broadcasting daily 3:00 to 5:00 A.M., relaying station 4PM, Port Moresby, (Kindell, New Zealand). Another one, VHSU, reported first at New Guinea is now reported at Port Moresby, this one being on 6.54 mc. and 8.07 mc. using only one frequency at any time, between 6:30 and 9:00 A.M. QRA given as Government Post and Telegraph Department, Port Moresby, British New Guinea. Our geography says Port Moresby is in the Territory of Papua, not New Guinea.

AFRICA

Natal. ZRD, Durban, on 9.72 mc. is now heard relaying the same program as ZRK between 11:45 P.M. and 12:45 A.M. (Greenman,

Ohio, Stark, Mo.; Solito, Pa. and Legge, N. Y.) Heard between 10:00 and 11:45 A.M. several times, (Honda, Calif.)

Tripoli. ICK, a phone on 10.24 mc. heard between 7:00 and 8:30 A.M. verified with same address as other phones in Italian Somaliland, Ethiopia, etc. It is, Ministerio del Marino, Direzione General Armi, Division E. R. T. C., Rome, Italy. (Solito, Pa.)

Spanish Morocco. EA9AE, Melilla, on 7.18 mc., heard Saturdays 9:00 to 10:00 P.M. EA9BJ, Alcazarquivir, on 7.12 mc. also heard at 6:30 P.M., broadcasting, (Legge, N. Y.) EA9AH on 14.03 mc. at Tetuan, is heard as early as 4:00 P.M. and as late as midnight with English being used, 9:00 to 10:00 P.M. Relay "Radio Nacional" programs often. Heard at 5:30 P.M. when supposed to be silent, (Davenport, Vt.)

Morocco. CNR, Rabat, a telephone station on 12.83 mc. sent a special program one Sunday in January from 3:30 to 3:45 P.M. for rebroadcasting in the U. S. A. (Nichols, Pa.)

Canary Islands. A veri says EAJ43 is now on 10.37 mc., 3:00 to 4:30 P.M., 5:00 to 7:00 P.M., 7:45 to 8:45 P.M. and 9:00 to 10:00 P.M. (Stockbridge, Mass.)

Union of South Africa. Anyone wanting to hear Africa should dial to 9.61 mc. between 11:45 P. M. and 12:45 A. M. for ZRK, Johannesburg. Member Lundberg of Minnesota, says ZRH on 9.52 mc. is also heard with the same program, while Member Greenman of Ohio, says ZRH is on 6.01 mc. with this program and he has heard it. Anyhow, between 11:45 P.M. and 11:45 A.M. dial to 9.61 mc., 9.52 mc. and 6.01 mc. and hear Africa.

Portuguese Africa. CR6AA, Lobito, Angola, is moving around. Recently they were reported on 13.00 mc. between 2:45 and 4:30 P.M. Now they are on 7.61 mc. They also have used 7.177 mc. and 9.666 mc.

ASIA

India. A new set of frequencies and a new schedule is announced. Veries received by Member Riggie of Ohio, and Walter of Ohio, show the following: VUD2, Delhi, on 4.96 mc. between 7:30 A.M. and 12:30 noon and on 9.59 mc., 9:30 P.M. to 11:30 P.M., and 1:30 A.M. to 3:45 A.M. VUD3, Delhi, on 15.16 mc., 9:30 P.M. to 11:30 P.M. and 1:30 to 3:45 A.M., and on 9.59 mc. 7:30 A.M. and 12:30 noon. VUB2, Bombay, now on 4.88 mc., 7:30 A.M. to 12:30 noon, and on 9.55 mc. 9:30 to 10:30 P.M., midnight to 3:30 A.M. and 4:30 to 7:00 A.M. VUM2, Madras, on 4.92 mc. 6:30 A.M. to noon, and on 11.87 mc. 3:30 to 4:00 A.M., VUC2, Calcutta, on 4.84 mc., 6:30 A.M. to noon and 9.53 mc. 2:00 to 4:00 A.M. The new frequencies are VUD2 on 4.96 mc., VUB2 on 4.88 mc., VUM2 on 4.92 mc., VUC2 on 4.84 mc., and VUM2 on 11.87 mc. VUD2 on 9.59 and VUD3 on 15.16 mc. can be heard on their 9:30 P.M. to 11:30 P.M. broadcast. Those stations near 4.90 mc. can be heard between 7:30 A.M. and 9:00 or 10:00 A.M. Dial for them. Reception reported by members Hodge, Solito, Legge, Lundberg, Maurice, Castleman, Edwards, Walter and Wilson.

Flash. Member Banninga of Ohio, says VUD3 was on 15.31 mc., instead of 15.16 mc. between 9:30 and 11:30 P.M. on January 22 and 23. Heard on 15.26, (Geer, Ind.)

Japan. A new frequency and a new schedule is in effect. For Europe, 2:30 to 4:00 P.M. they use JZJ and JLG; for South America, 4:30 to 5:30

P. M. JZJ and JZI; for North America 8:00 to 8:30 P.M. JZJ. For Hawaii, 12:30 to 1:30 A.M. JZJ. For Eastern U. S. A., 7:00 to 7:30 A.M. JZJ. For Asia, 8:00 to 9:30 A.M., JZJ and JVP. A quick run-over of the charges and schedule is this: JZL and JZK are now silent. JZJ on 11.80 is used 12:30 to 1:30 A.M., 7:00 to 7:30 A.M., 8:00 to 9:30 A.M., 3:30 to 4:00 P.M., 4:30 to 5:30 P.M. and 8:00 to 8:30 P.M. JZI on 9.53 mc. is used 4:30 to 5:30 P.M. JLG on 7.28 mc. or 41.18 meters, is used 2:30 to 4:00 P.M., and JVP on 7.51 mc. is used 8:00 to 9:30 A.M. Member Hodge of California, says JZK is still heard 8:00 to 8:30 P.M. on 15.16 mc., and that Japan now has these new telephone stations: JVV on 7.255 mc., JVV2 on 9.665 mc., JVV3 on 11.725 mc. and JVV4 on 17.825 mc. Now, these are in the broadcast bands and must be broadcast, not telephone stations.

Portuguese China. Old CQN that closed down in 1937 has returned to the air with increased power, new call-sign and an old frequency. They are on 6.08 mc. every Monday, 8:30 to 10:00 A.M., using the call-sign CRY9. Address remains J. Estrella, Chief of Government Broadcasting Station, Post Office Building, Macao. Letters to members Riggie of Ohio, and Stark of Missouri, have this information. Reception is reported by Member Hodge of California, who says he heard it on Mondays and one Wednesday.

China. Anyone hearing a Chinese station on 9.56 mc. between 4:00 and 9:00 A.M.? Station XGOX, Chungking, heard on 15.19 mc., a new frequency, once between 6:00 A.M. and noon, (Davison, Calif.) XGSA or XPSA, at Kweiyong, Kweichow Province, announces 7.14 mc., but is heard between 6.98 and 7:00 mc. Schedule is supposed to be 1:30 to 2:00 A.M., 7:30 to 9:50 A.M., and 7:00 to 8:00 P.M. (Gallagher, Calif.) Is on 6.975 mc., says 3500 watts, woman announces and uses English just before closing at 10:20 A.M. (Turpin, Wash.) XTJ, on 11.69 mc. is used daily midnight to 12:30 A.M. and 7:00 to 7:30 A.M., using slogan "The Voice of China," (Turpin, Wash.) Heard on 11.54 mc., not 11.69, (Lundberg, Minn.) Send reports to China Information Committee, Chungking. We can not assure verification, however.

Flash. Member Hodge of California, says XGOX is on 15.19 mc. at 8:00 P.M., E.S.T. and a station XGRV is on 11.40 or 11.41 mc., 8:00 to 8:30 P.M. XTJ on 11.83 mc. (McDermott, N. Y.)

Java. Telephone stations in Java are again verifying. Send reports to Mr. O. C. Arends, Engineer-in-Charge, Java Wireless Stations, Bandoeng, Java. This takes in stations on all N. E. I. islands, (Legge, N.Y.) YDE2, Solo, heard at 7:30 A.M. (Solito, Pa.)

Burma. A letter from the officer in charge, Burma Independent Wirelss, Sub-Division, Rangoon, Burma, says the station is on 2.488 mc. and 6.007 mc. The schedule is week-days 9:00 P.M. to 11:00 P.M. and 7:00 to 10:00 A.M., Sundays 9:30 to 11:00 P.M. (Walcott, Calif.) Call is XYZ, not XYO, (Gallagher, Calif.)

Philippines. A station KZIB at Manila, is heard broadcasting on 9.50 mc. It is heard best when VK3ME is off the air Sundays. Was heard signing off at 10:00 A.M. (Eder, Minn.) Heard at 4:00 A.M. (Kindell, N. Z.) KZRM is on 9.57 mc. Is this KZRM on a new frequency or is it a new station?

U. S. S. R. RV15, Khabarovsk, after trying 6.05 mc., is back on 4.25 mc. again. RFN, same city, is on 6.83 mc. between 2:30 and 7:00 A.M. (Hodge, Calif.) Another station is near 6.50 mc. between 8:00 and 9:00 A.M. with woman announcing. Was heard one Tuesday, (Hodge, Calif.)

EUROPE

England. A new station took to the air this month. It is GSV on 17.81 mc. or 16.84 meters. The schedule is 5:45 A.M. to 9:00 A.M. and 12:20 to 4:00 P.M. (Seaman, N. H. and Oskay, N. J.) Our list shows the schedule published for the other stations.

Turkey. TAP, Ankara, on 9.46 mc. broadcasts 11:00 A.M. to 5:00 or 6:00 P.M., signing off at different times. It is now a quite common station. TAQ on 15.19 mc. broadcasts 5:30 to 7:00 A.M. The address (not verified as yet) is said to be Turk Muhendisler Birligi, 5 No. lu Oda, Yeni-Schi, Ankara, Turkey. Member McDermott of New York, says that on Saturday afternoons between 3:30 and 4:00 P.M. they read letters received from English-speaking listeners. They say they have 20,000 watts power, will verify all reports and that a large percentage of reports received to date are from I.S.W.C. members and they thank the I.S.W.C.

Vatican. A letter from the station says HVJ is now able to use seven frequencies. They are: 6.03 mc (49.75 meters), 6.19 (48.47), 9.55 (31.41), 9.66 (31.02), 11.74 (25.55), 15.12 (19.84) and 17.84 (16.82 meters). Their present schedule, which is different from anything we see listed anywhere, is now: On 6.19 mc. all but Saturdays 2:00 to 2:45 P.M., on 9.55 mc. Sundays 5:00 A.M. and 2:30 P.M., and on 15.12 mc. Sundays at 1:00 P.M. (Darby, Ireland). Heard on 6.19 Tuesdays and Fridays at 1:30 P.M. (Field, England). Heard on 9.55 mc. Sundays 5:00 to 6:30 A.M. (Janson, Germany). Heard on 15.12 mc. Sundays 1:00 to 1:30 or 1:45 P.M. (Walter, Ohio; Gilmour, Ont. and Woodward, Mass.)

France. Our list shows exactly what the station booklet shows for programs. Member Lundberg says TPA3 on 11.885 is heard till 9:15 P.M. and TPA7, same frequency, is heard till 2:00 A.M., contrary to their list. A phone, TYE3, Paris, on 10.43 mc. sent several programs to the U.S.A. late afternoons, (Lundberg, Minn.)

Germany. Anyone interested in securing a daily program sheet may get one by asking for it when sending a report to the German Short Wave stations. The February schedule is shown in our list. Member Lundberg reports a DJX, Vienna, on 9.675 mc. heard afternoons till 4:25 P.M. This one is listed at Zeesen, not Vienna. Member Olthoff of Kansas, says DJZ on 10.80, is at Vienna. Member Callan of Massachusetts, says DJG on 17.815 mc. is at Vienna and they broadcast to Africa daily 11:15 A.M. to 1:00 P.M. Can't figure this, as TPA3 is on this frequency till noon and GSV, Daventry, comes on at about five minutes after noon.

Portugal. CS2WA, Lisbon, on 9.65 mc. signs off at 7:30, not 7:00 P.M. (Graulich, N. J.) CSW on 11.04 mc. heard signing off at 5:30, not 6:00 P.M. (Edwards, Pa.)

Switzerland. The Swiss send out a printed schedule they do not keep it seems. Reception shows HBL on 9.34 mc. and HBP on 7.80 mc. Mondays 6:45 to 8:30 P.M. (Castleman, Tenn. and Stockbridge, Mass.) A new Swiss amateur HB9S on 7.265 mc. is broadcasting musical programs Sun-

days at 3:00 A.M. HB9B, Basel, on 7.057 mc., now is broadcasting Sundays 3:00 to 4:00 A.M. (Janson, Germany). Nothing more has been reported about the new stations supposed to open on 9.53 mc., 11.865 mc. and 15.36 mc., operated by the Post and Telegraph Department. They are supposed to broadcast on one of these frequencies 6:45 to 9:00 P.M. daily. They tested on two of them four months ago.

Czechoslovakia. No further schedules have been received from these stations since the crisis. OLR7B on 21.565 mc. and OLR7C on 21.64 mc. are new ones reported on the air 5:30 to 6:00 A.M. (McDermott, N.Y.) OLR4D on 11.90 mc. is another new one heard at 1:00 P.M. (Gallagher, Calif.) OLR2A on 6.01 mc. heard 3:30 to 4:50 P.M. almost daily, (Woodward, Mass.) Heard 10:00 to 11:00 P.M. (Stockbridge, Mass.) OLR2B on 6.03 mc. heard afternoons (Oskay, N. J.) Heard Mondays, Wednesdays and Fridays 1:00 to 4:00 P.M. (Janson, Germany). OLR4A on 11.84 mc. heard signing off at 10:15 A.M. (Hodge, Calif.) Heard signing off at 6:30 P.M. (Graulich, N. J. and Johnson, N. Y.) OLR5A on 15.23 mc. heard at 8:30 A.M. (Edwards, Pa.) Heard on 15.145 mc. signing off at 10:15 A.M. (Hodge, Calif.) OLR5B on 15.32 mc. heard mornings, (Oskay, N. J.) OLR5C on 15.164 mc. heard signing off at 1:45 P.M. (Johnson, N. Y.)

Finland. A veri says OIE on 15.19 mc. is used 1:05 to 4:00 A.M. and 9:00 A.M. to 5:00 P.M. and OIH on 17.80 mc. is used 4:00 A.M. to 9:00 A.M. (Stark, Mo.) Another says OFE on 11.78 mc. is used, 1:05 to 1:45 A.M., 5:00 to 6:00 A.M. and 8:00 A.M. to 3:00 P.M. week-days and 1:05 A.M. to 3:00 P.M. Sundays, (Kovisto, Minn.) And still another says OFE is used 1:05 A.M. to noon and OFD on 9.50 mc. 12:05 to 5:00 P.M. (Nelson, Illinois).

Denmark. A veri. says OZF on 9.52 mc. broadcasts 8:00 to 9:30 P.M. for South America and 9:30 P.M. to 11:00 P.M. for North America, (Stockbridge, Mass.) OZH on 15.16 mc. broadcasts Sundays and Holidays 8:00 A.M. to 1:30 P.M. (Gallagher, Graulich and Solito).

Norway. Oslo, was heard on 9.60 mc. at 2:45 P.M. one Sunday, (Wilson, England). Heard on 11.72 mc. between 11:00 A.M. and 4:56 P.M. several Sundays and Saturdays, (Slough, B. C.)

Holland. The schedule of all Dutch stations have been cut to pieces, with changes taking place about twice a week in schedule. No one can say when they will hear these stations now. The only news of the month is that PH12 on 11.73 usually, was heard on 11.78 mc. from 8:10 to 8:40 P.M. once, according to member Solito. These stations are now accused quite often of not verifying.

Italy. A list of Italian stations, including many new ones, is given under "New Stations." Other reports follow. IRF on 9.83 mc. relays the American Hour, 7:30 to 9:00 P.M. (Edwards, Pa. and Lundberg, Minn.) Is used now 12:40 to 1:00 P.M., 1:37 to 3:30 P.M. and 6:00 to 9:00 P.M. according to magazine received from station. IQY on 11.67 mc. is used, 5:00 to 5:15 A.M., noon to 1:00 P.M. and 3:00 to 3:30 P.M. They do not relay the American Hour now. The programs of 2RO3 and 2RO4 are shown in our list. 2RO5 on 15.30 mc. heard 5:00 to 7:00 A.M. now, (Janson, Germany). 2RO6 on 17.82 mc. heard 8:40 to 9:00 A.M. (Solito, Pa.) Heard at 11:00 A.M. (Callan, Mass.) Some Italian heard relaying 2RO on 15.34 mc. 10:30 to noon, (Hodge, Calif.)

Poland. "Polskie Radio," at Warsaw, heard recently on 6.14 mc. between 9:00 and 10:00 A.M. using many languages, (Boothroyd, England). This is a new frequency. We would like to know if SP19 or SP25 are still being heard.

USSR. A letter received shows RV59 on 6.00 mc. Wednesdays at 6:00 A.M., Sundays, Mondays, Thursdays and Fridays at 4:00 P.M. and Saturdays at 5:00 P.M., RAN on 9.60 mc. at 7:00 P.M. daily. RNE on 12.00 mc. Sundays at 5:00 and 10:00 A.M., RKI on 15.08 mc. at 7:00 P.M. daily, and RV69 on 15.18 mc. at 3:00 P.M. daily, (Eder, Minn.) This is the English portion of their schedule only—Editor. Other reports show a Russian station heard on 15.265 mc. (announced) one Saturday morning at 3:00 A.M. with program in English from Moscow, (Hofmaster, Ohio). RV59 on 6.03 relaying RV15 till 9:00 A.M. and then till 10:30 A.M. with own program, (Hodge, Calif.) Some Russian on 15.34 mc. 8:00 A.M. till noon, (Hodge, Calif.) Some Russian is heard on 9.50 or 9.52 mc. at various times of the day and night. Some say it is RAN on a new frequency, others that it is RV69, Moscow, a new station.

Sweden. A printed schedule from Sweden shows SM5SX on 15.155 mc. week-days 11:00 A.M. to 5:00 P.M. and Sundays 9:00 A.M. to 5:00 P.M. SBP on 11.705 mc. week-days 1:00 P.M. to 4:15 P.M. and Sundays 3:00 A.M. to 4:15 P.M. and every Wednesday, Thursday and Saturday 8:00 to 9:00 P.M. and SBO on 6.06 mc. every day 4:15 to 5:00 P.M. (Sawzelius, Sweden). Member Janson of Germany, reports a change. SEP is used week-days 1:30 to 2:00 A.M., 5:00 to 7:00 A.M. and 11:00 A.M. to 1:30 P.M., Sundays 3:00 A.M. through till 4:00 P.M. SBO picks up where SBP leaves off and broadcasts till 5:00 P.M.

Spain. Our recent issues have shown the latest news on these many stations. One new development this month is that Radio Nacional de Espana was heard on 7.66 mc. evenings, a new frequency, (Oxrieder, C. Z.)

SOUTH AMERICA

Peru. OAX2A, "Radio Rancho Grande," once heard on 12.00 mc. is now heard on 11.85 mc. 7:00 to 9:30 P.M. (Hodge, Calif.) Heard around noon, (Oxrieder, Canal Zone). Some say this station is at Trujillo, while reports months back said Ciento Chiclena. OAX5C, Lima, moved to 9.30 from 9.46 mc. (Oxrieder). OAX4J, Lima, on 9.34 mc. veri says 7:00 P.M. to midnight, not to 1:00 A.M. (Castleman, Tenn.) OAX4Z, Lima, heard on 15.17 mc. at 4:00 P.M. (Edwards, Pa.) Heard on 15.34 mc. at 4:30 P.M. (Hodge, Calif.)

Argentina. LSX, Buenos Aires, a phone, is broadcasting daily 11:15 to 11:30 P.M. according to member Lundberg. LRA, Buenos Aires is heard on 6.16 mc. as well as 9.69 now, (Casals, Dom. Rep.) LRU, on 15.29 mc. is on and off the air with on irregular schedule. Heard as early as 5:00 A.M. and as late as 9:00 P.M. and reported signing off at 7:00 A.M., 9:00 A.M., 10:30 A.M., 8:00 P.M. and other times.

Chile. One veri from CB970 says they relay CB78, Santiago and CB76 Valparaiso. Slogan, "La Co-operativa Vitalicia" and "La voz del Chile para toda America." Casilla 13130, Santiago, (Gallagher, Calif.) Another says 13130 on card, but typewritten below it is Casilla 1627. It

9.72 mc. between 6:00 and midnight. They come on with the march "Pomp and Circumstance." Sociedad La Co-operativa Vitalicia is owner. Studio is at Lira 534 and address is Casilla 37-V. CB960, Santiago, on 9.60 mc. is heard again. Heard till midnight, (Castleman, Tenn.) Heard 8:00 to 11:30 P.M. (Hodge, Calif.) Heard between 10:00 P.M. and midnight, (Shaffar, Iowa; Gallagher, Calif. and Davison, Calif.) The station we list as CB1178 on 12.00 mc. is replying to reports with their long wave call only. Their address is Casilla 40-D. Now member Shaffar says a letter from them says they will verify with a card as soon as they settle on a certain frequency. Member Nelson claims the call-sign is CB1180.

Colombia. HJ5ABD, Cali, on 4.82 mc. is now using the call HJ5EAD, Olthoff, Kan. and Oxrieder, C. Z.) Please check up these. Is lbague on 4.79 FAC or FBC? Is Bogota on 4.34 CAD or CAB? A station HJ4ADC heard on 6.065 mc. at 11:40 (Shaffar, Iowa). A station HJ4ABG heard for past three weeks on 6.065 mc. (Hodge, Calif.)

Ecuador. HC2ET, Guayaquil, moved from 4.60 to 4.56 mc. (Oxrieder, C. Z.) HC2CW, Guayaquil, heard on 9.30 mc. 9:00 to 10:30 P.M. (McDermott, N. Y.) Is on 9.13 mc. (Hodge and Nelson). HC1ETC on 9.35 mc. heard calling amateurs 11:00 P.M. to 1:30 A.M. after broadcasts are over, (Shaffar, Iowa). HCODA, Guayaquil, moved from 9.44 to 9.40 mc. and heard 8:00 P.M. to midnight, when lists show 8:15 to 10:15 P.M. only. (Nelson, Ill.) HCJB on 6.23 mc. has a harmonic on 12.46 mc. that is often times reported as a station. HC1PM, Quito, on 5.73 mc. announced schedule as Mondays 9:00 to 11:00 P.M. in place of Saturdays, (Oxrieder, C. Z.)

Brazil. Station PSE, Rio de Janeiro, on 14.935 mc., a phone station, broadcasts every Wednesday 4:00 to 4:15 P.M. in German, every Thursday, 3:00 to 3:30 P.M. in Italian and every Saturday 3:00 to 3:30 P.M. in French, (Novotny, Czech.) Heard every Saturday 2:30 to 3:00 P.M. (Kindell, New Zealand). PSH, Rio, on 10.22 mc. broadcasts till 7:00 P.M. only except on Mondays, when it is heard 8:00 to 8:30 P.M., according to member Lundberg. We hear it 6:00 to 9:00 P.M.

Paraguay. Station ZP14, owned by Friedman Hnos. Villarica, was heard on 11.725 mc. at 3:00 P.M. and on another day at 6:00 P.M. (Novotny, Czech.) Heard on 11.75 at 4:30 P.M. (Gil, P. I.) Heard on 11.72 between 5:00 and 6:00 P.M. (Greenland, Eng.) Schedule is Mondays and Wednesdays 2:00 P.M. to 5:00 P.M., Saturdays and Sundays 11:00 A.M. to 5:00 P.M. However, this is their 6.025 schedule, the 11.75 is a new frequency. ZP8, Radio Nacional, at Asuncion, Paraguay, was heard in October, on 9.26 mc. between 5:30 and 8:30 P.M., giving address as Colonial Martinez 274, Asuncion, but it has not been reported since.

Venezuela. Several new stations are reported between 5.01 and 5.03 mc. See "New Stations" for this information. YV1RB on 5.85 mc. signs off at 10:30 not 11:00 P.M. (Oliver, Texas). When we listed it till 10:30, people said make it 11:00. YV5RR veri says they relay YV5RS on 5.835 mc. address is Apartado 185 or Ave. Carabobo El Paraiso, Caracas, (Stockbridge, Mass.)

Uruguay. CXA8, on 9.64 mc. seems to come on the air almost any time. Heard at 6:00 A.M. (Kindell). Heard 9:00 to 9:30 P.M. (Solito, Pa.)

CENTRAL AMERICA

Costa Rica. A station TI2GW was heard on 6.39 mc. till 10:45 P.M., signing off in English. Who is it? (Oliver, Texas). Some Costa Rican on 6.16 or 6.17 mc. signing off at 11:30 P.M. (Davison, Calif.) Station TIEM, has moved from 10.05 mc. to 6.19 mc. and heard broadcasting till midnight, (Stockbridge, Mass.) (There you are, fellows). Member Nelson says TI5HH, San Romana, heard on 5.50 mc. one Monday at 6:00 P.M. Is this station still on the air? A station TIXGP3, San Jose, reported on 5.83 mc. one Monday 4:00 to 6:00 P.M. and 10:00 P.M. to midnight, (Nelson, Ill.) This is station TIGPH according to letters from the station. The call TIX is a long wave call.

Nicaragua. YNRF, Managua, is on about 6.73 mc. relaying YNOP and using slogan "Radio Pilot." They are heard between 6:00 P.M. and midnight, using English around 11:45 P.M. It is owned by some German firm and signs off with the Nazi anthem. Heard till 1:15 A.M. once, (Nichols, Pa.) Heard on 6.76 mc. (Turpin, Wash.) YNOP moved to 5.46 from 5.76 mc. (Oxrieder, C. Z.) YN1GG, Managua, moved from 6.51 to 6.53 mc. (Oxrieder). An amateur YN3DG, Managua, heard broadcasting on 7.12 mc. around 9.30 P.M. (Shaffar and Oxrieder).

Honduras. A station HRK, city unknown, heard on 5.80 mc. around 9:00 P.M. (Oxrieder, C. Z.)

El Salvador. A station YSP, San Salvador, heard between 10.36 and 10.40 mc., announcing 10.40, broadcasting between 7:00 and 10:30 P.M., relaying YSD at times and using slogan "La Voz de Cuscatlan" (Shaffar, Oxrieder and Lundberg). YSD on 7.89 mc. heard till 11:50 P.M. when list show sign-off at 10:30 P.M. (Hodge, Calif.)

Mexico. XEXA, Mexico City on 6.17 mc. heard till 12:30 A.M. every Sunday instead of just 11:00 P.M. (Kindell). Heard till 12:40 A.M. one Tuesday, (Stark, Mo.) XEWW on 15.16 mc. and 9.50 mc. may come on the air at any time and sign off at any time.

Guatemala. New stations TG3 on 2.34 mc. and TG25E on 5.79 mc. heard 1:00 to 3:00 A.M. one Sunday, (McDermott, N. Y.) Some Guatemala station heard on 5.75 mc. till 11:30 P.M. one Saturday. Call sounded like TG9, (Shaffar, Iowa). TGWB, Guatemala City, on 6.50 mc. heard till 12:30 A.M. daily instead of just midnight, (Hodge, Calif.) Heard till 1:00 A.M. Sunday, (Choppen, N. Z.) Heard till 1:00 A.M. often, (Castleman, Tenn.) TG2, Guatemala City, on 6.19 mc. heard 1:00 to 3:00 A.M. one Sunday saying would send veri free, (Sponsell, Ind.) TG2X, on 5.94 mc. heard 11:30 P.M. to midnight one Tuesday when not listed for Tuesdays, (Stark, Mo.) Broadcasts Mondays, Wednesdays, Thursdays and Saturdays 8:00 to 11:30 P.M., not 4:00 to 6:00 and 10:00 to midnight, (Hodge, Calif.)

WEST INDIES

Dominican Republic. HIH, San Pedro de Macoris, is on 6.78 mc. heard till 9:45 P.M., not just 9:00, (Davenport, Vt.) HI1L, Santiago de los Caballeros, heard on 6.43 mc., not 6.49 mc., signs off in English at 7:45 P.M. list shows till 10:00 P.M. (Johnson, N.Y.) (Station is scheduled to 9:40 P.M. but usually stays till 10:00.—Editor.) HI3X, Trujillo, on 15.27 mc. heard at 5:00 P.M. one Sunday, when schedule shows 7:40 to 11:00 A.M. only, (Edwards, Pa.)

St. Kitts. Station VP2LO is now known as ZIZ, the Z pronounced Zed. They are on 6.38 mc. between 4:00 and 4:30 P.M. (Legge, N.Y.) New schedule is Wednesdays 7:00 to 7:30 P.M., new call ZIZ, (Traister, Ill.)

Martinique. Radio Martinique, Fort de France, Martinique, on 9.70 mc. broadcasts 6:00 P.M. to about 9:00 or 10:00 P.M., relaying TPA3, Paris, from 8:00 P.M. onward. Heard 5:40 P.M. till 10:00 P.M. once, (Slough, B. C., Edwards, Pa.) Heard at 11:15 A.M. to 12:15 noon, and 11:30 as late as 3:30 P.M. Sundays, (Murray, Virgin Islands). Heard till midnight and after, (Wooten, Ala.)

Cuba. COCQ, Havana, veri says 8.83 mc. (Sawada, Calif.) Heard on 8.82, (Hodge), Harmonic of this station falls on 17.66 mc. COBX, Havana, once on 9.20 mc. heard on 18.00 mc. at 11:30 A.M. (Edwards, Pa.) This must be a harmonic, but it should be on 18.40 mc.—Editor. COCM, Havana, moved from 9.86 to 9.81, (Oskay, N. J.) COCO, Havana, on 6.01 mc. heard on 12.10 mc. (Graulich, N. J.) A harmonic of this station should be on 12.02, not 12.10 mc.—Editor. COBZ relays both CMBZ and CMBF, (Shaffar, Iowa).

NORTH AMERICA

W3XAU, Philadelphia, announces new frequencies and schedule. They are on 21.52 mc. daily, 1:00 to 2:30 P.M.; on 15.27 mc. daily, 3:00 to 7:00 P.M.; on 9.59 mc. Mondays, Thursdays and Saturdays, 7:30 P.M. to 11:00 or 11:30 P.M., and on 6.06 mc. daily, 11:30 P.M. to 1:00 A.M. and Sundays, Tuesdays, Wednesdays and Fridays 7:30 to 11:00 or 11:30 P.M. The 21.52 and 15.27 are new frequencies, and 9.59 and 6.06 new schedules.

W2XE, New York, announces another change. They use 9.65 mc. only Mondays through Fridays, 10:30 to 11:30 P. M. now. W8XK, Pittsburgh, also sends us a new schedule. They are on 21.54 mc. 6:45 to 9:00 A.M., on 15.21 mc. 9:00 A.M. to 2:00 P.M., on 11.87 mc. 2:00 P.M. to 11:00 P.M. and 6.14 mc. 11:00 P.M. to 1:00 or 2:00 A.M. Member Anthony, however, reports them on 21.54 mc. at 10:00 A.M., while member Edwards reports them on 11.87 mc. at 10:45 A.M.

W1XAL. When someone refuses to help themselves, we don't care to help them. We have written W1XAL at least fifty times for their schedule. We can only give you what we have. Member Wilson of England, reports them on 21.45 mc. between 11:00 A.M. and noon daily.

W8XAL. A new schedule. It is Sundays 8:00 A.M. to 7:30 P.M. and 11:00 to 11:30 P.M., Mondays and Thursdays 1:00 to 2:00 A.M. and 5:45 A.M. to midnight; Tuesdays, Wednesdays and Fridays 1:00 to 2:00 A.M., 5:45 A.M. to 7:30 P.M. and 11:00 to 11:30 P.M. and Saturdays 1:00 to 2:00 A.M. and 5:45 to 11:00 P.M.

W2XAF and W4XB. The schedule from W2XAF says 4:00 P.M. to midnight, but member Edwards says they come on every Saturday at 1:00 P.M. A schedule from W4XB, Miami on 6.04 mc., says 9:00 P.M. to midnight, but member Edwards reports them at 5:30 P.M.

CHNX. Old VE9HX is now using the call CHNX and is on 6.13 mc. daily except Saturday and Sunday, from 7:00 A.M. to 11:15 P.M., Saturdays 8:00 A.M. to 11:30 P.M., Sundays noon to 11:15 P.M. A mail-bag program, acknowledging reports received, is sent Sundays at 4:00 P.M. and 9:00 P.M. (Nelson, Ill., Lippincott, Mass., Gallagher, Calif., Shaffar,

gives studio address as Agustinas 1253, (Shaffar, Iowa). The station is on Iowa, and Wilson, England).

CJRO, CJRX, VE9CA, VE9CS. CJRO on 6.15 mc. and CJRX on 11.72 mc. broadcast only Saturdays 10:00 P.M. till Sundays 3:00 A.M. now. Old VE9CA, Calgary, on 6.03 mc. uses the call CFVP now, (Davison, Calif. and Oliver, Texas). It is CFBT, not CFVP, (Turpin, Wash. and Shaffar, Iowa). VE9CS, Vancouver on 6.07 mc. uses the call CKFX now, (Turpin).

EXPERIMENTAL AND PHONES

There are two new phones at Rocky Point, N. Y. WQA on 21.09 mc. and WQD on 18.72 mc. heard working Brazil one Sunday, (Werner, Calif.) The ship "Valasco" heard on 2.67 mc. working NOJ, San Pedro, Calif. NOJ on 2.666 mc. KMI, Dixon, Calif., a new phone heard on 8.534 mc. (Olthoff, Kan.) WNBW on the ship "Santa Clara," that carried delegates to Lima, Peru, heard phoning WET on 8.87 and 12.865 mc. (Wooten, Ala.) Is on the "Santa Maria," heard on 6.43 and saying they used 3.70 and 3.725 mc. (Shaffar, Iowa). W10XJF, on some ship near the Virgin Islands heard testing with W9XEI, Lake Bluff, Illinois, both near 8.655 mc. at 11:00 P.M. (Lucke, Ill.) Heard on 8.63 mc. at 1:10 A.M. and earlier on 6.42, (Shaffar, Iowa). Both heard on 8.655, (Davenport, Va.)

HARMONICS

At times certain stations are heard on harmonics that act just like regular broadcast stations. These harmonics fall on 2, 3, 4, etc., times their frequency. A station on 5.00 mc. will have harmonics on 10.00 mc., 15.00 mc., etc. Here are some, with regular frequency and harmonic, being heard: HJ3ABD (4.84) 9.68 mc.; HJ3ABX ((5.99) 11.98 mc.: TIGP (6.41) 12.82 mc.; HIN (6.24) 12.28 mc.; WX1AL (6.04) 12.08 mc.; COCW (6.32) 12.64 mc.; HCJB (6.23) 12.46 mc.; COCO (6.01) 12.02 mc.

SPECIAL BROADCASTS

Special New York World's Fair programs are scheduled for Sundays, 1:30 to 2:30 P.M. Kings, Queens, Emperors and others will take part. Most of these programs will come via RCA stations at Rocky Point and Bolinas, but will be carried by both chains and many short wave stations. They were scheduled originally for 2:30 P.M. but we see 1:30 P.M. mentioned now. Those scheduled are: Feb. 19—Norway; Feb. 26—Belgium; Mar. 5—Yugoslavia; Mar. 12—Italy; Mar. 19—Hungary; Mar. 26—Poland; April 2—Japan; April 9—Sweden; April 16—Brazil; April 23—Great Britain. Thanks to Harry Honda.

**YOUR SUBSCRIPTION
EXPIRES THIS ISSUE**

VOL. X

MARCH, 1939

NO. 6

INTERNATIONAL



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One Dollar per Year.

**THE VOICE OF THE
INTERNATIONAL SHORT WAVE CLUB**

EAST LIVERPOOL, OHIO, U. S. A.

SHORT WAVE NEWS

What many people call "skill" in tuning for short wave stations is nothing more or less than knowing **WHEN** and **WHERE** to tune for stations. Nearly all short wave stations are experimental and change their wave lengths or schedules almost without notice. To know when these changes take place is as important to successful reception as having a good receiver.

The time is given in Eastern Standard. Add five hours for Greenwich Mean Time.

NEW STATIONS

The new General Electric station on Treasure Island, site of the San Francisco World Fair, started operating on February 18th when a test program was sent. Using the call-sign W6XBE, this transmitter will operate on 9.53 and 15.33 mc., sharing these frequencies with W2XAF and W2XAD, Schenectady. No schedule has yet been set, but rumor has it that the station will be on 15.33 mc. between 3:00 and 9:00 A. M. Programs will be beamed toward Australia, India and the Far East. Member Callan claims they will operate 7:00 to 10:00 A.M. and 6:00 to 10:00 P.M., but does not give the source of his information. Mr. Darlington of W2XAD and W2XAF, telegraphed news of the first test.

The long awaited Irish station, "Radio Eireann," located in Moydrum County, near Athlone, will operate on the same frequencies as HVJ but will give HVJ an open frequency for all their broadcasts. These are 6.19 mc. (48.47), 9.55 mc. (31.41), 11.74 (25.55), 15.12 (19.84) and 17.84 (16.82). They will start testing soon. (Darby, Ireland).

A new 50 kw. transmitter is going up at Baneasa (near Bucharest) Roumania. (From English newspaper).

Iraq. A station YI5KG, Bagdad, Iraq, Asia Minor, is a 1,000 watt transmitter operating daily on 7.20 mc., from 7:30 A.M. to 3:00 P.M. There is also a 400 watt station on 6.90 mc. at 9:30 A.M. and an 80 watt station on 14.20 mc. relaying Bagdad at 10:00 A.M. These are owned by His Royal Highness Crown Prince Faisal Ghaze of Iraq, a former member of this club. The address is Qasr, El Zehoor, Broadcasting Station, Bagdad, Iraq, (Field, England). Verification received, (Greenland, England).

Norway. Two new stations have been testing and sending programs to America on 9.61 mc. and 8.025 mc. between 8:00 and 9:00 P.M. and 11:00 P.M. and midnight. They are located at Oslo, (Gallagher, Stempel, Wilson and Solito).

China. A station XMHA, 445 Racecourse Road, Shanghai, is on 12.23 mc. or 24.53 meters starting at 5:00 A.M. All announcements in English, (Samuel, New Zealand).

Albania. ZAA, Tirana, Albania, announced frequencies as 7.85 mc. and 6.08 mc. and asked for reports to be sent to Radio Tirana, Tirana, Albania, (Greenland, England). Channels allotted are 7.21 mc., 7.31 mc., 7.485 mc., 9.995mc., 10.095 mc. Heard on 7.21 and 9.995 mc. until 2:30 P.M. Address is Direction de la Presse, Ministra Royal des Affairs, Etrangeres D'Al-

bania, Tirana, (Field, England). Heard on 10.00 mc. at 4:00 P.M., also announced would be on 6.45 mc. at 4:00 P.M., (Pedicora, N.Y.) Heard on 10.00 mc. at 6:30 P.M. (Stempel, Conn.) A station using Arabian and broadcasting Jewish songs heard on 6.62 mc. at 8:30 P.M. one Wednesday, (Bank, N.Y.)

Uruguay. A station CXA6 is on 9.62 mc. daily 6:00 to 9:00 P.M. (Gallagher, Calif.) Was on 6.125 mc. using call CXA4, now on 9.62 mc. using call CXA6. When on 6.125 mc. schedule was 10:30 A.M. to 12:30 noon and 3:30 P.M. to 9:30 P.M. (Oskay, N.J.) Heard till 9:00 P.M. (Legge, N.Y.)

Roumania. A station at Timiscara, is reported on 7.14 mc. 9:00 to 10:00 A.M. broadcasting. This is not an amateur, we are told.

Kenya, Africa. A station VQ4MSR, an amateur, has been testing with England on phone for some time, between 1:45 and 2:30 P.M. on 6.34 mc., 47.3 meters, (Dodd, Africa).

France... Two new frequencies have been used recently. One on 7.28 mc. or 41.21 meters, is broadcasting for America daily 9:15 P.M. to midnight now, along with TPA-4 on 11.718 mc. This one was heard as early as 8:00 P.M. for a time, (Stockbridge, Mass.; Coleman, N.Y.; Cullan, Mass.; Stark, Mo.) Another one was on 9.62 mc. or 31.19 meters testing between 9:15 P.M. and midnight, (Edwards, Pa.; Adler, N.Y.; Nichols, Pa.; Lawton, Wash.; Stark, Mo.; Legge, N.Y.; Bower, Ohio; Westerberg, Mass.; Eder, Minn.; Shaffar, Iowa).

"Radio Leo," at Leopoldsville, Belgian Congo, is a new 25 watt station operating Sundays and Holidays on 6.14 mc. between 5:40 and 7:00 A.M. and also irregularly at 10:30 A.M. (Janson, Germany).

A new 10,000 watt transmitter at Tangiers, Africa, is under construction according to word received from an amateur there, (McDermott, N.Y.)

Holland. A station PHI3, Hilversum, is on 21.48 mc. Station has verified but no schedule is given. Has 10 k.w. power, (Samuel, New Zealand).

OCEANIA

A station operated by the National Commercial Broadcasting Service, Private Bag, G. P. O., Wellington, New Zealand, is on 3.48 mc. and 6.96 mc. with 200 watts power. They broadcast alternate fortnights on each frequency, 3.48 mc. one and 6.96 the other, from about 11:00 P.M. Saturdays until 7:00 A.M. Sundays, (Kindell, New Zealand).

Pitcairn. VR6AY is an experimental station on 14.36 mc. heard between midnight and 8:00 A.M. with the best time between 4:00 and 6:00 A.M.

Papua. A station on 7.31 mc. is broadcasting daily 3:00 to 5:00 A.M., relaying station 4PM, Port Moresby, (Kindell, New Zealand). Another one, VHSU, reported first at New Guinea is now reported at Port Moresby, this one being on 6.54 mc. and 8.07 mc. using only one frequency at any time, between 6:30 and 9:00 A.M. QRA given as Government Post and Telegraph Department, Port Moresby, British New Guinea. Our geography says Port Moresby is in the Territory of Papua, not New Guinea.

A station VK2MA is relaying VK2ME, Sydney, Australia, on 6.72 mc. every Sunday 4:30 to 8:30 A.M. (McDermott, N.Y.) Is on 42.86 mc. or about seven meters, (Greenland, England).

AFRICA

Natal. Station ZRD, Durban, is on two new frequencies according to Member Oskey, of New Jersey. They are on 4.876 mc. noon to 3:15 or 4:00 P.M. and on 9.753 mc. Sundays 5:30 to 7:00 A.M. and 9:00 A.M. to 11:30 A.M. and week-days 3:30 to 7:00 A.M. and 9:00 to 11:45 A.M. Reception, however, shows ZRD on 9.72 mc., not 9.75, between 11:45 P.M. and 12:45 A.M. along with ZRK on 9.61 mc. and ZRH on 6.007 mc. This is reported by members Gallagher, Greenman, Stark, Solito and Legge. Heard between 10:00 A.M. and 11:45 A.M. (Honda). A tip to readers. Dial to 9.72 mc., 9.61 mc. and 6.01 mc. at 11:45 P.M. each night. Address of all stations is Box 4559, Johannesburg.

Canary Islands. Either EAJ43 or EA8AB, both of the same address, is heard around 7.48 or 7.49 mc. broadcasting. 8:00 to 9:00 P.M. EAJ43 usually broadcasts on 10.37 mc., 3:00 to 4:30 P.M., 5:00 to 7:00 P.M., 7:45 P.M. to 8:45 P.M. and 9:00 to 10:00 P.M. However, it may be either EAJ43 or EA8AB that is near 7.49 mc. (Stark, Mo.; Oskay, N.J.) Heard on 7.50 mc. at 5:00 P.M. (Bird, Del.)

Ethiopia. The station at Addis Ababa, IABA, heard on 9.65 mc. 11:00 A.M. to 1:00 P.M. (Oskay, N.J.) Is on 9.52 mc. daily 1:00 to 3:00 P.M. (Janson, Germany).

Portuguese Africa. CR6AA, Lobito, Angola, is roaming around. Recently it has been heard on 13.00 mc., then 7.61 mc. then 7.177 mc. and 7.745 mc. and once was on 9.666 mc. Schedule is Mondays, Wednesdays and Saturdays 2:30 to 4:00 P.M. On 13.00 mc. it was heard in America.

Eritrea. A station at Asmara heard on 8.90 mc. closing down at 2:45 P.M. after broadcasting, (Kindell, New Zealand).

ASIA

India. The new schedule and frequencies for these stations were given last month. Look for VUC2 on 4.85 mc., VUB on 4.88 mc., VUM2 on 4.92 mc., VUD2 on 4.96 mc. heard between 6:30 and 10:00 A.M.; VUB2 on 9:55 mc. and VUD2 on 9.59 mc. heard around 9:30 to 11:30 P.M.; VUM2 on 11.87 mc. heard 3:30 to 4:00 A.M., and VUD3 on 15.16 mc. sometimes heard 9:30 to 11:30 P.M. Also, a station VUD4 is reported now on 15.29 mc. between 9:30 and 11:30 P.M. with program different from VUD3 on 15.16 mc. (Gallagher, Calif.) On 15.31, (Banninga, Ohio). The schedules we show in our list was supplied by members Riggle, Walter, Crosley and Todd.

Japan. Something mysterious about the Japanese this month. Their February schedule showed JZK on 15.16 mc. off the air. It was heard by many till the middle of the month. Member Hutchinson, of New Hampshire, heard the announcer say that from 8:00 to 8:30 P.M. they would use a new station JLG3 on 10.705 mc., not listed anywhere we have seen. Immediately, however, the program was heard and reported on JZ1 on 9.53 mc. What station is on the air 8:30 P.M. now, JZK on 15.16 mc.,

JLG3 on 10.705 mc. or JZI on 9.53 mc.? JZI on 9.53 mc. replaced JZJ on 11.80 mc. from 7:00 to 7:30 A.M. (Oliver, Texas; Legge, N. Y.; Bower, Ohio). A Japanese broadcaster is heard on 9.46 mc. or 31.73 meters, 7:00 to 7:30 A.M. (Stark, Mo.) JVN, a phone on 16.66 mc. heard broadcasting 1:30 to 2:15 A.M. (Sawada, Calif.) Other schedules for JZJ on 11.80 mc., JLG on 7.28 mc. can be found in our list. No one has reported reception of stations JVV on 7.255 mc., JVV2 on 9.665 mc., JVV3 on 11.725 mc. and JVV4 on 17.825 mc. supposed to be on the air.

China. XTJ, Hankow, 11.69 mc., is now in the hands of the Japanese. It was heard once recently noon to 12:30 P.M. (Gallagher, Calif.) XGOX, Chungking, moved to 15.195 mc. and is heard evenings according to member Oliver, of Texas, and Gallagher, of California. Member Davison, of California, does not give the call, but said they announced 15.19 mc. and schedule is 9:00 A.M. to 11:00 A.M. and 9:00 P.M. to 11:00 P.M., E.S.T. XRVG was on 11.40 mc., 5:00 to 5:30 A.M. (Hodge, Calif.) Schedule is 1:00 to 1:30 A.M., 8:00 to 8:35 A.M. and 7:00 to 7:30 P.M. (Oskay, N. J.) Heard on 11.42 mc., 6:45 to 7:30 P.M. and on 15.18, 9:00 to 10:00 P.M. (Gallagher, Calif.) A station XGAP is operated by the Japanese on 9.66 mc., 2:00 to 6:00 A.M. according to member Hodge, of California, who says that reports should be addressed to S. Yoshimura, Pekin Central Station Committee, Hsi Chan An Chieh, Pekin, China. He also reports another new station, XOJD on 6.77 mc. between 4:00 and 5:00 A.M., address H. K. Tong, Information Committee, Box 90, Hankow. Member Oskay, of New Jersey, says it was heard 6:00 to :00 A.M. Last comes XPSA on 7.01 mc. Letters say it is on 7.14 mc. with 10 kw. power, 6:00 to 7:00 P.M. and 6:00 to 8:00 A. M. and address is Central Broadcasting Administration, Central Executive Committee of Kuomintang, Chungking, China, (Swada, Calif.) However, the station is on 7.01 mc. and is heard from 3:00 A.M. to 10:30 A.M. at times, (Turpin, Hodge, Gallagher, Davison and others). Veri says XRVG, not XGRV is proper call-sign, (Gallagher).

Flash. A station XGOY is on 9.50 mc. daily, 10:00 A.M. to noon, broadcasting, (Greenland, England). Heard 6:30 to 8:00 A.M. (Solito, Pennsylvania).

Portugese China. Old CQN, under a new call-sign CRY9 broadcasts on 6.08 mc. Mondays, 8:30 to 10:00 A.M., they say. The address remains J. Estrella, Post Office Building, Macao. Really on 6.09 or 6.065 mc. according to member Stark, of Missouri. Is on 6.08 Mondays and Wednesdays, (Oskay, N. J.)

Java. YDB, Bandoeng, on 15.30 mc. comes on at 9:30 P.M., not 10:30 P.M. (Oliver, Texas).

Philippines. Station KZIB, operated by I. Beck, Inc., P. O. Box 440, Manila, is a small station that started broadcasting on 9.50 mc., but moved recently to 9.49 mc., then 9.48 mc. Comes on at 1:00 A.M. (Gallagher, Calif.) Heard 12:30 to 12:45 A.M. (Woodward, Mass.) Heard 8:00 to 8:30 A.M. almost daily, (Oliver, Texas). Is on 9.48, (Stark, Mo.) Heard signing off at 10:00 A.M. (Eder, Minn.) On 9.50, (Greenland, England). 9.49, (Solito, Pa.) On 9.50, (Samuel, N. Z.)

Turkey. TAP, Ankara, on 9.46 mc., is broadcasting 11:00 A.M. to

5:00 or 6:00 P.M. TAQ, on 15.19 mc., is broadcasting 5:30 to 7:00 A.M. Every Saturday at 3:45 P.M. they broadcast a mail-bag program, reading reports received during the week. Ankara is located in Asia Minor, not Europe. We are corrected by members Coleman, Neyland and Stark. No veries have been reported as yet, but we are told the address is Turk Muhendisler Birligi, 5 no lu Oda, Yeni-Sehei, Ankara, Turkey. It is heard by many now.

Siam. HS4PJ, Bangkok, is on 6.06 mc. Mondays 8:00 to 10:00 A.M. according to member Greenland, of England. We do not know if HS6PJ is on 19.02 Mondays at that time or not now.

EUROPE

Lithuania. The station at Kuanas reported on 9.52 mc. last summer is reported now on 9.315 mc. between noon and 3:00 P.M. (Field, England) Heard last month on 6.14 mc. and 9.52 mc. between 2:00 and 5:30 P.M. *THE WAS SP31 + SP49, you dope!*

Poland. Stations SP19 and SP25, Warsaw, have been replaced by stations SP31 on 9.525 mc. and SP48 on 6.14 mc. broadcasting between 3:00 and 5:00 P.M. They no longer broadcast with SPD (11.53) and SPW (13.63), 6:00 to 9:00 P.M. As a matter of fact, we wonder if any of these station still broadcast at these hours. Heard on 6.14 mc., 9:00 to 10:00 A.M. (Boothroyd, England).

Vatican. The latest schedule shows this station on 15.12 mc. Sundays at 1:00 P.M. and Tuesdays at 10:30 A.M., on 9.60 mc. Sundays at 5:00 A.M. and Wednesdays at 2:30 P.M. and on 6.19 mc. daily except Sundays 2:00 to 3:00 P.M. and Wednesdays, Thursdays and Saturdays till 3:30 P.M. (Janson, Germany). This is different from last month. On 15.12 mc. on Sundays, it is reported by members Walter, Gilmour, Woodward, and Wooten, all of North America. Member Gilmour says they want to now why they do not get more reports from America. Heard Sundays 11:00 A.M. to 1:30 P.M. (Walter, Ohio).

Germany. A new German station is on 17.80 mc. broadcasting to Africa, 10:40 A.M. to 11:30 A.M. (Seaman, New Hampshire). One is heard on 17.185 mc. broadcasting daily 11:15 A.M. to 1:00 P.M. (Callan, Mass.) Member Oskay says DJH, Vienna, is on 17.85 mc. between 11:00 A.M. and 1:00 P.M. and DJG is on 17.185 mc. till 11:15 P.M. He also reports DJE on 17.76 mc. off schedule at 9:20 P.M. and 11:15 A.M.

Switzerland. Member Oskay, of New Jersey, says the station supposed to open on 9.53 mc., 1:00 to 2:00 P.M., 6:45 to 7:45 P.M. and 8:00 to 9:00 P.M. has been heard by him. He is the only person ever to report reception of this station on this frequency, although they tested five months ago on 11.865 mc. and 15.30 mc. Months ago the officials sent us a bulletin saying HBL on 9.34 mc. would broadcast SUNDAYS 7:00 to 8:45 P.M. We listed it. Members by the dozen reported it on MONDAYS. Last month in order to conform with these reports, we made it Mondays. Now we have reports showing reception Sundays and Mondays, (Wooten, Mondays; Haynie, Sundays). The official program sheet shows HBQ on 6.67 mc. Sundays, 1:45 to 2:45 P.M. and 7:00 to 7:45 P.M., HBL on 9.34 mc. Sundays 7:00 to 8:45 P.M., HBO on 11.40 Sundays 1:45 to 2:30 P.M.

and Mondays 2:20 to 3:15 A.M., and HBJ on 14.54 mc. Sundays, 10:45 to 11:30 A.M. and Mondays 2:20 to 3:15 A.M. (Stockbridge, Mass.)

Italy. A list of Italian short wave broadcast stations show 2RO1 (6.035 mc.), 2RO2 (6.93), 2RO3 (9.635), 2RO4 (11.01), 2RO5 (15.17), 2RO6 (15.30), 2RO7 (17.17), 2RO8 (17.32), 2RO9 (9.67), 2RO-10 (15.18), 2RO-11 (7.88 mc.) This lists many new stations, you will notice. 2RO4 on 11.81 mc. and 2RO3 on 9.64 mc., both are relaying programs from 6:00 to 9:00 P.M. now (Stark, Shaffar, Walter, McNutt, Woodward, Bird, Edwards, Oskay and Oliver). Other reports show 2RO5 at 2:30 P.M. (Pedicora, N. Y.) 2RO6 on 15.30 mc. daily, 10:00 to 11:15 A.M. with news in English at 11:00 A.M. (Gilmour, Ont.) and ICC on 6.363 mc., instead of 6.35 mc. as they claim, (Oskay, N. J.)

France. New stations have appeared on 7.28 mc. and 9.62 mc. testing between 9:15 and midnight. Details are given under new stations TPB11 on 9.55 mc. was heard off schedule till midnight, (Olthoff, Kan.; Dement, Pa.; Davison, Calif., and Wooten, Ala.) Our program sheet for March does not show this. TPB3 was heard on 17.85 mc., not 17.81, at 1:45 A.M. (Oskay, N. J.) A station FSFR and using French was logged on 9.51 mc. at 12:47 A.M. once, (Dement, Pa.) Some French station was on 12.20 mc. at 2:00 P.M. broadcasting, (Kindell, N. Z.)

Portugal. A station CSW was heard on 15.10 mc. from 7:00 to 7:30 P.M. one Friday, (Stockbridge, Mass.) This is a new frequency.

Finland: The latest schedule shows OFD on 9.50 mc. from 12:15 to 5:00 P.M., OFE on 11.78 mc., 1:00 A.M. to noon; OIE on 15.19 mc., 1:00 to 4:00 A.M. and 9:00 A.M. to 5:00 P.M., and OIH on 17.80 mc., 4:00 to 9:00 A.M. Does anyone actually hear OIE and OIH?

Norway. A letter from the Administration of Telegraphs, Radio Department, Oslo, Norway, gives these stations and frequencies used today, some of which are new: LKJ, Jeloy on 6.13 mc., noon to 6:00 P.M.; LLG (new one), on 9.61 mc., Oslo, 3:00 to 6:00 P.M., 8:00 to 9:00 P.M. and 11:00 P.M. to midnight; LKQ, Oslo, on 11.735 mc., 10:00 A.M. to 3:00 P.M. and 2:00 to 6:40 A.M., and LKV on 15.17 mc., Oslo, 6:40 A.M. to 10:00 A.M. (Legge, N.Y.) LKQ is not heard on 11.735 mc. however, but on 11.72 mc. (Slough, Gallagher). LLG announced and heard on 9.62 at midnight, (Gallagher). Heard on 9.60 at 2:45 P.M. (Wilson, England). On 9.61 at 3:00 P.M. (Stempel). Same letter, (Forestieri, N. Y.)

Denmark. A veri says OZF, Skamlebaek, on 9.52 mc. broadcasts 8:00 to 9:30 P.M. for South America, and 9:30 to 11:00 P.M. for North America. And OZH on 15.16 mc. broadcasts Sundays and Holidays 8:00 A.M. to 1:30 P.M. Member Scott, of Illinois, says OZF is now broadcasting on 15.32 mc. or 19.58 meters instead of 15.16 mc.

Czechoslovakia. Inasmuch as they do not send us schedule now, our list of stations is perhaps away off. Stations reported and not listed at all are OLR7B on 21.565 mc. and OLR7C on 21.64 mc. heard 5:30 to 6:00 A.M. some time back, (McDermott, N. Y.) and OLR4D on 11.90 mc. heard 1:00 P.M. sometime back, (Gallagher, Calif.) and at 9:00 P.M. recently, (Villalobos, La.) Newspapers show an OLR3B on 9.67 mc. at 8:00 P.M., but station not heard, (Woodward, Mass.) A Czech station

heard on 11.76 mc., 9:00 to 10:00 A.M. mornings with English program, (Stark, Mo.) OLR4A on 11.84 mc heard at 6:30 P.M. (Oliver, Texas), at 10:00 A.M. (Field, Eng.), and at 9:00 A.M. (Oskay, N. J.)

Holland. The March issue of the station bulletin does not show PHI on 11.73 mc. on the air at all. PHI2 on 17.77 mc. almost daily 7:40 to 9:00 or 9:15 A.M.; PCJ on 9.59 mc. Sundays 1:20 to 3:00 P.M., 7:15 to 9:50 P.M., Tuesdays 1:45 to 3:30 P.M., 7:15 to 10:30 P.M., Wednesdays 7:15 to 8:40 P.M., Fridays 8:00 to 9:00 P.M. Heard Fridays, (Edwards, Pa.) PCJ2 on 15.22 mc. broadcasts Sundays 8:40 to 11:00 A.M., Tuesdays 3:00 to 4:30 A.M., Wednesdays 9:30 to 11:30 A.M. Note—PCJ on 9.59 mc. will broadcast a New York World's Fair salute at 9:15 P.M. every Tuesday, (Sheppard and Stockbridge).

Sweden. A printed schedule from Sweden shows SM5SX on 15.155 mc. week-days 11:00 A.M. to 5:00 P.M. and Sundays 9:00 A.M. to 5:00 P.M. SBP on 11.705 mc. week-days 1:00 P.M. to 4:15 P.M. and Sundays 3:00 A.M. to 4:15 P.M. and every Wednesday, Thursday and Saturday 8:00 to 9:00 P.M. and SBO on 6.06 mc. every day 4:15 to 5:00 P.M. (Sawzelius, Sweden). SBP broadcasts every night now 8:00 to 9:00 P.M. (Gallagher, Calif.) Heard till 4:40 P.M. (Stark, Mo)

U. S. S. R. The English programs from U. S. S. R. are broadcast as follows: Over RV96 on 15.18 mc. daily at 3:00 A.M., over RKI on 15.08 mc. daily at 7:00 P.M., over RNE on 12.00 mc. Sundays at 6:00 A.M., Wednesdays at 6:30 A.M., over RAN on 9.60 mc. daily at 7:00 P.M., over a new station on 9.52 mc. Saturdays at 5:00 P.M., over RV59 on 6.00 mc. Sundays at 10:00 A.M. and 4:00 P.M., Mondays and Fridays at 4:00 P.M., Thursdays and Saturdays at 5:00 P.M., and over some station on 6.03 mc. every day at 7:00 P.M. and Saturdays at 5:00 P.M. (Direct and from Todd, Wash., and Haselden, Calif.) Stations on 15.18 mc., 15.08 and 9.60 mc. heard 7:00 to 9:15 P.M. nightly, (Gilmour and Schrieffer). Heard till 10:00 P.M., and also station on 9.52 mc. at midnight, (Gallagher, Calif.) RNE on 12.00 mc. heard at 1:15 A.M. off schedule, (Woodward). Some Russian on 9.40 mc. at 5:40 P.M. once, (Nichols). One on 15.00 mc. 10:00 to 11:00 A.M. (Gilmour). RNE heard till noon, off schedule, and one on 9.52 mc. heard 10:00 to 11:00 A.M. (Hodge). RV96 on 15.18 mc. heard 2:00 to 3:00 A.M. (Gilmour). Heard at 1:00 A.M. (Nichols). Heard 8:00 to 8:00 P.M., signed off before 9:00, (Woodward).

Spain. EAR, Madrid, on 9.49 mc. heard at 6:45 P.M. and at 10:30 P.M., list shows 7:30 to 9:00 P.M. (Bird, Del.) We are making no attempt to keep an up-to-date schedule of those Franco stations near 7.90 mc., as they change from day to day and before we can get one schedule out, they are on another.

SOUTH AMERICA

Suriname. PZH, Gouvernements Radio Dienst, Paramaribo, Suriname, Dutch Guiana, veri says 6.79 mc. or 44.18 meters, 25 watts power, Sundays 8:40 to 10:40 A.M., Tuesdays and Fridays 5:40 to 8:40 P.M., Thursdays 6:40 to 8:40 P.M., Fridays 3:40 to 4:40 P.M.

British Guiana. VP3BG on 6.13 mc. now broadcasts 10:15 to 11:15 A.M. and 3:45 to 7:45 P.M. week-days and 6:45 to 8:45 A.M. and 4:30 to 6:15 P.M. Sundays, (Oskay, N. J.)

Chile. The station relaying CB57 near 11.99 mc. now uses the call sign CB-1180, according to letters received, (Stockbridge, Stempel, Schrieffer, Nelson, Sawada). CB-960 on 9.60 mc. heard 8:00 to 10:30 or 11:00 P.M. (Oskay, N. J. and Oxrieder, C. Z.) Signs off at 10:30 P.M. (Bird, Del.) CB-970 on 9.72 mc. relays CB-78, Santiago and CB-76 Valparaiso, using the slogan "La Co-operative Vitalicia" and "La Voz del Chile para toda America." Sociedad La Co-operative Vitalicia is the owner. Veris have shown three addresses, Casilla 37-V, Casilla 13130 and Casilla 1627.

Ecuador. HC2CW veri says 9.13 mc. daily 11:00 A.M. to 1:00 P.M. and 7:00 to 11:00 P.M., Sundays 8:00 to 10:00 P.M. (Johnson, N. Y., Davison, Calif.) HCK, Quito, has returned to the air on 5.88 evenings, (Bird, Del.) HCODA, Guayaquil, on 9.44 mc. heard coming on at 8:00 A.M. one Monday, off schedule, (Dement, Pa.) Moved to 9.40 mc., heard 8:00 P.M. to midnight now, (Nelson, Ill.) HCJB on 6.23 mc. has a harmonic on 12.46 mc. Some claim this is a regular station, but we have yet to have anyone report it when HCJB was not on 6.23 as well. The first harmonic (the strongest) of 6.23 mc. is 12.46 mc.

Argentina. LRX, on 9.66 mc. at Buenos Aires, comes on at 6:00, not 5:00 P.M. (Wooten, Ala.) When we listed it at 6:00, members said 5:00. LRU on 15.29 mc. comes on as early as 5:00 A.M. and may sign off at any time between then and midnight.

Colombia. HJ1ABG, "Emisora Atlantics," at Barranquilla, moved from 6.04 mc. to 4.91 mc. and broadcasts, according to reports, from 10:00 A.M. till 11:00 P.M. week-days and till 2:00 A.M. Sunday mornings, (Villalobos, Stark, Edwards). Member Stark says it is 4.90, with 7GAB on 4.77 mc., 3CAH on 4.79. HJ7ABD, once on 9.63 mc. is out of business and off the air for good, (Villalobos) A station HJ4DAG, "La Voz de Choco," is on 6.065 mc. nightly, (Gallagher, Calif.) Some Colombian is on 6.08 mc. evenings, (Bird, Del.) Colombians heard and not listed on 6.085 mc., 4.905 mc. and 4.765 mc. (Oskay, N. J.)

Paraguay. A veri from the station says ZP14 is on 11.721 mc. using the slogan "Zeta pe Catorce ZP14, Radiodifusora Villarrica, Paraguay" (Greenland, England). Heard between 2:00 P.M. and 10:00 P.M. (Novotny, Gil, Greenland, Oskay, Gallagher, Stempel).

Brazil. Station PSE, Rio de Janeiro, on 14.935 mc., a phone station, broadcasts every Wednesday 4:00 to 4:15 P.M. in German, every Thursday, 3:00 to 3:30 P.M. in Italian and every Saturday 3:00 to 3:30 P.M. in French, (Novotny, Czech.) Heard every Saturday 2:30 to 3:00 P.M. (Kindell, New Zealand).

Peru. OAX2A, "Radio Rancho Grande" has moved again. It is on 5.94 mc., but announces "50 meters and 6,000 kc." which is away off. They announced schedule as Tuesdays, Thursdays, Saturdays and Sundays 7:00 to 10:00 P.M. (Oxrieder, Canal Zone). Was on 11.85 mc. around noon and 7:00 to 9:30 P.M. in December. OAX4T, Lima, on 9.56 mc. broadcasts 7:00 to 8:00 A.M., not 8:00 to 9:00 A.M. (Oliver, Texas and Legge, N. Y.) Some Peruvian station on 9.695 mc. heard signing off at 6:30 P.M. (Wooten, Ala.)

Venezuela. Two stations are heard around 4.99 to 5.03 mc. Argu-

ments roll round and round about them. It is generally conceded that YV3RX, "La Voz de rege" or "Radio Regal," is on 4.99 mc. Some say a YV5RM, "Radiodifusora Venezuela," is on 5.01 mc., some say 5.02 and Member Oskay claims it was on 6.65 mc. and now on 5.25 mc. To show what we have, here we are: YV5RM on 5.01 mc. (Gallagher). On 5.01 positively and another one on 5.02, (McDermott). On 5.01, (Stark, Hodge). On 5.03 (Davison). Station YV4RQ at Puerto Cabella, is on 5.02 mc. according to members Slott and Nelson. Member Gilmour supplies those slogans of YV3RX. YV1RL moved from 5.93 mc. to 4.36 mc. (Oskay and Oxrieder). A station "Radio Populares," heard on 4.70 mc. at 6:00 P.M. (Dement, Pa.) This should be YV1RL—Editor. YV1RH on 6.36 mc. heard till 1:30 A.M. not just midnight, (Oskay). YV5RJ on 6.25 mc. and YV1RH on 6.36 mc. both heard at 1:00 P.M., not shown on schedule, (Shaffar). YV4RB on 6.52 mc. new schedule is noon to 1:00 P.M. and 6:00 to 10:00 P.M. (Oskay). A station YVA, Caracas, is on 5.22 mc., broadcasting evenings, (Oxrieder).

Chile. CB-1185 "El Mercurio," Santiago, is on 11.85 mc. relaying CB-138 with 1,500 watts power. Comes on with "Cancion Nacional Chilena" and leaves with "La Cancion de Yungay." Owned by Brain & Echeyoyen; address Casilla 13-D, with studios at Calle Compania 1214. A station CB-1174, owned by Orlandini y loggio Lida, Casilla 3455, Santiago, is on 11.74 mc. with 4,000 watts power, (Kindell, New Zealand).

CENTRAL AMERICA

Costa Rica. TIEMT, San Jose, moved to 6.19 mc. from 10.05 mc. TILS, San Jose, moved from 5.90 mc. to 6.165 mc. and heard till 11:30, not 11:00 P.M. (Davison, Calif. and Oskay, N. J.) TIEM heard now on 6.165, not 6.19, (Gallagher, Calif.) Is it TIEMT or TILS on 6.165 now?

Nicaragua. Station YNRF, Managua, remains a mystery yet, since they have not verified. They sometimes relay "Radio Pilot" YNOP, between 6:00 P.M. and midnight, using English at 11:45 P.M. and signing off with the Nazi anthem. Heard on 6.76, not 6.73 now, (Turpin and Stark). An amateur YN3DG, Managua, heard broadcasting on 7.12 mc. around 9:30 P.M. (Shaffar, Oxrieder, Bird).

Guatemala. TGWA on 15.17 mc. heard one Saturday morning at 9:30 A.M. off schedule, (Edwards, Pa.) TG2, on 6.19 mc. is on the air many mornings till 2:00 A.M., not just 11:00 P.M. (Jordan, Pa.) A TG9 heard on 6.75 mc. at 11:30 P.M. (Shaffar, Iowa). A TG3 on 2.34 mc. and a TG25E on 5.79 mc. heard 1:00 to 3:00 A.M. one Sunday, (McDermott, N. Y.)

Honduras. A station HRK, probably in Tegucigalpa, heard on 5.80 mc. around 9:00 P.M. (Oxrieder, C. Z.) Heard at 2:00 P.M. and as late as 11:00 P.M. (Oskay, N. J.) HRP1, San Pedro Sula on 6.36 mc. broadcasts now 6:00 to 7:30 A.M., 2:00 to 4:00 P.M. and till 10:00 P.M., not just 9:00, (Oskay, N. J.)

Mexico. Is XEGW, "La Voz de Aguila," Mexico City, on 6.11 mc. still on the air? XEWW on 15.16 mc. and 9.50 mc. may come on or leave the air at any time on either frequency.

El Salvador. Is anyone hearing YSP on about 10.40 mc. any more? It was heard between 7:00 and 10:30 P.M. several months ago.

WEST INDIES

Cuba. COCM, Havana, moves all around. Heard on 9.82 mc. (Dement). On 9.985 then 9.81 mc. (Oskay). COCA on 9.10 mc. heard at 3:10 A.M. one Sunday, off schedule, (Shaffar).

Haiti. HH3W, Port-au-Prince, moved from 9.64 mc. to 9.79 and heard 7:00 to 9:00 P.M. and veri says schedule is 1:00 to 2:30 P.M. and 7:00 to 9:00 P.M. (Edwards, Pa.) Heard on 9.75, (Schrieffer, La.)

Guadelope. FG8AA, "Radio Guadelope," at Point-au-Pitre, is now a common station easily heard by many. Most reports say it is on about 7.44 mc. or 7.45 mc. between 6:00 and 7:30 P.M., sometimes signing off as early as 7:00 P.M. The address is P. O. Box 125, (Oliver, Oskay, Wooten, Legge, Hutchinson, Lundberg, Aikins, Stark, Olthoff, Oxrieder). Heard at 5:05 P.M. once, (Edwards). Is still on 7.05 mc., not 7.44, (Schrieffer).

St. Kitts. ZIZ, on 6.38 mc. is heard Wednesdays at 7:00 P.M. starting up, (Oskay, N. J.) They sometimes test around 4:00 P.M. also.—Editor.

Martinique. Radio Martinique, Fort De France on 9.70 mc. may start up any time after 5:30 P.M. and close down from 6:30 P.M. to midnight now.

Dominican Republic. HI1L, on 6.49 mc. may sign off any time. Reports we have show them signing off at 6:45 P.M., 8:45 P.M. and 10:00 P.M. HI1A, Santiago de los Caballeros, on 6.19 mc. heard at 6:30 A.M., list shows them starting at 8:45 A.M. (Oskay, N. J.) HIN, Trujillo, on 6.24 now uses the call-sign HI1N, and comes on at 7:00, not 7:45 A.M. (Oliver, Texas, and Edwards, Pa.) HI2G, Trujillo, on 9.29 mc. heard at 7:00 P.M. off schedule, (Oliver, Texas). HI3X, Trujillo, on 15.27 mc. veri says Sundays 7:40 to 9:40 A.M. Tuesdays and Fridays, 8:10 to 10:10 P.M. (Edwards, Pa.) Has anyone heard them at 8:10 P.M. lately? Heard one Sunday 4:15 to 4:45 P.M. (Gilmour, Ont.)

NORTH AMERICA

W1XAL. Through member Callan, we received a bulletin from W1XAL showing them on the air as follows: On 6.04 mc. daily except Saturday, 7:00 to 9:00 P.M.; on 11.73 mc. Monday thru Friday, 9:15 to 11:30 P.M.; on 11.79 mc. Monday thru Friday 3:15 to 6:30 P.M. and Saturday 1:30 to 6:00 P.M. and Sunday 1:00 to 6:00 P.M.; on 15.13 mc. Sundays 10:00 A.M. to 12:30 noon; on 15.25 mc. Wednesdays at 2:00 P.M. and 21.46 mc. Tuesdays. Thursdays and Saturdays, 11:00 A.M. to noon. We thank members Callan, Woodward, Stark and Field.

Our list shows W2XE, New York, as they tell us they broadcast. Member Shaffar reports them back on 6.12 mc. instead of 6.17. Member Callan says W2XAA, owned by the Chicago Telephone Co., Boston, Mass., heard on 12.86 mc. testing in January between 1:00 and 5:00 P.M. could not be in Boston, as the letter 2 is not used in this district. True, but the announcer said it was 2 and at Boston.

W2XAF, Schenectady, on 9.53 mc. broadcasts starting at 4:00 P.M. daily, but when they broadcast the Metropolitan Opera program on Saturdays, they start at 1:00 P.M. (Callan and Edwards). W4XB, Miami, schedule shows 9:00 P.M. to midnight. Heard between 4:00 and 5:30 P.M. (Bird and Edwards).

Canada. CJRO, on 6.15 mc. and CJRX on 11.72 broadcasts only Saturday nights 10:00 P.M. to Sunday mornings 3:00 A.M. A station VEA, Dawson, was heard calling a station VER, Ottawa, at 11.00 P.M., no frequency mentioned, (Gallagher). CFCX, Montreal, on 6.00 mc. broadcasts 8:00 A.M. to 1:00 A.M. week-days and 9:00 A.M. to 11:15 P.M. Sundays, (Callan, Mass.)

EXPERIMENTAL AND PHONES

The Normandie was heard on 13.15 mc. sending a program at 2:45 once (Shaffar, Iowa). A station near 10.22 mc., maybe PSH, was heard sending a program to the Normandie at 9:00 P.M. one Tuesday, announcing PRZ2, Rio de Janeiro, Brazil, (Hofmaster, Ohio). The Boeing Clipper plane was heard on 12.00 mc. at 5:00 P.M. once working KEI, Bolinas, (Gallagher, Calif.)

HARMONICS

At times certain stations are heard on harmonics that act just like regular broadcast stations. These harmonics fall on 2, 3, 4, etc., times their frequency. A station on 5.00 mc. will have harmonics on 10.00 mc., 15.00 mc., etc. Here are some, with regular frequency and harmonic, being heard: HJ3ABD (4.84) 9.68 mc.; HJ3ABX ((5.99) 11.98 mc.: TIGP (6.41) 12.82 mc.; HIN (6.24) 12.28 mc.; WX1AL (6.04) 12.08 mc.; COCW (6.32) 12.64 mc.; HCJB (6.23) 12.46 mc.; COCO (6.01) 12.02 mc.

ULTRA-SHORT

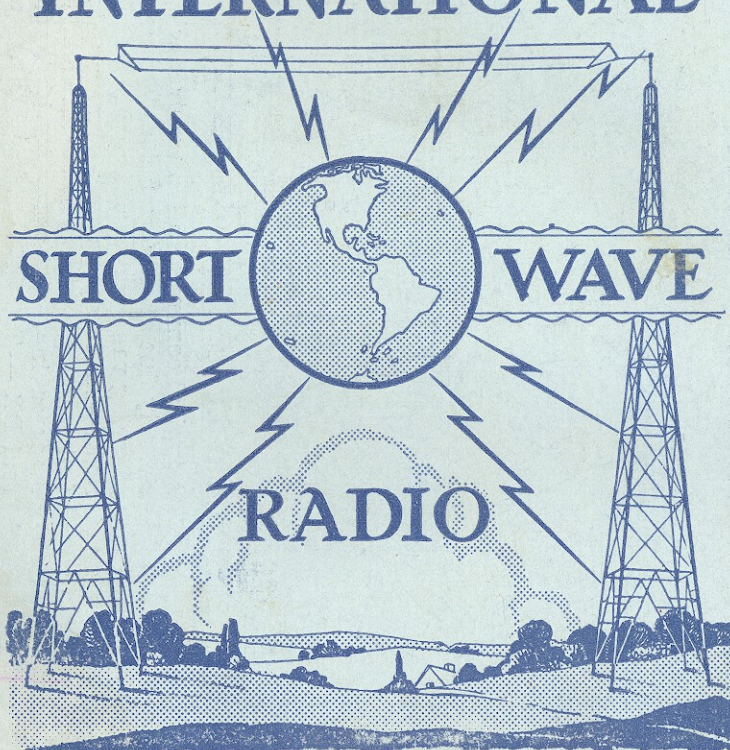
W3IXR relays WCAU, Philadelphia. Verified on 41.00mc. Has no schedule. Heard at 11:00 P.M. (Jordan, Pa.) W8XNT, Cleveland, relays WHK now, 8:00 A.M. to midnight daily, (Sheet, Cleveland). W9XUP, St. Paul moved from 25.95 to 26.15 mc. (Oskay, N. J.) W6XDA, Hollywood, California, relays KNX on 35.60 mc. between 4:00 and 7:00 P.M. and 10:00 P.M. and 1:00 A.M. daily, (Honda, Calif. and Oskay, N. J.) W2XQO, New York City, on 26.55 mc. veri says seven days a week to 9:00 P.M. (Davison, Calif.) W2XTA, Harrisburg, Illinois, on 25.60 mc. has 500 watts and broadcasts Saturdays 11:00 A.M. to noon. Address 28 West South Street, (Davison, Calif.) W8XNU, Cincinnati, Ohio, heard on 25.95 mc., 8:00 to 9:00 A.M. (Field, England). VK2ME, Sydney, Australia, is also on 42.86 mc. as well as 9.59 Sundays, (Greenland, England, and Choppen, New Zealand).

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INTERNATIONAL



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THE VOICE OF THE
INTERNATIONAL SHORT WAVE CLUB

EAST LIVERPOOL, OHIO, U. S. A.

SHORT WAVE NEWS

What many people call "skill" in tuning for short wave stations is nothing more or less than knowing **WHEN** and **WHERE** to tune for stations. Nearly all short wave stations are experimental and change their wave lengths or schedules almost without notice. To know when these changes take place is as important to successful reception as having a good receiver.

The time is given in Eastern Standard. Add five hours for Greenwich Mean Time.

NEW STATIONS

Ireland. "Radio Eireann," located at Moydrum County, near Athlone, heard on 9.59 mc. announcing 9.55 mc., heard at 5:15 P.M. (Wooten, Ala.) Testing on 9.59 and 17.84, (Darby, Ireland). On 17.84 mc., 8:30 to 9:30 A. M. (Stark, Mo.; McDermott, N. Y.) On 15.12 mc. at 3:30 P.M. once, (Oskay, N. J.) On 17.84 mc. from 3:18 to 4:02 P. M. (Waite, N. Y.)

California. W6XBE, located on Treasure Island, San Francisco, is broadcasting on 15.33 mc. daily, 7:00 to 10:00 A. M. and 6:30 to 10:00 P. M. Address is General Electric, 235 Montgomery Street, San Francisco. (Field, Castleman, Callan, Sawada, Oskay, Shepperd, Todd, Hodge, Edwards, Bear, Wooten, Woodward, Adler.)

China. XGOY, at Chungking or Nanking, is on 9.50 mc. broadcasting almost daily. Reported heard 6:00 to 11:30 A. M. and 3:00 to 7:00 P. M. by different listeners. Usually on daily 6:30 to 8:00 A.M., heard best between 7:00 A.M. (when VK3ME signs off) and 7:50 A.M. (when XEWV comes on). Heard mornings in America, (Solito, Pa.; Oskay, N. J.; Bear, England; Preiss, Africa).

Africa. CR7BD, Lourenco Marques, Portuguese East Africa, on 15.24 mc. or 19.68 meters testing, but heard nearer 15.33 mc. (Preiss, Africa).

Roumania. A new 50 kw. transmitter is going up at Baneasa, near Bucharest, according to newspapers. A station at Timiscara reported on 7.14 mc., 9:00 to 10:00 A.M. once broadcasting.

China. XMHA, on 12.23 mc. or 24.53 meters, heard starting at 5:00 A. M., using English. Gave address as 445 Racecourse Road, Shanghai. (Samuel, New Zealand). Heard on 12.33 mc., not 12.23, 4:00 to 7:00 A.M., gave address as Continental Broadcasting Co. (Hodge, Calif.) XMXA, Shanghai, heard on 11.94 mc., signing off at 11:00 A.M. (Plotner, Calif.)

Iraq. YI5KG, Bagdad, on 7.20 mc., from 7:30 A.M. to 3:00 P.M. is a 1 kw. station owned by His Royal Highness Prince Faisal Ghaze. There is also a 400 watt station on 6.90 mc. at 9:30 A.M. and an 80 watt station on 14.20 mc. at 10:00 A.M. Gives news in English at 11:45 A.M. to noon. QRA: Qasr, El Zehoor, Broadcasting Station, Bagdad, Iraq. Heard on 9.83 mc. at same time, on 7.20 mc., used call like HNF or HMF, (Field, England; Greenland, England). Heard 2:00 to 2:30 P. M. (McDermott, N. Y.)

Albania. ZAA, Tirana, using 6.03 mc. frequency at 6:00 P.M. (Darby, Ireland). Using 6.08 mc. daily noon to 1:00 P.M. (Skog, Sweden). Heard

on 10.00 mc., 6:30 P.M. (Stempel, Conn.) Heard on 7.21 mc. and 9.995 mc. around 2:30 P. M. (Field, England). Heard on 6:08 mc. and 7.85 mc. (Greenland, England). Heard on 10.00 mc. at 4:00 P.M. (Pedicora, N. Y.) Heard on 7.21 mc., mc., 9:50 to 10:45 A.M. (Wilson, England). QRA: Direction de la Presse, Ministra Royal des Affaires, Etrangeres D'Albania. Veri says on 7.85 mc. daily, 6:30 to 7:30 A.M. and on 6.085 mc. daily noon to 1:00 P.M., with programs Sundays from 6:30 to 8:30 A.M. and Fridays 6:40 to 7:50 A.M. (Stempel, Conn.)

"Radio Leo," at Leopoldville, Belgian Congo, is a new 25 watt station operating Sundays and Holidays on 6.14 mc. between 5:40 and 7:00 A.M. and also irregularly at 10:30 A.M. (Janson, Germany).

A new 10,000 watt transmitter at Tangiers, Africa, is under construction according to word received from an amateur there, (McDermott, N.Y.)

Holland. A station PHI3, Hilversum, is on 21.48 mc. Station has verified but no schedule is given. Has 10 k.w. power, (Samuel, New Zealand).

A station VQ4MSR, an amateur, has been testing with England on phone for some time, between 1:45 and 2:30 P.M. on 6.34 mc., 47.3 meters, (Dodd, Africa).

AUSTRALIA

New Guinea. Address of PK6XX is Raymond E. Booth, care of Indisch-Amerikaansche Expeditie Hollandia New Guinea, Netherlands East Indies, (Seymour, Md.)

Pitcairn. VR6AY is an experimental station on 14.36 mc. heard between midnight and 8:00 A.M. with the best time between 4:00 and 6:00 A. M.

Papua. A station on 7.31 mc. is broadcasting daily 3:00 to 5:00 A.M., relaying station 4PM, Port Moresby, (Kindell, New Zealand). Another one, VHSU, reported first at New Guinea is now reported at Port Moresby, this one being on 6.54 mc. and 8.07 mc. using only one frequency at any time, between 6:30 and 9:00 A. M.

AFRICA

Ethiopia. IABA, Addis Ababa, heard on 9.65 mc., 11:00 A.M. to 3:00 P. M., broadcasting irregularly, (Oskay, N. J.)

Madagascar. PTT, Tananarive, heard on 9.70 mc., a new frequency, at 10:00 A.M., by listener in Los Angeles, (Waite, N. Y.)

Natal. ZRD, Durban, is on 9.749 mc. or 30.75 meters, 9:00 A.M. to 11:45 A.M. (Preiss, and Mallory, Africa). On 6.15 mc. noon to 4:00 P.M. (Mallory, Africa). ZRD heard on 9.72 mc., not 9.74, along with ZRH on 6.01 mc., and ZRK on 9.61 mc. every night from 11:45 P.M. to 12:45 A.M., with sitting-up exercises, etc. (Oskay, Olthoff, Westerberg, Gallagher, Greenman, Stark and Legge, all in the U. S. A.) Dial for these stations.

Canary Islands. EAJ43, Teneriffe, broadcasts some nights on 10.37 mc., 3:00 to 4:30 P.M., 5:00 to 7:00 P.M., 7:45 to 8:45 P.M. and 9:00 to 10:00 P.M. and some nights they go on 9.49 or 9.50 mc. and broadcast between 7:45 and 10:00 P.M. They announce EAJ43 in English on both frequencies, (Eder, Minn.; Oskay, N. J.; Seymour, Md. and Westerberg, Mass.)

Portuguese Africa. CR6AA, Lobito, Angola, has been on 7.61 mc., 7.177 mc., 7.745 mc., 13.00 mc. and 9.666 mc. but we do not know where they are now. Broadcast Mondays, Wednesdays and Saturdays 2:30 to 4:00 P. M.

Spanish Morocco. A goodly number of amateurs are broadcasting near 7:00 mc. using voice. Some will be found in our station list. EA9BJ is on 7.08 mc., not 7.12 mc., and heard 11:30 P.M. to 12:30 A. M. (Solito, Pa.)

ASIA

Turkey. Verification says TAQ, Ankara, on 15.195 mc. broadcasts 5:30 to 7:00 A.M. and TAP on 9.465 mc., 11:30 A.M. to 5:00 P.M. QRA: Correspondence Department, Radio Ankara, Turkish Broadcasting Company, Ankara, Turkey, (Fellows, N. J. and Carroll, N. J.) TAP moved to 9.47 mc. to avoid interference, (McDermott, N. Y.)

Siam. HS4PJ, Bangkok, heard on 6.06 mc. Mondays 8:00 to 10:00 A.M. (Greenland, England). Veri says HS4PJ was on 6.11 mc., but not now, (Gallagher, Calif.)

French Indo-China. Radio Saigon, Saigon, heard on 6.116 mc., 6:30 to 7:00 A.M. and gave address as Box 226, (Castleman, Tenn.) Heard 6:30 to 7:19 A.M., gave address as Box 238, (Blotner, Calif.)

China. XGOY, Chungking, or Nanking, China, heard on 9.50 mc. broadcasting 6:00 to 11:30 A.M. and 3:30 to 7:00 P.M. XMHA, Shanghai, heard on 12.23 mc. at 5:00 A.M. and on 12.33 mc., 4:00 to 7:00 A.M. XGOX, Chungking, on 15.19 mc. heard 7:00 to 9:00 A.M. and 7:00 to 11:00 P.M. (Samuel, Hodge, Preiss, Rufner, Oliver, Gallagher, Davison). XRVG, on 11.40 or 11.42 mc. heard 1:00 to 2:00 A.M., 5:00 to 6:00 A.M., 8:00 to 8:30 A.M. and 7:00 to 7:30 P.M. (Hodge, Gallagher, Oskay). XPSA, 7.00 mc., Kweiyang, supposed to broadcast daily 6:00 to 8:00 A.M. and 6:00 to 7:00 P.M., heard at 8:46 A.M. (Eder, Minn.) Heard 6:04 to 6:45 A.M. (Solito, Pa.) XOJD, location not known, on 6.77 mc. heard between 4:00 and 5:00 A. M. (Hodge, Calif.) Heard 6:00 to 7:00 A. M. (Oskay, N. J.) XGAP, operated by the Japanese at Peking, heard on 9.66 mc. between 2:00 and 6:00 A.M., said address was S. Yoshimura, Peking Central Station Committee, Hsi Chan An Chieh, Peking, China, (Hodge, Calif.) Heard on 9.56, not 9.66, at 8:30 A.M. (Eder, Minn.)

Philippines. Amateur KA1PI on 14.08 mc. is the official Philippine Island Fair station. Will use beam pointed toward San Francisco Fair. QRA: P. O. Box 849, Manila, (Seymour, Md.) KZIB, operated by L. Beck, P. O. Box 440, Manila, is now on about 9.48 or 9.49 mc., moving around to avoid interference. Heard as early as 12:30 A.M. and as late as 8:30 A.M. and usually heard between 5:00 and 8:30 daily, (Solito, Eder, Woodward, Oliver, Stark, Greenland, Samuel, Gallagher).

Japan. The April schedule calls for these stations: JLT2 on 9.645 mc. or 31.10 meters, 2:30 to 4:00 P.M., JLG3 on 11.705 mc. or 25.63 meters, 2:30 to 4:00 P.M. JJZJ on 11.80 mc., 8:00 to 9:30 A.M. and 4:30 to 5:30 P.M., JZK on 15.16 mc., 12:30 to 1:30 A.M., 7:00 to 7:30 A.M. and 8:00 to 9:30 A. M. JZL on 17.785 mc., 16.87 meters, 4:30 to 5:30 P.M. and 8:00 to 8:30 P. M. Two are new stations, JLT2 and JLG3. Last month they did not keep

the schedule they printed and mailed out. JZK on 15.16 mc. was heard 8:00 to 8:30 P.M. all month instead of JZJ, (Edwards, Oskay, Gilmour, Hodge, Callan, Woodward, Banninga, Van Bergen, Aulber and Hutchinson). JLT2 on 9.64 mc. and JLG on 7.28 mc. heard daily 2:30 to 4:00 P.M. last month, (Skog, Sweden). JLY, a new station was heard on 6.18 mc., heard daily 8:00 to 9:30 A. M. (Hodge, Calif.) Heard on 6.18 mc. in English at 8:25 A. M. (Olthoff, Kansas). JVV3 on 11.725 mc., another new station, heard broadcasting 1:30 to 2:30 A. M. and one on 11.71 mc. heard 12:30 to 1:30 A. M. twice, (Gallagher, California). Phone station JVH on 14.60 mc. broadcasts noon to 9:00 P.M. at irregular intervals, (Gallagher, Calif.) JVN, another phone on 10.66 mc., heard broadcasting almost daily starting at 4:00 A.M. (Samuel, New Zealand).

India. VUD4, a new station at Delhi is reported broadcasting 9:30 to 11:30 P.M. On 15.26 mc. (Eder, Minn.) On 15.31, (Banninga, Ohio). On 15.30, (Aulber, Mo.) On 15.29, (Gallagher, Calif.) VUB2, Bombay, on 9.55 mc. heard at 9:00 P.M., schedule shows starting up at 9:30, (Gallagher, Calif.) VUD3, Delhi, on 15.16 mc. heard 12:20 noon to 1:10 P.M. once, (Bank, N. Y.) VUC2, Calcutta, on 4.85 mc.; VUB2, Bombay on 4.88 mc.; VUM2, Madras, on 4.92 mc., and VUD2, Delhi, on 4.96 mc. can be heard around 6:30 to 9:00 A.M. VUB2, Bombay on 11.83 mc. can be heard 3:30 to 4:00 A.M. VUD3, Delhi, on 15.16 mc can be heard 9:30 to 11:30 P.M.

EUROPE

Poland. SP48, on 6.14 mc. and SP31 on 9.525., both at Warsaw, broadcasts daily 2:00 to 5:30 P.M. now, (Field, England, and Skog, Sweden). SPW on 13.63 mc. and SPD on 11.53 mc. still broadcast, 6:00 P.M. to 9:00 P.M. for America, (Edwards, Callan, Westerberg).

Lithuania. The station at Kuanas reported on 9.52 mc. last summer is reported now on 9.315 mc. between noon and 3:00 P.M. (Field, England) Heard last month on 6.14 mc. and 9.52 mc. between 2:00 and 5:30 P. M.

Vatican. The latest schedule shows this station on 15.12 mc. Sundays at 1:00 P.M. and Tuesdays at 10:30 A.M., on 9.60 mc. Sundays at 5:00 A.M. and Wednesdays at 2:30 P.M. and on 6.19 mc. daily except Sundays 2:00 to 3:00 P.M. and Wednesdays, Thursdays and Saturdays till 3:30 P.M. (Janson, Germany). In America HVJ is heard Sundays on 15.12 mc. from 1:00 to 1:30 P.M. very well. One Sunday they were heard 10:30 to 11:30 A.M. with a program for India, (Wooten, Ala. and Oskay, N. J.)

Switzerland. Station HBL, Geneva, on 9.34 mc. heard Sundays 7:00 to 7:45 P.M. and also Mondays 7:00 to 7:45 P.M. according to reports. (Adler, Edward, Gonzales). HBP on 7.80 mc. and HBL on 9.34 mc. both heard Mondays 8:00 to 8:15 P.M. (Westerberg, Mass.) New transmitters are being erected for 9.53 mc., 11.86 mc. and 15.30 mc.

Germany. With the conquest of Austria and Czechoslovakia, Germany has come into possession of quite a number of new transmitters, which have been added to the regular Zeesen transmitters. Here are some reports. On 17.80 mc. one broadcasting daily 10:40 to 11:30 A.M. (Seaman), One on 17.185 mc. daily 11:15 to 1:00 P.M. (Callan). One on 17.85 mc. called DJH at Vienna between 11:00 A.M. and 1:00 P.M. (Oskay). One on

17.185 mc. is DJG, Vienna, heard till 11:15 P.M. (Oskay). DJG on 17.81 at 12:50 P.M. (Eder, Minn.) Zeesen stations reported off schedule, on new frequencies, etc., follow: DJP on 11.85 mc. broadcasts at 7:15 P.M. on the 14th and last day of each month. Heard at 9:15 P.M. along with DJD once, (Oskay). DZC on 10.29 mc. heard at 5:30 P.M. (Sskay). DZC on 10.29 mc. one Sunday 7:00 to 8:00 P.M. (Gallagher). DZG on 15.36 mc. heard at 1:15 P.M. one Sunday, (Oskay). DZH on 14.46 mc. heard 5:45 P. M. (Oskay).

France. A powerful new transmitter is on 7.44 mc. Was heard one Friday just before press time at 6:20 A.M. (Seymour, Md.) New French station on 7.28 mc. heard 1:00 to 4:00 P.M. (Preiss, Africa). Heard between 9:15 P. M. to midnight, (Eder, Dement, Stempel, Starry, McDermott, Solito, Field, Darby, Oxrieder). Heard on 7.28 mc. now 11:15 A.M. to 6:00 P.M., as well as 7:00 to 9:15 and 9:30 to midnight., (Bartlett, St. Pierre). Paris heard on 6.34 mc. or 47.32 mc. from 1:00 P.M. to midnight, (Reporter's name lost). The 9.62 mc. station was not reported this month, and American amateur station owners are making trouble and the 7.23 mc. station may not be heard there much longer.

Portugal. CSW6 on 11.04 mc. broadcasts noon to 5:30 P.M. and CSW7 on 9.74 mc. used 5:45 to 9:00 P.M. (Freitas, N. Y.) A new Portuguese station with same program as CSW heard 3:00 to 8:00 P.M. now, (Westerberg, Mass.) CSW heard on 15.12 mc. at 8:50 A.M. (Stempel, Conn.) Heard on 15.10 mc. 7:00 to 7:30 P. M. one Friday, (Stockbridge, Mass.)

Italy. A list of Italian short wave broadcast stations show 2RO1 (6.035 mc.), 2RO2 (6.93), 2RO3 (9.635), 2RO4 (11.01), 2RO5 (15.17), 2RO6 (15.30), 2RO7 (17.17), 2RO8 (17.52), 2RO9 (9.67), 2RO-10 (15.18), 2RO-11 (7.88 mc.) This lists many new stations, you will notice. 2RO4 on 11.81 mc. and 2RO3 on 9.64 mc., both are relaying programs from 6:00 to 9:00 P. M. now. IQA on 14.80 mc. heard broadcasting once at 1:10 P.M. (Oskay, N. J.) Some Italian heard on 11.90 mc. at 7:30 P.M. with 2RO program (Wooten, Ala.) 2RO9, on 9.67 mc. heard again at 2:30 P.M. Sundays, (Eder, Minn.) 2RO6, on 15.30 mc. at 10:50 A.M. (Eder, Minn.) Heard using English at 1:20 P.M. off schedule, (Olthoff, Kas and Seymour, Md.) Heard 7:30 to 9:00 P.M. now, (Edwards, Pa.)

Norway. Oslo on 8.02 mc. and also on 9.61 or 9.62 mc. broadcast 8:00 to 9:00 P.M. and 11:00 P.M. to midnight, (Dement, Oskay, Solito, Adler, Gallagher, Wilson). Announces 9.61 mc. and 6.13 mc. nightly, (Westerberg, Mass.) Oslo heard on 9.53 mc. and 11.72 mc. both at 4:30 A.M. weekdays and at 2:30 A. M. Sundays, (Samuel, New Zealand). A letter from the Administration of Telegraphs, Radio Department, Oslo, Norway, gives these stations and frequencies used today, some of which are new: LKJ, Jelo, on 6.13 mc., noon to 6:00 P.M.; LLG (new one), on 9.61 mc., Oslo, 3:00 to 6:00 P.M., 8:00 to 9:00 P.M. and 11:00 P.M. to midnight; LKV, Oslo, on 11.735 mc., 10:00 A.M. to 3:00 P.M. and 2:00 to 6:40 A.M., and LKV on 15.17 mc., Oslo, 6:40 A.M. to 10:00 A.M. (Legge, N. Y.) LKQ on 11.73 mc. till 3:45 P.M., off schedule, (Seymour, Md.) On 11.72 mc. at 8:00 P.M. off schedule, LKV on 15.17 mc. at 1:00 P.M. off schedule, LLG on 9.61 mc. and another station on 10.753 mc. with same program, 11:00 P.M. to midnight, (Gallagher, Calif.)

Denmark. OZH, Skamlebaek, is on 15.32 mc. or 19.58 meters, Sundays and holidays, 8:00 A.M. to 1:30 P.M. Veri says so, (Oskay, N. J., Scott, Ill., and Westerberg, Mass.) OZF on 9.52 mc. broadcasts 8:00 to 9:30 P.M. for South America and 9:30 to 11:00 P.M. for North America.

Finland: The latest schedule shows OFD on 9.50 mc. from 12:15 to 5:00 P.M., OFE on 11.78 mc., 1:00 A.M. to noon; OIE on 15.19 mc., 1:00 to 4:00 A.M. and 9:00 A.M. to 5:00 P.M., and OIH on 17.80 mc., 4:00 to 9:00 A.M. Does anyone actually hear OIE and OIH? OIE heard at 2:15 P.M. once, but not sure, (Seymour, Md.)

Sweden. A printed schedule from Sweden shows SM5SX on 15.155 mc. week-days 11:00 A.M. to 5:00 P.M. and Sundays 9:00 A.M. to 5:00 P.M. SBP on 11.705 mc. week-days 1:00 P.M. to 4:15 P.M. and Sundays 3:00 A.M. to 4:15 P.M. and every Wednesday, Thursday and Saturday 8:00 to 9:00 P.M. and SBO on 6.06 mc. every day 4:15 to 5:00 P.M. (Sawzelius, Sweden). SBP broadcasts every night now 8:00 to 9:00 P.M. (Gallagher, Calif.) Heard till 4:40 P.M. (Stark, Mo.) SBP on 11.70 heard till 4:30 P.M., then went to 6.06 mc. (Eder, Minn. and Stark, Mo.)

Czechoslovakia. Since this country was taken over by German interests, we have been unable to discover their radio activities. However, they will probably be heard again soon now. April schedule was supposed to be as follows: OLR4A on 11.84 mc. Sundays 8:25 to 10:05 A.M., week-days, 12:45 P.M. to 6:30 P.M. and 7:55 P.M. to 11:20 P.M. OLR4B on 11.76 mc. week-days 8:25 to 10:05 A.M. OLR5A on 15.23 mc. daily 4:55 A.M. to 8:15 A.M. Stations OLR4D on 11.90 mc., OLR2A on 6.01 mc. and other Czech stations are not scheduled. For all we know, the whole schedule may be discarded now, as this was mailed before the failure of the government.

Spain. Since the revolution, EAR and EAQ, Madrid, have both been off the air. Two new Franco stations, one on 12.00 mc. and one on 11.96 mc. heard at same time 4:30 to 5:00 P.M. (Adler, N. Y.)

U. S. S. R. Radio Centre sends us a complete program schedule of all their stations. We find many new things. A station is on 5.85 mc. daily 3:30 to 4:00 P.M. RV59 on 6.03 mc. broadcasts Sundays 1:00 to 3:00 P.M. and 4:00 to 7:00 P.M., week-days and 4:00 P.M. to 9:15 P.M. Heard 2:30 to 3:00 P.M. (Field, England). A station on 7.54 mc. broadcasts Sundays 1:00 to 3:00 P.M. A station on 9.52 mc. broadcasts Sundays 2:00 to 3:00 P.M. and 4:00 to 6:00 P.M. and week-days 1:00 to 2:00 P.M., 4:00 to 5:00 P.M. and 6:00 to 9:15 P.M. Heard 8:15 to 8:45 A.M. (Stempel, Conn.) RAN on 9.60 mc. broadcasts Sundays 1:00 to 2:00 P.M., 6:00 to 9:15 P.M., week-days 1:00 to 3:00 P.M. and 6:00 to 9:15 P.M. RNE on 12.00 mc. broadcasts Sundays 6:00 A.M. to 2:00 P.M., 4:00 to 9:15 P.M., week-days 6:00 to 7:00 A.M., 10:00 to 11:00 A.M. and 1:00 P.M. through to 10:00 P.M. On 15.08 mc. every day 7:00 to 9:15 P.M. On 15.21 mc. daily 3:00 to 4:00 A.M. (Heard on 15.21 mc. at 12:30 A.M.) (Oskay, N. J.) A new station is reported heard on 15.31 mc. 11:00 A.M. to 12:15 noon almost daily by member Hodge of California. A station on 6.00 mc. heard Saturdays 5:00 to 6:00 P.M. (Lucke, Ill.) Powerful Russian heard on 15.17 or 15.18 mc., 7:30 to 9:15 P.M. (Woodward, Shaffar).

SOUTH AMERICA

Suriname. PZH, Gouvernements Radio Dienst, Paramaribo, Suriname, Dutch Guiana, veri says 6.79 mc. or 44.18 meters, 25 watts power, Sundays 8:40 to 10:40 A.M., Tuesdays and Fridays 5:40 to 8:40 P.M., Thursdays 6:40 to 8:40 P.M., Fridays 3:40 to 4:40 P.M.

Uruguay. A station CXA6 is on 9.62 mc. daily 6:00 to 9:00 P.M. (Gallagher, Calif.) Was on 6.125 mc. using call CXA4, now on 9.62 mc. using call CXA6. When on 6.125 mc. schedule was 10:30 A.M. to 12:30 noon and 3:30 P.M. to 9:30 P.M. (Oskay, N. J.) Heard till 9:00 P.M. (Legge, N.Y.) Heard from 5:30 P.M. (Lucke, Ill. and Preiss, Africa).

Brazil. Station PSE, Rio de Janeiro, on 14.935 mc., a phone station, broadcasts every Wednesday 4:00 to 4:15 P.M. in German, every Thursday, 3:00 to 3:30 P.M. in Italian and every Saturday 3:00 to 3:30 P.M. in French, (Novotny, Czech.) Heard every Saturday 2:30 to 3:00 P.M. (Kindell, New Zealand). Heard Thursdays at 4:00 P.M. in German, Sunday afternoon in Portuguese and sometimes at 6:00 P.M. (Bird, Del.)

Ecuador. A letter from Frank H. Jones, Director of Station HCJB, Quito, says that they are actually on 12.46 mc. and this is not a harmonic and they broadcast 7:00 to 8:00 A.M. and 7:00 to 10:30 P.M. daily except Mondays. They are not on 6.23 mc. but do use a frequency near 73 meters for local broadcasts at times. They have an English program at 10:00 P.M. HCJB also asked listeners to tell us of this, and we received letters from members Service, Oxrieder, Oskay, Johnson and North. HCK, Quito, on 5.885 mc. is broadcasting again around 7:00 to 10:30 P.M. (Oxrieder and Bird). HC1CQ veri says 9.163 mc. with 150 watts 8:30 to 10:30 P.M. which equals 9:00 to 11:00 P.M. E.S.T. (Johnson, N. Y.) Heard on 9.18 mc. and signed off at 9:55 P.M. (Olthoff, Kas.) Is 8:30 to 10:30 (Bird, Del.)

Colombia. All Colombian stations will be between 4.70 and 5.00 mc. by July first (Mrs. Dorothy Hall, New York). HJ6ABE, Manizales, on 6.11 mc. is heard 6:00 to 9:00 P.M. daily now, with the exception of Sundays, but will not verify, (Villalobos, La.) HJ3CAF, Bogota, on 4.855 mc. has a harmonic on 9.71 mc., and when they announce HKF, many report it as a new station. HKF is their old call which they still use at times. HJ1ABP, Cartagena, on 9.62 mc., heard till midnight, not just 10:30 P.M. (Nichols, Pa.) HJ7ABD, once on 9.63 mc. is out of business and off the air for good, (Villalobos) A station HJ4DAG, "La Voz de Choco," is on 6.065 mc. nightly, (Gallagher, Calif.) Some Colombian is on 6.08 mc. evenings, (Bird, Del.) Colombians heard and not listed on 6.085 mc., 4.905 mc. and 4.765 mc. (Oskay, N. J.)

Paraguay. A veri from the station says ZP14 is on 11.721 mc. using the slogan "Zeta pe Catorce ZP14, Radiodifusora Villarrica, Paraguay" (Greenland, England). Heard between 2:00 P.M. and 10:00 P.M. (Novotny, Gil, Greenland, Oskay, Gallagher, Stempel).

Peru. OAX2A, "Radio Rancho Grande," Trujillo, is on 5.94 mc. announcing 6.00 mc. or 50 meters, which is away off. Schedule is Tuesdays, Thursdays, Saturdays and Sundays, 7:00 to 10:00 P.M. (Oxrieder, C. Z.; Hodge, Calif.) OAX1A, Chiclayo, veri says 6.15 mc. or 48.78 meters, 7:30

to 11:30 P.M. (Davison, Calif.) This one has been heard on 6.34 mc. for months.

Venezuela. YV3RX, Barquisimeto, is on 4.99 mc. between 5:00 and 10:00 P.M. They use the slogan "Radio Regal." YV4RQ, Puerto Cabella, is on 5.02 mc. between 5:00 and 11:00 P.M. They use the slogan "Radio Puerto Caballa." (Callan, Oskay and Bird) YV5RM, Caracas, is on 5.03 mc., also between 5:00 and 10:00 P.M. They use the slogan "Radiodifusora Venezuela." Some members say there is no YV4RQ and others that there is no YV5RM, yet others report them heard often and clearly. YV2RA, San Cristobal, on 5.74 mc. signs off at 9:15 P.M., not 11:30, (Oskay). YV2RN heard on 4.87 mc. at 10:00 P.M. once, (Oskay).

Chile. The station relaying CB57 near 11.99 mc. now uses the call sign CB-1180, according to letters received, (Stockbridge, Stempel, Schrieffer, Nelson, Sawada). CB-960 on 9.60 mc. heard 8:00 to 10:30 or 11:00 P.M. (Oskay, N. J. and Oxrieder, C. Z.) Signs off at 10:30 P.M. (Bird, Del.) CB-970 on 9.72 mc. relays CB-78, Santiago and CB-76 Valparaiso, using the slogan "La Co-operative Vitalicia" and "La Voz del Chile para toda America." Sociedad La Co-operative Vitalicia is the owner. Veris have shown three addresses, Casilla 37-V, Casilla 13130 and Casilla 1627.

Chile. CB-1185 "El Mercurio," Santiago, is on 11.85 mc. relaying CB-138 with 1,500 watts power. Comes on with "Cancion Nacional Chilena" and leaves with "La Cancion de Yungay." Owned by Brain & Echevoyen; address Casilla 13-D, with studios at Calle Compania 1214. A station CB-1174, owned by Orlandini y loggio Lida, Casilla 3455, Santiago, is on 11.74 mc. with 4,000 watts power, (Kindell, New Zealand).

CENTRAL AMERICA

Costa Rica. TI4NRH, Heredia, on 9.69 mc. was heard till 11:30 P.M. one Tuesday and announced they would be on at 6:00 A.M. Wednesday, (Dement, Pa.) TI2RS, San Jose, on 7.45 mc. heard at 6:30 A.M., off schedule, (Oskay, N. J.) TIWS on 6.37 mc. till 10:00 P.M., not 9:00 P.M. (Bird, Del.) Some station on 9.69 announcing TIPG or TIPGW between 9:00 and 11:30 P.M. (Adler, Wooten, and Oskay). Is this TI4NRH on 9.69 mc. relaying TIPG, San Jose on 6.41 mc. or has TIPG taken over station TI4NRH?

Mexico. Is XEGW, "La Voz de Aguila," Mexico City, on 6.11 mc. still on the air? XEWW on 15.16 mc. and 9.50 mc. may come on or leave the air at any time on either frequency. XEWW, Vera Cruz, on 6.12 mc. heard at 8:00 A.M. and XETW, Tampico, on 6.04 mc. at 8:00 A.M., both off schedule, (Oliver, Texas).

Honduras. A station HRK, probably in Tegucigalpa, heard on 5.80 mc. around 9:00 P.M. (Oxrieder, C. Z.) Heard at 2:00 P.M. and as late as 11:00 P.M. (Oskay, N. J.) HRP1, San Pedro Sula on 6.36 mc. broadcasts now 6:00 to 7:30 A.M., 2:00 to 4:00 P.M. and till 10:00 P.M., not just 9:00, (Oskay, N. J.)

British Honduras. ZIK2, on 10.60 mc. will be replaced by ZIK3 on 5.30 mc. for regular Tuesday, Thursday and Saturday broadcasts, 8:30 to

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HENRY RADIO SHOP

BOB HENRY

(W9ARA)

BUTLER, MISSOURI

8:50 P.M. QRA: P. O. Box 48, Belize, British Honduras, (Callan, Mass.)

Nicaragua. YNRF, Managua, roaming between 6.74 and 6.76 mc. has not yet verified. It is heard between 6:00 P.M. and midnight with English at 11:45 P.M. They sometimes relay YNPR, "Radio Pilot." On 6.74 (Oxrieder). On 6.76 (Olthoff). On 6.76 (Stark, Turpin). Amateur YN3DG, Managua, is on 7.12 mc. broadcasting around 9:30 P.M. but will not verify.

El Salvador. We asked if anyone has heard YSP on 10.40 mc. It was broadcasting between 7:00 and 10:30 P.M. some time back. Member Trisdorfer reports it in February and member Oskay says it is still on the air.

Guatemala. TGX1, Guatemala City, heard on 6.123 mc., 1:00 to 2:00 A.M. Sundays and also several evenings around 8:00 to 9:00 P.M. (Hodge, Calif.) A letter direct says TGWB on 6.49 mc. broadcasts week-days 7:45 to 9:00 A.M., 12:45 to 3:45 P.M., and 7:00 P.M. to 12:15 A.M., Sundays 10:30 A.M. to 5:15 P.M. and 7:00 P.M. to midnight. TGWA on 15.17 mc. broadcasts week-days 12:45 to 1:45 P.M., Sundays 12:45 to 5:15 P.M. TGWA on 9.685 mc. broadcasts 10:00 P.M. to 11:30 P.M. week-days and 7:00 P.M. to midnight Sundays.

Panama. HP5J, Panama City, moved to 9.59 mc. from 9.61 mc. and landed on top of PCJ, which station certainly called them down on their broadcasts, (Oxrieder, C. Z. and Callan, Mass.) Heard till 11:00 P.M., not just 10:00 P.M. (Solito, Pa.)

WEST INDIES

Puerto Rico. A station announcing as WCU, San Juan was heard relaying a program from WMAQ on 9.94 mc. one Sunday, 10:45 to 11:15 P. M., inaugurating a new transmitter, (Gallagher, Calif.) Heard on an announced frequency of 9.94 mc. at 7:57 A.M. one morning, (Dement, Pa.)

Guadeloupe. FG8AA, "Radio Guadeloupe," at Point-Au-Pitre, on 7.44 mc. has been broadcasting between 6:00 and 7:30 P.M. for some time. Now they are reported between 6:00 and 7:00 A.M. in the mornings, (Wooten, Ala. and Oskay, N. J.)

St. Kitts. ZIZ, on 6.38 mc. is heard Wednesdays at 7:00 P.M. starting up, (Oskay, N. J.) They sometimes test around 4:00 P.M. also.—Editor.

Martinique. Radio Martinique, Fort De France on 9.70 mc. may start up any time after 5:30 P.M. and close down from 6:30 P.M. to midnight now. Now has 1500 watts power instead of 200, (Callan, Mass.)

Haiti. HH3W, Port-Au-Prince, moved to 9.79 mc. (Edwards, Pa.) Moved to 9.76, (Castleman, Tenn.) Moved to 9.75, (Schrieffer, La.) HH2S, same city, on 5.92 mc. has English program every Wednesday, 8:30 to 10:30 P.M. (Castleman).

Cuba. COCD, Havana, on 6.13 mc. heard starting up at 8:00 A.M., not 10:00 A.M., (Oliver, Texas). COCA, Havana, on 9.10 mc. heard off schedule till 1:45 A.M. (Oskay). Heard at 3:10 A.M. one Sunday, (Shaffar). COCM, Havana, (9.86), COBC, Havana (10.01) and COCX (11.74) have all been roaming away from their assigned frequencies.

Dominican Republic. HI2X, Trujillo, veri says Tuesdays and Fridays, 8:30 to 10:30 P.M. and Sundays 8:00 to 10:30 A.M. (Field, Calif.) This is Dominican time, twenty minutes ahead of Eastern Time. HI2X is on 11.97 mc. HI3X, sister station to HI2X, on 15.27 mc. heard at 10:17 P.M. signing off, (Waite, N. Y.) HI3X heard on 17.40 mc. at 8:00 A.M. one Sunday, (Oskay, N. J.) HI9B, Santiago, moved from 6.67 to 6.39 mc. (Oxrieder, C. Z.) HI1J, San Pedro De Macoris, heard on 5.88 mc., not 5.86, and at 7:00 P.M., off schedule, (Oskay).

NORTH AMERICA

W1XAL, W1XAR. Last month we published the schedule sent to us by W1XAL in printed form and which they mail to W1XAL listeners. They did not, however, mention a station W1XAR and they did not keep the schedule we received. Anyhow, they now have two transmitters, W1XAL and W1XAR, and may be heard on two frequencies with the same program. W1XAR heard on 15.13 mc. at 12:30 noon, (Wooten, Ala.) Heard on 11.79 at 5:45 P.M. (Callan, Mass. and Woodward, Mass.) W1XAL heard off schedule, (Oskay, Woodward, Callan, Davenport).

W2XE. Now back on 6.12 mc. instead of 6.17 Saturdays and Sundays, 11:30 P. M. to 1:00 A.M. and other days midnight to 1:00 A. M. (Oskay). W2XAF, Schenectady, on 9.53 mc., broadcasts from 4:00 P.M. week-days, but starts at 1:00 A.M. on the Saturdays that the Metropolitan Opera Company broadcasts. W3XAU, Philadelphia, on 15.27 mc. now is heard 11:45 A.M. to 12:45 P.M., a change in schedule.

Canada. CJRO, on 6.15 mc. and CJRX on 11.72 broadcasts only Saturday nights 10:00 P.M. to Sunday mornings 3:00 A.M. A station VEA, Dawson, was heard calling a station VER, Ottawa, at 11:00 P.M., no frequency

WHY NOT GO ON THE AIR?

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mentioned, (Gallagher). CFCX, Montreal, on 6.00 mc. broadcasts 8:00 A. M. to 1:00 A.M. week-days and 9:00 A.M. to 11:15 P.M. Sundays, (Callan, Mass.)

HARMONICS

At times certain stations are heard on harmonics that act just like regular broadcast stations. These harmonics fall on 2, 3, 4, etc., times their frequency. A station on 5.00 mc. will have harmonics on 10.00 mc., 15.00 mc., etc. Here are some, with regular frequency and harmonic, being heard: HJ3ABD (4.84) 9.68 mc.; HJ3ABX (5.99) 11.98 mc.: TIGP (6.41) 12.82 mc.; HIN (6.24) 12.28 mc.; WX1AL (6.04) 12.08 mc.; COCW (6.32) 12.64 mc.; COCO (6.01) 12.02 mc. HJ3CAF, sometimes called HKF (4.85) 9.71.

EXPERIMENTAL AND PHONES

W2XAA address is Bell Telephone Labs., 463 West Street, New York City, and they verify, (Edwards, Pa.) Heard again on 8.655 mc. at 5:00 P.M. (Callan, Mass.) LSM2, Buenos Aires, on 14.50 mc. heard sending program to U. S. A., 9:00 to 9:15 P.M. one Tuesday, (Waite, N. Y.) VOFB, St. Johns, Newfoundland, on 12.31 mc. heard talking to Montreal, 7:00 to 7:35 P.M. (Gilmour, Ont.) Many stations at Rocky Point, New York, and Bolinas, California, are reported sending special program material to foreign lands.

LATE REPORTS

Special. April first, JZL on 17.785 mc., Tokyo, Japan, will replace JZK from 8:00 to 8:30 P.M. for North America, (Callan, Mass.) JVW3, Tokyo, heard on 11.725 mc. at 2:00 A.M. (Sawada, Calif.)

Special. A powerful new transmitter on 6.08 mc. using call-sign XEWQ is relaying XEQ, Mexico City, long wave station in the evenings, (Bird, Del.)

EAR, Madrid, Spain, on 9.49 mc. and a station called "Radio Norte," on 7.02 mc. are both heard nightly, 10:00 or 10:30 to 11:00 P.M. for North America, (Bird, Del.) Radio Liberte, the Communist station at Becon Les Bruyeres, France, is being heard often till 6:00 P.M., when they sign off,

on frequencies like 10.10 mc., 10.34 mc., 10.36 mc., 10.51 mc. and 10.65 mc, and also on 7.70 mc. shortly after 6:00 P.M. (Bird, Del.) This station is operated on a truck and changes frequencies to avoid purposely set-up interference for their broadcasts.

An amateur station, located in Chandernagore, French Indo-China, is on 14.075 mc. broadcasting 2:00 to 3:00 A.M. and 7:00 to 10:00 A.M. (National Radio Club).

England is building two new 100 kw. stations to operate on 7.249 mc. (GSV) and 7.26 mc. (GSW) to broadcast for Indian listeners. Amateurs operating in the 7 mc. band are preparing to make trouble for all these stations going on the 7 mc. band, and one editorial we see actually suggests that amateurs purposely set up interference on the frequencies used by these stations and those in France.

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INTERNATIONAL



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THE VOICE OF THE
INTERNATIONAL SHORT WAVE CLUB

EAST LIVERPOOL, OHIO, U. S. A.

SHORT WAVE NEWS

What many people call "skill" in tuning for short wave stations is nothing more or less than knowing **WHEN** and **WHERE** to tune for stations. Nearly all short wave stations are experimental and change their wave lengths or schedules almost without notice. To know when these changes take place is as important to successful reception as having a good receiver.

The time is given in Eastern Standard. Add five hours for Greenwich Mean Time.

NEW STATIONS

Ireland. A letter from the Engineer-in-Chief, Department of Posts & Telegraphs, The Castle, Dublin, Ireland, says they will test the next few weeks on 17.84 mc. daily, 8:30 to 10:00 A.M. and alternate days on 17.84 mc. and 9.59 mc. from 12:30 P.M. to 4.20 P.M. (Legge, N. Y.) Heard on 17.84 mc. (Stark, McDermott, Darby, Waite and Legge). Heard on 9.59 at 5:15 P.M. (Wooten). Veri shows one hour earlier than Legge veri, (Westerberg, Mass.)

China. Powerful transmitter XGOY at Chungking, is on 11.90 mc. daily between 5:00 A.M. and 11:00 A.M., with the best time between 5:30 and 8:00 A.M. Announce in English. Relay XGOA. (Field, Calif., Legge, N. Y.; Olthoff, Kan.; Oskay, N. J.; Stempel, Conn.; Dean, Conn.; Gallagher, Calif.; Eder, Minn.; Skog, Sweden). Heard on 11.80 mc., not 11.90, (Sawada, Calif.; Seymour, Md.) Heard 5:00 P.M. to 8:00 P.M. or 2200 to 0100 G.M.T. almost daily, (Houseman, England). A Chinese station on 11.73 mc. heard at 8:00 A.M. (Stempel, Conn.) One on 11.70 5:30 to 6:30 A.M. (Dean, Conn.)

China. XMHA, 445 Racecourse Road, Shanghai, was on 12.22 mc. in February, now on 11.96 mc. Heard daily at 5:30 A.M. (Kindell, New Zealand). Heard on 11.94 mc. 9:00 to 11:00 A.M. Is operated by Japanese, (Gallagher, Calif.) Heard in March on 12.33 mc. 4:00 to 7:00 A.M., gave address is Continental Broadcasting Co. (Hodge, Calif.) Uses English (Samuel, New Zealand).

China Special. A letter says XGOX is on 17.80 mc., 9:00 to 10:30 P.M. now. QRA is China Information Committee, Chungking, China. Also says XRVG and XTJ are both off the air, (Clark, New York and Gallagher, Calif.) Another says XGOY uses 9.50 mc. in winter and 11:90 mc. in summer, (Arvin, Holland).

Belgian Congo, Africa. A letter from the station says "Radio Leo" on 6.14 mc. broadcasts Sundays and Holidays only from 6:30 to 8:30 A.M. Was 25 watts, now 250 watts power. QRA: College Saint Albert, Leopoldville, Belgian Congo, (Rubio, Cuba). Heard 5:30 to 7:00 A.M. and around 10:00 A.M. Sundays in February, (Janson, Germany).

Portuguese East Africa. CR7BE, Lourenco Marques, heard on 15.24 mc. 9:30 to 11:00 A.M. almost daily, (Bird, India). Announced 15.24 mc. but heard nearer 15.33 mc. (Preiss, Africa).

Angola, Africa. A station CR6RC, heard on 11.74 mc. Saturdays until 3:30 P.M. (Legge, N. Y.)

Union of South Africa. Some station on 11.77 mc. carrying same programs as ZRH and ZRK from 11:45 P.M. to 12:30 A.M. now, (Gallagher, Calif.)

Newfoundland. VOFB, St. Johns, heard on 9.64 mc. at 12:15 noon with news, (Seamans, New Hampshire). Jamaica. A station ZK, with a third letter, heard on 6.065 mc. at 9:00 P.M. (Oskay, N. J.) Bahamas station heard on 6.10 mc. till 9:40 P.M. one Sunday, (Adler, N. Y.) Mexico. A powerful station on 6.08 mc. using call-sign XEWQ, is relaying XEQ, Mexico City, evenings, (Bird, Del.) Used call XEQQ at 8:00 P.M. (Oskay, N. J.) New transmitter at Guatemala City, TGWC, heard on 2.37 mc. (Shaffar, Iowa).

A new 10,000 watt transmitter at Tangiers, Africa, is under construction according to word received from an amateur there, (McDermott, N.Y.)

Holland. A station PHI3, Hilversum, is on 21.48 mc. Station has verified but no schedule is given. Has 10 k.w. power, (Samuel, New Zealand).

Roumania. A new 50 kw. transmitter is going up at Baneasa, near Bucharest, according to newspapers. A station at Timiscara reported on 7.14 mc., 9:00 to 10:00 A.M. once broadcasting.

OCEANIA

Australia. VLR and VLR3 have a new address. It is T. & G. Building, Russell Street, Melbourne, C 1, or P. O. Box 1686, (Boothroyd, England). Station VK8SK, the medical service station at Broken Hills, Queensland, Australia, is reported heard again around 2:30 A.M., near 7.00 mc. Details of this station was given about four years ago in this magazine, but no one heard it and we took it off the list.

Papua. A station on 7.31 mc. is broadcasting daily 3:00 to 5:00 A.M., relaying station 4PM, Port Moresby, (Kindell, New Zealand). Another one, VHSU, reported first at New Guinea is now reported at Port Moresby, this one being on 6.54 mc. and 8.07 mc. using only one frequency at any time, between 6:30 and 9:00 A. M.

AFRICA

Union of South Africa. New calls arranged now are ZRD, Durban, on 4.876 mc., ZRG on 9.523 mc., ZRL on 9.61 mc. and ZRO on 9.752 mc. (Callan and Olthoff). ZRO veri says 9.75 mc. (Legge, N. Y.) ZRO, heard on 9.75, 9:00 A.M. to 11:00 A.M. (Preiss and Mallory, Africa). Heard on 6.15 mc. noon to 4:00 P.M. (Mallory). ZRO heard on 9.72 mc., not 9.75, along with ZRH on 6.01 mc. and ZRL on 9.61 mc. nightly 11:45 P.M. to 12:45 A.M. (Oskay, Olthoff, Westerberg, Gallagher, Greenman, Stark, and Legge).

Madagascar. Station Tananarive heard on 9.69 mc., 10:00 to 11:00 A. M. (Hodge, Calif.)

Ethiopia. IABA, Addis Ababa, heard on 9.65 mc., 11:00 A.M. to 3:00 P.M. broadcasting, (Oskay, N. J.) On 9.66 mc. till 3:00 P.M. (Kindell, New Zealand).

Canary Islands. EAJ43, Tenerife, broadcasts some nights on 10.37 mc., 3:00 to 4:30 P.M., 5:00 to 7:00 P.M., 7:45 to 8:45 P.M. and 9:00 to 10:00 P.M. and some nights they go on 9.49 or 9.50 mc. and broadcast between 7:45 and 10:00 P.M. They announce EAJ43 in English on both frequencies, (Eder, Minn.; Oskay, N. J.; Seymour, Md. and Westerberg, Mass.)

Spanish Morocco. A good many amateurs are broadcasting near 7.00 mc. Gave war news while war was in progress, but now talk about other things. Some will be found in our station list.

ASIA

Afghanistan. A letter from the station manager says YAA on 4.195 mc. and YAH on 5.17 mc. do not broadcast, as is commonly understood, but are used for telegraph work.

Ceylon. The Committee of Communications have decided to give up short wave broadcasting over VPB on 6.16 mc. The transmitter is being changed into a long wave station, (Indian newspaper).

Japan. The May schedule calls for these stations: JLT2 on 9.645 mc. or 31.10 meters, 4:30 to 5:30 P.M., JLG3 on 11.705 mc. or 25.63 meters, 2:30 to 4:00 P.M. JZJ on 11.80 mc., 8:00 to 9:30 A.M. and 7:00 to 7:30 P.M. JZK on 15.16 mc., 12:30 to 1:30 A.M., 7:00 to 7:30 A.M. and 8:00 to 9:30 A.M. JZL on 17.785 mc., 16.87 meters, 12:30 to 1:30 A.M. and 8:00 to 8:30 P.M. The 8:00 to 8:30 P. M. program over JZL on 17.78 is for North America. Other notes on stations follow: New stations JIE on 7.29 mc. and JFO on 9.63 mc. are relaying JFOK, Taihoku, Taiwan, between 9:00 A.M. and 10:20 A.M. Anyone else hearing them? (Sawada, Calif.) JVV3 on 11.72 mc. heard daily 2:00 to 2:30 A.M. ((Sawada). JVV3 or JLG3 on 11.72 mc. heard 1:15 to 2:00 A.M. testing, (Gallagher, Calif.) JVH, phone on 15.66 mc. heard sending baseball games near midnight, (Gallagher). A station XTCY, location not known, heard on 6.12 mc. broadcasting around 9:00 A.M., and unidentified Japanese stations on 15.06 mc. and 15.25 mc. heard broadcasting 1:00 to 2:00 A.M. several times, (Gallagher, Calif.) Flash! JLU3 on 15.135 mc. is used 8:00 to 9:30 A.M. (Gallagher, Calif.)

Albania. A verification says ZAA, Tirana, is on 7.85 mc. daily 6:30 to 7:30 A.M. and on 6.085 mc. daily noon to 1:00 P.M., Sundays 6:30 to 8:30 and Fridays 6:40 to 7:50 A.M. (Stempel, Conn.) Has been reported on 6:03 mc., 6.08 mc., 7.21 mc., 7.85 mc. and 10.00 mc. at different times. On 6.03 mc. at 6:00 P.M. (Darby, Ireland). On 6.08 mc. daily noon to 1:00 P.M. (Skog, Sweden) On 7.21 and 10.00 mc. at 2:30 P.M. (Field, Eng.) On 7.85 mc. and 6.08, (Greenland, Eng.) On 7.849 around 2:00 A.M., announcing 9.96 mc. and 6.08, (Kindell, New Zealand). QRA: Direction de la Presse, Ministra Royal des Affaires, Etrangers, D'Albania.

China. Eight stations are reported in China broadcasting. XGOY, Chungking, is on 11.90 mc. between 5:00 and 11:00 A.M. and on 9.50 mc. between 6:00 and 11:30 A.M. and 3:00 and 7:00 P.M. usually signing off at 8:00 A.M. XMHA is reported on 12.22 mc. 11.94 mc. and 11.96 mc., now on 11.96 around 4:00 to 7:00 A.M. XGOX, Chungking, is on 15.19 mc. between 7:00 and 9:00 A.M. and 7:00 and 11:00 P.M. XRVG veri said 11.42 mc. and was heard 1:00 to 2:00 A.M., 5:00 to 6:00 A.M., 8:00 to 8:30

A.M. and 7:00 to 7:30 P.M. XPSA on 7.00 mc. at Kweiyang, broadcasts daily 6:00 to 8:00 A.M. and 6:00 to 7:00 P.M. XOJD, location unknown on 6.77 mc. heard between 4:00 and 5:00 A.M., and 6:00 and 7:00 A.M. XGAP, operated by the Japanese at Pekin, was heard on 9.66 mc. between 2:00 and 6:00 A.M., gave address as S. Yoshimura, Pekin Central Committee, Hsi An Chieh, Pekin, (Hodge, Calif.) Reports follow: XGOY on 9.50 mc. heard 4:00 to 6:30 P.M. (Arvin, Holland). At 5:30 A.M. (Kindell, N. Z.) Heard 7:00 to 7:45 A.M. (Legge, N. Y.) Heard 9:00 to 11:00 A.M. (Gallagher). XRVG on 11.42, not on the air for several weeks, (Gallagher, Calif.) XPSA on 7.00 mc. heard 9:00 to 11:00 A.M. off schedule, (Gallagher). XOJD on 6.77 mc. heard 4:00 to 5:00 A.M. (Hodge, Calif.) Heard 6:00 to 7:00 A.M. (Oskay). Heard 9:00 to 11:00 A.M. (Gallagher). XGOX on 15.19 mc., heard 10:00 to 11:00 P.M. and 8:00 to 9:30 A.M. (Bird, India). Heard between 7:00 and 9:00 A.M. and 7:00 and 11:00 P.M. (Samuel, Hodge, Preiss, Rufner, Oliver, Gallagher, Oskay).

Philippines. KZIB, Manila, on 9.49 mc. verified promptly saying they would soon broadcast simultaneously on two frequencies (Legge, N. Y.) QRA: L. Beck, P. O. Box 440, Manila. KZRM on 9.57 mc. broadcasts till 10:00 A.M., not just 9:00, (Sawada, Calif.) Amateur KA1PI on 14.08 mc. is the official Philippine Island Fair station. QRA: P. O. Box 849, Manila, (Seymour).

French Indo-China. Radio Saigon, at Saigon, heard on 6.116 mc. 6:30 to 7:00 A.M. and gave address as Box 226 (Castleman, Tenn.) Heard 6:30 to 7:19 and gave address as Box 228, (Blotner, Calif.) Heard at 7:00 A.M. and gave address as Box 412 (Bird, India). They must have several boxes. An amateur at Chandernagore is on 14.075 mc. broadcasting 2:00 to 3:00 A.M. and 7:00 to 10:00 A.M. (National Radio Club).

India. VUD4, a new station at Delhi is reported broadcasting 9:30 to 11:30 P.M. On 15.26 mc. (Eder, Minn.) On 15.31, (Banninga, Ohio). On 15.30, (Aulber, Mo.) On 15.29, (Gallagher, Calif.) VUB2, Bombay, on 9.55 mc. heard at 9:00 P.M., schedule shows starting up at 9:30, (Gallagher, Calif.) VUD3, Delhi, on 15.16 mc. heard 12:20 noon to 1:10 P.M. once, (Bank, N. Y.) VUC2, Calcutta, on 4.85 mc.; VUB2, Bombay on 4.88 mc.; VUM2, Madras, on 4.92 mc., and VUD2, Delhi, on 4.96 mc. can be heard around 6:30 to 9:00 A.M. VUB2, Bombay on 11.83 mc. can be heard 3:30 to 4:00 A.M. VUD3, Delhi, on 15.16 mc. can be heard 9:30 to 11:30 P.M.

Iraq. YI5KG, Bagdad, on 7.20 mc., from 7:30 A.M. to 3:00 P.M. is a 1 kw., owned by the government. There is also a 400 watt station on 6.90 mc. at 9:30 A.M. and an 80 watt station on 14.20 mc. at 10:00 A.M. Gives news in English at 11:45 A.M. to noon. QRA: Qasr, El Zehoor, Broadcasting Station, Bagdad, Iraq. Heard on 9.83 mc. at same time, on 7.20 mc. Heard 2:00 to 2:30 P.M. (McDermott, N. Y.) On 9.68 mc. daily, 9:30 A.M. using call like HNF or HMF, (Field, England; Greenland, England). to 2:30 P.M. now, (Keen, England).

Turkey. Verifications from Turkey says TAQ, Ankara, broadcasts on 15.195 mc., 5:30 to 7:00 A.M. and TAP on 9.465 mc. from 11:30 A.M. to 5:00 P.M. QRA: Correspondence Department, Radio Ankara, Turkish Broadcasting Company, Ankara, Turkey (Fellow, Carroll, Atherton, Stempel, Westerberg, Eder).

Siam. HS4PJ, Bangkok, heard on 6.06 mc. Mondays, 8:00 to 10:00 A.M. (Greenland, England).

EUROPE

Switzerland. New Schedule effective immediately is as follows: HBQ on 6.67 mc. Sundays 2:30 to 3:00 P.M. HBL on 9.34 mc. Sundays 8:00 to 8:15 P.M. (For America). HBO on 11.40 mc. Sundays 2:30 to 2:45 P.M. and 7:00 to 7:15 P.M. and Mondays 2:00 to 2:15 A.M. HBJ on 14.53 mc. Mondays 2:30 to 2:45 A.M. HBH on 18.48 mc. Sundays 11:00 to 11:15 A.M. Reports follow: HBO heard at 7:00 P.M. one Sunday, (Oskay and Woodward). Heard at 7:55 P.M. one Monday, too, (Oskay).

England. Two new 100 kw. transmitters to operate on 7.295 mc. (GSV) and 7.26 mc. (GSW) are under construction.

Poland. SP48, on 6.14 mc. and SP31 on 9.525., both at Warsaw, broadcasts daily 2:00 to 5:30 P.M. now, (Field, England, and Skog, Sweden). SPW on 13.63 mc. and SPD on 11.53 mc. still broadcast, 6:00 P.M. to 9:00 P.M. for America, (Edwards, Callan, Westerberg).

Lithuania. The station at Kuanas reported on 9.52 mc. last summer is reported now on 9.315 mc. between noon and 3:00 P.M. (Field, England) Heard last month on 6.14 mc. and 9.52 mc. between 2:00 and 5:30 P.M. On 9.32 at 11:00 A.M. now, (Keen, England).

Italy. Stations used at present are IAC on 6.355 mc., 2RO3 on 9.64 mc., IRF on 9.83 mc., IQY on 11.67 mc., 2RO4 on 11.80 mc., IQA on 14.795 mc., 2RO6 on 15.30 mc. and 2RO8 on 17.82 mc. These are given in order of their frequency and schedules are found in our list. For America, from 7:30 to 9:00 P.M., 2RO3, 2RO4, 2RO6 and IRF are used. Additional reports follow: Station 2RO12 on 15.10 mc. heard at 4:00 P.M. announcing in English, (Shaffer, Iowa). Heard at 6:15 A.M. (Oskay, N. J.) Some Roman station heard on 11.90 mc. 7:00 to 7:30 P.M. (Gallagher, Calif. and Oskay, N. J.). Ed. Note—Wonder if this could be the Czech station heard on 11.90 mc. some time back?

France. A new schedule is used now. TPB11 on 7.28 mc. 10:15 to 12:45 noon, 1:00 to 5:15 P.M. and 8:30 to 11:00 P.M. TPA4 on 11.72 mc. 6:00 P.M. to 11:00 P.M. TPB12 on 11.88 mc. 6:00 to 8:15 P.M. TPB6 on 15.13 mc. 1:00 to 4:00 A.M. TPA2 on 15.24 mc. 5:00 A.M. to 10:00 A.M. TPB3 on 17.85 mc. (new frequency), 8:30 to 11:00 A.M. TPB11 on 9.62 mc. and TPB7 on 11.88 mc. are not used, (Adler, N. Y.) TPB6 on 15.13 mc. heard at 6:30 A.M., off schedule, (Oskay, N. J.) RADIO LIBERTE, the communist station operated on a moving truck at Becon Les Bruyeres, France, is being heard often till 6:00 P.M. on frequencies like 10.10 mc., 10.34 mc., 10.36 mc., 10.51 mc. and 10.65 mc. and after 6:00 P.M., on 7.70 mc. (Bird, Delaware).

Portugal. CSW6 on 11.04 mc. broadcasts noon to 5:30 P.M. and CSW7 on 9.74 mc. used 5:45 to 9:00 P.M. (Freitas, N. Y.) A new Portuguese station with same program as CSW heard 3:00 to 8:00 A.M., on 8:35 mc. (Westerberg, Mass.) CSW heard on 15.12 mc. at 8:50 A.M. (Stempel, Conn.) Heard on 15.10 mc. 7:00 to 7:30 P.M. one Friday, (Stockbridge, Mass.)

Czechoslovakia. We have received no word from Prague since Germany took over this country and do not know what schedule they use to broadcast now. The one we list is the last one we received. Members Oskay and Stempel report OLR4A on 11.84 mc. around 8:00 P. M. Member Adler reports a Czech station on 12.00 mc. till midnight once then on about 7.00 mc. once.

Germany. DJP on 11.855 mc. and DJX on 9.675 mc. now relay the YUA, Belgrade program on the 15th and last days of each month from 7:00 to 8:15 P. M.

Vatican. The latest schedule shows this station on 15.12 mc. Sundays at 1:00 P.M. and Tuesdays at 10:30 A.M., on 9.60 mc. Sundays at 5:00 A.M. and Wednesdays at 2:30 P.M. and on 6.19 mc. daily except Sundays 2:00 to 3:00 P.M. and Wednesdays, Thursdays and Saturdays till 3:30 P.M. (Janson, Germany). In America HVJ is heard Sundays on 15.12 mc. from 1:00 to 1:30 P.M. very well.

Norway. Oslo on 8.02 mc. and 9.61 mc. broadcast 8:00 to 9:00 P.M. and 11:00 P.M. to midnight. This is heard by many. A letter from the Administration of Telegraphs, Radio Department, Oslo, Norway, gives these stations and frequencies used today, some of which are new: LKJ, Jeloy, on 6.13 mc., noon to 6:00 P.M.; LLG (new one), on 9.61 mc., Oslo, 3:00 to 6:00 P.M., 8:00 to 9:00 P.M. and 11:00 P.M. to midnight; LKQ, Oslo, on 11.735 mc., 10:00 A.M. to 3:00 P.M. and 2:00 to 3:40 A.M., and LKV on 15.17 mc., Oslo, 6:40 A.M. to 10:00 A.M. (Legge, N. Y.)

Denmark. OZH, Skamlebaek, is on 15.32 mc. or 19.58 meters, Sundays and holidays, 8:00 A.M. to 1:30 P.M. Veri says so, (Oskay, N. J., Scott, Ill., and Westerberg, Mass.) OZF on 9.52 mc. broadcasts 8:00 to 9:30 P.M. for South America and 9:30 to 11:00 P.M. for North America.

Finland. The latest schedule shows OFD on 9.50 mc. from 12:15 to 5:00 P.M., OFE on 11.78 mc., 1:00 A.M. to noon; OIE on 15.19 mc., 1:00 to 4:00 A.M. and 9:00 A.M. to 5:00 P.M., and OIH on 17.80 mc., 4:00 to 9:00 A.M. Does anyone actually hear OIE and OIH?

Sweden. A printed schedule from Sweden shows SM5SX on 15.155 mc. week-days 11:00 A.M. to 5:00 P.M. and Sundays 9:00 A.M. to 5:00 P.M. SBP on 11.705 mc. week-days 1:00 P.M. to 4:15 P.M. and Sundays 3:00 A.M. to 4:15 P.M. and every Wednesday, Thursday and Saturday 8:00 to 9:00 P.M. and SBO on 6.06 mc. every day 4:15 to 5:00 P.M. (Sawzelius, Sweden). SBP broadcasts every night now 8:00 to 9:00 P.M. (Gallagher, Calif.) Heard till 4:40 P.M. (Stark, Mo.) SBP on 11.70 heard till 4:30 P.M., then went to 6.06 mc. (Eder, Minn. and Stark, Mo.)

U. S. S. R. Radio Centre sends us a complete program schedule of all their stations. We find many new things. A station is on 5.85 mc. daily 3:30 to 4:00 P.M. RV59 on 6.03 mc. broadcasts Sundays 1:00 to 3:00 P.M. and 4:00 to 7:00 P.M., week-days and 4:00 P.M. to 9:15 P.M. Heard 2:30 to 3:00 P.M. (Field, England). A station on 7.54 mc. broadcasts Sundays 1:00 to 3:00 P.M. A station on 9.52 mc. broadcasts Sundays 2:00 to 3:00 P.M. and 4:00 to 6:00 P.M. and week-days 1:00 to 2:00 P.M., 4:00 to 5:00 P.M. and 6:00 to 9:15 P.M. Heard 8:15 to 8:45 A.M. (Stempel, Conn.) RAN on 9.60 mc. broadcasts Sundays 1:00 to 2:00 P.M., 6:00 to 9:15 P.M., week-days 1:00 to 3:00 P.M. and 6:00 to 9:15 P.M. RNE on 12.00 mc.

broadcasts Sundays 6:00 A.M. to 2:00 P.M., 4:00 to 9:15 P.M., week-days 6:00 to 7:00 A.M., 10:00 to 11:00 A.M. and 1:00 P.M. through to 10:00 P.M. On 15.08 mc. every day 7:00 to 9:15 P.M. On 15.21 mc. daily 3:00 to 4:00 A.M. Reports follow: Call-sign on 9.52 mc. is RV96 veri says, (Westerberg, Mass.) Russian on 15.04 mc. and RV96 on 15.18 heard at 7:30 P.M., not RKI on 15.08 either, (Oksay). Some Russian station heard on 15.39 mc. daily till 11:00 A.M. (Hodge, Calif.) One heard on 15.41 mc. at 6:00 A.M. (Oskay, N. J.) RV96 on 15.18 mc. heard very strong 12:45 to 1:30 or 2:00 A.M. every day, (Gallagher, Calif.) RV96 sent special relay to U. S. A. 11:45 A.M. once, (Wooten, Ala.) English schedule from Todd, Wash.

Azores. CT2AJ, Fayal Azores, heard on 4.00 mc. till 7:00 P.M. Saturdays, (Legge, N. Y.) Amateur or broadcaster?

SOUTH AMERICA

Member Behling of Maracaibo, sends us a clipping from a Maracaibo newspaper showing new frequencies and calls for Venezuelan stations:

Call	Freq.	City	Slogan	Owner
YV1RT	4.77	Maracaibo	"La Voz de la Fe,"	P.A. Vermudez V (New)
YV1RO	4.78	Trujillo	"Radio Trujillo,"	P. J. Torres (New)
YV5RY	4.79	Caracas	"La Voz de la Esfera,"	Suegart & Cia (5RJ)
YV1RV	4.80	Maracaibo	"Ecos Del Zulia,"	Luis Garcia N. (1RB)
YV1RU	4.81	Maracaibo	"Radio Maracaibo,"	Luis Mantellini (1RD)
YV3RN	4.82	Baraquisimeto.	"R. Baraquisimeto,"	Amilcar Segura (3RD)
YV5RH	4.83	Caracas	"Ondas Populares,"	G. V. Mancera (5RH)
YV4RX	4.84	Maracay	"La Voz de Agucia,"	H.Y.O. Croquer (4RD)
YV1RZ	4.85	Valera	"Radio Valera,"	J.L.Febres Jelambi (1RG)
YV1RL	4.86	Maracaibo	"Radio Populares,"	J. A. Higuera (1RL)
YV2RN	4.87	San Cristobal.	"Voz del Tachira,"	J.M.Diaz Gonzales (2RA)
YV6RU	4.88	Bolivar	"Ecos del Orinoco,"	E. Torres Valen. (6RB)
YV1RX	4.89	Maracaibo	"Ondas del Lago,"	Romulo Govea (1RH)
YV6RT	4.90	Bolivar	"Ra. Bolivar,"	Miranda & Behrens (6RC)
YV1RY	4.91	Coro	"Radio Coro,"	Roger Leyba (1RI)
YV5RU	4.92	Caracas	"Estudios Universo,"	M. Gar. Arocho (5RR)
YV4RP	4.93	Valencia	"Radio Valencia,"	H. Y. O. Croquer (New)
YV5RO	4.94	Caracas	"La Voz de Velezuela,"	Dr.M.DeGoya (??)
YV4RO	4.95	Valencia	"La Voz de Carabobo,"	H. Degwitz (4RB)
YV5RS	4.96	Caracas	"La Voz de Philco,"	Victor M. Soto (5RP)
YV1RJ	4.97	Coro	"Radio Falcon,"	J. A. Mendoza (???)
YV3RX	4.99	Baraquisimeto.	"La Voz de Lara,"	A. Ramos Maggi (3RB)
YV5RK	5.00	Caracas	No Slogan,	Government (New)
YV5RM	5.01	Caracas	"Radio Venezuela,"	Degitz & Sibez (5RM)
YV4RQ	5.02	Puerto Cabello.	"Radio Puerto Cabbello,"	R.A.Segura (4RQ)
YV5RN	5.04	Caracas.	"Radio Caracas,"	Almacen Americao (5RC)

Signs in brackets indicate old call-sign or new station. Reports follow: 1RV, 1RU, 3RN, 4RX, 1RX, 5RU and 5RS heard between 8:00 and 9:30 P. M. (Oskay, N. J.) YV5RN heard on 5.04 mc. (Gallagher, Oskay and Olth off). YV5RM heard on 5.03 mc., not 5.01, with harmonic heard on 10.06 too, (Edwards, Pa.) We also thank members Callan and Hodge.

Uruguay. CXA2, Montevideo, heard on 9.75 mc., a new frequency, in place of 6.00 mc. at 9:00 P.M. (Oskay, N. J.)

Brazil. PSE, Rio de Janeiro, a phone station, heard broadcasting on 14.935 mc. at 6:00 to 6:30 P.M. (Oskay, N. J.; Edwards, Pa.; Olthoff, Kan.) Often 4:00 to 5:00 P.M. (Gallagher, Calif.) Every Wednesday at 4:00 P.M. in German, every Thursday 3:00 to 3:30 P.M. in Italian, every Saturday 3:00 to 3:30 P.M. in French, (Novotny, Czech). Heard Thursdays at 4:00 P.M., also Sundays in Portuguese, and also at 6:00 P.M. at times, (Bird, Delaware).

Suriname. PZH, Gouvernements Radio Dienst, Paramaribo, Suriname, Dutch Guiana, veri says 6.79 mc. or 44.18 meters, 25 watts power, Sundays 8:40 to 10:40 A.M., Tuesdays and Fridays 5:40 to 8:40 P.M., Thursdays 6:40 to 8:40 P.M., Fridays 3:40 to 4:40 P.M.

Argentina. LRA5, Buenos Aires, heard on 17.82 mc. broadcasting 3:00 to 4:00 P.M. (Gallagher, Calif.). On 17.83 mc. broadcasting for European listeners at 2:00 P.M. and North American listeners at 4:00 P.M. This is another sister station to LRA on 9.69 mc. (Schrieffer, La.)

Peru. Radio Internacional, owners of OAX4J and OAX4I will be testing soon on 6.22 mc., 6.44 mc., 6.53 mc. and 6.58 mc. and want reports to determine which to use permanently. Address Casilla 1166, Lima, Peru. Mention the I.S.W.C. please. OAX1A, Chiclayo, veri says 6.15 mc. 7:30 to 11:30 P.M. (Davison, Calif.) Has been on 6.34 for months—Editor. OAX2A, "Radio Rancho Grande, Trujillo, on 5.94 mc. announces 6.00 mc., heard Tuesdays, Thursdays, Saturdays and maybe Sundays 7:00 to 10:00 P.M. (Oxrieder and Hodge.)

Colombia. All Colombian stations will be between 4.70 and 5.00 mc. by July first (Mrs. Dorothy Hall, New York). HJ6ABB, Manizales, on 6.11 mc. is heard 6:00 to 9:00 P.M. daily now, with the exception of Sundays, but will not verify, (Villalobos, La.) HJ3CAF, Bogota, on 4.855 mc. has a harmonic on 9.71 mc., and when they announce HKF, many report it as a new station. HKF is their old call which they still use at times. HJ1ABP, Cartagena, on 9.62 mc., heard till midnight, not just 10:30 P.M. (Nichols, Pa.) HJ7ABD, once on 9.63 mc. is out of business and off the air for good, (Villalobos) A station HJ4DAG, "La Voz de Choco," is on 6.065 mc. nightly, (Gallagher, Calif.) Some Colombian is on 6.08 mc. evenings, (Bird, Del.) Colombians heard and not listed on 6.085 mc., 4.905 mc. and 4.765 mc. (Oskay, N. J.)

Ecuador. A letter from Frank H. Jones, Director of Station HCJB, Quito, says that they are actually on 12.46 mc. and this is not a harmonic and they broadcast 7:00 to 8:00 A.M. and 7:00 to 10:30 P.M. daily except Mondays. They are not on 6.23 mc. but do use a frequency near 73 meters for local broadcasts at times. They have an English program at 10:00 P.M. HCJB also asked listeners to tell us of this, and we received letters from members Service, Oxrieder, Oskay, Johnson and North. HCK, Quito, on 5.885 mc. is broadcasting again around 7:00 to 10:30 P.M. (Oxrieder and Bird). HC1CQ veri says 9.163 mc. with 150 watts 8:30 to 10:30 P.M. which equals 9:00 to 11:00 P.M. E.S.T. (Johnson, N. Y.) Heard on 9.18 mc. and signed off at 9:55 P.M. (Olthoff, Kas.) Is 8:30 to 10:30 (Bird, Del.) An HC2AB heard on 9.185 at 9:00 P.M., not HC1CQ. (Oskay, N. J.)

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HENRY RADIO SHOP

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(W9ARA)

BUTLER, MISSOURI

CENTRAL AMERICA

TIPG, San Jose, Costa Rica, owned by Perry Girtton, is now on 9.69 or 9.70 mc. broadcasting around 5:00 to 11:30 P.M. and also reported at 8:00 A.M. and around noon. This is not TI4NRH on a nearby frequency. There is a slight difference in their frequencies. TI4NRH still broadcasts on 9.69 mc. Tuesdays, Thursdays and Saturdays 9:00 to 10:00 or 10:30 P.M. and Sundays 7:00 to 8:00 A.M. TIPG is reported as TIGPH, TIPGW and TIPG4 by different readers. It is also reported from 9.67 to 9.72 mc. Heard evenings. (Oskay, N. J.; Schrieffer, La.; Trisdorfer, N.Y.; Edwards, Pa.; Nichols, Pa.; Adler, N.Y.; Olthoff, Kan.; Gallagher, Calif. and Bird, India) We can't understand two stations being so near together using the same frequency. But they are.

Mexico. A station XEQ or XEQQ, Mexico City, is reported on 6.08 mc. nightly. (Bird, Del.; and Schrieffer, La.) XEFO, location unknown, heard on 6.09 mc. at 8:30 P.M. (Seymour, Md.) Maybe it was XEWW on 6.12 mc. relaying XEFO—Editor. An XEF?, Vera Cruz, on 6.12 mc. heard until 2:45 A.M. (Shaffar, Iowa.)

Honduras. A station HRK, probably in Tegucigalpa, heard on 5.80 mc. around 9:00 P.M. (Oxrieder, C. Z.) Heard at 2:00 P.M. and as late as 11:00 P.M. (Oskay, N. J.) HRP1, San Pedro Sula on 6.36 mc. broadcasts

now 6:00 to 7:30 A.M., 2:00 to 4:00 P.M. and till 10:00 P.M., not just 9:00, (Oskay, N. J.)

British Honduras. ZIK2, on 10.60 mc. will be replaced by ZIK3 on 5.30 mc. for regular Tuesday, Thursday and Saturday broadcasts, 8:30 to 8:50 P.M. QRA: P. O. Box 48, Belize, British Honduras, (Callan, Mass.)

Nicaragua. YN3DG, Leon, will be on 13.90 mc. May 6th and 13th at 10:00 P.M. with special programs in Spatari Radio Language. They will also open up soon on 6.95 mc. QRA: Dennis E. Gallo, Leon, Nicaragua (National Radio Club). Has been on 7.12 mc. for some time, but is an amateur and will not verify—Editor.

El Salvador. We asked if anyone was hearing YSP on 10.40 mc. It was heard between 7:00 and 10:30 P.M. some time back. Members Dean and Callan say it is still on the air, but weak.

Guatemala. TGX1, Guatemala City, heard on 6.123 mc., 1:00 to 2:00 A. M. Sundays and also several evenings around 8:00 to 9:00 P.M. (Hodge, Calif.) A letter direct says TGWB on 6.49 mc. broadcasts week-days 7:45 to 9:00 A.M., 12:45 to 3:45 P.M., and 7:00 P.M. to 12:15 A.M., Sundays 10:30 A.M. to 5:15 P.M. and 7:00 P.M. to midnight. TGWA on 15.17 mc. broadcasts week-days 12:45 to 1:45 P.M., Sundays 12:45 to 5:15 P.M. TGWA on 9.685 mc. broadcasts 10:00 P.M. to 11:30 P.M. week-days and 7:00 P.M. to midnight Sundays. TGWC on 2.32 mc. heard and TGWB will soon have 1200 watts power and try out new frequencies (Schrieffer, La.) TGX1, heard on 6.13 mc. at 2:00 A.M. (Kindell, N. Z.)

WEST INDIES

Puerto Rico. The station announcing as WCU, San Juan, heard on 9.94 mc. relaying WMAQ in March must have been a telephone station, for it was not reported in April. It was heard between 10:45 and 11:15 P.M. by member Gallagher and between 7:30 and 8:00 A.M. by member Dement in March.

Antigua. Amateur station VP2AE on 7.12 mc. at St. Johns is now sending music evenings.

Haiti. HH2S, Port-Au-Prince, moved to 6.06 mc. then 5.95 mc. in place of 5.92 last month. (Oskay, N. J.) Was on 5.90. (Gallagher, Calif.) HH3W, same city, reported on 9.79 (Edwards), 9.76 (Castleman) and 9.75 (Schrieffer).

Cuba. COCM (9.86 mc.), COBC (10.01 mc.), COCX (11.74 mc.) and COCQ (8.83 mc.) are all guilty of moving around on the dials from day to day. We can only list them where we expect you to hear them most of the time. COCQ for example is reported on 9.00 mc., 8.93 mc., and 8.82 mc. all this month by member Oskay.

Dominican Republic. HIZ on 6.31 mc. has changed call to HI1Z now. Was heard till 10:22 P.M., not just 10:00 P.M. (Olthoff, Kan.) HI1J, San Pedro, Sula, on 5.89 now in place of 5.86 mc. and HI3X, Trujillo, heard on 17.40 mc. at 9:30 P.M. off schedule. (Oskay, N. J.)

St. Kitts. ZIZ, on 6.38 mc. is heard Wednesdays at 7:00 P.M. starting up, (Oskay, N. J.) They sometimes test around 4:00 P.M. also.—Editor.

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Martinique. Radio Martinique, Fort De France on 9.70 mc. may start up any time after 5:30 P.M. and close down from 6:30 P.M. to midnight now. Now has 1500 watts power instead of 200, (Callan, Mass.)

NORTH AMERICA

Stations W2XAD, W2XAF, W2XE, W3XAU, W4XB and W6XBE all have changed schedule. Their new schedules are in our station list. Additional reports follow: W2XE, New York, on 17.83 mc. new frequency, at 6:00 A.M. (Oskay, N. J.) W4XB, Miami, Florida, on 6.04 mc. heard till 2:00 A.M., a new schedule. (Callan, Mass.) W6XBE, San Francisco, California, is now on 9.53 mc. 7:00 to 10:00 A.M. and on 15.33 mc., 6:30 to 10:00 P.M. Address is General Electric, 235 Montgomery Street, San Francisco, Calif. Heard on 9.53. (Field, Calif. and Todd, Wash.)

W6USA, Treasure Island amateur station, is on 14 mc. band and heard at 10:20 P.M. (Nichols, Pa.)

Canada. CJRO on 6.15 mc. and CJRX on 11.72 mc., both at Winnipeg, Manitoba, broadcast Saturday nights 10:00 P.M. to Sunday mornings 3:00 A.M. only. A harmonic of VONF, a long wave station, is heard on 5.73 mc. (Oskay).

HARMONICS

At times certain stations are heard on harmonics that act just like regular broadcast stations. These harmonics fall on 2, 3, 4, etc., times their frequency. A station on 5.00 mc. will have harmonics on 10.00 mc., 15.00 mc., etc. Here are some, with regular frequency and harmonic, being heard: HJ3ABD (4.84) 9.68 mc.; HJ3ABX ((5.99) 11.98 mc.; TIGP (6.41) 12.82 mc.; HIN (6.24) 12.28 mc.; WX1AL (6.04) 12.08 mc.; COCW (6.32) 12.64 mc.; COCO (6.01) 12.02 mc. HJ3CAF, sometimes called HKF (4.85) 9.71; COCM (9.86) 19.72 mc.; W1XK (9.57) 19.14 mc.

EXPERIMENTAL AND PHONES

W2XAA address is Bell Telephone Labs., 463 West Street, New York City, and they verify, (Edwards, Pa.) Heard again on 8.655 mc. at 5:00 P.M. (Callan, Mass.) LSM2, Buenos Aires, on 14.50 mc. heard sending

program to U. S. A., 9:00 to 9:15 P.M. one Tuesday, (Waite, N. Y.) VOFB, St. Johns, Newfoundland, on 12.31 mc. heard talking to Montreal, 7:00 to 7:35 P.M. (Gilmour, Ont.) Many stations at Rocky Point, New York, and Bolinas, California, are reported sending special program material to foreign lands.

WITH THE REPORTERS

Here is our April list of reporters, and a nice list it is. Some of the world's greatest DXers are listed here. We thank each and every person for their help.

W. P. Behling, Maracaibo, Venezuela; C. R. Bird, Bombay, India; Will Arvin, Ryswyk, Holland; R. N. Shaw, Wauchope, Australia; Arthur Kindell, Wellington, New Zealand; Rune Skog, Degerfors, Sweden; W. Houseman, Northwick, Ches, England; S. Boothroyd, Uppermill, North Oldham, England; L. B. Reeves, Honolulu, Hawaii; W. J. (Jake) Field, San Diego, Calif.; Bob Swada, Isleton, Calif., C. H. Hodge, Long Beach, Calif.; Russell Leader, San Francisco, Calif.; G. C. Gallagher, San Francisco, Calif.; Robert F. Todd, Seattle, Washington.

John J. Oskay, New Brunswick, N. J.; Roger Legge, Jr., Binghamton, N. Y.; George Trisdorfer, Brooklyn, N. Y.; Gus Adler, Little Neck, N. Y.; Desmond Callan, Readville, Mass.; Hilding B. Westerberg, Roxbury, Mass.; F. E. Woodward, Malden, Mass.; Fred Atherton, Rutland, Vermont; Joseph Stempel, Bridgeport, Conn.; W. A. Dean, Hartford, Conn.; Henry Seamans, Somersworth, New Hampshire.

Ford Edwards, Wilmerding, Pa.; Thomas Nichols, Philadelphia, Pa.; Ray Shaffar, Waterloo, Iowa; James B. Wooten, Mobile, Ala.; Neville C. Seymour, Baltimore, Md.; Martin J. Olthoff, Independence, Kansas; Carl & Anne Eder, Willmar, Minn.; Howard Schrieffer, New Orleans, La.

LATE REPORTS

The following reports arrived too late to make the regular departments: Gus Gallagher, San Francisco, reports a letter from China, saying XRVG is off the air and XGOX, Chungking, is on 17.80 mc. now. He heard it between 9:30 and 10:30 P.M. so it is there. He also says the May schedule for Japanese stations show JLU3 on 15.135 mc. or 19.83 meters, 8:00 to 9:30 A.M. And, a leaf from the LRA booklet says that LRX on 9.66 mc. LRA1 on 9.69 mc., LRA3 on 11.73., LSN6 on 21.02 mc. and LSN4 on 21.28 mc. sent a special program. LSN6 and LSN4 are phone stations. LRA3, however, is a new station never reported to us.

Member Bird, of Delaware, reports TIFG on 9.71 mc. now. EAQ, Madrid, on 9.86 mc. back in operation. HCK, Quito, Ecuador, moved from 5.88 to 5.35 mc. YV5RN, Caracas, on 5.04 mc. til 10:30 P.M. HH2S?, Port-Au-Prince, Haiti, on 5.94 mc., not 5.92 mc., and XEUZ, Mexico City, on 6.11 mc., not 6.12 mc., before 11:00 P.M., when schedule shows starting at 11:00 P.M. Member Westerberg, of Mass., reports a veri from RV96 on 9.52 mc. TIFG on 9.69 mc., VUD4 on 15.29 mc. at 9:00 A.M., off schedule and says SBP, Sweden, is on the air only Wednesdays and Saturdays 8:00 to 9:00 P.M. and it is Paris that is mistaken for SBP. Member Callan, of Mass., reports a veri saying PSH, Rio de Janeiro, Brazil, on 10.22 mc.

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broadcasts week-days 6:00 to 7:00 P.M., Fridays 7:00 to 7:30 P.M. and Mondays 8:00 to 8:30 P.M. and PSE on 14.935 mc. the first Thursday of the month, 11:18 to noon, as well as the schedule we show.

VOL. X

JUNE, 1939

NO. 9

INTERNATIONAL



This edition mailed June 1, 1939
One Dollar per Year.

THE VOICE OF THE
INTERNATIONAL SHORT WAVE CLUB

EAST LIVERPOOL, OHIO, U. S. A.

SHORT WAVE NEWS

What many people call "skill" in tuning for short wave stations is nothing more or less than knowing **WHEN** and **WHERE** to tune for stations. Nearly all short wave stations are experimental and change their wave lengths or schedules almost without notice. To know when these changes take place is as important to successful reception as having a good receiver.

The time is given in Eastern Standard. Add five hours for Greenwich Mean Time.

NEW STATIONS

Bahamas. A letter says ZNS, Nassau, has 200 watts power, operates on 6.09 mc. or 49.2 meters and broadcasts 1:30 to 2:00 P. M. and 8:00 to 9:00 P. M. Identification signals are as follows: Opening signal—Saint Margarets Chimes, London; sign-off "God Save the King." Relay of Westminster Chimes and Big Ben at 8:00 and 9:00 P. M. QRA: K. P. Brown, Secretary of Broadcasting, P. O. Box 48, Nassau, Bahamas, (Lundberg, Minn.) Heard 7:35 P.M. (Oskay, N.J.) Heard 9:30 P.M. (Legge, N.Y.) Heard at 9:40 P.M. (Adler, N.Y.) Heard at 8:15 P.M. (Stark, Mo.)

Roumania. A new 50 kw. transmitter is going up at Baneasa, near Bucharest. Heard on 15.08 mc. one Saturday 5:30 to 7:00 P.M. (Janson, Germany). Heard on 15.38 mc. nightly since April 26th, 9:00 to 10:15 P.M. Uses NO English, comes on with National Anthem sung by chorus of voices, (Westerberg, Mass.)

Switzerland. The long awaited and once reported 25,000 watt transmitter at Schwarzenburg, will be on the air testing this month. It will operate on 6.056 mc. 9.537 mc., 11.867 mc., 15.306 mc., 17.784 mc. and 21.520 mc., using only one frequency at a time. QRA: Swiss Broadcasting Company, 30 Neuengasse, Schwarzenburg. Heard on 9.54 mc. week-days 1:00 to 2:00 P.M. (Iball, England).

Hungary. HAAQ2, Budapest, is heard on 7.221 mc. or 49.59 meters testing between 9:30 P.M. and 11:00 P.M. This is a small 200 watts transmitter that will one of these days be replaced by a large 10,000 watt transmitter. The schedule will be 21.68 mc., 9:00 A.M. to 1:30 P.M., 11.85 mc. 1:30 to 4:30 P.M., 9.62 mc. 4:30 to 9:00 P.M. and 7.22 mc. 9:00 P.M. to midnight during these test periods. Announcements are made in Spanish and English. Requests for reports are made about every ten minutes. QRA: Radio Labor, Gyuli ut 22, Budapest IX, Hungary. Heard on 7.22, 8:30 to 11:00 P.M. (Iball, England, Legge, N.Y. and Castleman, Tenn.)

Phoenix Islands. KP6DHW, Canton Island, is on 8.10 mc. with weather reports and 14.38 mc. as an amateur station. Verified, (Legge, N.Y.)

Newfoundland. VONF, St. Johns, heard on 5.71 mc. or 52.50 meters between 6:15 and 7:00 P.M. broadcasting, (Iball, England). Heard on 9.64 mc. at 12:15 noon with news, (Seamans, New Hampshire).

New Zealand. A transmitter using the call ZL1ZA operated on 8.82 mc. and 7.14 mc. is on the air daily 7:00 A. M. to 1:00 P.M. (New Zealand Radio Club).

Senegal. Rumors prevail that shortly a new 10 kw. short wave broadcast station will commence operations at Dakar. It will be under the supervision of the Minister des Postes et Telegraphos.

Yugoslavia. Using the call-sign YU6A, a station on 13.56 mc. is heard on the 14th and last days of the month broadcasting from 7:00 P.M. to 8:15 P. M., relaying, along with DJL, Germany, on 15.11 mc., the regular programs of YUA for overseas listeners. (Westerberg, Mass.) European newspapers carry the story that YUA, Belgrade, will soon be assisted by a new 10,000 watt transmitter which will operate on the 19, 25, 31 and 41 meter bands. The transmitter is being constructed by German radio interests and will be heard shortly. Officials have rented German short wave stations to relay programs to overseas listeners twice monthly, but have decided to build their own transmitter.

Finland. To relay the Olympic games, Finland has started construction of a powerful 50,000 watt transmitter on the site of the stadium where the summer Olympics will be staged. It will be one of the largest and most powerful transmitters in the world when completed.

Iran. Two transmitters of 2,000 and 20,000 watts power are under construction. One is for European reception, the other for world-wide reception.

Bulgaria. A station believed to be at Sistova, Bulgaria, is heard on 9.42 mc. or 32.50 meters, broadcasting Sundays at 7:30 A.M. and also heard one Monday 1:20 to 1:38 P.M. (Iball, England).

Ecuador. A station, HC2AB, heard on 9.185 mc. at 9:00 P.M., positively not HC1GQ, (Oskay, N.Y.) HC1GQ heard on this frequency now 9:55 to 10:00 P.M. most evenings, (Olthoff, Kan.) Two stations are heard between HC1GQ on 9.185 mc. and COBX on 9:20 mc., one must be HC2AB, (Gallagher, Calif.) HC2AB on 9.185 till 9:30 or 10:00 P.M. (Bird, Del.)

Java. The NIROM have added station YDD, Bandoeng, on 6.06 mc. to their chain of stations. Used daily between 5:00 and 9:00 or 10:00 A. M.

Tangiers. A new 10,000 watt transmitter is under construction according to word received from an amateur there, (McDermott, N. Y.)

Chile. The station CB- 1510 at Valpariso on 15.10 mc., is reported testing around 7:30 A.M.

Angola, Africa. CR6RC, Loanda, is on 11.74 mc. 2:00 to 3:30 A.M. Tuesdays, Thursdays and Saturdays. Heard Saturdays, (Legge, N. Y.)

Belgian Congo, Africa. A letter from the station says "Radio Leo" on 6.14 mc. broadcasts Sundays and Holidays only from 6:30 to 8:30 A.M. Was 25 watts, now 250 watts power. QRA: College Saint Albert, Leopoldville, Belgian Congo, (Rubio, Cuba). Heard 5:30 to 7:00 A.M. and around 10:00 A.M. Sundays in February, (Janson, Germany).

Portuguese East Africa. CR7BE, Lourenco Marques, heard on 15.24 mc. 9:30 to 11:00 A.M. almost daily, (Bird, Indja). Announced 15.24 mc. but heard nearer 15.33 mc. (Preiss, Africa).

Mexico. A station announcing at XEQQ or XEWQ and relaying XEQ Mexico City, was reported on 6.08 mc. last month. Members Oskay and Bird reported it between 7:00 and 11:00 P.M. Members Hodge now reports it on 6.98 mc. at 9:00 P.M. Is this a harmonic of some long wave station?

OCEANIA

Tahiti. FO8AA, Papeete, is heard Saturdays only, starting up at midnight now. Was used Tuesdays and Fridays 11:00 P.M. to 12:30 A.M. (Hodge, Calif.).

AFRICA

Algiers. TPZ, a phone station on 12.12 mc. relays programs, 2:00 to 2:30 P.M., irregularly.

Angola. Veri from CR6AA, Lobito, says 7.614 mc. and 7.177 mc. irregularly 2:45 to 4:30 P.M. Frequency 9.666 is marked over and the word irregular is written over schedule, (Clark, N. Y.)

ASIA

Albania. Veri says ZAA is on 7.85 mc. daily 6:30 to 7:30 A.M. and 6.085 mc. daily noon to 1:00 P.M. (Stemple, Conn.) Heard on 15.10 mc. at 3:00 P. M. Sundays only now, (Janson, Germany).

China. China is now using XPSA on 7.00 mc., XGOY on 11.90 mc., XGOX on 17.80 mc., the most commonly heard are XPSA around 4:30 to 10:00 A.M. and XGOX 9:00 to 10:30 P.M. Member Oskay reports a strange Chinese station on 11.72 mc. at 6:00 A.M. once, and member Hodge reports one on 7.173 mc., 7:00 to 8:30 A. M.

Japan. JFAK, Taihoko, Taiwan, moved from 9.63 mc. to 9.68 mc. (Olthoff, Kan.)

Saigon, Indo-China. Heard on 6.115 at 8:00 A.M. daily, (Hodge, Calif.) At 7:00 A.M. (Olthoff, Kan.) Heard on 9.70 again as late as 9:30 A.M. (Hodge).

Turkey. Member Seymour says TAQ, Ankara, on 15.195 mc. broadcasts 5:30 to 7:00 P.M., not A.M., according to his veri.

EUROPE

England. GRY on 9.60 mc. is a new addition. Used 2:30 to 5:00 P.M. according to reports, (Oskay, Callan and Janson). GRX on 9.69 mc. another new one used now daily 12:30 P.M. to 6:00 P.M. and GSA on 6:05 mc. is back on the air at the same time.

Poland. SP19, on 15.12 mc. and SP25 on 11.74 mc. are used again along with SPD and SPW from 6:00 to 9:00 P.M. (Callan and Westerberg, Mass.)

France. TBP12 on 11.88 mc. used till 11:00 P.M. now, not just 8:15 P. M. (Westerberg, Mass.) Some station on 11.845 mc around 10:00 P.M. (Legge, N. Y.)

Portugal. Some station on 8.85 mc. is relaying CSW7 (9.74 mc.) 7:30 to 9:00 P.M. nightly (Westerberg, Mass.) CSW7 on 9.74 signs off at 8:00 P.M., not 9:00 P.M. (Edwards, Wooten).

Bohemia. OLR4A on 11.84 mc. is broadcasting 7:55 P.M. to 9:30 or 10:30 P.M. as before, (Callan, Mass.; Havlena, D. C.; Adler, N. Y.; Wyand, N. Y.; Castleman, Tenn.)

Germany. Some station saying "Radio Emisora Valpariso," is on 14.43 mc. It is located in Germany. Heard 5:05 P.M. also 7:30 to 7:55 P.M. (Callan, Mass.) Germany is using some station on 7.14 mc. or 42.00 meters

around 3:15 .M. Newspapers also show this station on 4.202 meters, 33.00 meters and 28.00 meters between 9:00 and 11:00 P.M. It is an Anti-Nazi transmitter operated illegally, (Iball, England). DJC on 6.02 mc. and DJX on 9.675 mc. sends Arabic news at 11:45 A.M. and is not shown in our list, (Janson, Germany). DZH on 14.43 and DJL on 15.11 relay YUA on the 14th and last days of the month, 7:00 to 8:15 P. M.

Azores. CT2AJ, Ponta Delgada, broadcasts on 4.00 mc. Wednesdays and Saturdays, 5:00 to 7:00 P.M. (Waite, N. Y.; Legge, N. Y.)

U. S. S. R. The latest schedule of Moscow stations, as supplied us by those in charge, is shown in our last issue, with two exceptions. An RIA on 11.71 mc. or 25.62 meters is shown on the air daily at 3:30 P.M. in Czech, and an RZZ on 14.96 mc. is used Thursdays at 6:00 P.M. The list also shows RAL instead of RAN on 9.60 mc., which may be a nerror in typing, or a change in call-signs. The evening program from 6:00 P.M. to 9:15 P.M. comes over RAN on 9.60 mc., RKI on 15.04 mc., RV96 on 15.18 mc. Note that RKI is given now at 15.04, not 15.08 mc. (Stark, Tresidder, Walter, Bird).

Spain. EAQ on 9.86 mc., Madrid, is broadcasting again in the evenings (Callan, Oskay and Walter).

Holland. PCJ on 9.59 mc., has an irregular schedule. Some nights they are on till 8:30 P.M. only, others till 10:30 or 10:45 P.M.

Sweden. SBP, Motala, on 11.72 mc. is not on the air every night 8:00 to 9:00 P.M. as published last month. Paris on 11.72 mc. is mistaken for it, (Westerberg, Mass.)

Norway. LLG, Oslo, on 9.61 mc. used only 3:00 to 6:00 P.M. now, (Legge, N. Y.)

Denmark. OZG, Skamlebaek, is on the air daily 2:00 to 6:30 P.M. on 11.805 mc.

Ireland. Veri from the Engineer-in-chief, Department of Posts and Telegraphs, The Castle, Dublin, Ireland, says they will be on 17.84 mc. daily 8:30 to 10:00 A.M. and on either 17.84 mc. or 9.595 mc., 12:30 to 4:30 P.M. (Field and Legge). Heard till 5:00 P.M., not 4:40 P.M. (Nichols, Penna.)

SOUTH AMERICA

Venezuela. A harmonic of YV5RN on 5.04 mc. falls on 10.08 mc. and is heard evenings, (Oskay, Gallagher and Walter). YV4RO on 4.95 mc. heard till 10:30, not just 10:00 P.M. (Gallagher). YV4RQ verifies with blue and white card showing no schedule, but giving frequency at 5:02 mc., Amilcar y Rafael Angel Secura & Cia, owners. Slogan, "Radio Puerto Caballo" and address as Urbanizacion Valle Seco, Puerto Cabello, (Gallagher). We have such a card addressed to Laurence Copedd, but do not know the party. Owner may have same. YV4RP, Valencia, heard on 5.91 mc., instead of 4.93. Signed off at 9:30, not 10:30 P.M. (Bird, Del.) All but a few stations are reported on their new frequencies mentioned last month. Not yet reported are IRT on 4.77, IRO or 4.78, 5RY on 4.79, 4RX on 4.84, IRZ on 4.85, 6RT on 4.90, IRY on 4.01, 4RP on 4.93, 5RO on 4.94, 3RX on 4.99 and 5RK on 5.00. YV6RU, Bolivar, heard on 5.90 mc., not 4.88, (Oxrieder, C. Z.)

Colombia. HJ1ABP, Cartagena, moved from 9.62 mc. to 4.92 mc. (Oxrieder, C. Z. and Oskay, N. J.) HJ1ABB, Barranquilla, on 4.755 mc., not 4.78 mc. now, (Olthoff, Kan.)

Chile. CB1180, Santiago, moved from 12.00 to 11.97 mc. (Bird, Del.) CB960, Santiago, on 9.60 mc. heard till 1:00 A.M. off schedule, (Gallagher, Calif.)

Argentina. LSM3, Buenos Aires, on 19.10 mc., a phone, heard with musical program around midnight, (Gallagher). Booklet shows LRA1 on 9.69 mc., LRA3 on 11.73 mc. (Gallagher).

Paraguay. ZP14, veri says 11.721 mc. or 25.595 meters, no schedule. QRA: ZP14, Radio Cultura, Friedman, Estacion Villarrica, Paraguay, (Waite, N. Y.) Was heard on 11.74, not 11.72, between 2:00 and 6:00 P. M. (Editor).

Ecuador. HCJB, Quito, on 12.46 mc. is testing for Austrial-Asian listeners around 6:00 A.M. daily except Mondays (Wooten, Ala.) HC2ET, Guayaquil "Radio El Telegrapho," is on 9.19 mc. announcing 9.20 mc. Signs off between 9:15 and 9:30 P.M. Was on 4.60 mc. before, (Legge, N. Y.; Oxrieder, C. Z.)

CENTRAL AMERICA

Nicaragua. YN3DG, Leon, has been assigned the frequency of 7.66 mc. and will soon operate here. Was on 13.90 mc. with special program for Spatari Radio Language Foundation in May. Will verify for dime as IRC's are no good in Nicaragua. QRA: Dennis E. Gallo, Leon, Nicaragua. (Prof. Spatari, Astoria, N. Y.)

Costa Rica. TIPG, San Jose, is moving around some now. Was on 9.70 mc. Heard on 9.612, (Oskay). On 9.62 (Gallagher). On 9.57 on top of W1XK for awhile, (Adler, N. Y.) On 9.61, (Bird, Del.)

Honduras. HRN, Tegucigalpa, has been taken off the air. Was on 5.87 mc.

Guatemala. TGWA on 15.17 mc. has been broadcasting evenings this past month. This is the first time. Heard from 6:00 P.M. till 11:30 P.M. by different readers, (Wooten, Ala.; Walter, Ohio; Nichols, Pa.) Stations used now are TGWC on 2.32 mc., TGWB on 6.49 mc., TGWA on 9.685 mc. and TGWA on 15.17 mc. Will verify without postage, they say. TGX1, Guatemala City, heard on 6.132 mc. at 5:35 A.M. (Oskay, N. J.)

Mexico. XEUZ, Mexico City, on 6.12 mc. heard at 10:00 P. M., list shows starting up at 11:00 P. M. (Bird, Del.)

WEST INDIES

Cuba. COCM on 9.81 mc., not 9.88 now. COCQ on 8.85, not 8.83. COCD on 6.135, heard at 5:35 A.M., list shows starting up at 8:00 A.M. Harmonics of COCQ on 17.70 mc. and COJK on 17.37 mc. now, (Oskay, N. J.) COCQ harmonic heard on 17.50, (Nichols, Pa.) COCM on 9.82, (Olthoff, Kan.) COCO moved from 6.01 to 8.70 mc. (Gallagher, Calif.)

Guadeloupe. FG8AA, Point-au-Pitre, sending veries now, Says 110 watts, 40.29 meters or 7.44 mc. (Waite, Edwards, Reed, Callan and Legge).

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Sky Champion and NC44.....	49.50	9.90	3.49

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BUTLER, MISSOURI

Haiti. HH2S relays programs from Jamaica Wednesdays 8:30 to 10:30 P.M. Station announces 6.07 mc., but heard anywhere from 5.90 to 5.98 mc., usually around 5.92. Offer ten sweepstakes tickets for best report each Wednesday, (Adler, N. Y.) Heard between 5.90 and 5.98 last month, (Oskay, Gallagher).

Dominican Republic. Letter says HI5N (6.15 mc.), HI8A (6.48 mc.) and HI5P (6.56 mc.) are off the air now, (Gallagher, Calif.) HI3X, Trujillo, on 15.27 mc. heard evenings between 5:00 P.M. and 8:30 P.M. now, (Westerberg and Stark). Some station, believed to be Dominican, is on 5.88 mc. around 9:00 to 10:00 P.M.

NORTH AMERICA

W1XK, Boston, on 9.57 mc. comes on at 8:00 A. M., not 6:00 A. M. now, (Edwards, Pa.) W2XE, New York, is on 6.17 mc. daily 11:00 P.M. to midnight, on 11.83 mc. daily 8:00 P.M. to 10:30 P.M., on 15.27 mc. daily 5:30 P.M. to 7:30 P.M. and on 17.83 mc. Mondays through Fridays 6:30 A.M. to 9:00 A.M. and noon to 5:00 P.M. and Saturdays and Sundays 7:00 to 11:00 A.M. and 11:30 to 5:00 P.M. W3XL is on 6.10 mc., 8:00 P.M. to 1:00 A. M., on 9.67 mc., 5:00 P.M. to 1:00 A.M., on 17.78 mc., 9:00 A.M. to 8:00 P.M. and on 21.63 mc., 9:00 A.M. to 4:00 P.M. (Field, England).

W3XAU, Philadelphia, is on 6.06 mc., 5:30 to 11:00 P.M. Tuesdays, Wednesdays and Fridays, 6:30 to 11:00 P.M. Sundays, 11:00 P.M. to 1:00

A.M. Sundays, on 9.59 mc. 5:30 P.M. to midnight Mondays and Thursdays, 5:30 to 11:30 P.M. Saturdays and on 15.27 mc. 10:45 A.M. to 5:15 P.M. week-days and noon to 5:00 P.M. Sundays. W8XAL, Cincinnati, on 6.06 M., Mondays and Thursdays, 5:45 A.M. to 2:00 P.M., Saturdays 5:45 A.M. mc. broadcasts Sundays 8:00 A.M. to 6:30 P.M. and 11:00 P.M. to 2:00 A. to 11:00 P.M., Tuesdays, Wednesdays and Fridays 5:45 A. M. to 5:30 P. M. and 11:00 P.M. to 2:00 A.M. Why not just say "irregular" and be done with it?

THE REPORTERS

Gus Adler, Desmond Callan, L. B. Reeves, Neville Seymour, John Oskay, Roy Waite, Thomas Nichols, C. H. Hodge, Ford Edwards, Lawrence C. Reed, C. W. Havlena, James B. Wooten, Norman Ebling, Ora E. Stark, Hilding Westerberg, Martin Olthoff, G. C. Gallagher, Ala Tresidder, Roger Legge, Paul Walter, John Wayand, J. H. Castleman, R. W. Iball, H. A. Beck, E. W. J. Field, Otto Janson.

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VOL. XI

OCTOBER, 1939

NO. 1

INTERNATIONAL



TENTH ANNIVERSARY YEAR
One Dollar per Year.

THE VOICE OF THE
INTERNATIONAL SHORT WAVE CLUB

EAST LIVERPOOL, OHIO, U. S. A.

SHORT WAVE NEWS

What many people call "skill" in tuning for short wave stations is nothing more or less than knowing **WHEN** and **WHERE** to tune for stations. Nearly all short wave stations are experimental and change their wave lengths or schedules almost without notice. To know when these changes take place is as important to successful reception as having a good receiver.

The time is given in Eastern Standard. Add five hours for Greenwich Mean Time.

NEW STATIONS

Kuanas, Lithuania. Station LY1J tested daily from July 9th to 19th, from 10:00 to 11:00 P. M. on 14.00 and 14.076 mc. and in a letter to us stated that Lithuania has a station LYR on 9.29 mc (32.20 meters) daily, midnight to 1:00 A.M. and noon to 2:00 P. M. The address of LY1J is Petras Vanagaitis, Hipodrome 14b, Kuanas.

Jarvis Islands. A newspaper report gives reception of K6NVJ on 10.56 mc. or 28.40 meters at 3:20 A.M., E.S.T. Located in mid-Pacific (Mallory, Africa).

Andorra. "Radio Andorra" in the Republic of Andorra, between France and Spain is on 8.57 mc. or 35.00 meters and 11.83 mc. or 25.00 meters broadcasting in French, Spanish and a dialect of Catalonean. Was heard on 8.57 at 2:00 P.M. (Boothroyd, England).

Luxembourg. "Radio Luxembourg" was heard on 11.782 mc. or 25.46 meters at 4:00 P.M. using English, French, German and Spanish. Gave address as Grand Duchy of Luxembourg. (Boothroyd, England). Heard in August at 9:15 P.M. once (Adler, N. Y.) Reported testing now on 11.78 mc. 5:00 to 7:00 P.M. On 6.09, 9.527, 11.78 and 15.31 mc. announced.

Wellington, New Zealand. Unless the present war interferes, around January first a new station will go on the air. Wavelengths are call-signs will be ZL-1 on 9.54 mc., ZL-2 on 11.78 mc., ZL-3 on 15.28 mc., ZL-4 on 17.77 mc. (NZRC).

Philippine Islands. Several new stations here. A KZRF or KGRF, location unknown, is on 6.12 mc. between 8:00 and 11:00 A.M. relaying KGAE and a station KZHS is on 9.59 or 9.60 mc. between 6:00 and 10:45 A.M. Gave address as P. O. Box 119, Manila, (Gallagher, Calif.) KZRH is now on 6.10 mc. 5:00 to 8:00 A. M. (Callan, Mass.) KZHS, Manila, heard on 9.58 mc., 8:00 to 9:30 or 10:30 A.M. Promists veries by return mail if sent to Box 119, Manila. (Keast, Australia).

Schwarzenburg, Switzerland. After testing on 15.30 mc., 9.535 mc. and 13.60 mc., the transmitter caught fire on July 6th and was completely destroyed. Heard on 15.30 and 9.535, (Janson, Germany). Heard on 13.60 (Nichols, Pa.)

Wanneroo, Australia. VLW, a new station, will be testing this fall and winter on 6.13 mc., 9.56 mc. and 11.83 mc. Station has 2,000 watts

power (Australian radio magazine). New transmitters at Lyndhurst and Perth are under construction. Lyndhurst to go on 7.25 mc. and 7.28 mc. and Perth on 6.13, 9.56 and 11.83 mc. (Indian Radio Times).

Seven megacycle band. This band, which opened to broadcasting in September will bring many new stations. Our list shows 7.20—YNOD, Managua, Nicaragua; 7.21—New station at Tirana, Albania; 7.22—2RO-11, Rome, Italy; 7.23—GSW, Danventry England; 7.24—DJX, Zeesen, Germany; 7.25—New station in Australia; 7.257—JWV, Tokio, Japan; 7.26—OZU, Skamlebaek, Denmark; 7.27—DXM, New German station; 7.28—New Australian station; 7.285—JLG, Tokio, Japan; 7.29—DJI, new station at Zeesen, Germany; 7.295—YDA, Bandoeng, Java; 7.30—VIG, Port Moresby, Island of Papua.

Guatemala. A station TG5JG, probably an amateur, heard on 11.44 mc. at times. (Gallagher, Calif.)

Hsingking, Manchukuo. MTCY is on 6.125 mc. daily 6:50 to 9:00 A.M. and on 11.775 mc. daily 1:30 to 2:30 A.M. Gave address as Central Broadcasting Station. (Gallagher, Calif.) On 11.775 (Sawada, Calif.) Heard 4:25 to 4:50 P.M., gave address as Manchukuo Telephone and Telegraph Company. (Boothroyd, England).

Belgrade, Yugoslavia. A card from the station operator says Belgrade is now on 15.24 mc. (19.69 meters): 11.74 mc. (25.56); 9.50 mc. (31.56) and 6.10 mc. (49.18) and will be on the air regularly on these frequencies soon. (Fder, Minn.); On 15.25 mc. almost daily 8:00 to 11:00 P.M. (Gallagher, Calif.); On 7:30 to 9:00 P.M. daily, and also heard on 9.505 mc. 3:30 to 5:30 P.M. with English used 4:00 to 4:15 P.M. (Callan, Mass.)

Las Juntas, Costa Rica. Anyone hearing a TI7RVM supposed to be on 6.04 mc? Is supposed to have 500 watts power.

Bucharest, Roumania. YRO, at Baneasa, near Bucharest, has been reported on various frequencies testing. Here are some reports. On 15.37 mc. announcing "Radio Bucharest," comes on with National Anthem sung by chorus of voices and heard almost daily 9:00 to 10:15 P.M. (Westerberg, Mass.) Heard on 15.42 mc., not 15.37, 9:00 to 10:15 P.M. (Stark, Mo. On 15.14, (Oxrieder, C. Z.) On 15.38, (Callan, Mass.) Is Russian station, not Roumanian and on 15.42, (Gallagher, Calif.) Heard on 12.16 mc. between noon and 1:00 P.M. announcing "Radio Polytechnical School of Bucharest."

Costa Rica. TI2RH, San Jose, is on 6.15 mc. relaying TIRH between 6:00 and 11:00 P.M. (Oxrieder, Canal Zone).

Managua, Nicaragua. YN1IP, "Institute Pedagogico," heard on 7.284 mc. broadcasting at 8:00 P.M. one evening. Verification says programs every Sunday morning 10:00 to 11:00 A.M. (Oxrieder, Canal Zone).

Italy. 2RO-16, Rome, on 21.55 mc. daily, 9:00 to 9:55 A.M. (Callan, Mass.)

Newfoundland. VONG, St. John's heard on 5.98 mc. at 8:30 P.M. closing down, (Greenland, England). VONF heard on 5.71, 6:15 to 7:00 P.M. (Iball, England). Heard on 9.64 at noon, (Seamans, N. H.) VONG on 5.69, 8:30 to 12:00 noon, 1:30 to 8:30 P.M. (Callan, Mass.)

Cuba. New station on 6.36 mc. relaying CMAQ-COCO and one on 6.47

relaying CMCK-CMCH and a COX4, Cuban army station, heard on 6.39 mc. 4:00 to 6:00 P.M. QRA is Cuerpo de Senales, Ciudad Militar, Havana, for COX4, (Gallagher, Calif.)

Japan. JFAK, Tawian, is now being relayed by three short wave stations, JFO on 9.68 mc., JIE2 on 9.695 mc. and JIB on 10.53 mc. but was, for a time heard on 9.68 mc., 9.61 mc. and 7.30 mc., these last two still unidentified. Another unidentified Asiatic is on 7.98 mc., daily, 9:00 A.M. to noon, (Gallagher, Calif.)

Japan. Here is a complete list of call-signs and frequencies open to Japanese broadcast stations, supplied Harry Honda by the Nippon Hosa Kyokai: JLR—6.015, JZH—6.095, JLT—6.19, JLG2—9.505, JLU2—9.525, JZI—9.535, JLP—9.605, JLT2—9.645, JLS—9.655, JVV2—9.675, JLG3—11.705, JVV3—11.725, JZJ—11.80, JLG4—15.105, JLR2—15.115, JLU3—15.125, JZK—15.16, JLT3—15.225, JVV5—15.235, JLP2—15.325, JLG—17.785, JLU4—17.795, JVV5—17.825, JLP3—17.835, JLS2—17.845, JZM—21.52, JLP4—21.56, JLT4—21.61, JLS3—21.62. Frequencies 6.185, 9.55 and 9.695 are also open. JFAK frequencies are 9.695, 15.28 and 17.815 mc.

Syria. Anyone hearing a station TIP, at Aleppo, supposed to be on 12.21 mc. mornings?

Reunion. Anyone hearing a station at St. Denis, Reunion Island? It is supposed to be on 9.60 mc. with 60 watts power.

Senagal. Rumors prevail that shortly a new 10 kw. short wave broadcast station will commence operations at Dakar. It will be under the supervision of the Minister des Postes et Telegraphos.

Iran. Two transmitters of 2,000 and 20,000 watts power are under construction. One is for European reception, the other for world-wide reception.

Bulgaria. A station believed to be at Sistova, Bulgaria, is heard on 9.42 mc. or 32.50 meters, broadcasting Sundays at 7:30 A.M. and also heard one Monday 1:20 to 1:38 P.M. (Iball, England).

Java. The NIROM have added station YDD, Bandoeng, on 6.06 mc. to their chain of stations. Used daily between 5:00 and 9:00 or 10:00 A.M.

Tangiers. A new 10,000 watt transmitter is under construction according to word received from an amateur there, (McDermott, N. Y.)

Chile. The station CB- 1510 at Valpariso on 15.10 mc., is reported testing around 7:30 A.M.

Cuba. COHI, Santa Clara, relaying CMHI is on 6.45 to 46 mc. between 6:00 P.M. and midnight. Announces address as Independcia 34, Santa Clara.

CHANGES IN CALL-SIGNS

W1XK, Boston, 9.57 to WBOS. W1XAL, Boston, 6.04, 11.79, 15.13, 21.46 to WRUL. W2XE, New York, 6.12, 11.83, 15.27 and 17.83 to WCBX, W2XAD, Schenectady 9.55, 15.33, and 21.50 to WGEA. W2XAF, Schenectady 9.52 to WGEO. W3XL, Bound Brook 6.10, 17.87 and 21.63 to WNBI. W3XAU, Philadelphia 6.06, 9.59 and 21.52 to WCAB. W6XBE, San Francisco 9.53 and 15.33 to WGEI. W8XX, Pittsburgh, 6.14, 11.87, 15.21 and 21.54 to

WPIT. W8XAL, Cincinnati 6.06 to WLWO.

HJ3ABK 4.74 to HJXC. HJU 4.75 to HJEH. HJ6FAB 4.76 to HJFB. HJ7GAB 4.77 to HJGB. HJ1ABB 4.78 to HJAB. HJ6FAC to HJFI. HJ4-DAU 4.80 to HJDU. HJ2BAC 4.81 to HJBB. HJ5EAD 4.82 to HJED. HJ1ABE 4.83 to HJAE. HJCAD 4.84 to HCJD. HJ3CAF 4.85 to HJCF. HJ2ABJ 4.86 to HJB. HJ6AFH 4.87 to HJFH. HJ4DAP 4.88 to HJDP. HJ3CAH 4.86 to HJCH. HJ1ABG 4.90 to HJAG. HJ6FAC 4.91 to HJFC. HJ1ABP 4.92 to HJAP. HJCT 9.63 (new). SM5SX, Stockholm, Sweden, 15.15 to SBT. (Courtesy of members Westerburg, Legge, Oxrieder, Colnar, Grenland, Gallagher, Stockholm and station owners.)

GENERAL NEWS

OCEANIA

9MI on the motor ship "Kanimbla" heard on 6.01 mc. announcing 49.54 meters or 6.06 mc. heard 5:30 to 8:30 A.M. again, (Saunders, New Zealand, and Keast, Australia). VLR3, Melbourne, Australia, on 11.89 mc. is not used now, VLR is on 9.58 mc. midnight to 10:00 A.M. (Gallagher, Calif.)

AFRICA

Belgian Congo, Africa. A letter from the station says "Radio Leo" on 6.14 mc. broadcasts Sundays and Holidays only from 6:30 to 8:30 A.M. Was 25 watts, now 250 watts power. QRA: College Saint Albert, Leopoldville, Belgian Congo, (Rubio, Cuba). Heard 5:30 to 7:00 A.M. and around 10:00 A.M. Sundays in February, (Janson, Germany).

Madagascar. Radio Tananarive, FIQA, heard now on 9.69 or 9.70 mc. instead of 9.50, (Preiss, Africa).

Durban, Natal. ZRD has moved to 61.5 meters or 4.87 mc. for all programs after noon, E.S.T. (Mallory, Africa). Heard on 11.74 or 75 mc. at times, (Preiss, Africa). ZNB, Mafeking, heard on 5.90 mc. closing down at 2:30 P.M. (Greenland, England). ZNB was supposed to have gone off the air months ago, but here it is again.

Angola. CR6RC, Loanda, is on 11.74 mc. 2:00 to 3:30 P.M. Tuesdays, Thursdays and Saturdays. Heard Saturdays, (Legge, N. Y.)

Portuguese East Africa. CR7BE, Lourenco Marques, heard on 15.24 mc. 9:30 to 11:00 A.M. almost daily, (Bird, India). Announces 15.24 mc. but heard nearer 15.33, 1:00 to 4:00 P. M. irregular. Gives QRA as Box 594 (Preiss, Africa)

ASIA

Japan. The October schedule sent us shows JZL not used; JZK, 15.16 mc. midnight to 1:30 A.M., 4:30 to 5:30 P.M. and 8:00 to 9:00 P.M.; JZJ on 11.80 mc., 7:00 to 9:30 A.M. and 2:00 to 5:30 P.M.; JZI on 9.53 mc., midnight to 1:30 A.M. and 7:00 to 9:30 A.M., and JVV on 7.26 mc. 2:00 to 4:00 P.M. Other recent reports show JVV3 on 11.73 mc., 2:00 to 2:30 A.M. once, (Oxrieder, C. Z.) JVH, a phone on 14.60 mc. relaying baseball games after midnight, (Gallagher, Calif.) Hereafter Japanese telephone stations will not verify, but broadcasters will, (Legge, N. Y.)

China. For some time China tested a number of stations and they were all heard in an irregular schedule. Those used were XPSA on 7.173 (not 7.01), XTA on 5.295 mc., XGOX on 9.50 mc., XGOY on 11.90 mc., XGOX on 17.800 mc. Call-signs were interchanged at times. We are unable to determine a regular schedule for each station but suggest members try as follows: On 7.173 4:30 to 10:00 A.M. and 7:00 to 8:00 P.M.; 9.295 mc. 7:00 to 9:00 A.M.; 9.50 mc. 7:40 to 8:40 P.M.; 11.90 mc. midnight to 10:00 A.M. and 1:00 to 2:30 P.M. and 7:40 to 9:40 P.M.; 15.20 mc. 7:40 to 9:40 P.M.; 17.80 mc. 4:30 to 9:30 A.M. and 7:40 to 11:40 P.M. We thank the following for their help: (Iball, England; Gallagher, Calif.; Preiss, Africa). Member Gallagher also reports XMHA, Shanghai, on 11.86 mc. about every third day from 8:00 to 10:00 A.M. Member Callan reports XGX at Yunnan has replaced XGOX and heard 6:00 to 6:25 A.M. daily in English. Member Janson reports XTJ, Hankow, on 11.69 mc. 5:15 to 7:30 A. M. and XGOY on 9.523 mc. 3:00 to 5:00 P.M.

Taiwan. Letter says JIB is now on 7.295 mc. (41.73 meters) and JFO on 9.63 mc. relaying JFAK programs, (Waite, N. Y.)

French Indo China. "Radio Saigon," "La Voz de la France en Extreme Oriente" or "The Voice of France in the Far East," is on 6.116 mc. (49.00) with 12 k.w. power daily 11:45 P.M. to 12:45 A.M., 6:45 to 8:30 A.M. and 6:45 to 7:15 P.M. and on 11.78 mc. (25.46) 12:15 to 12:45 A.M., and 8:30 to 9:45 A.M. QRA is Boite Postale 412, Saigon, (F. Geauquis, Engineer in charge and an I. S. W. C. member). Heard on both frequencies, (Gallagher, Calif.)

Java. PLP on 11.00 mc., PMN on 10.26 mc. and YDC on 15.15 mc. all heard as late as 9:00 P.M. when schedule shows sign-off time as 7:30 P.M. (Oxrieder, C. Z.) Late lists show YDX Sumatra, on 5.17 mc., 4.945 mc. and 7.22 mc., an YDD, Bandoeng, on 6.06 mc., but we have no reception reports to back these up.

EUROPE

France. Paris Mondial is now on 11.72 mc., 11.88 mc. and 9.68 mc. daily with news at 8:00 to 8:15 P.M. and 12:15 to 12:30 A.M. TPB11 has returned to 7.28 mc. where it is heard 10:15 A.M. to 5:15 P.M. now. A station TPB10 was heard on 9.585 mc. at 11:00 P.M. (Callan, Mass.; Gallagher, Calif., and Peach, Ill.)

Sweden. SM5SX has been replaced by SBT on 15.15 mc. and signs off at 5:00 P.M. (Stark, Mo.) Heard 8:00 to 9:00 P.M. irreg. (Stempel, Conn.) SBU is on 9.53 mc. along with SBO on 6.06 mc. till 5:00 P.M. Schedule is, SBT and BSP (11.71) till 4:00 P.M. and SBU and SBV till 5:00 P.M. (Westerberg, Mass.) SBT and SBP heard Wednesdays and Saturdays 8:00 to 9:00 P.M. (Oxrieder, C. Z.) SBT heard, (Adler, Gallagher).

England. With their entry into the war, the British short wave stations went on emergency schedule, changing frequencies without notice. Our list is as nearly correct as we can arrange it. GSW is a new station on 7.23 used 1:00 A.M. to noon, but for a time was heard 1:00 to 6:00 P. M. (Callan, Mass.)

Denmark. A station OZG on 11.80 mc. was heard midnight to 2:00 A. M. once, (Gallagher, Calif.)

Hungary. HAAQ2, Budapest, on 7.22 mc. last month, is now testing on many frequencies using the call-sign HAD. Reported on 7.22 mc. 8:00 to 11:00 P.M., on 9.625 mc. 3:30 to 8:00 P.M., on 11.85 mc. 2:00 to 6:00 P.M. and 21.68 mc. 11:00 A.M. to 1:00 P.M. (Legge, N. Y.) This is slightly different schedule. Member Adler reports HAS-3, Budapest, testing till 10:00 P.M., not just Sundays, till 10:00 A.M. It is on 15.37 mc.

Spain. Latest letters from Spain says Vallaloid is on 7.07 mc., Barcelona on 7.03 mc., Burgos on 7.07 mc., Malaga on 7.22 mc., Madrid on 9.49 mc. and 9.86 mc. and Barcelona is on 14.06 mc. However, we have had no reports on any but Madrid and some station 11.04 mc. and 11.99 mc., or 14.44 mc. Here are the reports. Is Madrid on 11.99 at 9:00 A.M., also heard on 13.34 at 6:40 P.M. (Iball, England). Burgos on 11.04 noon to 3:30 P.M. (Janson, Germany). Is Malaga on 14.44 mc. daily 7:30 to 9:15 P.M. (Janson and Oskay).

Germany. A station DXB heard on 9:70, then 9.61 and then 9.68 mc. 9:00 P.M. to midnight, (Callan and Gallagher).

Italy. The schedule we show is the one sent to us by the station operators. Members, however, report stations off these schedules, (Oskay, Adler, Callan, Bird, Edwards, Legge, Gallagher). Members also report stations 2RO-12 on 15.10 mc. used 7:00 to 9:00 P.M. for America.

Portugal. CSW8, Lisbon, is on 7.26 mc. Tuesdays, Thursdays and Saturdays 4:05 to 5:00 P.M. (Iball, England). Stations on 11.04 mc. and 9.74 mc. seem to be changing schedule irregularly.

Albania. ZAA is on 7.85 mc., not 7.01 mc., daily, 6:30 to 7:30 A.M. and 5.085 mc daily, noon to 1:00 P.M., verifications say.

Bohemia. OLR4B on 11.84 mc. is used now evenings, in place of OLR5A on 15.32 mc. (Callan, Stark, Oskay, Legge, Gallagher, Westerberg, Eder and Adler).

U. S. S. R. Veri says station on 6.03 mc. and 9.52 are both called RV96, (Legge). Station on 15.42 mc. is Russian, not in Roumania, (Gallagher and Seymour).

SOUTH AMERICA

Venezuela. Stations YV5RO on 4.94 mc. and YV1RT on 4.77 mc. are both on the air now. YV5RN on 5.04 mc. has a harmonic on 15.12 mc. (Stark, Mo.) YVA is a new station on 5.225 mc. heard at 6:25 P.M. (Oskay, N. J.) Other new stations supposed to open soon are YVOR, Caracas, on 11.72 mc. and YV4RZ, Maracay, on 5.03 mc. Anyone hearing them report at once.

Colombia. New call signs have been given Colombia stations. Stations HJGABB, Manizales, on 6.11 mc. and HJ3CAX, Bogota, on 6.02 mc. will remain the same, (Villalobos, La.) HJ4DAX, Ecos Lel Montana, at Medellin, heard years ago on 25 meters, is heard now on 4.795 mc. (Oxrieder, C. Z.) Some Colombian on 7.08 mc. also, (Oxrieder). (Note) Several Colombian stations have harmonics that fall near 9.00 mc. and are mistaken for new stations. Stations like HJCX, HJCD and HJBJ are heard on two places on your dial.

Argentina. LRA5, Buenos Aires, on 17.84 mc. is a new station heard every Friday at 2:30 P.M. (Greenland, Eng.) LSX, Buenos Aires, on 10.31 mc. heard broadcasting Fridays 4:00 to 5:45 P.M. (H. J. B.) Heard at 8:00 P.M. one Friday, (Karch, Pa.)

Ecuador. HCJB, Quito, varies say 7:00 to 8:00 A.M., noon to 2:00 P.M. and 5:00 to 10:00 P.M. on 12.46 mc. (Adler, N. Y.) HC1GQ is on 9.173 mc. and HC2ET is on 9.19 mc, there is no HCAB, according to letters from Ecuador. Someone misunderstood the call-sign. It was HC2ET. HCK, "Radio Nacional De Ecuador" is now on 5.36 mc., evenings, (Oxrieder, Canal Zone).

Bolivia. CP1, Sucre, is on 9.09 mc. and heard three times in August between 8:00 and 10:00 P.M. (Gallagher, Calif.)

Brazil. PRF5, Rio, on 9.50 mc. used week-days only 4:45 to 5:45 P.M. and daily 1:45 to 2:45 and 4:15 to 5:45 P.M. (Janson, Germany). PSE, Rio, on 14.94 mc. broadcasts nightly 6:00 to 7:00 P.M. (Westerberg, Mass. and Bird, Del.)

CENTRAL AMERICA

Nicaragua. YNOP, Managua, moved from 5.46 to 5.755 mc. (Oxrieder, C. Z.) YN3DG, Leon, has dropped the number 3 from his call. Is on 7.66 mc. almost daily around 9:15 P.M. (McDermott, N. Y.) Heard 8:00 to 10:00 P.M. (Stockbridge, Mass.) Heard almost every Saturday on 13.90 mc. around 10:00 P.M. with Spatari Language program, (Bird, Del.) Will verify for a time.

Honduras. HRN, Tegucigalpa, on 5.87 mc. still is broadcasting. The British newspaper reporting them off the air was wrong.

Mexico. XEWI, Mexico City, heard on 11.90 mc. leaving the air at 10:20 P.M., not midnight, (Graulich, N. J.) Heard as late as 12:30 A.M. XETW on 6.04 mc. also heard till 12:30 A.M. (Oliver, Texas). XEQQ, reported on 6.08 mc. has not been reported for some time now.

WEST INDIES

Bahamas. A letter says ZNS, Nassau, has 200 watts power, operates on 6.09 mc. from 1:30 to 2:00 P.M. and from 8:00 to 9:00 P.M. QRA: P. O. Box 48.

Puerto Rico. The station heard in March on 9.94 mc. relaying WCU, San Juan, was a telephone station, WKA2. It is owned by the Puerto Rico Radio Corporation, Box 1414, San Juan.

Cuba. A station COBF or S, not listed, is heard on 7.80 mc. at times, (Oxrieder, C. Z.) Station reported COCE on 12.23 mc. is harmonic of COCD on 6.12 mc. (Oskay, N. J.) COCO, Havana, moved from 6.01 to 3.76 mc. for a while, (Oxrieder and Oskay). Other Cubans are reported moving around, but they move so often that it is impossible to make changes to keep up with them.

Dominican Republic. A station HI2M, San Pedro De Macoris, heard on 6.99 mc from 8:00 to 8:45 P.M. once, (Stockbridge, Mass. and Oxrieder, C. Z.) HI6H, Trujillo, moved from 6.60 to 6.89 for awhile, (Oxrieder). HI1J, San Pedro de Macoris, moving around 5.89 to 5.91 mc. instead of on 5.86 as listed, (Oxrieder and Oskay).

NORTH AMERICA

Old and new call-signs for stations are shown in a special section of this issue, also listed in our station list under new calls. Our schedules have been supplied by the stations.

Schenectady, N. Y. W2XAD (KGEA) has been granted license to operate on 6.19 mc., 9.53 mc. and 21.59 mc. (Colnar, Cal.) KGEI, San Francisco, heard on 6.19 mc midnight to 3:00 A.M. now..

WITH THE REPORTERS

Without reporters we would be lost. We depend on members for the information used in these magazines. So, we find it quite pleasant to thank members for their help. This month we thank the following: George Mallory, South Africa; T. W. Moss, England; L. J. Keast, Australia; F. Beaquis, Indo-China; D. Preiss, South Africa; J. J. Saunders, New Zealand; H. Iball, Sngland; R. H. Greenland, England; Gus Adler, New York; Roger Legge, New York; Roy Waite, New York; F. Anthony, D. C.; Lawrence Reed, Delaware; Neville Seymour, Maryland; W. E Bird, Jr., Delaware.

Desmond Callan, Mass.; Frank Stockbridge, Mass.; Ora Stark, Missouri; Hilding Westerberg, Mass.; Joseph Stempel, Conn.; J. J. Graulich, New Jersey; A. W. Field, California; G. C. Gallagher, California; Harry Honda, California; R. B. Haselden, California; Bob Sawada, California; Dr. R. C. Kash, Tennessee; Alvin Oliver, Texas; Dr. George Villalobos, Louisiana; Thomas Nichols, Penn'a; John Karch, Penn'a; Ford Edwards, Pann'a; Carl and Anne Eder, Miunesota; Robert Peach, Illinois.

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INTERNATIONAL



TENTH ANNIVERSARY YEAR

One Dollar per Year.

THE VOICE OF THE
INTERNATIONAL SHORT WAVE CLUB

EAST LIVERPOOL, OHIO, U. S. A.

SHORT WAVE NEWS

What many people call "skill" in tuning for short wave stations is nothing more or less than knowing **WHEN** and **WHERE** to tune for stations. Nearly all short wave stations are experimental and change their wave lengths or schedules almost without notice. To know when these changes take place is as important to successful reception as having a good receiver.

The time is given in Eastern Standard. Add five hours for Greenwich Mean Time.

NEW STATIONS

Venezuela. YV5RV, La Guara, heard on 3.50 mc. 7:00 to 9:00 P. M. (Legge, N. Y.) YV4RZ, Maracay, was supposed to move to 5.03 mc. but it must have been YV5RV.

Colombia. Some station on 9.71 mc. heard announcing "The New Station, Bogota," heard evenings, (Bird, Del.) (Note: A harmonic of HJCF, Bogota, formerly HJ3CAF, falls on 9.71 mc. It is on 4.855 mc.) Many are hearing this station on 9.71 and we want to know if it is really a harmonic or not.

Colombia. Several magazines report a station HJCD, Nueva, Granada, on 9.40 mc., but we know there are several harmonics of stations near 4.00 mc. heard near 9.00 mc.

Russia. RV99, Irkutsk, is on 15.41 mc. (Fister, N. Y.) Is RV99 at Moscow, as the announcer on 15.18 mc. said RV99 was on 15.41 mc. (Callan, Mass.) Many mistook this station for the new YRO, Roumania.

Roumania. YRO, Baneasa, near Bucharest, heard on 12.16 mc. between noon and 1:00 P.M. announcing "Radio Polytechnical School of Bucharest." Heard on 15.37 announcing "Radio Polytechnical School of Bucharest." Comes on with National anthem sung by chorus of voices and heard almost daily 9:00 to 10:15 P. M. (Westerberg, Mass.) On 15.38 evenings, (Fister, N. Y.) Heard on 15.37, also on 15.14 near 11:00 P.M. several times, (Casals, Dom. Rep.) Heard on 15.14, (Oxrieder, C. Z.)

Mexico. Mazatlan, on 14.40 mc. heard at 10:00 P.M. once asking for reports on new transmitter, (Casals, Dom. Rep.)

Syria. TIP, Aleppo, heard on 12.23 mc. at 4:40 A.M. one morning. (Casals, Dom. Rep.) Anyone else ever hear this one?

Philippines. A letter from KZIB, Manila, says they are testing on 6.04 mc. (Gallagher, Calif.) A KZRF or KGRS is heard on 6.12 mc. between 8:00 and 11:00 A.M. (Gallagher, Calif.) A station KZHS, Manila, heard on 6.10 mc. 5:00 to 8:00 A.M. (Callan, Mass.) KZRM, Manila, heard on 6.14 mc., reports say. KZHS, Manila, heard on 9.58 mc., 8:00 to 9:30 or 10:30 A.M., gave address as P. O. Box 119, Manila, (Keast, Australia). Heard on 9:59 or 9:60, 6:00 to 10:45 A. M., (Gallagher, Calif.)

Cuba. We have reports on what seems to be four new Cuban stations. COHI, P. O. Box 376, Santa Clara, is on about 6.45 or 6.46 mc. relaying programs of the Cuban Blue Network. They announce 6.50 mc., have

studios at "Frente al Parque Vidal" and give schedule as 6:00 A.M. till 1:00 A.M. next day. They relay CMHI, (Casals, Dom. Rep.; Bird, Del.) Gallagher, Calif. and Stockbridge, Mass.) COBS, Havana, is on 7.78 or 7.80 mc. between 6:00 P.M. and midnight. Some say the call is COBF, (Oxrieder, C. Z.; Fister, N. Y.; Casals, Dom. Rep.; Bird, Del.) Another station announcing COXZ, relaying CMZ was on 4.30 mc. once, (Bird, Del.) This one was supposed to open on 5.00 mc.—Editor. Some other Cuban is on 6.36 mc. relaying CMAQ-COCO programs evenings, (Casals, Dom. Rep. and Gallagher, Calif.)

Andorra. "Radio Andorra" in the Republic of Andorra, between France and Spain is on 8.57 mc. or 35.00 meters and 11.83 mc. or 25.00 meters broadcasting in French, Spanish and a dialect of Catalonian. Was heard on 8.57 at 2:00 P.M. (Boothroyd, England).

Luxembourg. The new station will be on 15.35 mc. from 8:00 to 9:00 P.M., November 17, 18, 19:00 to 10:00 P.M.; Nov. 20, 21, 22, and 10:00 to 11:00 P.M., Nov. 23, 24, 25. They will be on 6.09 mc. midnight to 1:00 A.M. Nov. 18, 19, 20; 1:00 to 2:00 A.M. Nov. 21, 22, 23, and 2:00 to 3:00 A.M. Nov. 24, 25, 26.

Stations Under Construction

Wanneroo, Australia. VLW, a new station, will be testing this fall and winter on 6.13 mc., 9.56 mc. and 11.83 mc. Station has 2,000 watts power (Australian radio magazine). New transmitters at Lyndhurst and Perth are under construction. Lyndhurst to go on 7.25 mc. and 7.28 mc. and Perth on 6.13, 9.56 and 11.83 mc. (Indian Radio Times).

New Zealand. We have two different reports on stations under construction at Wellington. From New Zealand came word that around January first a new station will go on the air. Wavelengths are ZL-1 on 9.54 mc., ZL-2 on 11.78 mc., ZL-3 on 15.28 and ZL-4 on 17.77. Member Fister says it is ZL-1 on 6.08 mc., ZL-2 on 9.54 mc., etc.

Reunion. Anyone hearing a station at St. Denis, Reunion Island? It is supposed to be on 9.60 mc. with 60 watts power.

Senegal. Rumors prevail that shortly a new 10 kw. short wave broadcast station will commence operations at Dakar. It will be under the supervision of the Minister des Postes et Telegraphes.

Iran. Two transmitters of 2,000 and 20,000 watts power are under construction. One is for European reception, the other for world-wide reception.

Tangiers. A new 10,000 watt transmitter is under construction according to word received from an amateur there, (McDermott, N. Y.)

Chile. CB-946, Santiago, a new 5 kw. station to operate on 9.46 mc. is under construction.

Spain. The new government has ordained that a new 40 kw. transmitter to operate on several frequencies be built.

Venezuela. A transmitter to be operated by the Director of Radio Communications at Caracas will operate on 6.172 mc. (YVKF) 9.64 mc. (YVSC). 11.725 mc. (YVOR) and 15.315 mc. (YVPX). It will have 30 kw. power, the most powerful station in Venezuela.

Liechtenstein. It is rumored that this country, located between Switzerland and Austria will soon be on the air. We do not know if they will have their own station, or will rent the stations at Geneva.

GENERAL NEWS

OCEANIA

VPD-2, Suva, Fiji Islands, on 9.54 mc. left the air when Australia entered the war, we are told.

AFRICA

Belgian Congo, Africa. A letter from the station says "Radio Leo" on 6.14 mc. broadcasts Sundays and Holidays only from 6:30 to 8:30 A.M. Was 25 watts, now 250 watts power. QRA: College Saint Albert, Leopoldsville, Belgian Congo, (Rubio, Cuba). Heard 5:30 to 7:00 A.M. and around 10:00 A.M. Sundays in February, (Janson, Germany).

Durban, Natal. ZRD has moved to 61.5 meters or 4.87 mc. for all programs after noon, E.S.T. (Mallory, Africa). Heard on 11.74 or 75 mc. at times, (Preiss, Africa).

Angola. CR6RC, Loanda, is on 11.74 mc. 2:00 to 3:30 P.M. Tuesdays, Thursdays and Saturdays. Heard Saturdays, (Legge, N. Y.)

Portuguese East Africa. CR7BE, Lourenco Marques, heard on 15.24 mc. 9:30 to 11:00 A.M. almost daily, (Bird, India). Announces 15.24 mc. but heard nearer 15.33, 1:00 to 4:00 P.M. irregular. Gives QRA as Box 594 (Preiss, Africa)

ASIA

India. From a newspaper published in Bombay we get a new schedule for stations in India, but before making changes in our list we ask members to check up and see if the newspaper is right. First we will show what the newspaper shows, then what we have in our list. VUC2, 4.84 mc., daily at 10:15 A.M. (we show 6:30 A.M. to noon). VUB2, 4.88 mc., 10:10 P.M. to 3:00 A.M. and 7:30 to 11:00 A.M. (7:30 A.M. to 12:30 noon). VUM2, 4.92 mc., 7:30 to 11:30 A.M. (6:30 A.M. to noon). VUD2, 4.96 mc., 10:10 P.M. to 2:30 A.M., 8:20 to 10:30 A.M. and noon to 12:30 P.M. (7:30 to 12:30 noon). VUD2, 9.55 mc., 10:10 P.M. to 3:00 A.M. (9:30 to 10:30 P.M. and 4:30 to 7:00 A.M.) VUM2, 9.57 mc., 10:20 P.M. to 3:00 A.M. (we do not show this station at all). VUD2, 9.59 mc., 10:20 P.M. to 3:00 A.M. and 7:30 to 10:50 A.M. (1:30 to 4:00 A.M., 7:30 to noon and 9:30 to 11:30 P.M.) VUD3, 15.29 mc., 10:10 P.M. to 3:00 A.M., 9:00 to 11:30 P.M. (The list does not show VUD3 on 15.16 mc. heard here the best of all Indian stations 9:30 to 11:30 P.M., nor VUM2 on 11.87 mc. heard some months ago. Member Wadia of Bombay says this one is not on the air.

Turkey. Radio Ankara has discontinued TAQ on 15.19 mc. and now uses TAP on 9.465 mc. every day 11:00 A.M. to 4:30 P.M., week-days 5:30 to 7:00 A.M., Saturdays 6:30 to 8:30 A.M. and Sundays 5:30 to 7:30 A.M. They are anxious for reports on their morning program and since they are so nice, we ask members to send them some.

China. According to an announcement, XGOX-XGOY, Chungking, was

struck by a bomb on September 5th and since that time XGX at Yunnan, a new, stronger station has been used, (Callan, Mass.) A verification says XGOX on 17.80 is used daily 9:00 to 11:00 P.M., XGOY on 11.90 m.c. is used daily 2:00 A.M. to 11:30 A.M. This is a rather late verie, too, (Clark, N.Y.) But listen to this. XGOX is heard now on 15.19 mc., a new frequency, after JZK signs off at 9:00 P.M. (Fister, N.Y.) Other Chinese stations that may be heard at times are XPSA on 7.173 mc., or 7.01 mc., XTA on 9.295 mc., XGOX on 9.50 mc., XGOY on 11.90 mc., XMHA on 11.86 mc. This last one is operated by Japanese.

Manchoukuo. MTCY, Hsingking, is operated on 6.13 mc. and 11.775 mc. A verification gives their 11.77 mc. schedule as follows: To Europe, 4:00 to 4:50 P.M. For America, 1:30 to 2:30 A.M. For Asia, 9:50 to 10:55 A.M. No schedule is given for 6.13 mc. Address is Short Wave System, Central Broadcasting Station, Ksingking, Manchoukuo, (Gallagher, Calif.) Heard on 11.77 at midnight, contrary to schedule, (Werner, Calif.) Heard on 6.13 mc. 6:50 to 9:00 A.M. almost daily, (Gallagher, Calif.)

French Indo-China. Last month F. Gueuquis, Engineer in Charge, of "Radio Saigon," at Saigon, said they were on 6.116 mc. with 12 kw. power daily 11:45 P.M. to 12:45 A.M., 6:45 to 8:30 A.M. and 6:45 to 7:15 P.M. and also on 11.78 mc. 12:15 to 12:45 A.M. and 8:30 to 9:45 A.M. Now member Waite of New York reports them on 11.78 mc. from 6:30 to 6:45 A.M., contrary to schedule, and member Legge of New York also says they are on 6.116 till 6:00 A.M. and then on 11.78 at 6:30 A.M. The address is Boite Postale 412, Saigon.

Java. PLP on 11.00 mc., PMN on 10.26 mc. and YDC on 15.15 mc. all heard as late as 9:00 P.M. when schedule shows sign-off time as 7:30 P.M. (Oxrieder, C. Z.) Late lists show YDX Sumatra, on 5.17 mc., 4.945 mc. and 7.22 mc., an YDD, Bandoeng, on 6.06 mc., but we have no reception reports to back these up.

Japan. Here is a complete list of call-signs and frequencies open to Japanese broadcast stations, supplied Harry Honda by the Nippon Hosa Kyokai: JLR—6.015, JZH—6.095, JLT—6.19, JLG2—9.505, JLU2—9.525, JZI—9.535, JLP—9.605, JLT2—9.645, JLS—9.655, JVV2—9.675, JLG3—11.705, JVV3—11.725, JZJ—11.80, JLG4—15.105, JLR2—15.115, JLU3—15.135, JZK—15.16, JLT3—15.225, JVV5—15.235, JLP2—15.325, JLG—17.785, JLU4—17.795, JVV5—17.825, JLP3—17.835, JLS2—17.845, JZM—21.52, JLP4—21.56, JLT4—21.61, JLS3—21.62. Frequencies 6.185, 9.55 and 9.695 are also open. JFAK frequencies are 9.695, 15.28 and 17.815 mc. The November schedule is shown in our list. It is JZK, 15.16 mc., midnight to 1:30 A.M., 5:30 to 5:30 P.M. and 8:00 to 9:00 P.M., JZJ on 11.80 mc., 7:00 to 9:30 A.M. and 2:00 to 5:30 P.M., JZI on 9.53 mc. midnight to 1:30 A.M. and 7:00 to 9:30 A.M., JVV on 7.26 mc., 2:00 to 4:00 P.M. Another report shows JVV3 on 11.73 mc. 2:00 to 2:30 A.M. and JVH, a phone station, on 14.60 relaying baseball games after midnight.

Taiwan, Japan. JIE on 7.295 mc. and JIE2 on 9.695 mc. at Tyurski, Taiwan, as well as JFO on 9.68 mc. are relaying JFTK programs 9:05 to 10:20 A.M. (Legge, N.Y.) A letter says JIB is on 7.295 mc. relaying JFAK, (Waite, N. Y.) Stations on 7.295, 9.61 and 8.68 mc. heard relaying

JFAK, (Gallagher, Calif.) Some Oriental station is heard on 7.90 (now on 7.98 mc) daily 7:00 to 11:00 A.M. (Gallagher, Calif.)

EUROPE

England. The B. B. C. is now sending programs in Afrikaans, Arabic, Czech, French, German, Greek, Italian, Magyar, Polish, Portuguese, Roumanian, Serbo-Creat and Spanish, and some of these stations may be mistaken for others unless one listens carefully. Our list shows their November schedule, but member Woodward reports GSP on 15.31 mc. from 7:00 to 8:00 P.M., not shown on the official schedule and GSB, 9.51 at 4:10 P. M.

Germany. Schedules are no longer received from this country, but we are told that there has been a change in schedule this month. Member Callan says DZC on 10.29 mc. is used 4:30 to 9:00 P.M. now. Member Fister reports Germany heard on 9.61 and 9.71 mc. evenings. Member Nichols reports DXB on 9.61, 4:00 P.M. to 11:00 P.M. Member Gallagher says DXB is on 9.61 mc. and DZA is on 9.69 mc. from 5:00 to 11:00 P.M.

Bohemia. OLR5A on 15.23 mc. is heard regularly 6:00 P.M. till 10:30 of 11:00 P.M. (Woodward, Mass.) Watch for OLR4A on 11.84 to replace it soon (Editor).

Spain. Radio Malaga, Malaga, on 14.44 mc. broadcasts some evenings around 6:00 to 9:00 P.M., EAQ, Madrid, on 9.86 mc. is doing likewise.

Sweden. A new schedule, direct from the station to member Woodward shows this. SBO on 6.06 mc. used 4:15 to 5:00 P.M. SBU on 9.53 mc. used 4:30 to 5:00 P.M. SBP on 11.70 mc. used 1:00 P.M. to 4:15 P.M. weekdays, 3:00 A.M. to 4:15 P.M. Sundays and holidays. 8:00 to 9:00 P.M. Wednesdays and Saturdays. SBT on 15.15 mc., 1:00 to 4:30 P.M. weekdays; 3:00 A.M. to 4:30 P.M. Sundays and Holidays; 8:00 to 9:00 P. M. Wednesdays and Saturdays. He also reports SBT and SBP heard 8:00 to 9:00 P.M. Member Waite reports SBT and SBP signing off at 4:30 P. M. in favor of SBU and SBO.

Albania. ZAA, Tirana, heard on 7.89 mc. at 6:15 A.M. (Eder, Minn.) This one was on 7.01 mc., 6:30 A.M. to 7:30 A.M. and on 6.08 mc., noon to 1:00 P.M. verifications say.

Hungary. HAT-4, Budapest, heard as early as 6:30 P.M. instead of 7:00 to 8:00 P.M. (Eder, Minn.) HAT-4 does start up at 6:00 P.M. Saturdays. (Editor).

Vatican. HVJ on 15.12 mc. heard around 10:00 A.M., not on schedule (Werner, Calif.)

Soviet States. RNE, Moscow, heard often after 10:00 P.M. (Eder, Minn.) RNE heard on two frequencies, 11.92 and 12.00 up till 5:00 P.M. (Fister, N. Y.)

Bulgaria. A station believed to be at Sistova was heard in June on 9.42 mc. Sundays at 7:30 A.M. and also one Monday 1:20 to 1:38 P.M. Anyone able to identify?

Italy. Changes in schedule show 2RO4 on 11.81 till 3:00 P.M. instead of 12:00 noon. 2RO8 on 17.82 mc. now 5:00 to 9:00 A.M. and 6:00 to 7:30 P.M. IQY on 11.67 mc. 7:30 to 9:00 P.M. 2RO6 on 15.30 mc. is heard regularly 5:00 to 6:00 P.M., not shown in list (Woodward, Mass.) 2RO3,

on 9.64 mc. heard recently at 1:00 A.M. asking for reports (Fister, N. Y.) 2R016, new station, heard on 21.55 mc. daily 9:00 to 9:55 A.M. (Callan, Mass.)

France. Officials are changing schedules quite often now, but ours is the latest one shown us. Additional news follows: TPB on 9.67 mc. is heard 8:00 P.M. through 12:30 A.M. now (Nichols, Pa.) TPB2 on 15.24 mc. heard at 12:45 P.M., not just 5:00 P.M. to 1:00 A.M. as shown, (Nichols, Pa. and Edwards, Pa.) TYA2, Paris, a phone station, heard on 9.03 mc. with talks 12:30 to 12:45 A.M. This was a broadcast program, (Fister, N. Y.) FLASH: From the Consul General of France comes word that Paris is now on 11.845 mc. or 25.33 meters at 12:30 noon. This is a new frequency.

Yugoslavia. Direct from Belgrade comes these details: YUA is on 6.10 mc. YUB is also on 6.10 mc. YUC is on 9.505 mc. YUD is also on 9.505 mc. for South America. YUE is on 11.775 mc. for North America, YUF is on 15.24 mc. for South America and YUG is on 15.24 mc. for North America. YUC on 9.505 mc. is the most commonly heard one. They are heard between 3:00 and 5:00 P.M. almost daily, and use English quite a bit between 4:10 and 4:30 P.M. This is the best time to dial for them. (Edwards, Pa.; Waite, N. Y.; Stockbridge, Mass.) Announced YUA on 6.10 and YUC on 9.505 (Stockbridge). YUG on 15.24 or 25 mc. is used between 8:00 and 9:00 P.M. (Eder, Minn.) Heard 7:00 to 8:00 P.M. (Waite, N. Y.) Heard, no time given, (Clark N. Y. and Gallagher, Calif.) Also heard not so long ago on 11.74 mc., 7:30 to 9:00 P.M. (Gallagher, Calif.)

Portugal. CSW8, Lisbon, is on 7.26 mc. Tuesdays, Thursdays and Saturdays 4:05 to 5:00 P.M. (Iball, England). Stations on 11.04 mc. and 9.74 mc. seem to be changing schedule irregularly.

Hungary. HAAQ2, Budapest, on 7.22 mc. last month, is now testing on many frequencies using the call-sign HAD. Reported on 7.22 mc. 8:00 to 11:00 P.M., on 9.625 mc. 3:30 to 8:00 P.M., on 11.85 mc. 2:00 to 6:00 P.M. and 21.68 mc. 11:00 A.M. to 1:00 P.M. (Legge, N. Y.) This is slightly different schedule. Member Adler reports HAS-3, Budapest, testing till 10:00 P.M., not just Sundays, till 10:00 A.M. It is on 15.37 mc.

SOUTH AMERICA

Argentina. A program booklet received by member Stockbridge shows LRA1 on 9.69 mc. will advance their schedule one hour from November 1st to February 28th and will broadcast as follows: Daily 9:30 to 1:00 P.M., 3:00 to 8:00 P.M. Fridays, Saturdays and Sundays 9:30 to 1:00 P.M. and 6:00 to 8:00 P.M. LRA5 on 17.83 mc. will be used from 3:00 to 3:30 P.M. Fridays only. Member Greenland says LRA5 was heard at 2:30 P.M., but if they advanced their schedule one hour it would now be 1:30 P.M., instead it is shown as 3:00 to 3:30 P.M. now. LRA2 on 6.185 mc. on the air 5:30 P.M. to 9:00 P.M. often.

Bolivia. CP5, La Paz, heard on 6.20 mc., 9:00 to 11:00 P.M. once again. This is a new frequency. (Legge, N. Y.) A station believed to be CPI. Sucre, heard on 9.90 mc. between 8:00 and 10:00 P.M. irregularly, (Gallagher, Calif.)

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Brazil. PSE, Rio De Janeiro, on 14.94 mc. was used with PSH (10.22 mc.) evenings then some strange station on 12.08 mc. was used. Anyone identify it? (Fister, N. Y.)

Chile. Has anyone heard CB 1510 on 15.10 mc. around 7:00 A.M. lately? Was heard last spring, but not reported lately. CB-1174 on 11.74 mc. reported about once every six months, heard at 9:00 P.M. once recently, (Legge, N. Y.)

Colombia. With the constant re-shuffling of call-signs and frequencies of Colombian stations, we have lost track of some stations and ask members to help us. We can not locate HJ4ABD once on 5.97 mc., "La Voz de Catia en Valle del Aburra"; HJ4ABE, 6.14 mc., "La Voz de Antioquia"; HJ4ABP, 4.88 mc., "Emisora Claridad"; HJ4ABU, 8.65 mc., "Emisora Universidad de Antioquia" and HJ6ABA, 6.05 mc., "La Voz de Periere." We cannot place HJ4ABE, Medellin, once on 5.97 mc.; HJ4ABL, Manzales once on 6.06 mc.; HJ4ABA, "Echos de Occidente," once on 11.74 mc. Neither can we find details, such as ownership, slogans, etc., of these. HJFB, 4.76 mc., formerly HJ6FAB; HJFI, 4.79, formerly HJ6AAC; HJDU, 4.80 mc. formerly HJ4DAU, and HJDP, 4.88 mc. formerly HJ4DAP.

Paraguay. ZP8, Asuncion, last heard of on 9.18 mc. is rumored now on 11.85 mc. evenings. Anyone hearing it?

CENTRAL AMERICA

Nicaragua. A verification says YNDG, "Station Gilfillan," at Leon, is on 7.66 mc. and YN3DG on 13.90 mc. Dennis E. Gallo is the owner and they verify for a dime. On December 10th at 1:00 A.M. they will send a program for the R. S. S. L. of New York. (Stockbridge, Mass.) YNDG, heard between 8:00 and 10:00 P.M. often (McDermott and Stockbridge). Heard on 13.90 almost every Saturday from Spatari Radio Language, (Bird, Del.) YNRF, Managua, is on 6.76, not 6.73, (Bird, Del.) A station YN1IP, Managua, was heard on 7.284 mc. one evening at 8:00 P.M. and a letter brought a verification saying they sent programs every Sunday 10:00 to 11:00 A.M. Slogan was "Institute Pedagogico" (Oxrieder, Canal Zone).

Guatemala. TGX-1, Guatemala City, heard on 5.84 mc. instead of 6.12 mc., from 8:00 to 11:30 P.M. (Legge, N.Y.) TGWB, same city, on 6.43 mc., not 6.49, now, (Gallagher, Calif.) TG5JG, a new station, heard on 11.44 mc. at times, (Gallagher, Calif.) Heard on 11.40 from 1:30 to 2:30 A.M. one morning, (Thoreson, Alta.)

Costa Rica. Anyone hearing a TI7RVM at Las Juntas, supposed to be on 6.04 mc.? TI2RH, San Jose, is on 6.15 mc. relaying TIRH between 6:00 and 11:00 P.M. (Oxrieder, Canal Zone).

British Honduras. ZIK2, Belize, is on 10.60 mc. Tuesdays, Thursdays and Saturdays, 7:00 to 10:00 P.M., replacing ZIK3 on 5.03 mc. (Callan, Mass.)

Mexico. Station XEQQ, heard some time back on 6.08 mc., heard recently on 9.68 mc. after Paris signs off at 1:05 A.M. Announcer said XED and XEQQ and would be back at 9:00 A.M., Mexico Time, next day. Signed off with "Novels Bolero" (Fister, N. Y.)

WEST INDIES

Bahamas. Verifications say ZNS, Nassau, has 200 watts power on 6.09 from 1:30 to 2:00 P.M. and 8:00 to 9:00 P.M. Member Waite of New York says they are on from 7:30 to 9:30 P.M. almost every day, however.

Cuba. COCQ, Havana, on 8.83 mc. also heard on 17.70 mc. till 10:00 P.M. (Thoreson, Alta.) Note: A harmonic of COCQ would fall on 17.68 mc. The station reported as COCE on 12.23 mc is a harmonic of COCD on 6.12 mc. (Oskay, N. J.) COCO, Havana, now heard on 8.70 mc. instead of 6.01 mc. (Casals, Dom. Rep.) COCH, Havana, on 6.46, not 9.43, (Bird, Del.) COBX, now on 9.15, not 9.20, and COBC on 9.35, not 10.01, (Gallagher, Cal.) New stations COHI and COBS are mentioned in the new station section.

Puerto Rico. Again we say that the station on 9.94 mc. relaying WCU, San Juan, last March was a telephone station, WKA2, owned by the Puerto Rico Telephone Corporation, Box 1414, San Juan and not a broadcast station.

Dominican Republic. Member Thomas Casals Pastoriza of Trujillo, sends the following: HI4D, Trujillo, is off the air. HI4V, San Francisco de Macoris moved from 6.45 to 6.197 mc. HI6H, Trujillo, moved from 6.60 to 6.89 then settled on 6.115 mc. HI1J, San Pedro de Macoris is on 5.91, not 5.86, now. Member Stockbridge says HI3C, La Romana, on 6.75 mc. is heard 5:00 to 6:00 P.M. when they sign off, while our list shows 5:40 to 7:40 P.M. Member Bird says some Dominican is on 5.95 mc. till 7:30 P.M. and another is on 6.90 mc. evenings. HI2M, San Pedro de Macoris heard on 6.99 mc. 8:00 to 8:45 P.M. (Stockbridge and Oxrieder). HI1J moving around 5.91 to 5.89, not 5.86 as listed, (Oxrieder and Oskay). HI2M, owned by Fausto Donastorg, operator of HI1J, is on 7:10 mc. evenings, sending music, (Casals, Dom. Rep.)

NORTH AMERICA

Stations WGEO on 9.53 mc., WGEA on 9.55 and 15.33 mc. have changed schedule. Stations WCAB, Philadelphia and WCBX, New York, also have changed schedules. The new schedules are shown in our list. Member Woodward says WGEA on 15.33 mc is heard 8:00 A.M. to 6:00 P.M., not just 11:15 to 6:00 P.M. as they claim.

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Boston. W1XAL changed call-sign to WRUW and WRUL depending on what frequencies they use. They seem to use W for European and L for South American programs. W9XAA, Chicago, long since off the air, was assigned WCBI as a new call.

Hawaii. KHE, a phone on 17.95 mc. relays a program Saturdays at 8:30 P.M. (Gallagher, Calif.) Canada. CKFX, Vancouver, a two watt station on 6.08 mc., the world's smallest transmitter, heard at midnight, not shown on list, (Werner, Calif.) Cincinnati. J. M. McDonald, Technical Department. WLWO, tells us that the new 50 kw. WLWO is nearing completion. It will be able to operate on 6.06 mc., 9.59 mc., 15.27 mc. and 21.65 mc. It can use beam antennas, too. W8XNU, owned by Crosley Radio also, is on 25.95 mc. week-days 9:00 A.M. to noon, (Thoreson, Alta.)

Newfoundland. VONG, St. John's, heard on new frequencies of 9.45 mc. at 5:30 P.M. Saturday afternoons, (Edwards, Pa.) Heard relaying London on 5.98, 8:00 to 8:33 P.M. (Waite, N.Y.) Is on 5.69, not 5.98, 8:30 to noon and 1:30 to 8:30 P.M. (Callan, Mass.) Heard on 5.98, (Greenland, England). On 5.71, (Iball, England). On 9.64, (Seaman, N. H.)

Last April member Robert Chase of 231 Henry Street, New York City, fell and was seriously injured. Recently he underwent an operation. We believe it would be grand if each and every member would send him a card and we know it will do a lot of good. Let's see how many he gets.

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INTERNATIONAL



TENTH ANNIVERSARY YEAR
One Dollar per Year.

THE VOICE OF THE
INTERNATIONAL SHORT WAVE CLUB

EAST LIVERPOOL, OHIO, U. S. A.

SHORT WAVE NEWS

What many people call "skill" in tuning for short wave stations is nothing more or less than knowing **WHEN** and **WHERE** to tune for stations. Nearly all short wave stations are experimental and change their wave lengths or schedules almost without notice. To know when these changes take place is as important to successful reception as having a good receiver.

The time is given in Eastern Standard. Add five hours for Greenwich Mean Time.

Stations Under Construction

Cuba. A station COCN, Havana, is supposed to open on 9.437 mc. soon. Greece. Two new transmitters of high power will operate from Sparta as follows: 6.885—SVD; 7.228—SVL; 7.805—SVG; 9.03—SVH; 9.695—SVI; 9.825—SVJ; 9.935—SVM; 10.705—SVN; 12.195—SVP; 13.64—SVQ.

Belgium. A new transmitter at Ruyselede, the home of ORK, will soon operate on 11.85 mc. and will have 45,000 watts power.

Cincinnati, Ohio. The new WLWO, 50,000 watt transmitter is nearing completion and will be heard soon. With beam antennas this new station may operate as follows: 6.06 mc, 9.59 mc., 15.27 mc and 21.56 mc.

Wanneroo, Australia. VLW, a new station, will be testing this fall and winter on 6.13 mc., 9.56 mc. and 11.83 mc. Station has 2,000 watts power (Australian radio magazine). New transmitters at Lyndhurst and Perth are under construction. Lyndhurst to go on 7.25 mc. and 7.28 mc. and Perth on 6.13, 9.56 and 11.83 mc. (Indian Radio Times).

New Zealand. We have two different reports on stations under construction at Wellington. From New Zealand came word that around January first a new station will go on the air. Wavelengths are ZL-1 on 9.54 mc., ZL-2 on 11.78 mc., ZL-3 on 15.28 and ZL-4 on 17.77. Member Fister says it is ZL-1 on 6.08 mc., ZL-2 on 9.54 mc., etc.

Senegal. Rumors prevail that shortly a new 10 kw. short wave broadcast station will commence operations at Dakar. It will be under the supervision of the Minister des Postes et Telegraphes.

Iran. Two transmitters of 2,000 and 20,000 watts power are under construction. One is for European reception, the other for world-wide reception. Member Callan believes he heard EQC on 9.68 mc. at 7:15 A.M. one Tuesday Said "La Voz de Teherana."

Tangiers. A new 10,000 watt transmitter is under construction according to word received from an amateur there, (McDermott, N. Y.)

Chile. CB-946, Santiago, a new 5 kw. station to operate on 9.46 mc. is under construction.

Spain. The new government has ordained that a new 40 kw. transmitter, to operate on several frequencies be built.

Venezuela. A transmitter to be operated by the Director of Radio Communications at Caracas will operate on 6.172 mc. (YVKF) 9.64 mc.

(YVSC). 11.725 mc. (YVOR) and 15.315 mc. (YVPX). It will have 30 kw. power, the most powerful station in Venezuela.

NEW STATIONS HEARD

Venezuela. YV5RW, Caracas, heard on 3.40 mc., 8:00 to 9:30 P.M. and YV5RY. La Guara, heard on 3.50 mc., 7:00 to 9:00 P.M. (Legge, N. Y.)

Mexico. XEKW, Morelia, heard on 6.03 mc. from 10:00 to 11:30 P.M. (Legge, N. Y.)

Andorra. "Radio Andorra" in the Republic of Andorra, between France and Spain, heard on 8.57 mc. and at another time on 11.83 mc. at 2:00 P.M. (Boothroyd, Eng.)

Russia. An official program tells us the following stations are broadcasting programs:

7.36 mc.—4:00 to 5:00 P. M. Sundays.

7.52 mc.—3:00 to 6:15 P. M. daily (English at 4:30).

8.06 mc.—3:00 to 3:30 P. M. daily.

11.63 mc.—At 6:00 A.M. and 1:00 P.M. daily, 7:00 A. M. Sunday.

11.90 mc.—4:00 to 5:00 P. M. daily.

14.72 mc.—5:30 to 6:30 A. M. daily.

Philippines. KZRH, "The Voice of the Philippines," operated by Radio Heacock, Heacock Building, Manila, is on 9.635 mc. between 3:00 and 11:00 A.M. with time signal at 8:00 P.M. and signing off with "The Star Spangled Banner." Best time to tune 6:00 to 8:00 A.M. (Robinson, Iowa; Oliver, Texas; Schubert, Iowa; Legge, N. Y.; Callan, Mass.) This station also operates on 6.10 mc. irregularly 5:00 P.M. to 11:00 A.M. next day. Another KZEH, is reported on 9.58 mc, giving address as Box 119, Manila. KZIB, operated by Beck's Department Store, operates on 6.04 mc. as well as 9.50 mc. now, from 6:00 P.M. to 12:30 A.M. and 4:00 to 10:00 A.M. KZRF, operated as KZEG at one time, is now on 6.14 mc. from 5:30 P.M. to 11:00 A.M. next day. It is operated by "Radio Filipinas," Insular Life Bldg., Manila. (Gallagher, Callan, Keast).

Colombia. Several stations are heard near 9.40 to 9.75 mc., but we believe most of them are harmonics of stations near 4.00 mc. For example, we know that HJCF, "La Voz de Bogota" on 4.85 mc., is also heard on 9.70 and HJFH, "La Voz de Armenia" on 4.87 mc. is heard on 9.75 mc. One station, however, that is not harmonic is HJFK, "La Voz de Amigos," heard on 9.73 or 9.74 mc. between 7:00 and 9:00 A.M. and 8:00 and 10:30 P.M. It is at Pereira and uses the slogan "Radio Nacional." (Gallagher, Calif. and Legge, N. Y.) Is on 9.68, also 4.83 mc. (Villalobos, La.)

Mexico. Mazatlan, on 14.40 mc. heard at 10:00 P.M. once asking for reports on new transmitter, (Casals, Dom. Rep.)

Syria. TIP, Aleppo, heard on 12.23 mc. at 4:40 A.M. one morning. (Casals, Dom. Rep.) Anyone else ever hear this one?

GENERAL NEWS

OCEANIA

When Australia entered the war, all stations there, including VK2ME, VK3ME, VK3LR, VK6ME and VPD-2 all closed down, but we have word that they are either back on the air or will be shortly.

AFRICA

Ethiopia. IABA, Addis Ababa, on 9.65 mc. heard daily 1:30 to 2:15 P. M. (Lowery, England). Will broadcast special program January 21st from 5:00 to 6:00 P.M. New call is I2AA and schedule is 3:30 to 5:00 A.M. and 11:00 A. M. to 2:30 P. M.

Canary Islands. EAJ43, Tenerife is no longer using 10.37 mc. but works 7.50 mc. at times, (Callan, Mass.)

ASIA

India. That newspaper schedule last month must have been wrong. Reports received from members indicate our list is correct. Here are some of them: VUB2, Bombay on 9.55 mc., heard when XEFT, Mexico, is not on the air, from 9:30 to 10:30 P.M., along with VUD2, Delhi, on 9:59 mc. (Legge, N. Y.) VUD2, Delhi, on 9.59 mc. heard 6:55 to 7:45 A. M., English used 7:30 to 7:37 A.M., list shows 7:30 A.M. as starting time, (Waite, N. Y.) VUD4, Delhi, on 15.30 mc. heard up till noon, (Gallagher, Calif.) Listeners should dial on 9.55 mc., 9.59 mc. and 15.16 mc. from 9:30 to 10:30 P. M. and 6:30 to 9:30 A. M.

Siam. HS6PJ, 19.02 mc. and HS8PJ, 9.51 mc., Bangkok, will both soon be used every day 7:00 to 10:00 A. M.

China. XPSA, Kweiwang, on 6.97 mc. is heard 5:30 to 11:10 A. M. and 5:00 to 6:00 P.M., with English used 9:00 to 9:10 A.M. XGOY on 11.90 is used 2:00 to 4:20 P.M. and 4:30 to 6:30 P.M. and 5:30 to 11:30 A.M., with English used 6:15 to 6:25 A.M. XGOX, on 15.20 mc. is used 7:00 to 10:40 P.M., with English used 9:50 to 10:15 P.M. (Ying, Arizona). XGOX also tested 2:00 to 3:00 A.M. and 8:55 to 9:30 A.M. on 15.20 mc. last month, but was just a test, (Ong). XGOX-XGOY reported at Chungking, Yunnan, Sechuan and Kunning, so they must be moving to confuse the Japanese troops. XGOX on 15.19 at 11:00 P.M. (Gallagher, Calif.) At 9:00 P.M. (Legge, N. Y.) Evenings, (Schubert, Iowa) XGOY on 11.90 at 1:00 P.M. (Lowery, England). Some Chinese, believed to be XGOK, Canton, and not XGOX, heard on 11.68 mc. 7:00 to 9:00 A.M., with English used at 8:24 A. M. (Waite, N. Y.)

Indo-China. Radio Saigon is on 6.116 mc. with programs in English daily 6:00 A.M. to 6:45 A.M. and to 7:00 A.M. Sundays, with a "Mail-Bag" program Tuesdays. Veries say they close down at 11:45 A. M., but heard till 9:00 A.M. only, (Markason, Col.) On both 6.116 and 11.78 mc. 5:00 to 11:00 A.M. with "mail-bag" Tuesdays 6:15 to 6:25 A.M. (Callan, Mass.) Heard on 11.78 mc. 6:00 to 8:30 A.M. (Stockbridge, Mass.)

Turkey. Radio Ankara has discontinued TAQ on 15.19 mc. and now uses TAP on 9.465 mc. every day 11:00 A.M. to 4:30 P.M., week-days 5:30 to 7:00 A.M., Saturdays 6:30 to 8:30 A.M. and Sundays 5:30 to 7:30 A.M.

They are anxious for reports on their morning program and since they are so nice, we ask members to send them some.

Manchoukuo. MTCY, Hsingking, is operated on 6.13 mc. and 11.775 mc. A verification gives their 11.77 mc. schedule as follows: To Europe, 4:00 to 4:50 P.M. For America, 1:30 to 2:30 A.M. For Asia, 9:50 to 10:55 A.M. No schedule is given for 6.13 mc. Address is Short Wave System, Central Broadcasting Station, Ksingking, Manchoukuo, (Gallagher, Calif.) Heard on 11.77 at midnight, contrary to schedule, (Werner, Calif.) Heard on 6.13 mc. 6:50 to 9:00 A.M. almost daily, (Gallagher, Calif.) Heard on 11.77 mc. after 2:30 A.M. sometimes, (Gallagher). Heard at 12:30 A.M. off schedule, (Schubert, Iowa). Heard at 1:00 A.M. (Werner, Calif.) At 9:50 A.M. (Waite, N. Y.) at 4:00 P.M. (Lowery, Eng.)

Japan. Here is a complete list of call-signs and frequencies open to Japanese broadcast stations, supplied Harry Honda by the Nippon Hosa Kyokai: JLR—6.015, JZH—6.095, JLT—6.19, JLG2—9.505, JLU2—9.525, JZI—9.535, JLP—9.605, JLT2—9.645, JLS—9.655, JVV2—9.675, JLG3—11.705, JVV3—11.725, JZJ—11.80, JLG4—15.105, JLR2—15.115, JLU3—15.135, JZK—15.16, JLT3—15.225, JVV5—15.235, JLP2—15.325, JLG—17.785, JLU4—17.795, JVV5—17.825, JLP3—17.835, JLS2—17.845, JZM—21.52, JLP4—21.56, JLT4—21.61, JLS3—21.62. Frequencies 6.185, 9.55 and 9.695 are also open. JFAK frequencies are 9.695, 15.28 and 17.815. The December schedule is as follows: JVV on 7.275 mc., a new frequency, 2:00 to 4:00 P.M. JZI on 9.53 mc. midnight to 1:30 A.M., 7:00 to 9:30 A.M. and 2:00 to 4:00 P.M. JZJ on 11.80 mc. 7:00 to 9:30 A.M. and 4:30 to 5:30 P.M. and 8:00 to 9:00 P.M., this last for North America in English. Member Woodward says JZK was heard last month at 4:55 to 5:06 P.M. and again at 7:57 P.M., all off schedule. Other reports agreeing with the schedule come from members Gallagher, Stockbridge, Werner.

An unidentified Oriental station is on 7.85 mc. every day from 2:00 to 3:30 P.M., using four or five bell tones as a signal and some unidentified National anthem as close down, (Gallan, Mass. and Stockbridge, Mass.) This is not the wavelength nor the schedule of the new Russian stations we mentioned. Another unidentified station is on 11.65 mc. at 6:00 A.M. but this one may be the new Russian supposed to be on 11.68. They broadcast daily at 6:00 A.M. and send Chinese music starting at 7:00 A. M. (Callan and Stockbridge).

EUROPE

Hungary. HAD, Budapest, up to December 16th, broadcast as follows: 21.63 mc., noon to 3:00 P.M., 11.95 mc. 3:00 to 6:00 P.M., 9.625 mc. 6:00 to 9:00 P.M. and 7:22 mc. 9:00 P.M. to midnight, (Legge, N.Y. and Callan, Mass.) Heard on 21.63 and 7.22, (same reporters).

Italy. Each month the EIAR sends us a program sheet and we guide our list by it. Different from the list, however, are these reports from member Callan. IQY on 11.67 is not used 7:30 to 9:00 P.M. 2RO6 on 15.30 is used 3:00 to 5:30 P.M. and 7:30 to 9:00 P.M. 2RO14, on 15.34 is heard nearly every afternoon. 2RO16 on 21.51 mc. is heard regularly 9:00 to 10:00 A.M. 2RO15 on 11.75 mc. is heard at 6:00 A.M. 2RO12 on 15.10 mc. is heard almost all day. Member Woodward says 2RO6 on 15.30 mc. is

heard till 4:45 P.M., not just 4:00 P.M. 2RO3 on 9.63 mc. broadcasts 1:00 to 2:20 A.M. for Australia, (Dement, Pa. and Granlich, N. J.)

Portugal. No one can tell just how these stations will broadcast. CSW7 on 9.74 mc., Lisbon, used 4:00 to 8:00 P.M. (Ewards, Pa.) Heard till 9:20 P.M. once last month, (Woodward, Mass.) Uses English 3:00 to 3:40 P.M., Tuesdays and Fridays, (Lowery, England). CSW8, on 7.26 mc. used Tuesdays, Thursdays and Saturdays, 4:05 to 5:00 P.M. (Iball, Eng.)

Switzerland. The Swiss stations are oftentimes rented to relay programs and since the war have kept a very irregular schedule. We list only the regular scheduled programs.

Denmark. A new series of call-signs have been arranged. They are OXY-2 on 6.045 mc., OXY-3 on 6.17 mc., OZI on 17.81 mc. and OZI-3 on 17.835 mc.

Yugoslavia. Direct from Belgrade comes these details. YUA and YUB are on 6.10 mc. YUC is on 9.505 mc. YUD is also on 9.505 mc. YUE is on 11.775 mc. YUF and YUG are on 15.24 mc. YUC is used daily from 3:00 to 5:00 P.M. with English used 4:10 to 4:30 P.M. YUF-YUG is used daily 7:00 to 9:00 P.M., from 8:00 to 9:00 for North America in English. A late report indicates that YUE on 11.775 has replaced YUF-YUG, but we are not sure. On the 14th and last days of the month DJP., Berlin, on 11.855 mc. and DZC on 10.29 mc. joins YUA and YUG from 7:00 to 8:15 P.M. YUA, 6.10 mc. heard at midnight, off schedule, (Graulich, N. J.)

Holland. PCJ on 9.56 mc., PCJ-2 on 15.22 mc. and PHI-2 on 17.77 mc. all operate on an irregular schedule, changing about once each week. You may hear any of them not on the schedule we show.

Ireland. A new schedule is in effect. Radio Eirann, Dublin, is on 17.84 mc., 7:30 to 8:30 A.M. and 9:00 to 10:00 A.M., on 9.595 mc. 12:30 to 4:30 P.M. and 5:00 to 6:00 P.M. Power 15,000 watts now, (Lowery, England). Heard at 5:00 P.M. now, (Bird, Del.)

The Vatican. HVJ operates as follows: On 6.19 mc. week-days at 2:00 P.M. Thursdays at 2:30 P.M. and Wednesdays at 3:00 P.M. On 11.74 Tuesdays at 8:30 A.M. On 15.12 mc. Sundays at 1:00 P.M. Tuesdays at 10:30 A.M. and Wednesdays at 2:30 P.M. It does not use 9.55 mc. now. (Callan, Mass.)

Roumania. Sometimes we wonder if there is such a station as YRO, Baneasa, reported on 12.16 mc. between noon and 1:00 P.M. and around 15.40 mc. around 9:00 to 10:15 P.M. A good many members say this is a Russian station. Member Fister says it is RV99 at Irkutak on 15.41 mc. and member Callan heard the announcer at Moscow say RV99 was broadcasting on 15.41 mc.

Russia. Under "New Stations Heard" we show a list of stations and schedules received direct from Moscow. We have corrected our list according to this new list. Member Fister reports he heard the new one on 11.90 mc. at 5:00 P.M. Some station that may be the one supposed to be 11.63 mc. is heard on 11.65 mc. at 6 A.M. by members Stockbridge and Callan. Member Oxrieder says RAN is roaming around between 9.693 and 9.688 mc. instead of 9.60. RNE, Moscow, on 12.00 mc. heard at 12:30 A.M. off schedule, (Bird, Del.)

France. A new Parisian station is on 11.843 mc. 12:30 to 1:30 P.M. and again later in the afternoon when it joins TPB12 on 11.88 mc. And the one on 9.68 mc. is heard at 6:00 P.M., too, (Callan, Mass.) TPB12 on 11.88 mc. heard 10:00 to 11:00 A.M. off schedule, (Woodward, Mass.) TPB on 9.68 mc. heard signing off at 8:30 P.M., not 12:30 A.M. (Werner, Calif.) Is on 9.70, not 9.68 mc. (Dement, Pa.) TPA2 on 15.24 mc. heard till 12:30 noon or later, not just till 10:00 A.M. (Bird, Del.) Paris heard on 11.84 mc. with program for Americans, 12:30 to 1:30 P.M. (Oliver, Texas.)

Spain. Radio Malaga, Malaga, is on 14.44 mc. some evenings around 6:00 to 9:00 P.M. FET-1 is on 7.07 mc. 12:30 to 1:00 P.M. and 3:30 P.M. onwards and Radio Malaga is also on 7.22 mc. after 3:30 P.M. (Lowery, England). A veri says EAQ, Madrid, on 9.86 mc. is used Saturdays 1:00 to 3:00 P.M., Sundays 8:30 to 9:30 P.M. and week-days 5:00 to 7:30 P.M., address still Box 591, (Schubert, Iowa). This may have been printed before the war made changes in the station.

Sweden. Americans should dial on 15.15 mc. and 11.70 mc. Wednesdays and Saturdays from 8:00 to 9:00 P.M. for Sweden. Other stations and schedules are shown in our list.

Germany. Station DJC on 6.02 mc. is now used, along with DXB on 9.61 mc. from 4:50 P.M. to 1:00 A.M. next day. DJD on 11.77 mc. also is in this group, (Markuson, Col.; Graulich, N. J.; Callan, Mass.) Germany has acquired a new frequency of 11.99 mc., heard at 6:00 A.M. and in the afternoons, (Callan, Mass.) Germany heard on 9.624 mc. and 9.70 mc., new frequencies, (Oxrieder, Canal Zone). Heard on 9.70, (Bird, Del.) DXB on 9.61 mc. heard at 2:55 P.M. off schedule, (Zimpleman, Ind.)

England. The B. B. C. send us a weekly bulletin of programs, they announce an entirely different schedule and then we tune and find still another. All we can do is list stations just as they mail them to us. Our list shows the latest data sent us, but here are some reports that differ: GSL is used on 6.11 mc., 6:22 to 9:15 P.M. and also 9:37 to 12:30 A.M. along with GSA on 6.05 mc., GRX on 9.69 mc., all of which are not scheduled in the B.B.C. bulletin, Callan, Mass.) GSE on 11.68 mc. heard 1:00 P.M. to 3:30 P.M., also different, (Woodward, Mass.) Are they trying to confuse the Germans or us? GSA on 6.05 mc. heard till 1:45 A.M. (Graulich, N. J.)

Luxembourg. This new station operates three days on a frequency and then changes schedule one hour later. They use 15.35 mc. and 6.09 mc. We do not have their schedule, but suggest readers dial on 6.09 mc. between 8:00 A.M. and noon and on 15.35 mc. between 6:00 A.M. and 10:00 A.M. for the next month. They are also on 9.52 mc. and 11.776 mc. irregularly.

SOUTH AMERICA

Argentina. LRA5, Buenos Aires, on 17.83 mc. heard from 3:00 to 5:00 P.M. Fridays, (Anthony, D. C.) LRA2, 6.185 mc. is on the air some evenings 5:30 to 9:00 P.M. LRX, Buenos Aires, on 9.66 mc. heard signing off at 10:10 P.M., not 1:00 A.M. (Dement, Pa.) Note—LRX may leave the air at any hour of the day, or remain on.

Chile. CB-1174, Santiago, "Radio Houcke" relays CB-93 from 6:00 to 10:30 P.M. and is reported about once a year. CB-960, Santiago, on 9.60 heard till 10:00 P.M. instead of just 8:30 P.M. (Dement, Pa.)

Bolivia. CP5, La Paz, heard on 6.20 mc. around 7:30 P.M. (Oxrieder, C. Z.) Heard 9:00 to 11:00 P.M. once. (Legge, N. Y.)

Brazil. Some station on 8.19 or 8.20 mc. relays PSH programs 6:00 to 7:00 P.M. (Callan, Mass.) One was heard on 12.08 mc. for a time, (Fister, N.Y.) PSE on 14.94 mc. oftentimes heard around 7:00 to 8:00 P.M. PRA8, Pernambuco, on 6.02 mc. heard signing off at 9:00 P.M., not 8:00 P.M. (Bird, Del.)

Ecuador. HCODA, Guayaquil, verified by registered mail, and said 9.40, not 9.44 mc. (Stockbridge, Mass.)

Uruguay. CXA2, Montevideo, heard on 9.57 mc., close to WBOS, Boston, 5:30 to 10:30 P.M., having moved from 6.00 mc. (Waite, N. Y. and Oxrieder, C. Z.) CXA6, Montevideo, is a sister station to CX4A once on 6.14 mc. It is on 9.63 mc. (Oxrieder, C. Z.)

Venezuela. YV5RY, "La Voz de la Esfera," is on 4.76 mc., not 4.79, (Oxrieder, C. Z.) YV5RO, Caracas, is on 4.94, not 4.95 mc., and YV4RO, Valencia, is on 4.95, not 4.93 mc. (Gallagher, Calif.) A station called "Radio Caracas," heard on 10.10 around 5:25 P.M. (Dement, Pa.) Note—A harmonic of YV5RN, 5.04 mc. falls on 10.08 mc.

Colombia. The constant re-changing of call-signs, frequencies and locations of stations has made things hard to take care of. Here are some facts: HJCX, Bogota, on 4.74 mc. is using call HJ3CAX on 6.02 mc. HJFB, Manizales, on 4.76 mc. is using call HJ6ABB on 6.11 mc. yet. HJFC on 4.79 mc. is old HJ6FAI, 6ABC and 4ABC. HJDU, supposed to be on 4.80 mc. is still on 8.65 mc. (Oxrieder). Is on 4.80, (Legge). HJCD, Bogota, is still on 6.165 mc. HJCF, Bogota, is on 6.075 mc., not 4.85 mc. HJCH, formerly HJ3CAH, is on 4.89 mc. HJFC on 4.91 mc. is at Barranquilla, not Ibague. HJ4DAE, Medellin, is still on 6.145 mc. HJAG, Barranquilla, is on 6.04 mc., not 4.90 mc. (Gallagher, Oxrieder, Legge, Bird). Harmonics of many stations fall near 9.00 mc. Some are mentioned under "New Stations," here are more. HJCT on 9.63 mc. (Dement, Pa.) HJFK is on 9.74, at Pereira, (Gallagher and Oliver). HJCP, Bogota, is on 9.63, (Edwards, Pa.) HJCH, Bogota, is on 4.895, (Gallagher).

CENTRAL AMERICA

Salvador. YSP, San Salvador, is on 10.40 mc. often 6:00 P.M. to midnight, not just 7:00 to 10:30 P.M. (Bird, Del.)

Costa Rica. TIRCC, San Jose, moved from 6.55 to 6.185 mc. (Oxrieder).

Mexico. XEQQ, Mexico City, heard on 9.68 mc., heard at 1:05 A.M. after Paris signed off, (Fister, N. Y.) Heard at 11:00 P.M. (Werner, Calif.) XEWW, Mexico City, on 9.50 mc. heard till 12:35 A.M., not midnight, Graulich, N. J.) XBC, Vera Cruz, heard on 6.97 mc. at 9:00 P. M. with weather reports, (Legge, N. Y.) XBA is on 6.98—Editor.

Panama. HP5J, Panama City, moved for a time between WCAB and CB960 on about 9.59 mc. (Waite and Bird). HP5G, Panama City on 11.78 veri says 7:00 to 9:00 A.M. and 6:00 to 11:00 P.M., not 7:00 A.M. through to veri says 7:00 to 9:00 A.M. and 6:00 to 11:00 P.M., not 7:00 A.M. through to

11:00 P.M. (Stockbridge, Mass.) Member Oxrieder writes that HP5F, Colon, is on 5.05 mc., not 6.08 mc.

Nicaragua. YNPR, Managua, may operate on 7.70 mc., 7.90 mc., 8.20 mc., 8.40 mc. and 8.58 mc. The last seems to be the favorite. YNOP, Managua, moved from 5.46 mc. to 6.847 mc. (Oxrieder). YN1IP, Managua, moved from 5.46 mc. to 6.847 mc. (Oxrieder). YN1IP, Managua, heard on 7.284 mc. and veri says programs Sundays 10:00 to 11:00 A.M. (Oxrieder). Heard at 9:45 P.M. once, (Legge, N. Y.) YNLG, Leon, is on 7.66 mc. evenings and on 13.90 about every Saturday evening.

Guatemala. TGWB, Guatemala City, is on 6.41, not 6.49 mc., now, (Oxrieder). Heard on 6.43, (Gallagher). TG5JG reported on 11.44 and 11.40 mc. around midnight to 2:30 A.M. TGX-1 is on 5.855 mc. now, (Oxrieder, C. Z.)

WEST INDIES

Bahamas. ZNS, Nassau, on 6.09 mc. says 1:30 to 2:00 P.M. and 8:00 to 9:00 P.M. on veries. Was heard 7:30 to 9:00 P.M. almost daily for a time, (Waite, N. Y.) A telephone station ZFS heard on 4.51 mc. evenings.

Haiti. HH3W, Port-Au-Prince, on 9.79 mc. comes on at 6:00, not 7:00 P.M. (Edwards, Pa.) HH2S, same city, is on 5.98 mc., not 5.92, (Bird and Gallagher).

(Note—Stations COCH on 9.53 mc., HI1S on 6.42 mc., HI9B on 6.39 mc. and HI1N on 6.24 mc. all broadcast Chinese programs irregularly now, (Gallagher, Calif.)

Cuba. Some new addresses we see are these. COCW now Prado 553, Havana. COCD now Monte 103, Altos, Havana; COHI now Amado Trinidad Velasco, Santa Clara. COBS, Havana, heard on 7.78 mc. between 6:00 P.M. and midnight, (Oxrieder, Fister, Casals, Bird). Some Cuban heard on 6.36 mc. (Casals, Gallagher). COX7, relays CMZ programs on 4.29 mc. evenings, (Legge, N. Y.) COX7Z, Havana, on 4.29 mc., 6:00 to 9:00 P.M. (Villalobos, La.) COCO, Havana, moved from 6.01 mc. to 6.36 then 8.70 mc. (Bird, Del.) COCQ, Havana, on 6.36 mc. as well as 8.85, (Oxrieder, C. Z.)

Dominican Republic. HI1J, San Pedro De Macoris, is on 5.96, not 5.91, closed down at 7:35 P.M., not 10:00 P.M. (Stockbridge, Mass.) Heard on 5.957, (Oxrieder and Gallagher). HIH, Trujillo, moved from 6.78 to 6.807 mc. (Oxrieder). HI2X, Trujillo, on 11.97 mc. heard daily except Thursdays and Sundays, 5:00 to 6:00 P.M. while list shows only two days 8:00 to 10:15 P.M. (Woodward, Mass.) HI3U, Santiago, veri says daily 7:30 to 9:15 A.M., noon to 2:00 P.M. and 5:00 to 7:00 P.M. (Stockbridge, Mass.) HI2M, San Pedro De Macoris, heard on 6.99 mc. 8:00 to 8:40 P.M. (Stockbridge and Oxrieder).

NORTH AMERICA

Newfoundland. Verifications from VONG, St. Johns, says 300 watts, 5.97 mc., relay VONF. Schedule is week-days 10:00 A.M. to 2:00 P.M. and 6:00 P.M. to 11:00 P.M., Newfoundland Time (half hour ahead of E. S. T.) Broadcasting Corporation of Newfoundland, owners; P. O. Box E5372, St. Johns. Is blue map of Newfoundland, with gold lettering, (Stockbridge,

Schubert and Legge) Another said 9.745 mc. (Edwards, Pa.) Heard on 9.74 mc. around noon daily, comes on 5.97 mc. at 5:30 P.M. (Stockbridge, Mass.) Heard on 9.74 mc. till at least 10:00 P.M. (Callan, Mass.) Heard every day, (Dement, Pa.)

Boston. W1XAL, changed call-sign to WRUL and WRUW depending on what frequencies they use and whether the program is for Europe or South America. Uses L and W both on same frequencies.

Miami. W4XB has changed call to WDJM on 6.04 mc. Heard 9:00 P. M. to midnight, (Anthony, D. C.) Is heard till 1:00 A.M. (Graulich, N. Jersey).

Canada. CFCX, Montreal, on 6.00 mc. announced sign-on time as 7:45 A.M., not 9:00 A.M. (Graulich, N. J.) CJRX, Winnipeg, on 11.72 mc. broadcasts daily 4:00 P.M. to 8:30 P.M. and CJRO on 6.15 mc. from 9:00 P.M. to 1:30 A.M. now. Heard on new schedule, (Edwards, Pa. and Oliver, Texas).

Philadelphia. Member Nichols of this city reports W3XE, Philco Sound and Television station on 18.30 mc. at 9:15 P.M., but television stations are not allowed on this frequency and he must be hearing the ground wave.

San Francisco. KGEI on 9.53 mc. used midnight to 3:00 A.M. in place of on 6.19 mc. (Bird, Del.)

Hawaii. HKE on 17.95 mc. and HKQ on 14.90 mc. relay programs from KGMB Saturdays at 8:30 P.M. (Gallagher).

LATE NEWS FLASHES

The following material arrived too late to include in our regular news pages, and in some instances, corrections in the station list could not be made.

Russia. Latest list shows these new stations. One on 11.64 mc. at 3:00 A.M. daily and 6:00 A.M. Sundays and one on 15.58 mc. at 7:00 A.M. daily.

Ethiopia. IABA on 9.65 mc. has changed call to I2AA, Addis Ababa, and is broadcasting 3:30 to 5:00 A.M. and 11:00 A.M. to 2:30 P.M. daily.

Albania. ZAA, Tirana, on 7.85 mc. has changed schedule. It is 6:30 to 8:30 A.M. and 12:20 to 4:30 P.M., uses ten-note chime, (Boothroyd, England).

Iraq. Some station is on 7.87 mc., 1:45 to 4:30 P.M. using Arabic and is believed to be YI5KG, Baghdad, (Boothroyd, England).

China. XGOY, Chungking, will test on 9.50 mc., 2:00 to 3:00 A.M. and 9:00 to 9:30 A.M. for a short period of time, (Gallagher, Calif.)

Portugal. Two new stations are heard. CSW-4 is on 15.21 mc. (19.72) and CSW-5 is on 11.84 mc. (25.34 meters) 11:00 A.M. to around 3:00 P.M. (Boothroyd, England).

Yugoslavia. The latest schedule is as follows: YUA and YUB, both on 6.10 mc., are used 12:45 to 2:00 A.M., 6:30 to 7:45 A.M. and 11:20 to 4:45 P.M. YUE on 11.735 mc. and YUG on 15.24 mc. are used 6:55 to 7:55 P.M. for N. America and YUD on 9.50 mc. and YUF on 15.24 mc. are used

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8:00 to 9:00 P.M. for South America, (Boothroyd, England).

Jamaica. Amateur Valwood Vermont of VP5PZ, Chapelton, has received permission to broadcast Fridays 4:30 to 5:15 P.M. on 4.80 mc.

Portuguese Africa. CR6RC, Luanda, Angola, on 11.74 mc. broadcasts daily 6:30 to 7:45 A.M., Tuesdays, Wednesdays and Saturdays, 3:30 to 5:00 P.M., Sundays 9:00 A.M. to 1:00 P.M. Has 50 watts power. Radio Club de Angola, Caixa Postal 229, (National R. C.)

Mexico. XEQQ, Mexico City, is on 9.68 mc. with powerful signal, 7:00 P.M. to midnight in spite of Paris on same frequency, (Stockbridge, Mass.)

Dominican Republic. Tomas Casals Pastoriza of Trujillo, sends us this data. HI3C, La Romana, moved from 5.75 to 6.105 mc. HI1S, Santiago, moved from 5.93 to 6.42 mc. HI2D, Trujillo, on 6.20 mc. is used Sundays only from 2:00 to 3:00 P.M. now. HI7P, Trujillo, was on 6.76 mc. but is now off the air.

WITH THE REPORTERS

We appreciate reports, for without them we would not be able to bring readers the latest in the world of short wave radio. Therefore, we take our hats off to the following: Frank W. Stockbridge, Westboro, Mass.; Frederick Woodward, Malden, Mass.; Capt. O. B. Oxrieder, Corozal, Canal Zone; Harold B. Schubert, Britt, Iowa; Ford Edwards, Wilmerding, Pa.; Jacob Zimpelman, Wabash, Indiana; Roger Legge, Jr., Binghamton, N. Y.; H. S. G. Lowery, Hove, Sussex, England; William Edwin Bird, Jr., Wilmington, Del.; Roy Waite, Balston Spa, N. Y.; Desmond Callan, Readville-Mass.; Alvin Oliver, Houston, Texas; Chster Dement, Upper Darby, Pa.; Charles Robinson, Waterloo, Iowa; M. J. Markuson, Denver, Col.; A. Anthony, Washington, D. C.; Dr. George Villalobos, New Orleans, La.; Joseph Graulich, Arlington, New Jersey.