

THE GLOBE CIRCLER

DECEMBER 1935



Studios of 200KW Long Wave Giant "Radio Luxembourg",
Luxembourg.

ONE
DIME

INTERNATIONAL DX'ERS ALLIANCE

Here are Hearty Greetings
For a Joyous Christmastide,
And a New Year that is Happy
And a Lucky one beside.

Charles A. Morrison



1936 Radio Equipment

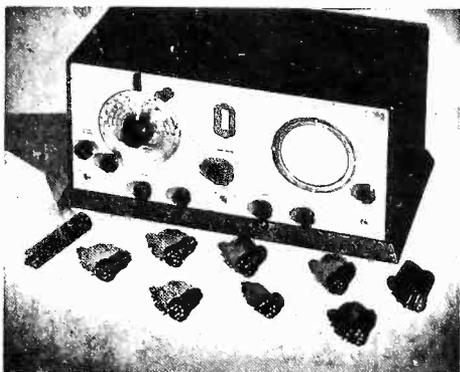
PATTERSON PR-16

Here she is — fellas! The talk of the air! Orders from all parts of the world, placed by radio enthusiasts, are being filled! Universal confidence in the yearly advancement of the PR Models has again been expressed.

Every desire for improved all-wave reception has been anticipated by Patterson engineers. Every possible improvement over previous PR Models has been made. Every worth-while new development has been incorporated. Complete, absolutely nothing else to buy.

PR-16K Console less crystal \$125.70. Chassis also available. With crystal (PR-16CK) \$131.70.

PR-16 \$95.70
COMPLETE WITH 18 METAL TUBES AND 12 HEAVY DUTY PATTERSON TRANSFORMER, SPEAKER, AND 1500 KC. WITH CRYSTAL



THE NEW SUPER SKYRIDER

Nine metal tubes . . . DuoMicro-Vernier Band-spread . . . Iron Core TF's . . . Improved Crystal Circuit . . . Five Bands 7.4 to 550 meters . . . heretofore unattainable sensitivity, selectivity and signal to noise ratio . . . Automatic volume control . . . "Low Boost" control.

Acclaimed as the most popular short wave receiver of 1935, the Hallierafter's SUPER SKYRIDER left little to be desired. You can't go wrong.

Your cost . . . \$79.50
With Crystal (Model SX9) . . . \$89.50

SARGENT MODEL 10

A complete, self-contained Communication Type All-Wave Receiver.

- Covers broadcast band
- Tuning dial calibrated in M.C.
- Adjustable, calibrated band spreader
- Coil switch for wave changing
- Doublet or regular antenna
- Supplied for any operating voltage.

Your cost model 10SA 15-550 meters. \$34.50
Your cost model 10MA 15-1500 meters. \$39.50

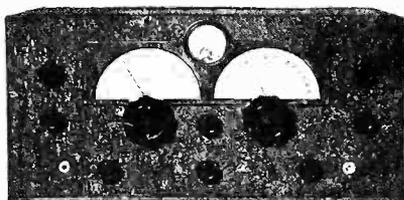
Also available in wavelength ranges from 15 to 17,000 meters.

SARGENT MODEL 20

- One stage pre-selection
- A.V.C. and Manual Volume Control
- Adjustable calibrated band spreader
- Coil switching — no plug-in coils
- Fractional microvolt sensitivity
- Razor edge selectivity.

Your cost model 20SA 15-550 meters. \$59.50

Your cost model 20MA 15-1500 meters. \$67.50



The RME-69 Single Signal Super

A real instrument for the amateur and his communication requirements. The circuit of the RME-69 will give you the type of performance you are looking for. The set is designed to operate as well on controlled carrier as it does on steady signal.

- Six band tuning
- Planetary-vernier dial mechanism
- Full electrical band spread
- Calibrated microvolt R meter tuning
- Built in monitor circuit
- Six volt tubes
- Individual Dial operation
- I.F. transformer with fixed coupling.

The RME-69 Super Receiver, complete with crystal, set of tubes. Rola speaker housed in baffle. Nothing else to buy — \$134.90.

MARINE



You are assured of uninterrupted operation with all Marine Radio Apparatus. An ironclad, unconditional guarantee absolutely protects you. Literature upon request.

General Offices and Plant
124-13 101st Avenue
RICHMOND HILL, NEW YORK

Radio Company

WORLD-WIDE DX BROADCAST CALENDAR

TIME	E.S.T.	KC/S	KW	LOCATION	CLUB	CALL
Dec. 1	Sun. 2-3am	1040	10	La Paz, Bolivia	RT	IDA & CPH
CPH, Compenia Radio Boliviana, Casilla 637, La Paz, Bolivia.						
Dec. 2	Mon. 1-2am	832	100	Moscow, U.S.S.R.	JD	IDA RW39
R. Siglin, All Union Radio Committee, Petrovka 12, Moscow.						
Dec. 3*	Tues. 12:45-1:15am	545	120	Budapest, Hungary	RT	IDA
Dec. 8	Sun. 2-3am	1250	.15	Havana, Cuba	AK	IDA CMKC
Radio Emisora CMKC, Apartado 466, Santiago de Cuba, Cuba.						
Dec. 9*	Mon. 1:45-2:30am	574	100	Stuttgart, Germany	RT	IDA
Dec. 10*	Tues. 1:20-2:00am	785	120	Leipzig, Germany	RT	IDA
Dec. 16*	Mon. 1:30-2:30am	941	12	Algiers, Algeria	RT	IDA
Dec. 17	Tues. 1-2:30am	1095	10	Madrid, Spain	ER	IDA EAJ7
Dec. 17	Tues. 1:30-2:30am	601	25	Rabat, Morocco	RT	IDA GNR
Director of PTT, Radio Maroc, Rabat, Morocco, N. Africa.						
Dec. 18*	Wed. 1-2am	1195	25	Frankfurt, Germany	RT	IDA
Dec. 20	Fri. 1-2am	904	100	Hamburg, Germany	RT	IDA
Dec. 20	Fri. 1:30-2:30am	895	10	Helsinki, Finland	RT	IDA
Dec. 22	Sun. 1-2am	1250	.15	Havana, Cuba	AK	IDA CMKC
Dec. 22	Sun. 1:30-2:30am	859	100	Strasbourg, France	RT	IDA
Radio Strasbourg PTT, Strasbourg #63, Strasbourg, France.						
Dec. 23	Mon. 1:10-2:00am	1031	60	Konigsberg, Germany	RT	IDA
Dec. 24	Tues. 1:15-1:45am	1140	7	Turin, Italy	RT	IDA ILTO
Special Program not on the E.I.A.R. network. Address: E.I.A.R., via Arsenale 21, Torino, Italy.						
Dec. 28	Sat. 1-2:30am	795	7½	Barcelona, Spain	ER	IDA EAJ1
Jan. 26	Sun. 2-4am	1010	½	Regina, Sask, Canada	RJ	IDA CHWC
Special for Australia-N.Z. sponsored by IDA Regina Jubilee Chapt. Announcements Spanish, Japanese, Chinese & English.						
(*-Tentative)		DX TIPS PERIODS				
Weekly	Tues. 6:35-6:45pm	9530	SW	Schenectady, N.Y.	ED	TIPS W2XAF
Weekly	Thurs. 11-11:15pm	1010	½	Regina, Sask, Canada	LW	TIPS CKCK
Weekly	Sat. 12:30-1am	980	50	Pittsburgh, Penn.	JS	W8XK -KDKA
Weekly	Sun. 12-12:15	640	50	Los Angeles, Calif.	FA	TIPS KFI
Weekly	Sun. 12:45-1am	1470	5	Nashville, Tenn.	CH	TIPS WLAC
FAD MEMBERS: (RT)R. Tomlinson (JD)J. DeMyer (ER)E. Roberts (AK)K. Kinghorn						
IDA MEMBERS: (ED)E. Darlington (LW)L. Westmoreland (JS)Jog Stokes.						
(FA)Frank Andrews (CH)Cappie Hadlley (RJ)Regina Jubilee.						

NEW I. D. A. MEMBERS

Carl E. Crenshaw, Los Angeles, Calif.
 E. B. Williams, Mgr. of CHWC, Regina, Sask, CANADA.
 Ernest Yardley, Calgary, Alta, CANADA
 James Matthews, Calgary, Alta, CANADA
 Stan Barrett, Invercargill, N. Z.
 R. Brown, Payncham, SOUTH AUSTRALIA.
 Lynn Holden, Los Angeles, California
 Ernest Flynn, Los Angeles, Calif.
 Albert Kovac, Los Angeles, Calif.
 Russell Du Cette, Seattle, Wash.
 Adam Sitter, Regina, Sask, CANADA.
 A. R. Johnson, Regina, Sask, CANADA.
 S. J. Barnetson, Calgary, Alta, CANADA.
 Irving R. Potts, Pres. of N. N. R. C., Newark, New Jersey.
 Frank Falkner, Ensley, Alabama.
 Orville Brown, Devil's Lake, N. D.
 H. L. Tanner, Romeo, Michigan.
 W. R. Williams, San Francisco, Calif.
 J. H. C. Houston, Viceroy, Sask, CANADA.
 J. F. Wheatley, Regina, Sask, CANADA.
 T. C. Steel, London W. C. 2, ENGLAND.
 Wilfred Woods, Calgary, Alta, CANADA.
 St. P. Kinloch, Charleston, S. Carolina
 Herbert Crinklaw, Geraldine, Mont.

Kenneth Albrecht, Hartford, Conn.
 Wm. Dutton, Regina, Sask, CANADA.
 Frank J. Ritchie, Regina, Sask, CANADA
 Harry Hales, Regina, Sask, CANADA.
 S. R. Steele, Toledo, Ohio.
 Harold R. Blomquist, Providence, R. I.
 Fred Karpen, Johnstown, Pennsylvania
 K. L. Gouker, Nennah, Wisconsin.
 Joseph Lowing, Regina, Sask, CANADA.
 Robt. Ressler, Toledo, Ohio.
 Dr. Raymond Mixsell, Pasadena, Calif.
 Hugh Huntley, Santa Monica, Calif.
 Chester M. Outhouse, Tiverton, Nova-
 Scotia, CANADA.

APPOINTMENTS

FOREIGN REPRESENTATIVE.

VENEZUELA-F. F. Anderson, Caracas.

STATE MANAGERS.

Conn. James Dunigan, New Britain.

Maine Floyd Hammond, Dexter.

Mich. Irving Goodeve, Kalamazoo.

Calif. Earl DeHaven, Los Angeles.

PUBLICITY (European Division)

Europe, A. G. Ward, London, England.

7th Dist- J. H. Hyde, Elmwood, Conn.

EDITORIAL (N.E. 7th Dist. IDA News)

S. W. Editor- Phil Robinson, N. S.

Price, \$1 a year by subscription in the United States.

International

Published Monthly Excepting July



Ax'ers Alliance

CHARLES A. MORRISON
EDITOR

VOLUME III

BLOOMINGTON, ILLINOIS, U. S. A.

NO. 11

EDITORIAL

CHRISTMAS with its tidings of good cheer has rolled around again

We wish we could send each of you a personal message of Greetings, but inasmuch as this is not possible, we do wish to extend to each of you, the warm hand of fellowship. Best Wishes! to each of you for a pleasant Christmas, and a happy, healthy and prosperous year to come.

We are indeed grateful for your loyal support and co-operation, which has been instrumental in more than doubling our membership during the past year.

As a little Christmas gift to you, we are again presenting an enlarged Globe Circler containing many interesting features. We will appreciate your reciprocation in enlisting your friends in the IDA. What could be a better Christmas gift to a radio-interested person than a year's subscription to the Globe Circler (\$1.00 anywhere) or subscription and I.D.A. membership for \$1.25 anywhere. We WISH to enroll at least 100 members before December. WILL YOU HELP US?

ABOUT CONTESTS

We plan Broadcast and Short-Wave Contests for the near future. We plan to run these as individual District Contests and no handicaps. Prizes would go to any District having at least 20 entrants in its Contest. (Special qualifications for those living in isolated foreign countries, where our membership is small). Instead of being dragged out for a long tiresome period, these would be short and snappy and brimful of peppy competition. At the close of the District Contests, we would plan to run an All-star International Handicap Contest, open only to winners in the District qualifying contests. These contests will be assured, if a sufficient number of you write us expressing your interest and willingness to enter such Contests. Any suggestions welcome. -Ed.

I. D. A. CHAPTER NEWS

TOLEDO ALPHA Chapter going strong again! Met at home of capable new chairman Robt. Ludwig, November 9th. New members, Ressler and Steele were welcomed. A singleton-eliminator Contest will be run by the Chapter. Next meeting will be held at home of Sydney R. Steele, on December 14th.

NEW YORK BETA Chapter met Nov. 9, at home of Robt. Hough, New Rochelle N.Y. DX Programs and poor reception conditions were discussed. A DX Contest is being run by the Chapt. A vote in favor of publishing the 6th Dist. bulletin again was taken. Next meeting scheduled for Nov. 30, at home of Edw. Goss, of Brooklyn.

LANSING DELTA Chapter met at the home of Mr. H. Hughes on Nov. 5th. Conversation concerned report forms, District bulletin, and poor weather conditions. Chapt. Managership will be rotated among the members.

LONDON EPSILON Chapter had its 8th meeting Sept. 24th. Rules and prizes for the Chapter's S.W. Contest were agreed upon. Members reported BCB dx'ing improving. Mr. Fred R. Glade and Mr. Homer were present, and displayed some fine photographs of Sir Malcolm Campbell's Speed races near Salt Lake City, Utah. Mr. Glade reported KSL as having S.W. Xmtr. with call KNEF.

LOS ANGELES ETA Chapter have elected Mr. Earl DeHaven, Treasurer and Mr. Louis Chavez, Secretary, of the Chapt. Local Chapt. dues of \$1 per year will be in effect so that a permanent meeting place can be rented. Many new members are being enrolled, and regular reports of Chapt. activities are featured in the California Broadcaster. L.A. Chapt. is out to make their's the largest and best IDA Chapter!

RADIO FELLOWSHIP Chapter met at the home of Mr. Ryder in Beverly Hills, and a new plan for membership was outlined, with plans for carrying the campaign on over the air discussed. DX notes from Mr. F. Andrews, and the Chapter, will be sent in to the Globe Circler each month under heading of R.F.

REGINA JUBILEE CHAPTER met Nov.

3rd. at the usual rendezvous. There was a large turn-out. Copies of the new N.E. IDA News, and Calgary Report forms were commented upon. A vote was taken to make REGINA Jubilee Chapter the largest IDA Chapter in existence by Apr. 1st, bar none. (Page L.A.ETA) J. Dickenson was appointed Chapter Contest Judge. A report on QRM elimination campaign was read. Suggestions were tendered for IDA buttons and local News bulletin. Next meeting set for Nov. 17th, same place.

CALGARY FOOTHILLS Chapt. meeting for October showed marked improvement in attendance. New report forms meeting with enthusiasm. Mr. A. Cook gave an interesting talk on Amateur activity in Calgary. Motion adopted that the Chapt. send in a collective list of new stations, best catches and notes each month. QRM subject dealt with extensively and plans made for eliminating it. Members showing keen interest in the local S.W. Contest.

CELERY CITY CHAPT. (Kalamazoo, Michigan) have formally petitioned for their Chapter under the above name, with Messrs. Phillips, Saville, Jonas, Harder and Goodeve, as Charter members. A meeting was scheduled for Nov. 9th at the home of Mr. Phillips.

GLOBE TROTTERS Chapter (Los Angeles) has been granted a Charter with eight charter members. Club address will be 1624 S. Sycamore St Los Angeles, and tentative plans call for newspaper and radio publicity. More information later.

The popular 2nd Dist. "CIRCLETTE" will be published again very soon. In order to pay for its publication 75¢ a year subscription will be charged. A sample copy of the first Issue free to any IDA member by writing Wm. Ellis, 1624 S. Sycamore St, Los Angeles, California.

We suggest all members write in to Mr. F.C. Butler, of RADEX, Conneaut Ohio, and express their thanks for the IDA page which Mr. James T. Spalding, 2710 Alford St., Louisville, Ky, capable IDA Publicity Director has been editing. --Pres.

IDA HQ is deeply appreciative of the spirit of friendliness which the N.N.R.C. has shown in making Pres. Charles A. Morrison an honorary member of this DX Club. We sincerely trust that the new yr. will usher in a new era of cordiality and friendliness between all Clubs

DISTRICT DOINGS

Chairman E.G. Gaunt announced the following allotment of countries for the British FAD; -Wm. Warner, Norway and Sweden; D.C. Stent, France -A.G. Ward, Finland, Latvia, Estonia, Lithuania; Craft, Germany, Italy and Switzerland; Gaunt, U.S.A., U.S.S.R.

Dist. 1 (Pacific N.W.) Director Wm Ansell requests the cooperation of all members in beating Dist. 7 in membership Contest, and reaching goal of 150 members by April 30th. Dist. 2 has also entered this Dist. race, making it a tri-angular competition. Starting date was Sept: 1.

Dist. 2 (California Area). Bill Ellis, Dist. Director, promises 30 new members for district by Xmas.

Dist. 3 (Rocky Mt. States) will engage Dixie District 5 in a membership duel. So far the districts are running neck and neck.

Dist. 4 (Central States) Robt. Weber, Director, promises a District bulletin, if sufficient support is accorded. Tentative plans are being made for a Chicago Chapter.

Dist. 6 (East Central States) Director John DeMyer wishes to personally congratulate Pete Peters, 7th Dist. Director, on the fine new bulletin, "North East I.D.A. News".

Dist. 7 (N.E. Canada and New England States). All members of the IDA are invited to contribute to the "North East I.D.A. News". This is a newsy, 8 to 12 page type-set DX News bulletin, containing real DX Tips and notes, as well as District news. Reserve your copy for December by sending 5¢ in coin now to E.L. Peters, Westport, Nova Scotia

BEST CATCHES

- Dist. -4 Herb Diedrich, Moline, Ill.
- 2KO, Newcastle, Australia 500w
- 3DB, Melbourne, Australia 600w
- Dist. -6 Clement Wyborski, Philadelphia, Pennsylvania. 1700w
- Cracow, Poland
- Irwin Beitman, Elyria, Ohio. 10000w
- JOIK, Sapporo, Japan 10000w
- England, W.K. Walton, Sennon P.O., Eng
- YV3RC, Caracas, Venezuela 3000w
- CMX, Havana, Cuba 650w
- CMCJ, Havana, Cuba 350w
- Dist. -7 E.L. Peters, Westport, N.S.
- PRFL, Rio de Janeiro, Brazil 10Kw

EXTRA SPECIAL RADIO NEWS OFFER

Radio News Subscription for Bona fide IDA members, \$1.25 per year, or \$1.75 in foreign countries. Good only to March 31, 1936. Send your subscriptions to Mr. S.G. Taylor, c/o TECK PUBLICATIONS, 461-8th Ave, N.Y. Be sure and give I.D.A. number.

WITH OUR MEMBERS



Glenn T. Merston,
Pueblo Colorado, U.S.A.
"Gateway to the West"

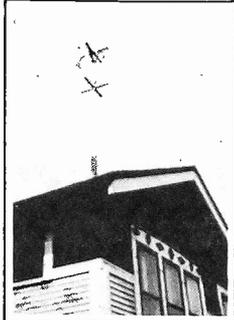
CORRESPONDENCE CORNER

Arthur Preece, 61 Lipson St., Port Adelaide, South Australia, would like to correspond with any I. D. A. members. All letters will be answered.

Ernest M. Niven, 4 Broughton St., Dunedin, New Zealand, would like to correspond with any I. D. A. members.

New National HRO going fine. Am getting a 15-watt amplifier, and special Wright De Coster speaker to go with it (Twomey-Minn)... Now have my ticket and am working phone on 1960KC until wee hours each morning, using call W2IXY (Mrs. Dorothy Hall-NY)... Acknowledging the 270 reports I have forwarded since Jan. 1935, the following Aussies will put on Thank-You Programs-Dec. 26, VK3ME, 6:45-7:15am EST; Dec. 29, VK2ME, 6:45-7:15am; Dec. 30, VK3LR, 6:45-7:15am (Amlie-Penn.)... Sun, Nov. 10, IDA HQ had the pleasure of having a FB talk with Robert Irwin of Chicago (Morrison-IDA HQ)... Interesting initial literature on "The Stamp Window, Ltd, has reached us from Ralph Schofield, Pres., P.O. Box 237, Geraldine, Montana. Those who are interested in buying foreign stamps should write for information.. Since the closing date of the contest, a few more veri's have come in making a total of 103 for 1934-35 season (W.K. Walton-Eng)... Brother Ray Stockdale, 731 Elberon Ave., Zanesville, Ohio, is very ill and will appreciate letters from any I. D. A. members (DeMyer-Mich).

MEMBERS DX REPORTS... TP's not as good as usual this fall. 1YA best. 3YA, 2BL also heard. 7NT and 3GI heard poorly (Hoxie-Maine).. TP reception weak and freakish this year. 3GI by far the best. 2CO, 2LR, 4QG, 5CK, 3LO and 1YA heard poorly (Diedrich-Ill).. Just received my 2BR veri' for report of Oct. 23, 1934. Best catches on BCB are 7LA, 300 watts, and 3DB, 600w (Westmoreland-Sask)... First hour of IDA BC from 4BC heard above terrific noise level. 3GI comes thru with a great sock. 7NT heard on their new frequency of 710KC. 4YA heard QSA/R7 testing their new 10 kW transmitter (Ansell-Sask).. BCB recept. far from good. 1YA best TP here. Nov. 8th, was best South American BC reception heard yet. They were coming in before 5pm EST. PRB9 (1017) heard well. LR3 was an R9 from 7-8. LR4, LR5, LR6 and LS2 also heard. 81 new S.W. reports out since Sept. 1st. (DeMyer-Mich).. Heard an Aussie this morning on 990KC. Think it was the new 2GZ (Beltman-Ohio).. 1YA and 3YA best TP's here. LR3, LR4, LR6, LS2, and LS4 are providing fine reception from South America (Ludwig-Ohio). 1YA only TP heard here. Best South American catch is HJLABM, Cartagena, Colombia, 1154KC, and only 500 watts. YVLR is fine (Dunigan-Conn).. No TA's or TP's as yet. LS2 coming in. Heard them sign off at 10:30pm EST (Hough-N.Y.).. European recept. erratic. Best ones are Lyons, Paris PTT, P.P., Milano, Rome, Trieste, Bari, LN, WR, LR, Athlone, Mulcher, EAJ5, Pecamp,



"Carl Whitehouse Aerial" of James Dickenson, of Regina, Canada. (to the left)

Fine Listening Post, and collection of verifications, of Robert Base, of Baltimore, Md. (to the right)



and Toulouse (Grant-N.S.) Only a few of the new Brazilian High 7 power stations appear to be in operation, although PRF4 is certainly using their listed power. LRL testing is also fine. 65 reports of last season brought 58 veri's. WCAU, WTIC, WPG, WNAC, WAAB and WBT best US stations now. Best, VONF, WOR, WABC and WBZ also heard. Best SA's are PRF4, LR3, 5, 6, LS2. Next best LRL1, 2, 4, 8, 9 and 10. LS4, 8, 9, LTL, 3, CX26, CPL and LVL, also being heard (Stansfield-England)... Europeans being heard now are Prague, Milan, Berlin, Hamburg, Radio Toulouse, Breslau, Bratislava, Konigsberg, Bari, Madona, Turin and Lille PTT; KSL heard Oct. 19, 10:30-11pm J.S.T. QSA3/R6. KSL is my first U.S. catch. It is best station heard here. Mystery, French speaking station being heard on approx. 1380kc. Is this in Indo-China or Shanghai? New veri's, XQHC and XMHA (Saito-Japan) Mystery French station heard on 1020kc, at 2am EST. Could this be Radio Rennes? (Wyborski-Penn.)... 4ZW, Dunedin, N.Z., my best catch this year (Hammond-Maine)... New French station being heard FB almost nightly sometimes to 10pm EST on 1185kc. 3GI and 2GZ heard testing. 1YA, 2BL and 4QG being heard poorly. Fecamp, Toulouse and PP good from 5:30-7pm EST. I think the contest was well supported and the results fair and square (Reichardt-Mass)... LS2 being heard back of WOAI. LR4 back of WBZ and YVIRC, amidst heavy QRM in the evening. LR5 heard once. HHK heard once. (Swenson-Ill.)... Heard 29 South American stations on Oct. 20th, between 8:30-11pm EST. Heard LRL1. What a signal. He was as good as WTAM (Birch-Mass)... My prize veri' just received. None other than PRF4, and their first report from N.A. They reprinted it in their Newspaper. Mystery S.A. being heard on 1055kc? Nov. 9th, the TA's were back again. The best ones heard were Bordeaux, Rennes, P.P., Fecamp, Toulouse, Lille, Radio Cite, EAJ1, EAJ15, EAJ7 and West Regional (Peters-N.S.)... Toulouse PTT, 776kc, testing nightly 8-9:30pm EST. Radio Nice, 1185kc testing nightly 7:30-10pm EST. Bordeaux testing frequently 8:30-10:30pm EST. Nice, 1185kc, has same program as Rennes and Bordeaux. Signs off between 6-6:30pm, with the tune, "I'm cuckoo and You're cuckoo" (words in English). When testing plays English, Spanish, French and Brazilian records. Varies record speeds. Spanish and Italian stations are best heard around 6:30pm EST. French stations best heard 5-6pm EST. Rabat and Algiers best heard at about 5pm EST. British stations heard best from 6:30-7pm EST (Walsh-Newfoundland)... The new Scott 23 is fine. OKR copied for 50 mins Sat, Nov. 9th. Toulouse, 913kc, heard 8-9pm on special test, Nov. 8. Fecamp, Bordeaux and Rennes heard with good volume on the 10th, with 6 foot of wire for aerial. On the South Americans, I have reports out to PRF4, PRG3, PRB9, CX16, CX34, CX8, CE26. LR5 almost as loud as WJZ. LR3 a nightly visitor. TP's are poor. 3GI a good signal, but 1YA still best. Still after my first Jap (Tomlinson-N.Y.).

STATIONS IN FINLAND

(A.G. Ward, British FAD.)

Lahti	166kc	40kW	1807.2meter
Oulu	431	1.2	696
Viiipuri	527	10	569.3
Pori	749	1	400.5
Sortavala	749	.2	400.5
Helsinki	895	10	335.2
Tampere	1420	.7	211.3
Turku	1429	.6	209.9
Pietarsaari	1500	.25	200.00

Lahti will be testing with 220kW soon and the power of Turku & oulu will be increased next year. Vaasa is to have a new transmitter. The stations are owned and controlled by "O.Y. Suomen Yleisradio A.B."

STATIONS IN ESTONIA

(A.G. Ward, British FAD.)

Tallin	731	10	410.4
Tartu	517.5	.5	517.5

A new Long-Wave station of 60kW is planned. Times of operation are 7-1/29 and 16,15-23 E. Europe time

STATIONS IN POLAND

(Clement Wyborski, Philadelphia)

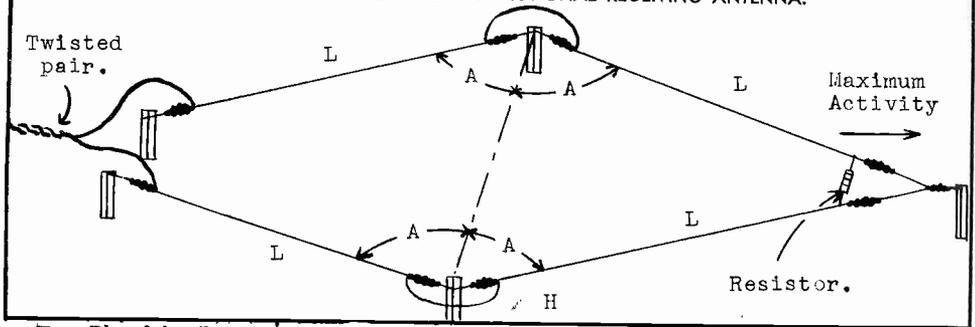
Warsaw	223kc	120kW	224
Wilno	536	16	559.7
Katowice	758	16	395.8
Lwow	795	16	377.4
Poznan	868	16	345.6
Cracow	986	1.7	304.3
Lodz	1339	1.65	224

Emilio Defillo Ramirez, of Mayaguez, Puerto Rico, has applied for a construction permit for a new station to operate with 100w, 1370kc

Experimental Japanese station J2JE, 590kc, 50kW, went off the air in October. No future schedule has been given.

Australian Class A Stations will become known as Perth National, Adelaide National, Adelaide Regional, etc, following the British example, instead of using Call Letters.

THE BRUCE RHOMBIC BEAM DIRECTIONAL RECEIVING ANTENNA.



The Rhombic Beam Antenna is a horizontal diamond-shaped aerial. In reality it comprises two "inverted-V" aerials erected horizontally.

The Rhombic Aerial, if properly constructed, will- (1) Reduce noise and fading- (2) increase signal strength enormously on those stations within the confines of the aerial's beam.

The Aerial has four equal sides. Each side is designated as "L" in the drawing. Each side is from one, to four wave-lengths long, depending upon the amount of space at your disposal. The height of this horizontal aerial above the ground, or roof top, is designated as "H" in the drawing. The GAIN of this antenna is directly proportional to the length and height factors of the antenna. Theoretically, the height of the antenna should be, at least, as high in feet as the length of the highest wave-length for which it is to be used. As such high antennas are usually impossible, the length should be as great as possible for any given height (See table below). Bear in mind that the length of a side should always be one, two, three or four wave lengths long. (Any wave length can be quickly converted into feet by bearing in mind that a meter is 39.37 inches long). The greater the length, the greater the GAIN, and the more pronounced are the aerial's BEAM characteristics.

The third factor of this aerial is its "Tilt Angle". This is the angle designated as "TA" in the drawing. The Tilt Angle has nothing to do with the length or height of the aerial. This is determined by the approximate distance of your set from that country, or countries, which you wish to receive. In other words, the angle at which the reflected Short Wave signal strikes your aerial, influences this factor. The farther the station from you, naturally the more obtuse the angle; the closer the station to you, the more acute the angle. For example, those living in the vicinity of New York would set this angle at about 72° for the reception of Europe. For reception of Asia, it would be about 80°. Try different tilt angles until you get the best signal.

The front, or beam end of your aerial, should include carbon resistances as shown in the lower right hand drawing. This reduces static. It is very important that your aerial should be pointed exactly in the direction from which you wish to receive. True directions cannot be accurately determined from a flat map. By looking at a Globe, or a great Circle Map, it will be found that actual directions are deceiving. If the Latitude and Longitude of a place is found, and then your aerial is pointed in that exact direction, using a compass to determine true directions, you will be about right.

Below Aerial dimensions are given for the ordinary Short-Wave bands.

For further details, we refer you to articles of James S. Carver in the Aug. 24 and Sept. 14 issues of the "New York Sun", October-November issue of "Short Wave Listener", and October 11 issue of "World Radio".

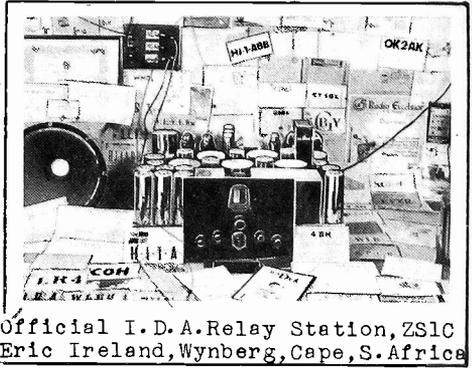
DIMENSIONS FOR RHOMBIC RECEIVING ANTENNAS									
Wave-length		Dimensions in Feet							
Meters	Feet	L	H	L	H	L	H	L	H
31.5	104	416	87	312	73	208	62	120	52
25.5	84	336	70	252	59	168	50	101	42
19.6	65	260	54	195	45	130	39	75	32
16.7	55	220	46	165	38	110	32	65	27

AROUND THE WORLD WITH THE BROADCASTERS

(N E W)

EUROPE	<u>Finland</u>	Lahti, 166kC, 220kW testing new transmitter. Uleaborg to have new 25kW transmitter by spring. Vasa to have a new 10kW transmitter by spring.	
	<u>Germany</u>	Saarbrucken (Saar) has 700watt Xmtr on 1249kC. Will be increased to 1½kW shortly and to 17kW during 1936.	
	<u>Italy</u>	Bolzano, 536kC to be increased in power to 20kW.	
	<u>France</u>	Lyons, (Radio-Lyons) 1393kC, 25kW inaugurated October 5. Lyons, (La Doua) 648kC, now using 90kW. Nice, (La Brague) 1185kC testing with new 60kW transmitter. "Dance of the Cuckoos" used as sign-off song.	
	<u>U.S.S.R.</u>	May build 2,500,000 watt Xmtr. at Chadnika (NNRC).	
ASIA	<u>India</u>	Delhi, 882kC, 20kW to be testing shortly. Madras, Calcutta and Bombay to have 20kW Xmtrs. also.	VUD
	<u>Japan</u>	Kagoshima (Hosokyoku) 1050kC, ½kW started Oct. 26th JOHG Toyama (Hosokyoku) 1060kC, ½kW testing. JOIG Gippsland Regional, Longford, near Sale, 830kC, 3GI	
AUSTRALASIA	<u>Australia</u>	came on the air with 7kW in October, 1935.	
LASIA		Orange (N.S.W.), 990kC, 2000 watts started Oct. 31st. 2GZ Bega (N.S.W.), 1470kC, 100 watts testing. 2BE Deniliquin (N.S.W.), 1440kC on the air. 2QN Katoomba (N.S.A.), 1150kC, 100 watts on the air. 2KA Burnie, Tasmania, 1390kC, reported on the air? 7BU Port Moresby, Papua, 1360kC, 100 watts on the air. 4PM Melbourne (Vict.), 1420kC, 600 watts on the air. 3XY Oakey (Qsld), 1220kC, 1000 watts on the air. 4AK Ipswich (Qsld), 1440kC, on the air. 4IP Renmark (S. Aust), 850kC, on the air. 5RM North Regional, Clevedon, 600kC, 10kW end of Dec. 4QN Northern Rivers Regional, Lawrence, 700kC in Dec. 2NR Gympie (Qsld), 1430kC, 50 watts on air in December. 4GY Bundaberg (Qsld), 1480kC, 100 w on air in December. 4BU South West Regional, Minding, 560kC, 10kW in March. 6WA Western Regional, Horsham, 580kC, 10kW in June, 1936. 3WV Central Regional, Cumnock, 550kC, 10kW in June, 1936. 2CR Goldfield Regional, Kalgoorlie, 720kC during 1936. 6GF Narrabri (N.S.W.), 1170kC, 2kW on air during 1936. 2NZ Armidale (N.S.W.), 1080kC, to be built in 1936. 2AD Inverell (N.S.W.), 980kC, to be built in 1936. 2LV Cairns (Qsld), 1470kC, to be built during 1936. 4CA Dunedin, 790kC, 10kW reported testing new Xmtr. 4YA	
C.A.	<u>Honduras</u>	Teguicigalpa, 1270kC, 100 watts relayed by HRN-SW.	HJBR
N.A.	<u>U.S.A.</u>	Gastonia (N.C.), 1420kC, 100 watts unlimited hours WJBR Rochester (N.Y.), 1210kC, 100 watts. WSAY Virginia (Minn), 1370kC, Head of Lakes Bdctg. Co. New Haven (Conn), 900kC, 500 watts. WELI Rochester (Minn), 1310kC, 100 watts. KROC Hilo, 1420kC, 100 watts. KHBC	
	<u>Hawaii</u>		
		(C H A N G E S)	
EUROPE	<u>Switzerland</u>	Sottens (Suisse Romande) 677kC, now 100kW.	
	<u>Germany</u>	Heilsberg, 1031kC, using Anti-fading aerial, 100kW. Leipzig, 785kC, using Anti-fading aerial, 120kW.	
	<u>Austria</u>	Linz, 1294kC, to go to 17kW shortly. Salzburg to have 5kW, and Innsbruck to increase to 2kW.	
	<u>France</u>	Strasbourg, 859kC, now using 100kW power. Radio Beziers, 1429kC, 1½kW, now called "Radio-Midi". Radio Normandie, 1113kC, 10kW, to move to Louvetot.	
AUSTRALASIA	<u>Australia</u>	Adelaide (S. Aust), 730kC to be increased to 7½kW 5CL Kelso, Tasmania, 7kW, frequency changed to 710kC 7NT Melbourne, 4½kW, frequency changed to 580kC 3AR	
LASIA			
N.A.	<u>U.S.A.</u>	Syracuse to Nedrow, N.Y., 570kC, ¼ to 1kW, WSYU-WSYR Detroit, Mich, 920kC, 1 to 5kW day power. WWJ Chicago (Ill), 920kC, ½ to 1kW day power. WAAP Santo Domingo, D.R., 1270 to 800kC, 1000 to 700W HIX Sault Ste. Marie, (Ont), 100w, 890 to 1500kC CJIC Guatemala City, 10,000 watts, 565 to 1210kC TGW	
C.A.	<u>Guatemala</u>		

SHORT WAVE NEWS



EST SPECIAL S.W. FEATURES EST
 Tues, Dec. 17, 8:30-9pm, YV2RC, 5.8mc
 Arranged by C.A.Morrison, S.W. Editor
 of Radio Guide for RADIO GUIDE.
 Thur, Dec. 19, 8-11pm, TIRCC, 6.55mc
 Dedicated to the I.D.A. Address re-
 ports to Sr. Amando Cespedes Merin,
 Chief Engineer of TIRCC, San Jose,
 Costa Rica. (FAD member Guy Bigbee)
 Mon, Dec. 23, 9-10pm, YNGU, 9.3mc
 Dedicated to I.D.A. & C.D.X.R.
 Address reports to Matilde Haydee Diaz,
 Radioemisora YBGU, "Alma Nica"
 Managua, Nicaragua (FAD-Guy Bigbee).

Official I.D.A. Relay Station, ZS1C
 Eric Ireland, Wynberg, Cape, S. Africa

WE URGE every S.W. I.D.A. member to send us a monthly Short-Wave report, which should arrive in this office not later than the 17th. Write legibly on One side of the paper only, double space, and please divide your items into Continents. Always state time used. New stations, changes in frequency, location or schedule are important, as are unusual receptions and tips. Suggestions for improving this dept. are welcome. M. Mickelson, of Minneapolis, Minnesota, and Edwin Hatch, Philadelphia, Penn. have been admitted into the distinguished ranks of the D.S.W. Importance of S.W. notes may be gauged by the number of STARS prefacing that item. See who can send in the most four-star (****) items.

E.S.T. NORTH AMERICA E.S.T.
Alaska WXH, Ketchikan, 2.604mc, heard nightly 10:30pm phoning other Alaskans (Walcott) ** K7DVF, F.V. Barnes, Box 297, Wrangell, heard on 7 phone band almost nightly near 2am (J. Moore).
Bermuda VP9Q, 14.144kc, Gilbert Ottaway, H.M.S. 'Scarborough', c/o F.D. O., Bermuda, uses 40 watts of power (Murray).
Canada CFU, Rosland, B.C., gives their frequency as 5.705mc on veri. (Calgary Foothills) .. Who is CJCX on 5.66mc working CFU? (Hodge) .. VE9BK, Radio Sales Service, 2190 W. 48 Av, Vancouver, 4.795mc, heard contacting CFU at 8:15pm, and broadcasting to Victoria Radio Show (Cox) * VE9CS, United Church of Canada, Vancouver, B.C. 6.07mc, 2½ watts power sked. is daily 6-7:30pm, Sundays 1:45pm to 1am Monday (Cox-Pollard) *. VE9DN, Drummondville, P.Q., 2000w, Messenger Service to 'Far North', Saturday nights 11pm-Midnight. Also over CJRO, CJRX and CRCX (Clough-Calgary Foothills)
Hawaii K6LJB, Honolulu Amateur, 14.24mc, very loud almost nightly at 9pm (Calgary Foothills) ** KKH, Kahuku, 7.52mc, relays program from KGU to CBS every Tuesday 12:30-1am (Moore) .. KIO, Kahuku, 11.68mc, heard sending Hawaiian program to U. S. Oct. 26, 1:15-2pm (Twomey) *** New S.W. relay station of KGU will broadcast regularly on 11.85mc, and 15.23mc with a power of 2000 watts.
Mexico XAM, Merida, 11.187mc, calls "Buena Mexico" and puts on beat signal preparatory to contacting XDC, Mexico City, 9.4mc, every afternoon 5-7pm (L. Miller-J. Miller-Morrison) * XDA, Chapultepec, 9.375mc heard working phone 6-7pm, Nov. 2 (L. Miller) ** XEVI, Mexico D.F. "Voice of the World", 5.97mc uses a turkey call as an interval signal, and announces as 'Radio-Mex' Sked. 8-12pm. Program for U.S. on Thurs 8-9pm. Address P.O. Box 2874 (Shanks, Butcher, Andrews-KFI, Calgary Foothills) ** XEJT (Japan, Toledo) another new Mexican on approx. 27m signs off at 7:15pm daily (Stokes) ** XEFT, "La Voz De Veracruz", "El Primer Puerto de Mexico, Ave. Independencia 28, Veracruz, Veracruz, 6.120mc (seems to be on about 6.135mc lately) relays XETF, 1220kc, from 11am-4pm, and 7:30pm to Midnight (Shanks, Johnson) ** XEUU (Or XEWU) Veracruz, relays XEU of Veracruz, 6.025mc, on irregularly. Sometimes use bugle call and chimes (J. Moore-Shanks-L.A. Chapt) .. XBJQ, Mexico D.F. 11mc, broadcasting experimentally on irregular schedules daily with 1kW (Shanks-Laul)
U.S.A. WNFT, S.S. Zimaie, owned by S.W. Donogh, granted telephone license, to communicate with coastal Harbor stations on 2.126mc .. W3XK, will relay KYW, Philadelphia, shortly.. W9XBS, 6.425mc now relaying WMAQ.

irregularly with strong signal (Hodge) .. KKQ, Bolinas, Calif., 11.95mc, relays "one Man's family", NBC to Hawaii at 8pm Thurs (Cox) * KER, Bolinas, Calif., 10.39mc, heard calling Manila at 2pm (Calgary Foothills) *** Record breaking STRATOSPHERE flight of 74,000 feet, starting 9am and ending 5:12pm, November 11th, heard perfectly over Gondola transmitter WIOXFH, 13.05mc (Bills-Cox-DeHaven-Hodges-McMenamy-Morrison) Stratosphere Cue stations for 'Full talk circuit', were WIOXF, 6.35mc; W9XF and W3XL (Cox-Morrison) **** CHINA CLIPPER, KHAGY, owned by Pan-American Air-Lines, and first regularly scheduled Trans-Pacific Air ship will transmit on 1.678mc, 2.986mc, and main frequency of 5.165mc (Emergency frequency of 8.220mc) Broadcasts will be mostly in coded C. W. groups. First flight to China should start Nov. 22, 6:30pm. Ground stations are Los Angeles KNBE, Alameda, KNBD, Honolulu KNBF, Midway KNBH, Wake KNBI, Guam KNBG, Manila KZBQ. (Andrews-KFI) Bolinas stations, KEE, 7.715mc, KES 9.48mc and KET, 10.41mc, will furnish contact control service with CHINA CLIPPER. The N.B.C. transmitter, WOEH, aboard the CHINA CLIPPER may use frequency of 12.862mc (Morrison).

W.I. CO9JQ, 8.665mc (but generally on about 8.2mc) on daily from 7-9pm. Power 150 watts, and address Rafael Grimany, General Gomez No. 4, Camaguey, Cuba. (Laul) * VRK, Stoney Hill, Jamaica, 11.595mc contacts WNC, Hialeah, Florida (Messer-Morrison) * VP2CD, Clement E. de Silva, 33 Nevis St., St. Johns, Antigua, amateur with 60 watts power, heard on 20m band around 9am (Petch) * VP2AT, A. Tibbits, Box 43, St. Johns, Antigua, on approx. 14.1mc, heard at 7pm (J. Miller) ** HIZ, Santo Domingo, D.R. now on 6.31mc nightly, but irregular hours. Generally signs off at 10pm (Shanks) * HLIJ, San Pedro de Macoris, D.R., 5.965mc, owned by Fausto M. Donastorg, Calle Anacaona Moscosco 3, P.O. Box 204, San Pedro de Macoris. Power is 40 watts. Schedule is 12:10-1:40pm, and 6:10-8:40pm daily. Sign off with "All I do is dream of You". (Shanks).

CENTRAL AMERICA

Costa Rica. TIPG, owned by Perry Girton, San Jose, (6.41) broadcasts on 625, or 1000Kc with 1kW, as well as SW. Sked. 5:30-11pm (Shanks-Twomey) .. TIRCC, Apartado 1064, San Jose, on daily from 6-7pm, Sat/Sun to 11pm., operates on 6.55mc with 1kW power, also on 1210Kc. (Swenson) ** TI4AC, amateur, son of A. Cespedes Marin, writes that TI4NRH will soon return to the air on 9.67mc (Stokes) ** TI4NRH, 9.67mc, Heredia, C.R., now on every afternoon, 5:30-6:30pm, Sundays to 7pm, power 150 watts, 5 color veri'card (NZSWC) ** New station, TI5HH, owned by Sr. Herrera Hermanos, San Ramon, 5.5mc, heard recently (P. Taylor)

Guatemala. TGX, Guatemala City, heard on both 5.95 and 5.73mc. Works irregularly, 6-midnight (Shanks)

Honduras. HRN, "Voice of Honduras", Tegucigalpa, 5.87mc, on daily from 6:30-8, 8:30-10pm, and English hour Sundays, 9:30-11pm. HRN also on the broadcast band on 1450Kc. (Shanks) ** HRF, Tegucigalpa, works WNC on 13.827mc. Address c/o TRT, H.J. Ellingson, Cia Agricola de Uluu, La Lima, Honduras. (J. Miller) *** HRP1, owned by Sr. Manuel Escoto, "El Eco de Honduras", San Pedro Sula, (6.04) (CSWRC)

Nicaragua. The new Nicaraguan on approx. 8.6mc, nightly from 7-10 pm is "Ruben Dario", YNVA, but has also been called YNBA, YNDA and YN2BA (Messer-Stokes-CDXR-Morrison) CSWRC reports it is owned by Victorino Arguello of Managua, and uses a power of 100 watts .. YNE, Puerto Cabezas, heard calling HRBW on 6.34mc, 6:15am, Nov. 11 (Morrison) ** YNGU, "Alma Nica", Apartado 295, Managua, broadcasts 12:45-2:15pm, 6:15-7:15pm, with a power of 30 watts (Diaz-YNGU) Frequency of YNGU is 9.3mc.

Panama. HP5B, Panama City, 6.03mc, heard Oct. 17, 10:15-10:45pm with DX program (Clough) ** HP5F, "La Voz de Colon", Colon, 6.08mc, and a sister station of HP5J went on the air Oct. 14th; Sked. is 11:45am to 1:15pm, and 7 to 10:30pm (CSWRC)

SOUTH AMERICA

Argentina. The Official Relay Stations of LRI, "El Mundo", Buenos Aires will be LRX, 9.58mc, and LRU, 15.29mc. These stations will have a power of 5-7½kW and will start a regular schedule soon (**** IDA HQ) ** New station LSL, 10.25mc owned by Compania Internacional de Radio, Buenos Aires was heard relaying LRI, Nov 6, 4-7pm (Miller-Messer-Koschmieder, Whitehouse) .. LSY, Buenos Aires, 18.115mc, heard calling N.Y. on Monday at 2:48pm, and sending music to WQO (J. Miller)

Brazil. PRG6, Sao Paulo, 15mc, reported testing ** PRAR, Pernambuco, on 6.05mc, now until about 7:30 or 8:30pm irregularly (Shanks).

7:30pm. KAZ, Manila, 9.99mc, heard working KER, Bolinas, 10.39mc at 2:09pm (Calgary Chapter) KAX, 19.98, and KAY, 14.98mc, testing around 8:00pm (IDA) Siberia. RVL5, Khabarovsk, 4.25mc, being heard well from 11pm on PST and from 4-6am EST on the Atlantic coast. (Shanks-Shassetz-Sholin) ** RVL5 positively can not be verified through Inna Marr of Moscow, U.S.S.R., according to a letter written to John DeMyer, Lansing, Michigan.

AUSTRALASIA

Australia. VK2DL, experimental Amateur station, owned by Mr. W. Phelps, 14 Watkin St., Canterbury, Sydney, NSW, Schedule Mon/Wed 4-6am, on 7.48mc. Reports solicited. VK2IL, Ex. Amateur station, owned by R.W. Tute, 154 Paramatta Rd., Frankton Junction, NSW, on daily 5:30-6pm, and 4:15-6am on 7.5mc. Transmits music and voice. Reports solicited (** NZSWC) * VK-2RB, R.A. Brown, Auburn, NSW, 20meter Ham, with 25 watts, heard (Calgary Foothills) * Record of Greetings of Radio Fellowship broadcast over VK3ME, Melbourne, on mail bag program Wednesday 6am (Radio Fellowship) * Sked. of VK2ME, Sydney, 9.59mc, for Dec. is Sun. 1-3, 5-9, 9-11am.

D.E.I. Daily schedules of the N.I.R.O.M. Govt. owned Javenese Network are 3:45-4:45pm, 10:30pm-1am, 6am-11am. (Jackson) * PLV, 9.415mc open their Tues/Thur 10am trans. with a series of chimes (Calgary Foothills) * PLV seems to have dropped their Tues/Thur broadcast schedule temporarily, but are calling KWV, 10.84mc, at these hours (J. Moore) * PMA Bandoeng, 19.35mc, calls Amsterdam daily 9-10am (Stokes) * PMN, 10.26mc, and PLP, 11mc, seem to be relaying the NIROM only on Sundays 6-11am now. (Walker-Aust.) * PMY, Bandoeng, 5.14mc, private station, owned by Bandoeng Radio Vereeniging, broadcasts daily 5:40pm-2:10am, 4:40-10:40am, Sat. to 12:40pm (H. Jackson) ** NEW Javenese station being heard on 9.58 or 9.59mc daily to 10am, Sat. to 11:30am. Signs off with "When you come to the end of a Perfect Day", YDA's old sign-off song. This may be commercial station PMH, 9.58mc, or YDA on a new frequency, or some new station entirely (L.A. Chapt-Moore-Sholin-Shanks) .. YCP, is New commercial station on 8.575mc, at Balikpapan (H. Jackson)

AFRICA

Belgian Congo. OPL, Leopoldville, 20.04mc, being heard at 9:45am on Sundays (** Goodeve) *** OPM, Leopoldville, 10.143mc, absolute definite schedule 2-4:15am, and 3:45-4:15pm (African Radio Announcer) * QFM, was heard Nov. 5th, 2:10-2:36am QSA/R5 working Belgium. Carrier wave on at 2:05am (Bills)

Egypt. SUZ, Cairo, 13.83mc, heard working GBB, 13.59mc, Nov. 10, 9:48-10:10am, QSA3/R7 (Bills) * SUZ heard Sun. at 9:47am. Said "S-U-Zed signing" (Ballard-J. Miller) * SUV, Cairo, 10.055mc, heard phoning near 9am. (Calgary Foothills) Address Egyptian State Broadcasting, Radio House, Sharia Elwi, Cairo, Egypt. (Sholin) corrected frequency of SULCH, Amateur is 14.01mc (J. Miller)

Ethiopia. VERIFICATIONS RECEIVED FROM ADDIS ABABA by Mrs. Dorothy Hall, New York City, and Guy Bigbee, Ft. Benning, Georgia, give AUTHENTIC data on XMTRS: 3kW transmitter located at Akaki near Addis Ababa works as ETA, 18.27mc, ETB, 11.955mc, ETD, 7.62mc, ETG, 5.88mc. ETA works CW 1am to 2pm, and ETB works CW 2-6:30pm. Telephone tests irregular, but are usually on ETA 12:30-1pm, on ETB 5-5:15pm, 5-6:30pm. Address reports to F. Hammar, Chief Engineer, P.O. Box 283, Addis Ababa. (**** D. Hall-G. Bigbee) * ETA and ETD heard (DeMyer) * ETB heard (Butcher, Taaffe, Kinloch, Morrison, Koschmidder, J. Miller)

Kenya. VQ7LO, Nairobi, 6.06mc (Actually 6.08mc) 600watts, schedule 5:45-6:15am Ex. Sat/Sun-- 11:30-2:30pm; Tues/Thur 8:30-9:30am; Sat. 11:30am-3pm; Sun. 11am-2pm. (A. R. A.) VQ7LO being heard around 5:30am (Calgary Foothills)

Morocco. CNR, Rabat, 12.83mc, being heard Sundays 9:07-9:20am broadcasting, and phoning Paris. Always put tone whistle on their carrier just before speech. Also heard on Wednesday 6-7am with special broadcast of funeral of some French General (J. Miller-DeMyer)

Mozambique. CR7AA, Laurenco Marques, 6.135mc, putting on experimental broadcasts Saturdays, Sundays 6-10am irregularly.

South Africa. ZTJ, Johannesburg, 6.098mc, daily sked. is 11:45pm-12:30am, 3:30am-7am, 9-11:30am, 12-4pm, Sat. to 4:45pm (Afr. Radio Announcer) ** ZTJ heard 3-3:45pm (Shanks) *** ZELJR, 14.04mc, Amateur Experimental station, owned by J.M. Davidson, P.O. Box 870, Salisbury, Southern Rhodesia on with musical program, and testing between 12-5am approximately on Sundays (ARA) ** ZELJR, and ZT6AC heard Atlantic coast.

SHORT-WAVE BROADCASTING STATIONS

DIAL METERS	MEGS	CALL	STATION	TIME	E.S.T.
13.93	21.54	W8XK	Pittsburgh, Penna.	7-9am.	13
13.93	21.53	GSJ	Daventry, England.	Experimental.	
14.97	20.04	OPL	Leopoldville, Congo.	4:30-6:30am, Sun 9:45am et	
15.02	19.98	KAX	Manila, Phillipines	Works Bolinas night irreg	
15.51	19.35	PMA	Bandoeng, Java.	9-10am, T/Th 10-10:30am ir	
15.93	18.82	PLE	Bandoeng, Java.	7:30pm, T/Th 10-10:30am ir	
16.23	18.48	HBH	Geneva, Switzerland.	Experimental.	
16.25	18.44	HJY	Bogota, Colombia.	Works CEC, LSR, OCI days.	
16.38	18.31	FZS3	Saigon, F. Indo-China	Phones Paris 9:30am irreg	
16.39	18.30	YVR	Maracay, Venezuela.	Works Germany mornings.	
16.42	18.27	ETA	Addis Ababa, Ethiopia	12:30-lpm irreg.	
16.47	18.22	KUS	Manila, Phillipines.	Phone.	
16.56	18.115	LSY3	Monte Grande, Argen.	Phones WQO irreg.	
16.86	17.79	GSG	Daventry, England.	9am-5pm.	16
16.87	17.78	W3XAL	Boundbrook, N.J.	8-11:30am to So. America.	
16.89	17.76	DJE	Zeesen, Germany.	Works JVG around 4:30am.	
16.91	17.74	HSP	Bangkok, Siam.	Phones Rugby 2-8am.	
17.10	17.53	VWY	Kirkee, India.	Phones S. America mornings	
17.11	17.52	DFB	Nauen, Germany.	Works ships.	
17.51	17.12	WOO	Ocean Gate, N.J.	Phones Rugby days.	
18.48	16.27	WLK	Lawrenceville, N.J.	JVB 6:30-7pm, KWU 7:30-8pm	
18.47	16.24	KTO	Manila, Phillipines.	Works Paris irregularly.	
18.50	16.21	FZR3	Saigon, F. Indo-China	Calls Asmara 5:30-7:30am.	
18.61	16.12	IRY	Rome, Italy.	Phones KWU-GMBJ 1-7pm.	
18.71	16.03	KKP	Kahuku, Hawaii	Works FZR3 morning.	
18.89	15.88	FTK	St. Assise, France.	Works PLE 7:30pm etc.	
19.16	15.66	JVE	Nazaki, Japan.	Works KWU 7:30pm irreg.	
19.21	15.62	JVF	Nazaki, Japan.	Phones Kahuku, Manila etc.	
19.45	15.42	KWO	Dixon, California.	Sunday 9-10am.	
19.52	15.37	HAS3	Budapest, Hungary.	Works JVF, KKP, KTO etc.	
19.53	15.35	KWU	Dixon, California.	Experimental. (-4pm.	
19.56	15.34	DJR	Zeesen, Germany.	2-3pm, Sat 1-3pm, Sun 10:30	
19.57	15.33	W2XAD	Schenectady, N.Y.	Relay of LRL on air soon.	
19.62	15.29	LRU	BUENOS AIRES, ARGEN	12:30-2:15am	
19.63	15.28	DJQ	Zeesen, Germany.	11am-6pm.	
19.64	15.27	W2XE	Wayne, New Jersey.	9am-N'n irr, 12:15-2pm. 19	
19.66	15.26	GSI	Daventry, England.	9:50am-12:30pm.	
19.67	15.25	W1XAL	Boston, Mass.	Heard testing 10:30am.	
19.67	15.25	RIM	Tashkent, U.S.S.R.	7-11am to Indo-China. (am.	
19.68	15.24	PCJ	Eindhoven, Holland.	Wed 7-11a, S/Su 8:30-11:30	
19.71	15.22	W8XK	Pittsburgh, Penna.	9am-7pm. (-11:30am to US.	
19.72	15.21	DJB	Zeesen, Germany.	3:45-7:15, 8-10:30am, 10:30	
19.74	15.20	GSF	Daventry, England.	6-8:45am, (10:15am.	
19.82	15.14	HVJ	Vatican City, Italy.	10:30-10:45am, Sat 10-	
19.84	15.12	RAU	Tashkent, U.S.S.R.	9:30-10:30am irregularly.	
19.85	15.104	RKI	Moscow, U.S.S.R.	Mornings irregularly.	
19.88	15.09	WNC	Hialeah, Florida.	Works C.A. & S.A. Xmtrs.	
19.92	15.06	WQG	Rocky Point, N.Y.	Experimental.	
19.95	15.04	PRG6	Sao Paulo, Brazil.	May be on air shortly.	
20.00	15.00	KAY	Manila, Phillipines.	Tests with Bolinas 8pm ir	
20.03	14.98	HJB	Bogota, Colombia.	Works WNC.	
20.08	14.93	JVG	Nazaki, Japan.	Works JIA irregularly,	
20.12	14.91	WQV	Rocky Point, N.Y.	Experimental.	
20.27	14.80	IRG	Massaua, Eritrea.	Works JVH 5-7am irreg.	
20.35	14.74	IQA	Rome, Italy.	Works JVH 6-7am.	
20.37	14.732	DFD	Nauen, Germany.	Works JVH 2am irreg.	
20.45	14.665	GBL	Rugby, England.	Phone. (-2-3pm to Europe.	
20.48	14.653	JVH	Nazaki, Japan.	5:20-11pm relays JOAK, Tue	
20.55	14.60	HBJ	Geneva, Switzerland.	Experimental.	
20.64	14.535	TIU	Cartago, C.R.	Works WNC.	
20.69	14.50	HPF	Panama, Panama.	Works WNC.	
20.69	14.50	TGF	Guatemala City, Guat	Works WNC.	
20.72	14.48	HSJ	Bangkok, Siam.	Works JVG around 4:30am.	

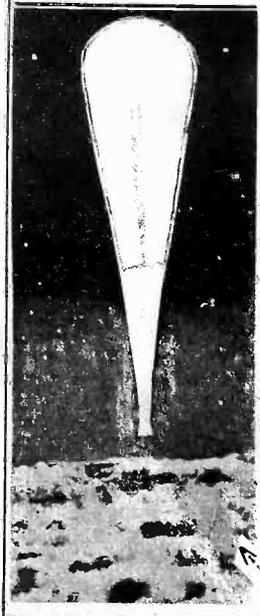
20.72	14.48	YNA	Managua, Nicaragua.	Works WNC
20.78	14.44	GBW	Rugby, England.	Phones U.S.A. daytime.
20.82	14.41	DIP	Zeesen, Germany.	Exp. to Africa.
20.83	14.40	HB9B	Bern, Switzerland.	Experimental, to N.A.
21.25	14.10	HJ5ABE	Calí, Colombia.	7-10pm.
21.37	14.04	ZELJR	Salisbury, S. Rhodesia	Sunday 12-5am approx.
21.57	13.90	WQP	Rocky Point, N.Y.	Experimental.
21.71	13.827	HRF	Tegucigalpa, Honduras	Works WNC.
21.71	13.827	SUZ	Cairo, Egypt.	Works GBB around 9:45am.
21.81	13.745	CGA2	Drummondville, Que.	Phone.
22.00	13.635	SPW	Warsaw, Poland.	11:30am-12:30pm irreg.
22.08	13.585	GBB	Rugby, England.	Works SUZ, and CGA2.
22.39	13.39	WMA	Lawrenceville, N.J.	Works London.
22.48	13.35	YVQ	Maracay, Venezuela.	Works WNC etc.
22.58	13.28	CGA3	Drummondville, Que.	Works ships and England.
22.94	13.08	VPD	Suva, Fiji's.	12:35-1:35am. Works VLK 12
23.36	12.84	WOO	Ocean Gate, N.J.	Works ships days.
23.39	12.83	CNR	Rabat, Morocco.	Sunday 7:30-9, 9-9:20am.
23.45	12.80	IAC	Coltano, Italy.	Works ships mornings.
23.47	12.78	GBC	Rugby, England.	Works ships. (1-2:15pm.
24.20	12.396	CT1G0	Paredes, Portugal.	Sun 10-11:30am, T/Th/F -
24.21	12.40	DAF	Norden, Germany.	Works ships daytime.
24.52	12.235	TFJ	Reykjavik, Iceland.	Sun 1:40-2pm, GBC 6am d'ly
24.49	12.25	TYB	Paris, France.	Tues/Thur/Sat 7-8am.
25.00	12.00	RNE	Moscow, U.S.S.R.	2-6pm, Sun 6-7, 10-11am, Wed
25.02	11.99	FZS2	Saigon, F. Indo-China	Works Paris mornings.
25.09	11.955	ETB	Addis Ababa, Ethiopia	5-5:15pm irregularly.
92 25.08	11.950	KKQ	Bolinas, California.	Relays NBC 8-10:30pm irr.
25.23	11.88		Pontoise, France.	11:15a-2:15pm, 3-6pm.
106 25.27	11.87	W8XK	Pittsburgh, Penna.	5-9pm.
25.29	11.86	GSE	Daventry, England.	6-8:45am, 9-Noon.
25.33	11.845		Paris, France.	New Radio Coloniale Xntr.
25.36	11.83	W2XE	Wayne, New Jersey.	6-8pm. (12:30pm
25.40	11.81	2RO	Rome, Italy.	8:15-9, 9:15-11am, 11:30am-
25.42	11.80	CO9WR	Sancti Spiritus, Cuba	irregular.
25.43	11.795	DJO	Zeesen, Germany.	Experimental.
25.45	11.79	WLXAL	Boston, Mass.	Tu/Th*7:15pm, Sun 5pm.
25.51	11.77	DJD	Zeesen, Germany.	Noon-4:30pm for Africa.
25.53	11.75	GSD	Daventry, England.	3-5am, 12:15-3:45pm.
25.57	11.73	PHI	Huizen, Holland.	8:30-11:30am Ex. Tu/Wed-
25.60	11.72	CJRX	Winnipeg, Canada.	7-12pm, S-4pm-lam, Sun 5pm-
25.63	11.71		Pontoise, France.	7-10pm, 11pm-lam.
25.65	11.70	HJ4ABA	Medellin, Colombia.	6:30-10:30pm.
25.68	11.68	KIO	Kahuku, Hawaii.	Works KKQ, and GMBJ.
25.87	11.595	VRR	Stoney Hill, Jamaica	Works WNC.
26.11	11.495	VLZ3	Fiskville, Australia	Works CGA4 Tues 7-8am.
26.34	11.39	HBO	Geneva, Switzerland.	Experimental.
26.80	11.187	XAM	Merida, Yuc, Mexico.	Works XDC 5-7pm irreg.
26.91	11.15	CTV	Lisbon, Portugal.	Testing 2-2:10pm daily.
27.27	11.00	XBJQ	Mexico D.R.	Testing daily irreg.
27.27	11.00	PIIP	Bandoeng, Java.	Sun 6-11am, Sat 2:30-8:30p
27.30	10.99	ZLT	Wellington, N.Z.	Works VLJ 12pm irreg.
27.68	10.84	KWV	Dixon, California.	Phones Hawaii days irreg.
27.86	10.77	GBF	Rugby, England.	Works VLK 12-2am & later.
27.93	10.74	JVM	Nazaki, Japan.	Mon/Thur 4-5pm, Fri 2-3pm.
28.12	10.87	CEC	Santiago, Chile.	7-8pm, Thur/Sun 8:30-9pm.
28.14	10.66	JVN	Nazaki, Japan.	12-1am, 4-7:40am, & irreg.
28.28	10.61	WEA	Rocky Point, N.Y.	Experimental with Europe.
28.48	10.54	JIB	Taihoku, Taiwan.	Works JVL 3am and 9am.
28.50	10.53	VLK	Sydney, Australia.	Works GBP 12-2am, VPD 12am
28.76	10.43	YBG	Medan, Sumatra.	Works Java 4:30am & 8:30p
28.87	10.39	KER	Bolinas, California.	Works Manila days irreg.
28.90	10.38	WCG	Rocky Point, N.Y.	Experimental irreg.
28.92	10.375	JVO	Nazaki, Japan.	Works JZB mornings.
28.98	10.35	LSX	Buenos Aires Argen.	Mon 6pm, Tues 8-8:15pm
29.03	10.335	ZFD	Hamilton, Bermuda.	Phones afternoon & 12-2am
29.04	10.33	ORK	Ruyssede, Belgium.	2:30-4pm.
80 29.15	10.29	DIQ	Nauen, Germany.	Contacts Rocky Point irr.

29.24	10.26	PMN	Bandoeng, Java.	Sun 6-11am.
29.27	10.25	LSL	Buenos Aires, Argen	Relays LRL evenings irreg.
29.50	10.17	RIO	Bakou, U.S.S.R.	Calls Moscow 11-12pm & irr
29.59	10.143	OPM	Leopoldville, Congo	2-4:15am, 3:45-4:15pm.
29.81	10.065	JZB	Kanjoshi, Manchukuo	Works JVO in mornings.
29.84	10.055	SUV	Abou Zabab, Egypt	GAA 3:30pm, DGU 4:30pm & 9am
28 29.87	10.042	DJJ	Zeesen, Germany	2-4pm.
30.01	9.99	KAZ	Manila, Phillipines	Tests with Dixon 10-10:45a
30.32	9.89	LSN3	Buenos Aires, Argen	Relays LRL evenings irreg.
30.40	9.87	WON	Lawrenceville, N.J.	Works GCW afternoons,
30.43	9.86	EAQ	Madrid, Spain.	5:15-9:30pm; Sat N'n-2pm.
30.50	9.83	IRM	Rome, Italy.	Phones afternoons.
30.59	9.80	GCW	Rugby, England.	Works WON afternoons.
30.75	9.76	VLJ-VLK	Sydney, Australia	ZLT at 12pm. Java 4-8am.
31.00	9.68	TI4NRH	Heredia, C.R.	Sunday 5:30-6:30pm?
6 31.09	9.65	DJT	Zeesen, Germany.	Relays DJA 5-7pm.
31.10	9.64	CT1AA	Lisbon, Portugal.	Tues/Thurs/Sat 4:00-7pm.
31.13	9.635	2RO	Rome, Italy.	12:45-1:45, 2-5:15pm, M/W/F
				6-7:30pm, T/Th/S 7:30-9pm
				Phones SUV, and USA irreg.
31.19	9.62	DGU	Nauen, Germany.	Sat 5:30-6:15pm, Mon 3:15am
31.27	9.595	HBL	Geneva, Switzerland	7-10:30pm.
31.28	9.59	HP5J	Panama City, Panama	Sun 1-3, 5-9, 9-11am.
31.28	9.59	VK2ME	Sydney, Australia.	Noon to 8pm.
30 31.28	9.59	W3XAU	Philadelphia, Penna	Relay of LRL on air soon.
31.31	9.58	LRX	BURNOS AIRES, ARGEN	6-10am, Sat to 11:30am-PMH?
31.32	9.58		Java Mystery Xmtr.	4:15-5:45, 6-8, 10-11pm. 31
31.32	9.58	GSC	Daventry, England.	3:15-7:30am Ex.Sunday.
31.32	9.58	VK3LR	Melbourne, Austral.	6am-12pm, Sun 7am-12pm. (30a
36 31.35	9.57	W1XK	Springfield, Mass.	Sun 8:30-10:30am, W, T, S 11:
31.36	9.565	VUB	Bombay, India.	12:30-2:15am, 8-11:30am,
31.38	9.56	DJA	Zeesen, Germany.	5-9:15pm. (30am, 5-10:45pm.
				12:30-2:15, 3:45-7:15, 8-11:
				5-8am, 11am-6pm. (12pm.
31.45	9.54	DJN	Zeesen, Germany.	4-12pm, Sa 1-12pm, Sun 4:15-
31.48	9.93	LKJ1	Jeloy, Norway.	4:30-6am, also heard 2pm.
48 31.48	9.53	W2XAF	Schenectady, N.Y.	4-7am except Sunday.
31.51	9.52	OKY	Skamlebak, Denmark.	3-5am, 9am-Noon, 12:15-4pm,
31.54	9.518	W3KME	Melbourne, Austral.	6-8pm.
31.55	9.51	GSB	Daventry, England.	4:45-5:45pm, Mon 4:45-6pm
				4:45-5:45pm, Mon 4:45-6pm
31.58	9.50	PRF5	Rio de Janeiro, Brz	Experimental.
31.65	9.48	KET	Bolinas, California	Experimental.
31.68	9.47	WET	Rocky Point, N.Y.	Experimental.
31.70	9.46	ICK	Tripoli, Tripolitania	works IAC 5-7am, 4:30pm &
31.73	9.45	TG1X	Guatemala, Guatemala.	
31.81	9.43	COCH	Havana, Cuba.	10am-N'N, 4-6pm, 9-10pm.
31.84	9.415	PLV	Bandoeng, Java.	Tues/Thur 10:00-10:30am et
31.92	9.40	XDC	Mexico D.F.	Works XAM 5-7pm irreg.
32.26	9.30	YNGU	Managua, Nicaragua.	12:45-2:15pm, 6:15-7:15pm.
32.33	9.28	GCB	Rugby, England.	Phones CGAH & SUV daytime.
32.72	9.17	WNA	Lawrenceville, N.J.	Phones London daytime.
32.78	9.15	YVR	Maracay, Venezuela.	Relays YV2RC Sat 8-8:30pm.
32.88	9.125	HAT4	Budapest, Hungary.	Sunday 6-7pm.
33.15	9.05	TFK	Reykjavik, Iceland.	Phones Gt. Britain daily.
33.26	9.02	GCS	Rugby, England.	Phones U.S. evenings.
33.30	9.01	KEJ	Bolinas, California	Tests with KKH, Kahuku.
33.59	8.98	VWY	Kirkee, India.	Phones Eng. early mornings.
33.71	8.90	VVD	Seattle, Washington	Calls WXY, WXE near 11pm.
34.09	8.80	HKV	Bogota, Colombia.	Thur/Tues/Sat 8-10pm irreg
34.19	8.77	PNI	Macassar, Celebes.	Phones Bandoeng 4-5am.
34.29	8.75	ZBW	Hong Kong, China.	11:30pm-1:15am, 4-10am.
34.76	8.63	HC2CW	Guayaquil, Ecuador.	8-11pm.
34.88	8.60	YNVA	Managua, Nicaragua.	7-10pm.
35.42	8.47	HCJB	Quito, Ecuador.	8:30-11:30pm except Monday
35.72	8.40	HC2AT	Guayaquil, Ecuador	8-10pm (May be off the air
36.59	8.20?	CO9JQ	Camaguey, Cuba.	7-9pm (Frequency irregular
36.65	8.185	PSK	Rio de Janeiro, Brz	Phone & irregular programs
36.95	8.12	KAZ	Manila, Phillipines	Phones Bolinas afternoons.
37.33	8.04	CNR	Rabat, Morocco, Afr	Sunday 3-5:30pm.

38.31	7.83	HC2JSB	Guayaquil, Ecuador.	7:20-11:20pm except Sunday	
38.46	7.80	HEP	Geneva, Switzerland	Sat 5:30-6:15pm & irreg.	
38.86	7.715	KEE	Bolinas, California	Phones Kahuku evenings.	
39.28	7.63	ZHJ	Penang, F.M.S.	7-9am except Sunday.	
39.37	7.62	ETD	Addis Ababa, Ethiopia	tests 5-5:30pm irregular	
39.42	7.61	KWX	Dixon, California.	Phones Kahuku nights.	
39.70	7.56	EABAB	Tenerife, Canarias	Mon/Wed/Fri 3:30-4:30pm.	
39.87	7.52	KKH	Kahuku, Hawaii.	Works KWX evenings. (Europe	
39.92	7.51	JVP	Nazaki, Japan.	Mon/Thur 4-5pm and works-	
40.00	7.50	VK2IL	Frankton Junct, Aust.	5:30-6pm, and 4:15-6am.	
40.11	7.48	VK2DL	Canterbury, NSW, Aust.	Mon/Wed 4-6am.	
40.54	7.40	HJ3ABD	Bogota, Colombia.	7-11pm Ex. Sun (1kW soon)	
40.54	7.40	WEM	Rocky Point, N.Y.	Works Rugby.	
40.60	7.39	ZLT	Wellington, N.Z.	Phones Sydney.	
40.65	7.38	XECR	Mexico, D.F.	Sunday 6-7pm.	
41.21	7.28	HJ1ABD	Cartagena, Colombia	7:30-9:30pm except Sunday.	
41.80	7.18	CR6AA	Lobito, Angola, Afr.	2:45-4:45pm.	
41.96	7.15	HJ5ABG	Cali, Colombia.	Will be on air shortly.	
42.08	7.14	PZH	Paramaribo, D. Guiana	until 5pm on Mondays.	
42.16	7.12	HB9B	Bern, Switzerland.	Mon/Thur/Fri 3-5pm.	
42.25	7.10	HKE	Bogota, Colombia.	Tues/Sat 8-9pm.	
42.40	7.08	VP3MR	Georgetown, B. Guiana	Mon/Wed/Sat 6:45-7:45pm.	
42.74	7.02	VP5MK	Kingston, Jamaica.	Saturday 5-5:30pm.	
42.83	7.00	VK3ZX	Caulfield, Austral.	Sundays 12:30-2am.	
43.23	6.935	WEB	Rocky Point, N.Y.	Works Paris.	
44.03	6.81	HIH	San Pedro, D.R.	6:30-12pm irr; Sun 3-4:30am	
44.12	6.80	HCETC	Quito, Ecuador.	8:30-10:30pm.	
44.44	6.75	JVT	Nazaki, Japan.	4-7:40am.	
44.57	6.725	WQO	Rocky Point, N.Y.	Experimental.	
44.71	6.71	TIEP	San Jose, C.R.	7-12pm except Sunday.	
44.96	6.672	YVQ	Maracay, Venezuela	Sat 8-9pm & irreg. (11:15pm	
45.00	6.66	HC2RL	Guayaquil, Ecuador.	Sun 5:45-7:45, Tu 9:20-	
45.31	6.62	PRADO	El Riobamba, Ecuador	9:20-11:40pm Thursday.	
45.54	6.59	HI4D	Santo Domingo, D.R.	4:40-7:40pm except Sunday.	
45.80	6.55	TIRCC	San Jose, C.R.	6-7pm; Sun/Thur 6-10pm.	
<u>97</u>	46.01	YV6RV	Valencia, Venezuela	4:40-9:30pm.	
46.23	6.49	HJ5ABD	Cali, Colombia.	7-10pm Ex. Sunday.	
46.51	6.451	HJ4ABC	Ibague, Colombia.	7-10pm.	
<u>117</u>	46.60	HJ1ABB	Barranquilla, Colom	6-10pm Ex. Sun; Sat to 12pm.	
46.70	6.425	W9XBS	Chicago, Illinois.	Relays WMAQ irregularly.	
46.70	6.425	VE9AS	Fredericton, N.B.	Thur 10:30pm-1:30am & irr	
46.69	6.425	W3XE	Boundbrook, N.J.	Ex. Cue station for N.B.C.	
<u>105</u>	46.80	6.41	TIPG	San Jose, C.R.	5:30-11pm.
47.06	6.37	YV4RC	Caracas, Venezuela.	11-1:30pm, 5-10pm Ex. Sunday	
47.39	6.33	YV13RV	Valencia, Venezuela	On the air shortly.	
47.50	6.31	HIZ	Santo Domingo, D.R.	5-6pm, and sometimes to 10p	
48.15	6.23	OAX4G	Lima, Peru.	9-11pm; 9-12pm on Saturday	
48.23	6.22	HJ2ABA	Tunja, Colombia.	8-10pm.	
48.40	6.198	CT1GO	Paredo, Portugal.	7:20-8:30pm; Sun 11:30am-1p	
48.50	6.19	H11A	Santo Domingo, D.R.	6:40-9:40pm except Sunday.	
48.62	6.17	HJ3ABF	Bogota, Colombia.	7-11pm except Sunday.	
48.70	6.16?		Colombo, Ceylon.	7:30-9:30am irregularly	
48.78	6.15	YV3RC	Caracas, Venezuela.	4:30-10pm.	
48.78	6.15	CSL	Lisbon, Portugal.	7:15am-12:25pm. (-4:15pm.	
48.78	6.15	C09GC	Santiago, Cuba.	9:30-10am, 12:45-1:30pm-330	
48.82	6.145	HJ5ABC	Cali, Colombia.	8-11pm. (10:30pm.	
48.83	6.144	CJRO	Winnipeg, Canada.	7-12pm, Sat 4pm-1am, Sun 5-	
48.86	6.140	W8XK	Pittsburg, Penna.	9pm-1am.	
48.90	6.135	HJ1ABH	Cienaga, Colombia.	Heard 10-11:30pm.	
48.90	6.135	CR7AA	Laurencó, Mozambique	Sat/Sun 6-10am irreg.	
48.94	6.13	ZGE	Kuala Lumpur, FMS	Sun/Tues/Fri 6:40-8:40am.	
48.94	6.13	COGD	Havana, Cuba.	6-12pm.	
48.94	6.13	TGX	Guatemala, Guat.	6-12pm irreg (New Freq.)	
49.02	6.12	ZEP	Bulawayo, S. Rhodesia	Tues/Fri 1:15-3:15pm.	
<u>84</u>	49.02	6.12	W2XE	Wayne, New Jersey.	6-11pm.
49.02	6.12	XEFT	Vera Cruz, Mexico.	11am-4pm, 7pm-12pm.	
49.02	6.12	ZGR	Alor Star, Kedah, FMS	reported on the air. (-pm.	
49.05	6.117	HJ1ABE	Cartagena, Colombia	7-9pm, Monday DX 11:10-1210	

49.10	6.11	HJ4ABB	Manizales, Colombia	Tues/Fri 8-10pm & irreg.
49.10	6.11	GSL	Daventry, England.	2:15-4, 4:15-5:45, 10-11pm.
49.10	6.11	VUC	Calcutta, India.	M.8:05-9:05a; Wd 10:35am
49.18	6.10	W3XAL	Boundbrook, N.J.	Mon/Wed/Sat 6pm-lam
90 49.18	6.10	W9XF	Chicago, Illinois.	Sun/Tues/Thur/Fri 9pm-2am
49.20	6.097	ZJT	Johannesburg, S.Afr	11:45pm-12:30am, 3:30-7, 9-11:30am, N'n-4pm, Sa to 445
94 49.26	6.09	CRCX	Bowmanville, Ont	5:30-11:30pm, Sun 1-9pm.
49.31	6.083	VQ7LO	Nairobi, Kenya, Afr	5:45-6:15am Ex. Sat, Sun etc
49.34	6.08	HP5F	Colon, Panama.	11:45am-1:15pm, 7-10:30pm.
49.34	6.08	HJ4ABC	Pereira, Colombia.	Heard around 9-9:30pm.
49.34	6.08	CP5	La Paz, Bolivia.	8-9:30pm.
49.34	6.08	W9XAA	Chicago, Illinois.	Sun 11am-9pm.
49.42	6.07	OER2	Vienna, Austria.	9am-5pm, Sat 9am-6pm.
49.42	6.07	HJN	Bogota, Colombia.	6-9:30pm.
49.42	6.07	VE9CS	Vancouver, B.C. (2w)	6-7:30pm, Sun 1:45pm-1am.
49.46	6.065	HJ4ABH	Manizales, Colombia	6-7:45pm.
49.50	6.06	HJ4ABD	Medellin, Colombia.	7:30-11pm irreg.
49.50	6.06	OXY	Skamlabeck, Denmark	1-7pm, Sun 11am-7pm.
103 49.50	6.06	W3XAU	Philadelphia, Penna	9-11pm. (8pm, Sat 11pm-3am Su
49.50	6.06	W8XAL	Cincinnati, Ohio.	6:30am-8pm, 11pm-2am, Sun 8-
49.50	6.06	HJ4ABL	Manizales, Colombia	7-10pm.
106 49.59	6.05	GSA	Daventry, England.	6-8pm.
49.60	6.048	PRAS	Pernambuco, Brazil.	3-7:30, or 8pm irreg.
49.67	6.04	HRP1	San Pedro Sula, Hon	Heard around 9:45-10:20pm
109 49.67	6.04	WLXAL	Boston, Mass.	Sun 5-7pm, Tu/Th 7:30-9:30p
49.67	6.04	W4XB	Miami, Florida.	N'n-2pm, 5:30-12pm.
49.67	6.04	HJ1ABG	Barranquilla, Colom	6:30-10pm except Sunday.
49.75	6.03	HP5B	Panama City, Panama	7-10:30pm. (pm.
49.75	6.03	VE9CA	Calgary, Alta, Can.	9am-12pm, Th-2am, Sun N'n-12
49.78	6.025	XEUW	Vera Cruz, Mexico.	7-12pm relaying XEU.
49.83	6.02	CQN	Macao, China.	Mon/Fri 3-5am.
115 49.83	6.02	DJC	Zeesen, Germany.	N'n-4:30pm, 5-10:45pm.
49.88	6.015	HJ3ABH	Bogota, Colombia.	4-11, Sun 4-9pm. (pm-12:15am
118 49.92	6.01	COCO	Havana, Cuba.	9:30am-1pm, 4-7pm, Sat 11:30
49.90	6.01	ZHI	Singapore, S.S.	Mon/Wed/Thur 6-8:30a, Sat 10:40pm-12:10am.
49.95	6.005	VE9DN	Drummondville, Que.	Sat 11pm-Midnight.
49.95	6.005	HJ1ABJ	Santa Marta, Colom.	7-9pm.
50.00	6.00	XEBT	Mexico, D.F.	10am-1:15am next day.
50.00	6.00	ZEC	Sallsbury, S. Rhodesia	Tues/Fri 1:15-3:15pm.
50.00	6.00	TGWA	Guatemala, Guatemal.	Testing near midnight.
50.04	5.995		Tananarive, Madagascar	3-3:45am, Sun 2:30-4am.
50.04	5.995	WXE	Anchorage, Alaska.	Calls WVD near 11pm. (12pm.
50.17	5.98	HJ2ABD	Bucaramanga, Colom.	7:30-9:30pm irr. Hams 11pm-
50.17	5.98	HIX	Santo Domingo, D.R.	Tues/Fri 8:10-10:10pm.
50.25	5.97	XEVI	Mexico D.F.	8-12pm.
50.51	5.94	TG2X	Guatemala, Guatemal.	4-10:30pm.
26 50.59	5.93	HJ4ABE	Medellin, Colombia.	6-11pm.
50.93	5.89	JIC	Taihoku, Taiwan.	Works JVV around 8:15am.
51.02	5.88	YV8RB	Barquisimeto, Venez	5:30-9:30pm. (9:45-11pm.
51.11	5.87	HRN	Tegucigalpa, Honduras	6:30-8, 8:30-10pm, Sun-
51.11	5.87	HJ2ABC	Cucuta, Colombia.	6:30-9pm except Sunday.
51.15	5.865	H11J	San Pedro, D.R.	12:10-1:40pm, 6:10-8:40pm.
51.28	5.85	WOB	Lawrenceville, N.J.	Works ZFA nights.
47 51.28	5.85	YV5RMO	Maracaibo, Venez.	5:15-10pm except Sundays.
51.37	5.84	HCK	Quito, Ecuador.	Evenings irregular.
36 51.46	5.83	TIGPH	San Jose, C.R.	7-10pm except Sundays.
51.46	5.83	JZC	Kanjoshi, Manchukuo	Works JVV Tokyo.
60 51.72	5.80	YV2RC	Caracas, Venezuela.	5:15-9:30pm.
51.81	5.79	JVU	Nazaki, Japan.	Works JZC (12pm.
51.90	5.78	OAX4D	Lima, Peru.	Wed/Sat 9-11:30pm, Sat to -
52.32	5.73	JVV	Nazaki, Japan.	Works JIC around 9am.
52.45	5.72	YV1ORSC	Tachira, Venezuela	5:30-12pm irreg.
80 52.58	5.705	CFU	Rossland, B.C.	Works CFO, VE9BK, CJCX etc.
54.55	5.50	TI5HH	San Ramon, C.R.	8-10:30pm irreg (CSWRRC)
65.22	4.60	HC2ET	Guayaquil, Ecuador.	Wed/Sat 9:30-10:45pm.
70.65	4.25	RV15	Khabarovsk, Siberia	1-9am.

Strato Record



PATTERSON SCORES AGAIN..

L. A. Radio Operators Hear 'Strato' Fliers From Sky

It was a Patterson PR-10 that succeeded in receiving signals from the Stratosphere balloon piloted by Commander Settle in Nov, 1933 after other operators had completely lost the contact.

It was the NEW PATTERSON PR-16 that succeeded in receiving the entire transmissions from WLOXFH tiny 8 watt transmitter aboard "Explorer II" as it climbed to a New Record altitude of 74,000 feet on November 11th, 1935.

This remarkable reception was achieved at the Reception Post of I.D.A. Member Walter McMenamy, (DX Radio Sales Co.), of Los Angeles, California.

The "Los Angeles Evening Herald and Express" in giving feature prominence to this feat states that "the voices came in particularly clear at McMenamy's Post. Conversations between Stevens, and Anderson in the Gondola could be heard even when they were talking in an under-tone and not directly into the microphone.

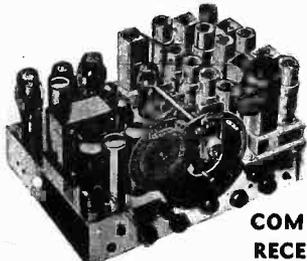
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