

THE GLOBE CIRCLER

JUNE 1935



ONE
DIME

INTERNATIONAL DX'ERS ALLIANCE

VOICES OF THE EAST

SHORT WAVE STATION 2RO

THE STRATOSPHERE ASCENT

FOREIGN HAM FREQUENCIES

U. S. SW COMMERCIALS

APPOINTMENTS

We are pleased to announce the appointment of Mr. Hagop Kouyoumdsian, of Baghdad, as IDA Official Representative for IRAQ.

E.L. Peters, announces the Appointment of Lloyd G. Holmes, of Chatham, as Provincial Mgr. for New Brunswick, Canada.

J.T. Spalding, IDA Publicity Director, has added Mr. A. L. Hynes, of Clarendville, Nfld., to his staff.

Mr. John Clark has been appointed Asiatic Short Wave Editor of the Globe Circler.

THE RANDOLPH-IDA DX TROPHY CONTEST

Revised Standings of Leaders

W.K. Walton (England)	4800
Charles Hesterman (Sask)	4725
Warren Reichardt (Mass)	3665
R.T. Coales (England)	2695
Howard Eck (Michigan)	2480
R.H. Tomlinson (New York)	1845
Fred Crowder (England)	1535
R. Hunt (California)	1422
R.S. Swenson (Illinois)	1288
F. Farr (England)	1211
J.L. Sullivan (New Zealand)	1041
R.F. Thompson (England)	985
G. Haylock (England)	935
John Shanks (Tennessee)	882
R.W. Schofield (Montana)	791
Robt. Hough (New York)	765
R.A. Stansfield (England)	715
Dr. H. Jacobs (New York)	555
A.G. Cutts (England)	535
Alan Walker (New Jersey)	475
A.C. Lyell (S. Africa)	1260

Final Contest entries must be mailed to your Contest Judge bearing a Post Mark not later than August 31st, 1935. DO NOT DELAY!

SPECIAL DEGREES

TP DEGREE:

Clement Wyborski, Philadelphia, Pa
Elwin T. Smith, Harrah, Washington.
NOTE: We shall be happy to confer the above degrees upon receipt of the usual 50¢ fee for certificate. As it is impossible to keep all Logs up to date at HQ, will Directors and Representatives, please forward names of any members eligible for our Degrees?

CONDOLENCE

Our most sincere sympathy goes out to Charles Richardson, of Elkhart, Indiana, in the recent loss of his mother, and to Louis McVey, of Sparrows Point, Md., in the recent loss of both his mother and sister

INDIA IDA MEMBERS HONORED

It is quite a significant honor that in the "Indian Radio Amateurs League", which has recently been organized, IDA member, D.R.D. Wadia, was chosen as President, and IDA member, H.J. Dent, as Vice President. Our congratulations to both. The league was formed to cultivate interest in the science of radio reception and transmission in India.

EST WEEKLY DX TIPS PERIODS

Tues 5:35-5:45pm (E. Darlington)

W2XAF 9530kC S.W. MAIL BAG

Thur 1-1:15am

W9XBY 1530kC DX TIPS.

Sat 12:15-12:30am (L. Westmoreland)

CKCK 1010kC DX TIPS.

Sat 11:01-11:30am (Stokès-Lips)

KDKA & W8XK KDKA DX CLUB.

Sat 2:30-3:00am (Frank Andrews)

KFI 640kC AROUND THE WORLD

Sun 12:45-1:00am (M. Mickelson)

WTCN 1250kC LET'S DX.

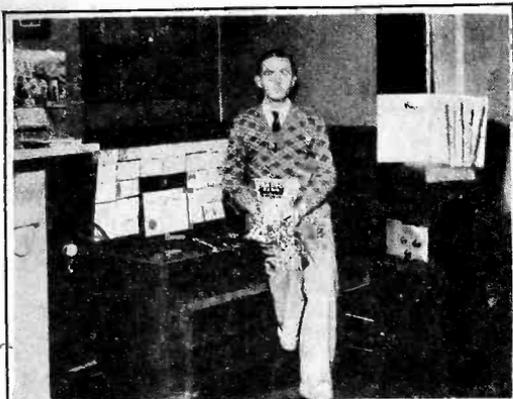
Our sincere thanks to First National Television Station, W9XBY, for the splendid publicity they have been giving the I.D.A. recently.

WORLD RADIO RESEARCH LEAGUE NOTES

One of the signal successes of the WRRL, up to date, has been its elucidation of the problem of "The Interaction of Radio Waves". Notable progress has also been made in the "problem of delayed Echoes". The complete and fascinating story of this young, but influential Scientific Organization will be told in full in the W.R.R.L. Handbook now in preparation. This book which will be called "Propagation of Wireless Waves", will contain all the elementary facts and WRRL problems. All IDA members are again urged to join the WRRL at once. Write to Ralph Stranger, Hon. Sec. of the W.R.R.L., Broadcasting House, London, England. There is no fee.

BRITISH IDA SHORT WAVE CONTEST

The annual and spirited struggle for the coveted British S.W. Trophy began on May 1st. An entrance fee of 1/- is charged for which additional Cups, and Diplomas are to be bought. The Contest closes on Oct 15th. Both foreign Amateur and SW broadcasting stations are eligible outside of the European Continent. All reports for veris must be posted within 24 hours of reception - Last year Mr. Wm. Warner won the Contest with 70 Short Wave veris.



R. T. Coales, Southsea, England

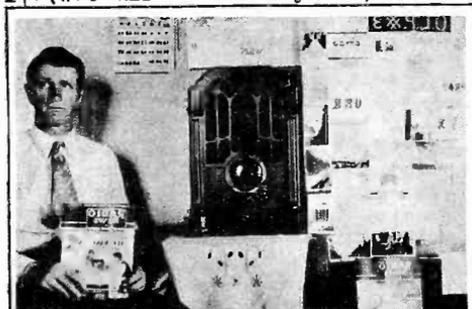
"If at any time, I can be of any service to either the President or to the Alliance as a whole, you may rest assured that I will be only too glad to help" (E. S. Darlington-W2XAF)... Latest veri's XECR, JOBK1, HPIA, LU IDA, HH5PA, G5ML. Going to Holland, Mich. Sunday to see the three million tulips in blossom over the eight miles of streets. (J. DeMyer-Mich)... I finally landed a REAL authentic veri' from JOAK1 (R. Hunt-Calif) Have 4 veri's from each Continent, and veri's from Gt. Brit, France, Holland, Germany, Hungary, Portugal, Italy, Vatican, Russia, Belgium, Spain, Egypt, Kenya, Transvaal, Rhodesia, S. Africa, N. S. W., Victoria, Colombia, Venez, Ecuador, USA, Straits Settlements, Java Malay States, India, Japan, Siam, Penang, Burma, Sumatra, Ceylon and China (SW's) (H. Dent-India)... "I am pleased to be made a member of your famous Alliance, and I assure you your courtesy is appreciated" (R. Heintl-RMA-Washington, DC)... I will be in Washington D. C. all summer (H. Eck-Mich)... From Nov. to Feb. I heard 4TO, 3DB, 3KZ, 3AW, 2K0, 3GL, 2WL, 3WR, 2HD, 3BO, 2GN, 2YC, 1YX and 4YO on my 1925 TRF Dry Cell set (H. Diedrich-Ill)... After a 1½ yr's absence we are glad to welcome back an IDA Charter member. (H. Wheeler, Wis)... BC Veri's for the season total 19, including XENT, WIOD, WLAC, WAAB, etc. (Haylock-London)... Have nine SA Veri's YVIRC, HJN, CX26, CP4, LRL4, 5, 6, LS2 and HJLABA (Base-Md)... Several mornings I have heard a Spanish station on 990 after WBZ signs off. They leave the air at 1:15am with Ted Lewis's "Good Night" melody. IRL4? (Reichardt-Mass)... I may take a holiday in London, and would be glad to meet IDA members at c/o Mr. Richard Fox, 22, Bruce Castle Road, Tottenham, London N. 17. (W. Caulfield-Canary IIs)... Strong Spanish station on 903kc early in evenings? (Peters-NS)... Any member interested in making an outfit for receiving code messages, write me (A. Deterly, 125 E. Blvd, Baton Rouge, Louisiana)... Mrs. Rice and I have just returned from our Honeymoon in Latin America, and wish to express our Appreciation for printing our Announcement in the GC (Jack Rice-Fla.)... Now have 35 countries verified on the BCB (Sullivan-NZ)... BCB reception from US nothing; S. A. good; Europe, difficult, account of local QRM; S. W. Reception, fair (A. C. Lyell-Johannesburg-S. Africa.)

-Correspondence Corner-
J. H. Miller, 2436 E. 22nd St., Brooklyn, N. Y., would like to correspond with all foreign Dx'ers.
Mrs. J. A. Weaver, 370 Central Park West, New York City, would like to correspond and exchange stamps with other members.

Floyd Hammond, Pleasant St, Dexter, Maine, wishes to correspond with members in Asia, Africa, etc.
Clifford Drain, 617 Camden St., Parkersburg, W. Va. Making an IDA Directory which will later be for sale at a small fee, and he wants to hear from EVERY member giving YOUR name, address, total verified log, best catches, type of aerial. Whether interested in Short Wave or Broadcast Dx, etc.



Clifford Drain and Sister



R. C. Messer, S. Portland, Maine

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. 6

EDITORIAL

Following our annual custom, we will not publish a July Globe Circler. The next Globe Circler, the August, or Midsummer edition will be mailed on August 1st.

The omission of the July Globe Circler does not indicate any lack of material, as the International Dx'ers Alliance is an All-wave, year-round Organization. Our misfortune has been to find sufficient space for the wealth of interesting, and valuable material which is always available, but never to find data to fill our pages.

It is absolutely necessary that your President take a month's vacation to rest and recuperate, as well as to formulate future expansion plans, and policies of the I.D.A., and the Globe Circler.

Due to the heavy, and very exacting nature of the work of directing the affairs of the I.D.A., publishing the Globe Circler, and compiling various other radio columns a period of rest becomes essential.

In order that we may get any correspondence of immediate urgency, which may be on hand, answered before June 1st, it will be necessary to forego the pleasure of answering ANY correspondence that is not urgent. We appreciate each card and letter written, and we know that you will understand why, if you do not receive a personal answer. We will appreciate receiving your tips, reports, and data the same as usual, but we will not be able to answer any correspondence between June 1 and July 1.

ENROLLMENTS OF NEW IDA MEMBERS, and any IMPORTANT and URGENT Official communications requiring an answer will be taken care of by the Executive Secretary. Mail requiring an answer, should be addressed to the Executive Secretary, Bloomington, Ill., and plainly marked, "Answer required".

It is our responsibility to strive to continually increase our service to you and to make the IDA

and the Globe Circler increasingly useful. In order that we may be able to do this to the best advantage, we wish to solicit your CONSTRUCTIVE suggestions for improving the IDA, and the Globe Circler.

Further, we do not expect the IDA to show a profit, but it is absolutely essential that it be self-sustaining at all times. In order that this condition may hold true with our constantly mounting expenses, we solicit your suggestions on increasing the clubs reasonable revenue. We would like every member to write us some time during the summer, outlining your suggestions plainly, and briefly, in a separate letter from anything else, and plainly mark the envelope "Suggest ions".

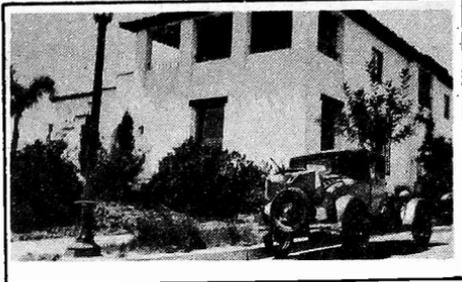
LONDON EPSILON CHAPTER

The fourth meeting of the London Chapter took place on Tuesday, April 16, at "Chequers" Restaurant, 45, Essex St., Strand, London W.C.2. The choice of rooms was approved and the next meeting was scheduled for the same address, May 21st. K. Judd discussed the rules of the Short-Wave Contest. Mr. Blaber produced the printed rules for the "Component Exchange" proposed at the last meeting, and also announced that he had been able to arrange a further visit to the Radio Dept. of the Post Office Research Station at Dollis Hill. It was decided the cost of hiring the room should be shared equally by all members. The improvement in Medium Wave conditions, and the vagaries of S.A. reception, formed one of the principal topics of conversation.

PCJ PROGRAM NOTICE ARRIVES TOO LATE

Just two hours after the Broadcast had ended, a letter arrived at HQ announcing that a Programme for the IDA would be transmitted over PCJ-PHI on May 18th, 8:30-10:20am EST. We sincerely regret missing the broadcast and being unable to inform you concerning it.

I. D. A. CHAPTERS



IDA RADIO FELLOWSHIP in View Park
Overlooking Los Angeles

RADIO FELLOWSHIP MARCHES ON

Very encouraging news reached us concerning RADIO FELLOWSHIP Chapter from Chairman, M.H. Ryder, and Sec., Frank D. Andrews.

The architect's plans are completed, and it is hoped to break ground shortly for the new Club House out in the Baldwin Hills.

The membership of the Chapter has now reached 60, and Dr. Lee de Forest has been nominated Honorary Chairman of the Chapter. Support is being given the Chapter by the Newspapers, Radio Stations, Calif. Tec. and many other sources.

The present Club House of IDA RADIO FELLOWSHIP is in View Park, overlooking the city of Los Angeles, and it is so high that it is possible to work any point within 50 miles on 5 meters. Frank Andrews hopes to put his "Around the World -Dx Chat" on from the Club House and have it relayed via 5 meters to KFI. FB phone transmitters are to be installed in the Club House, and it is hoped to broadcast the Chapter meetings via Ham channels occasionally, so that IDA HQ, and other members may listen in. Melvin Wood and Don Wallace well-known Hams are in the Club. SW reception of London was R9, no QRM at the Club House, while it was very poor in Beverly Hills at the same time.

W. McMenamy made an FB recording of the IDA-NYSWC Broadcast from W2XAF.

Frank Andrews is in entire charge of arranging and coordinating all broadcasts for FOREIGN TRADE WEEK.

(NOTE: While it is not possible for every IDA Chapter to emulate RADIO FELLOWSHIP on such a broad scale, we trust that the enthusiasm and activity may be a challenge to every one of our Chapters-(Pres.).

REGINA JUBILEE ORGANIZED

At an enthusiastic meeting of IDA members in Regina, Saskatchewan Canada, on May 6th, REGINA JUBILEE CHAP. of the IDA was brought into existence. Eight members were present, and W. Ansell was elected Chairman, and Lloyd Westmoreland Secretary. Signing the petition for an Official Charter were Messrs. Ansell, Westmoreland, Hodges, Kohl, Newton, Thomson, Dickinson, Hodges. The next meeting will be held on June 2, and plans are being made for at least two dozen dx'ers. A general resolution was adopted re: the initiation of a movement to suppress local QRM in Canada. (This has our utmost support. More later-Ed).

KALAMAZOO CHAPTER ASSURED

Irving Goodeve, local IDA enthusiast announces that sufficient IDA members have now been enrolled for a Kalamazoo Chapter. Formal organization will take place shortly (Watch out Lansing! Here comes Kalamazoo, Hi.-Ed).

PSSWC ENROLLED IN IDA AS GROUP

We wish at this time to formally welcome the sixty members of the former Pacific States Short Wave Club into the active fellowship of the IDA. We feel that these FB S.W DX'ers from the Pacific coast will be a great asset to us, and we in return want to be the greatest possible aid to them.

John D. Clark, Business Mgr. of the PSSWC, Short Wave Columnist for the San Francisco Chronicle, DX Editor of "Broadcast Weekly", and commentator over KJBS-KQW will edit a Short Wave Column in the Globe Circler, giving the latest news from the Orient, and Australasia. Mr. Clark will be known as the "Asiatic S.W. Editor" of the Globe Circler and SW data from these countries should be sent to Mr. Clark, 752 Contra Costa Ave., Berkeley, Calif.

LOS ANGELES ETA CHAPTER

A regular meeting took place at the home of L.G. Chavez, of Los Angeles. Chairman, Stuart Walmsley, appointed Aug. Balbi to serve as Statistician for the chapter, his duty to compile interesting news on stations, and keep members informed on reception conditions. A DX REPORTER was appointed in Mr. L.G. Chavez, to send a monthly report of Dx activities, S. W. Tips, etc., to IDA HQ. Refreshments were served and a voluntary collection more than covered all expenses.

D I S T R I C T H O N O R R O L L S

DISTRICT -1- Alaska, Yukon, B.C., Alta, Sask, Man, Wash, Ore, Idaho.		
C. Hesterman	29X Sask	2KO, 5DN, 7ZL, 2WL, 4RO, 3TR, 3DB, 3KZ, 2HD, 2ZP, JODK2, JODG, JQAK, CX26, CPX, Cologne, Leipzig, Stuttgart, PP, Fecamp, IMI, YV1BC, CP4, OKP1, OKB, HAL, SBA, Monte Ceneri, YLZ (Riga). (JODK1.)
Wm. H. Ansell	11X Sask	4TO, 4AY, 3ZR, JOCK2, JOTK, JFBK, JOBG, JORK, JOXK, RW39
W. Pollard	2X B.C.	KZRM, 2CA. Elwin T. Smith 1X, Wash. LS2.
DISTRICT -2- Calif, Nevada, Ariz, N.M.		
Don Townsend	11X Nev.	2XN, 2KY, 4YA, YV3BC, EAJ1, 11RO, 5AD, Berne, Belfast, Beromunster, Juan les Pins.
Fred Janssen	10X Cal.	2AY, 2GN, 3HA, 4BK, 5DN, 7HO, 7UV, 2NC, 3DB, 3WR.
Clyde Lowe	6X Cal.	6ML, Fecamp, P.P., ZTD, ZBW, CT1GL.
W. McMenamy	4X Cal.	JOAG, JFBK, JOBK2, 6PR.
J. T. Campus	2X Cal.	4ZL, 2ZM.
Randolph Hunt	2X Cal.	CX26, JOXK Howard Mathis 1X, Ariz, CP4
Donald Teague	1X Cal.	JOVK Bill Ellis 1X, Cal. CPX
DISTRICT -4- Ill, Wis, Minn, Ia, Mo, La, Tex, Okla, Neb, Ark.		
H. Gustafson	11X Ill.	Cologne, CT1GL, JOXK, JOPK, JOGK, JOCK1, JOFK, 3AR, 2FC 4RK, JOBK1.
H. Diedrich	5X Ill.	CX26, CP4, 5CL, 3AW, 2KO.
R. Swenson	3X Ill.	Bordeaux, 2UE, JOBK2.
F. L. Biss	2X Minn	4TO, 3DB.
DISTRICT -6- Mich, Ind, Ohio, Ken, Va, W. Va, Penna, N. Y., Del., Md, N. J.		
Davis Thomes	21X Ohio	VQ7LO, Moscow, 2CA, FPTT, NRH, EAJ5, ZTJ, LOV, SANTO PAULO, CX20, PRAK, KZRC, Huizen, FN, G6BM, Strasbourg, 2BD, 3DB, 1YX, Droitwich. (Klagenfurt.)
Howard Eck	12X Mich	Stockholm, Innsbruck, Stettin, 3KZ, 4BK, 11BZ, Ljubijana, Freiberg, Augsburg, Nurnberg, Kaiserlautern
C. Wyborski	6X Penn	CE90, HJ3ABD, CX14, OKK, TIRC, TIRCA.
Ray Lewis	5X Ohio	LVL, TIC, 5DN, EAJ41, Palermo.
Carl Lord	4X Ohio	NN, 7ZL, SN, Suisse Romande.
R. Tomlinson	3X N. Y.	RW39, HAL2, Vienna.
T. Colegrove	2X D. C.	2ZW, 4YA. Robert Hough 1X, N. Y. OAX.
Edward Goss	2X N. Y.	LOX, LR1. D. McKesson 1X, N. Y. LR3.
John DeMyer	2X Mich	JQAK, JOPK. J. W. Brauner 1X, N. Y. JOIK.
DISTRICTS- Gt. Britain and Europe.		
John S. Bohm	14X Sweden	WBCM, KXL, WMAS, Algiers, WJDX, WJBW, WTJS, KGIR, KFLV, WCFL, TFU, CRCK, KWG, KFXM.
W. K. Walton	12X Eng.	VOGY, WTOC, WORK, WADC, KPRC, WTAR, WHAZ, W1XBS, LS9, CP4, WFIL, WHBI.
F. R. Crowder	8X Eng.	WDAF, WMBG, WJSJS, WREN, KGW, KSO, KVOR, KLZ.
K. Judd	6X Eng.	NAA, KMPC, 2UE, 5CL, KGU, KERN.
R. Ellis	5X Scot	WGAR, WKRC, WFBM, WSPD, KJR.
A. G. Cutts	4X Eng.	KOMA, KFNF, KOL, WMT.
N. Robinson	3X Eng.	CX42, KGA, WERC.
R. T. Coales	3X Eng.	CKLW, WBER, CPX. R. Tremaine 1X, Eng. WMAL.
R. Mumford	3X IFS.	CKCW, WAAM, WICC-R. F. Thompson 1X, Eng. WPTF.
R. Pybus	1X Eng.	WJJD. J. O'Donnell 1X, IFS. KHQ.

NOTE: Reports for next "Best Catch Section" should be in by July 17th. Corrected Honor Rolls to be in again by August 17th. How many would like to have a SHORT WAVE Honor Roll, and SHORT WAVE "Best Catch" Section on alternate months with the BCB Honor Rolls, and Best Catch Sections? Notify your Directors at once, and if sufficient response is forthcoming, we will probably have the first one in the October G.C.

FOREIGN AFFAIRS DEPT. REORGANIZED

Randolph Hunt, Director of the IDA F.A.D. announces that the 1935-1936 Staff will include Messrs. R. H. Tomlinson, Wm. H. Ansell, Guy R. Bigbee, John DeMyer, William Ellis, Earl Roberts, Emmett Wallace, Stuart Walmley, Robert Weber, Chas. Hesterman and Warren Reichardt. A separate BRITISH FAD will be organized to arrange BCB Programmes for British and European IDA members. SW programmes will also be handled separately. The IDA will continue to lead the way in the Inter-Club Co-operation plan, which worked successfully last season. Our sincere sympathy to Mr. Frank Crowder in the illness of his wife

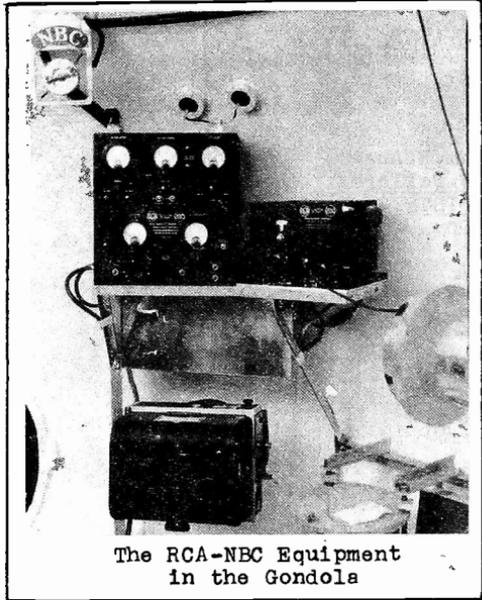
THE 1935 STRATOSPHERE ASCENT
 Early in June the 2nd National Geographic-U. S. Army Air Corps Stratosphere flight will take place at Strato-Bowl, near Rapid City, South Dakota.

Captain Albert W. Stevens and Captain Orville Anderson will at that time attempt to set a new World's record ascent of 75,000 feet or over.

The new balloon will be 25% larger, and will use helium in place of hydrogen gas. The Gondola is 8" larger than the one used last year being nine feet in diameter.

The radio equipment is being installed by RCA, and consists of a 250 pound transmitter, with a maximum output of 10 watts. The frequency to be used by the Stratosphere Xmtr will be 13050kC, and tests will be conducted on this channel nightly at about 8pm EST, for several days before the ascent

The tiny receiver has a range of 5 to 8mc only.



The RCA-NBC Equipment in the Gondola

AROUND THE WORLD WITH THE BROADCASTERS
 (NEW)

EUROPE	<u>Italy</u>	Rome, Santo Palomba to have twin station.		
	<u>Czechoslovakia</u>	Banska Bystrica, 392kC completed by fall, 1935		
	<u>Roumania</u>	Brasov, 160kC, 150kW experimenting with 20kW.		
		Moldova, 1411kC, 20kW testing.		
		Hilversum, 995kC, testing with 120kW.		
SO. AMERICA	<u>Holland</u>	Rennes-Bretagne, 1040kC, testing with 120kW.		
	<u>France</u>	Lille, (Radio PTT Nord), 1213kC, 60kW testing.		
		Lyons, (PTT), 648kC, testing with 90kW.		
		Toulouse, 765kC, testing with 120kW.		
		Valparaiso, 765kC, 10,000 watts	CE76	
		Talcahuano, 875kC, 100 watts	CE87	
		Valparaiso, 1015kC, 1000 watts	CE101	
		Concepcion, 1085kC, 100 watts	CE108	
		Valparaiso, 1055kC, 100 watts	CE109	
		Talca, 1155kC, 100 watts	CE115	
NO. AMERICA		Osorno, 1115kC, 100 watts	CE111	
		Concepcion, 1245kC, 100 watts	CE124	
		Temuco, 1285kC, 500 watts	CE128	
		Osorno, 1335kC, 100 watts	CE133	
		San Antonio, 1355kC, 100 watts	CE135	
		High Point (N.C.), 1200kC, 100 watts	WMFR	
		(CHANGES)		
	EUROPE	<u>Austria</u>	Linz, 1285kC, to go from 1/2 to 15kW.	
			Graz, 886kC, to go from 7 to 15kW.	
			Vorarlberg, 1294kC from 2 to 5kW.	
ASIA	<u>Italy</u>	Rome, Santo Palomba, to go to 120kW (713kC) IIRO		
		Bolanzo, 536kC, to go from 1 to 10kW.		
	<u>Switzerland</u>	Sottens, 677kC, from 25 to 100kW by Fall.		
NO. AMERICA	<u>China</u>	Shanghai, 1300kC to go from 1/2 to 10kW	XQHC	
	<u>USA</u>	Chicago (Ill) .770kC, now using 50kW	WBWM	
		Providence (R.I.) 780kC, 250 to 500 watts	WEAN	
		Buffalo (N.Y.) 900kC, 50 to 100 watts	W8XH	
		Fairmount (W. VA.) 890kC, to 1kW da, 1/2kW ni	WMMN	
		Pullman (Wash) 1220kC, 2 to 5kW, day.	KWCS	
		Los Angeles (Calif) 780kC, 500 watts	KTMtoKEHE	
	Oakland, (Calif) 560kC, 1000w from KTAB to KSFO			

NEW I. D. A. MEMBERS

Harley G. Slough, Vancouver, B. C., CAN
Floyd Robinson, Bloomington, Ill.
Dr. Roscoe Kash, Sevierville, Tenn.
JUDGE ELLIOT CRAIG, Superior Court,
 Los Angeles, California.

ALEX. HIRSCH, Mgr. Radio Television
 Supply, Los Angeles, California.

PAUL BUEHLER, Supt. of RCA Service,
 Los Angeles, California.

BERT PHILLIPS, Sales Mgr. KHJ, Los
 Angeles, California.

CLARENCE MANSFIELD, Mgr. Platt Music
 Co., Los Angeles, California.

Rev. F. V. Robinson, Galfate, Barnard
 Castle, ENGLAND.

Paul J. Peterson, Hughson, California
WM. BATES, Gen. Mgr. of KTRB, Modesto,
 California.

Norbert J. Baum, Chicago, Illinois.
Wm. H. Jarvis, Jr., Roxbury, Conn.

Hugh Compton, San Diego, California.
Leonard G. Harder, Kalamazoo, Mich.

Alonso R. Williams, Providence, R. I.
ROBERT HEINL, R. M. A., Service Bureau

Mgr., Washington, D. C.
Harry Ginter, Los Angeles, Calif.

Homer E. Howard, Beverly Hills, Calif
Mrs. Elaine Bishop, Los Angeles, Cal.

James E. Lynch, Brooklyn, New York.
Miss Mildred Bladon, Lang, Sask, CAN.

L. C. Mittendorf, Los Angeles, Calif.
John D. Clark, Berkeley, California.

EUGENE S. DARLINGTON, Director of SW
 Activities, W2XAF, Schenectady, N. Y

T. A. Adams Matunga, Bombay, INDIA.
Lloyd Jenkins, Temple City, Calif.

Rev. F. Breard, Shelter Bay, Saguenay
 Co., Quebec, CANADA.

J. M. Townes, Monroe, Louisiana.
Royal Johnson, Spokane, Washington.

Lloyd Holmes, Chatham, New Brunswick
 CANADA.

P. J. Walsh, St. John's, NEWFOUNDLAND.
O. Ingmar Oleson, Ambrose, N. D.

Lawrence F. Kohl, Regina, Sask, CANADA
J. V. Hodges, Regina, Sask, CANADA.

HAGOP LOUYOUMDSIAN, Rafidain Oil Co
 Ltd., Baghdad, IRAQ.

James F. Maguire, Calgary, Alta, CAN.
Geo. B. Foss, Sr., Birmingham, Alabama.

Edmund Dangler, Sea Cliff, New York.
Myrl F. Large, Kalamazoo, Michigan.

R. H. Booth, Canterbury, Kent, ENGLAND.
Victor A. Trapani, Sliema, MALTA.

Jos. Mifsud Bonici, Birkirkara, MALTA
EGIDIO MANGION, Hamrun, MALTA.

H. M. Weatherly, Knoxville, Tennessee.

NEW IDA MEMBERS FROM FORMER PSSWC

Walter A. Stohl, C. A. Bovey, S. E.
 Shonwasser, D. J. O'Connor, S. Taddio
 -Gordon Berendsen, S. Griffin, Al
 Utah, Melville G. Hoffman, Jr., H. H.
 Choate, Stanley Powell, Jr., George
 E. Wolfrom, John Fellows, J. Kinney,

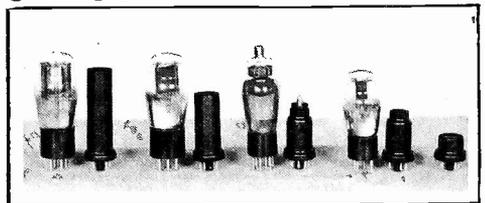
Robert Ottoman, Melvin M. Hill, J.
 E. Moore, George C. Sholin, F. G. Ed-
 wards, J. P. Stewart, Mrs. Mary Berg-
 lund, O. J. Steenson. ALL of San
 Francisco, California.

W. R. McStay, Alameda; Delbert Hol-
 den, Fresno; Fred M. Craft, Oakland;
 S. H. Turner, McCloud, Geo. T. Munson,
 Jr., San Rafael; Wesley Kelley, Sal-
 ida; J. K. Inouye, Los Angeles; John
 F. Chenoweth, San Anselmo; A. C. Mo-
 Call, Ventura; Eugene Santos, Rodeo;
 E. Swift, Oakland; H. Titcomb, Concord
 -Jerome W. Hacker, Oakland; Eldridge
 Buckingham, Palo Alto; Frank Wood-
 liffe, Jr., Fallon, Nevada; Dr. S. W.
 Staads, Los Angeles; M. E. Pikron,
 Knightsen; John Colnar, Roseville;
 Edwin G. Popple, Oroville; A. Bieder-
 man, Oakland; Dr. John W. Blemer, Dia-
 blo; A. Baba, Los Angeles; Archie
 Andrew, Piedmont; J. M. Goodpastor,
 Oakland; J. S. McCollister, Sacramen-
 to; Henry D. Nichols, Piedmont; Jack
 Doherty, Berkeley; Geo. H. Bradley,
 Berkeley; Louis A. Taix, San Juan
 Bautista; L. T. Sterling, Vallejo;
 Carl S. Ortman, Stockton; R. G. Lee,
 Richmond; F. M. Wudell, Placerville,
 Geo. E. Wiles, Stockton; Frank B. Wil-
 lard, Saratoga. ALL in California.

Harold S. Allen, Portland, Oregon;
 J. E. Souviney, Everett, Washington;
 Merrill Ogden, Fallon, Nevada.

NEW GENERAL ELECTRIC METAL TUBES

The new line of GE Receivers
 which will appear in July, will
 feature the NEW GE METAL TUBES. The
 Metal Tubes are smaller, and more
 sturdy than the glass ones, and
 will give a greater continued effi-
 ciency of operation. The tubes pro-
 vide their own shielding. NO other
 tube shields being necessary. Short
 leads permit greater amplification
 at higher frequencies making them
 the ideal Short-wave tube. The more
 effective shielding insures great-
 er stability. These tubes are not
 interchangeable with glass tubes
 in present type receivers. A patent
 ed key pin in the center of each
 tube permits its instant insertion
 in a socket without the usual
 groping process.



THE PRATO-SMERALDO SHORT-WAVE STATION 2RO

This article by Mr. George Moraldi, IDA Representative for Italy. Technical information courtesy Mr. Banfi, of the E.I.A.R., and "Radio-Corriere".

With the inauguration of daily programs to Japan on 25.40m, the SW Xmtr at Prato Smeraldo can be said to have nearly reached its full activity.

The station was inaugurated on Oct. 28, 1934, being entirely built by the EIAR, following the plans of Mr. Banfi, Radio Engineer, and central Director of the EIAR, under the guidance of His Excellency, Giancarlo Vallauri.

The station is located in the suburbs of Rome, and the various transmitters are housed in a neat one-story building, from which the energy is led to the Aerials via a tubular transmission line.

There are five Aerials; three directional for North and South America and the Far East, and two Omnidirectional.

Each Aerial is 60 meters high and ending with "T" Brackets which sustain two horizontal cables stretched between them and acting as the framing part. To each cable is suspended a row of four double dipoles spread half wavelength apart - the two rows of dipoles are at a distance of a quarter wavelength and form the energized and reflect ing curtain of the aerial.

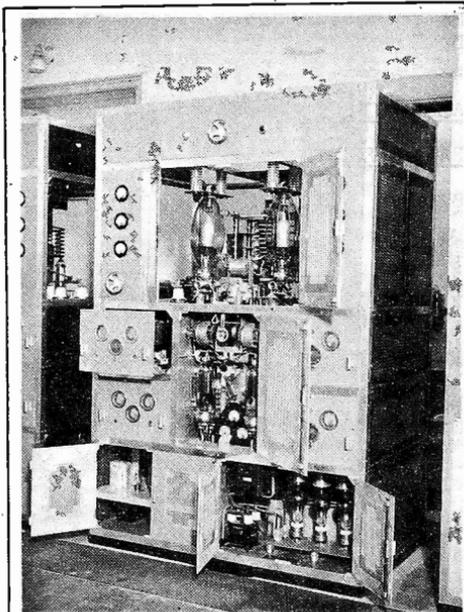
The wavelengths of the various Aerials are distributed thus:

Directional to N.A.....	49.30m
Directional to S.A.....	31.13m
Directional to Far East...	31.13m
Directional to Far East...	25.40m
Directional to S.A.....	25.40m
Omnidirectional	31.13m
" "	42.98m
" "	25.40m

The station has two complete Transmitters that can work separately on different wave lengths and grouped along the sides of a large hall are the various transmitting panels, or units.

The choice of 5kw, or 20kw may be had at a moment's notice on any of the different wave lengths.

On the central control desk are all of the principal instruments and commands for the Panels, as



2RO PANEL NO.1
Housing
The 49.3 Meter Transmitter

well as the remote controls for the rectifiers, dynamos, pumps and telethermometers for reading the temperature of the cooling water for the tubes.

On the desk is also installed a cathode ray tube for modulation control, and a complete system of luminous indicators, showing which units are in operation.

WAVE LENGTHS AND SCHEDULES OF 2RO

Far East	25.4m	Daily	9:15-10:15Am
South Am	31.13	Tues, Thurs	
		and Sat	7:45-9:15Pm
North Am	31.13	Mon, Wed,	
		and Fri.	6-7:30Pm
Omnidirectional	31.13	Daily	2:30-5Pm
Omnidirectional	31.13	Daily	8:15-9Am
North Am	49.3	Irregularly	
		used during summer	

(All time above is E.S.T.)

Transmissions on a wave length of 42.98 meters have not yet been definitely established, but will be for the Italian Colonies when they are instituted.

EST.

June 14 Evening

SPECIAL S.W. FEATURES

6030KC Panama, Republic of Panama

IDA HP5B

June 15 11pm-12:30am 7558kC Teneriffe, Canary Islands

IDA EA8AB

VOICES OF THE EAST (John D. Clark, Asiatic Editor)

After several weeks silence, ZBW has returned to Short Waves on 87-50kC. Sked is 6 to 9:30am EST with all announcements and programs in English. Announces "This is the Hong Kong Broadcasting Station calling"

JVN, 10660kC, is broadcasting daily at irregular times between 7 and 11:30pm EST. JVM, 10740kC, is still on a daily sked of 1:50-2:20 am, and 4 to 7:30am EST. JVM broadcasts baseball games from Tokio every Friday from 11:30pm to 4am EST, and Sunday from 12:30am-4am EST. These are the only two Japanese stations which broadcast regular SW programs at present.

JVF, 15.62MC, phones KWU daily at 3:45pm, and 11:15pm EST, and irregularly at other times. JVE, 15.66MC phones Bandoeng at 7:30pm EST. JVH, 14.60MC, phones daily at 1:30am EST. (This station handled all relief work in connection with recent earthquake in Formose.) JIC, 5.89MC, and JVV, 5.78MC, both are phoning at 2am EST.

VK3LR, Melbourne, have nearly finished their new 1kW Xmtr. They are now broadcasting football games from Melbourne every Saturday from 12:30-2:30am EST. Contacts HBL, and relays program every Monday from 2:30-3:15am EST. Regular relay of 3AR, and National Program daily except Sunday from 3:15-7:30am EST. Short wave tips program every Saturday from 3:15-3:30am EST.

VK2ME's Sunday sked is now 1-3am -5-9am., 10:30am-12:30pm EST, on 9.59 MC. Also testing with music on 10.52MC irregularly near 2am EST.

VLJ, 9.76MC, phones ZLT, 11MC, daily near 2am EST. VLK, on 10.52MC, phones PMN daily, near 6:30am EST.

VPD, 13.075MC, still broadcasts programs daily except Sunday from 12:30-1:30am EST. Transmissions open with "Song of the Islands", and close with "God Save the King". Tests conducted at frequent intervals, and may fall within regular transmission period, thus confusing listeners. International Call sign VP1A used during tests, and station often goes off air for one to five minutes.

Japanese stations all weaken as summer approaches. YDA still reach-

es U. S. daily 5:30-10am EST (to 11 on Fri, 11:30 on Sat.) PMY, 5.14MC broadcasts daily from 3-8am EST. PLF on 18.83MC, phones KWU daily at 7pm and Tokio at 7:30pm EST. PLV, 9.42MC phones near 1am, 3am, 7am and 10am EST. PMN, 10.26MC, phones VLK at 6:30am EST.

KAY, Manila, 14.98MC, heard relaying KZRM on many test programs between 11:30pm and 12:30am. Also phones near 10am and 7pm EST. KAZ, on 9.97MC, phones daily near 11:30am EST. KPJ, 13.34MC, calls Bandoeng near 3am EST.

VIZ3, Rockbank, Vict, Australia, 11.49MC, now testing almost daily with CJA, 11.44MC, between 7 and 9:40pm, also testing irregularly near 11am EST.

VUB, Bombay, 9.57MC, still broadcasting Sunday after 6:30am EST, and still threatening to close the SW Xmtr down unless more reports are received.

ZHI, Singapore, 6.01MC, often heard on Pacific Coast. Sked is Mon/Wed/Thurs 5:40-8:10am; Sun 5:10-7:40am EST. Closes down with "Station ZHI Singapore, now closing down at 8:34 pm. Goodnight, Listeners, goodnight", followed by "God Save the King".

ZGE, 6.13MC, announces "This is the Malayan Amateur Radio Society, Kuala Lumpur", and uses the signature of, "Lets Call it a Day".

FREQUENCIES OF BEST FOREIGN HAMS

KC	CALL	KC	CALL
14050	G2DV	14300	HP1A
14080	G5KG	14300	VP5IS
14100	TI3WD	14300	CT1GU
14100	HCLJW	14300	EALAO
14100	HB9AQ	14300	F8VS
14100	ON4AQ	14300	OK2AK
14100	X1A	14300	ON4BZ
14100	X1AG	14300	G5ML
14100	X1AX	14300	G2ZP
14100	X1K	14300	G5HB
14120	G2NH	14300	G5JJ
14120	TI3AV	14300	G6VP
14270	CT1BY	14300	G6DL
14280	VP3BG	14312	VP6YB
14280	VP9R	14340	LA1G
14280	X1ER	14350	ON4AU
14300	G5YY	14385	LUIPB

Others: VO1I, G5BJ, G6XR, HCL1FG, LU8AB, LU6AF, K6BAZ, K6KKP, K6CIB, K6FJF, LA3G (Messer, Magee, Bills, Goodeve, Base, Mickelson, Hostetler, Richardson, IDA HQ, Pybus, Dilg).

TRY FOR THESE

Stratosphere Xmt, 13050kC, 8 w, testing near 8pm evenings... FZS, Saigon, F. Indo China, 11.99MC, and 18.35MC tests 9:30am EST (Balbi)... VLZ, 30.75m, Sydney, and ZLT, 27.3m, Wellington, sign off at 4am EST almost every day (Miller)... SUZ, 21.7meters calling Rugby, and announcing as "SUX" heard often Saturday between 11am and Noon EST (Miller)... PRAR, Pernambuco, Brazil, 49.6 meters sends News daily from 6-6:30pm, and 10-10:30pm EST daily. (RMA)... OPM. Leopoldville, Belgian Congo, may often be heard calling Brussels from 2-3:15am EST on 29.58meters (I was the first to report them on this schedule-Miller)

LEADING U.S. COMMERCIALS

- B- Bolinas, Cal. L- Lawrenceville
D- Dixon, Cal. O- Ocean Gate, N J
K- Kahuku, Hawaii R- Rocky Point, NY
4272kC WOO -O 12840 WOO -O
4272 WOY -L 13390 WMA -L
4535 WDG -R 13885 WQT -R
4550 KIKC-B 14590 WMN -L
4550 WAD -R 14770 WEB -R
4555 WDN -R 14800 WQV -R
4753 WOY -L 14830 WKU -R
4753 WOO -O 14920 KQH -K
5105 KEC -B 15040 WQG -R
5260 WQN -R 15270 WOO -O
5840 KRO -K 15355 KWU -D
6718 WDB -R 15410 KWO -D
6733 WDA -R 15430 KWE -B
6755 WOA -L 15460 KRR -B
7400 WEM -R 15475 KKL -B
7415 WEG -R 15490 KEM -B
7520 KKH -K 16000 WKQ -R
7565 KWY -D 16030 KKP -K
7610 KWX -D 16270 WLK -L
8075 WEZ -R 16270 WOG -O
8560 WOY -L 17120 WOY -L
8560 WOO -O 17860 WQC -R
9010 KEJ -B 17900 WLL -R
9170 WNA -L 17920 WQF -R
9450 WES -R 17940 WQB -R
9470 WET -R 17980 KQZ -B
9480 KET -B 18060 KUN -B
9490 KEI -B 18340 WLA -L
9750 WOF -L 18860 WKM -R
9870 WON -L 18980 WFX -R
10380 WCG -R 19220 WKF -L
10390 KER -B 19380 WOP -O
10410 KES -B 19820 WKN -L
10490 KEZ -B 20260 WQQ -R
10550 WOK -L 20780 KMM -B
10610 WEA -R 20820 KSS -B
10620 WEF -R 21060 KWN -D
10630 WED -R 21060 WKA -L
10675 WNB -L 21240 WQJ -R
10840 KWV -D 21260 WBU -R
11680 KIO -K 21420 WKK -L
12840 WOY -L

NEW SHORT WAVE STATIONS

PILJ, Rotterdam, Holland relays BBC, and Huizen programs on about 42.4m- Saturdays, 11:10am-12:10pm EST (World Radio)... New RADIO COLONIALE, nearing completion at Ville Just near Paris, France. Worlds most powerful Xmt-100kW. Will work on 6145, 9585, 11845 and 11880kC's. The New Icelandic station at Reykjavik will use the following frequencies; TFK, 9060; TFL, 13965; TFM 15740; TPN, 17890.

ZBW, "The Secretary, Broadcasting Committee", Hong Kong, China, 8750kC. Daily 6-9am EST. Give weather reports, and time signals at 7am EST. (Walker-Wetton--Streuber--DeHaven-Chavez-Clark).

The Inter Island Airway Ltd. Station at Honolulu, Hawaii, has been assigned call of KNBL... New N.B.C. Mobile Xmt, 6350kC, 300 watts.

CO9WR, 10.2MC, heard relaying CMHB Sancti Spiritus, Cuba, at 1-pm EST (Dilg)... HIL, Santo Domingo, R.D., 10040kC, heard working HJA2, Bogota, 4-5pm EST (Magee)... HIZ, 6.34MC, in Santo Domingo back on air with a reported 75 watt Xmt (Dilg)... "Societe Haitienne d'Automobiles, Mallebranche, Gentil, Bogat & Co., Port-au-Prince, Haiti" own HH2T, 11790kC; HH2R, 9545kC; and HH2S on 6070kC, testing with typical Haitian news and music. Wish reports. (Shanks)... CEC, Mirimar, Cuba, heard on 10230kC (IDA HQ).

ZP10, Asuncion, Paraguay, heard on 8.05MC, May 1st, 10:15pm EST (L.A. Chept)... HKV, Radio Dept., Ministry of War, Bogota, Colombia, 8.8MC, on irregular (Messer-Shanks-Butcher). HKB, 7.9MC, Colombian Govt., Bogota, Colombia (CSWRC)... New Colombian SW stations given in Govt. List are HJ3ABJ, Bogota, 6018kC, 50 watts; HJ2ABD, Bucaramanga, 5988kC, 50 watts commercial; HJ1ABL, 6054kC, Cartagena, 50 watts, Exper; HJ5ABF, Popayan 8214kC, 50 watts, Experimental; HJ4ABD, 6060kC, 300 watts, Commercial.

TI-RRC, San Jose, Costa Rica, 6550 kC, operates regularly from 6-7pm EST. (CSWRC)... TI5JJ, Costa Rica, on 7400kC, Saturday 4-6pm, with but 15 watts (Grey).

BROADCAST FROM W2XAF HUGE SUCCESS

The IDA-SWCNY broadcast from W2XAF on Apr. 30, was a huge success and hundreds of letters have been received from North America, and over 100 from England in one mail alone, as well as an FB report from Mr. L.H. Stokes, of Warsaw, Poland.

SHORT WAVE DATA

C09GC, Santiago de Cuba, is on 61-50kC, and will verify all reports. ..C09GC is often on after lam EST, playing phonograph records, and testing...Military Band Concert, by Cuban Army from C0C, 8-10pm EST on Sundays...New Sked for HIX, is 8:10-10:10pm EST, Tues/Thurs, and at 7:10am on Sundays (Moss)...

WAE, Brentwood, Long Island, 15675 kC heard testing at 1pm Sundays with W6ZH, and W6CNE (Schumacher).. W9XBY, 1530kC, has DX Tips at lam-EST on Thursdays. (Schumacher)...

March 24, VK2LZ of Australia, made a two-way contact with W9NY, and W2TP, on 10 meters...VJI, is now def initely on 8630kC. Have been testing 3-5am EST. Address: Australian Inland Mission, P.O.Box 103, Cloncurry, Qld, Australia. (Walker)...

JVM, 20.55m, Nazaki, Japan, transmit ting a program called "Overseas Broadcast", daily, 6:30-7:30am EST. (Miller)...It is reported that ZGE is again using 6150kC...Each Satur day and Sunday nights, JVM, 10.74MC, and JVN, 10.66MC, are broadcasting Japanese Baseball games at 11:30pm EST. (L.A.Chapt.)...

E8AB, Radio Club Tenerife, Tenerife, Canary Islands, New Sked is Mon Wed/Fri. from 3:30-4:30pm EST. Are working on 39.7 meters. (Caulfield) ...HJLABB, "Radio Manizales", now on 6.11MC...YV2RC increasing power to 1kW. Will henceforth send a QSL cd in addition to regular booklet (Clark)...HCJB, Quito, on new freq. of 8.12MC (L.A.Chapt.)...HC2AT, is owned by American Trading Co., Box 872, Guayaquil, Ecuador. HC2AT is on 8.4MC daily from 8-10pm EST. They will soon increase power. (Messer) ..PRADO now on Sundays, 19.43meters from 5-6pm EST (Dilg)...HC2JSB, on 7.83MC, now from 7:20-11:20pm EST. HJLABE now begins its Monday DX programs at 10pm to avoid QRM with W2XE. (Clark).

CT1CT, Lisbon, Portugal, transmits on 24.83m--Sun 9-11am, Thurs 3-4pm EST, and on 31m-Sun 7-9am, Thurs 4-6 pm. Power 500w... "American Hour From Rome", on 31.13m Mon, Wed, Fri, from 6-7:30pm EST (Dilg)...RKI has been transmitting on 15090kC lately instead of 15MC (Shanks)...HB5B Radio Club of Basle, Switzerland, re lays medium wave station, Beromunster on 7118kC at 4pm EST, Thursday and on 3770kC at 4:30pm, same day. Address reports to "Herrn Dr.K. Bau mann, Radio-Club Basle, Postfach Basle 1, Switzerland (British Globe Circler)...RNE being heard 3-6pm EST irregularly (Dilg)...HBL, Gen-

eva announces frequency as 31.27m, but has come in at 31.37m during past month. (Dilg)...Schedule of RV59, 50m, is 2-4pm EST at present (Moss)...LKJL, Jeloj, Norway, has moved to 9572kC owing to QRM from DJN (Priwin)...CT1GO, Parede, Portugal on 48.4m--Mon/Wed/Thur/Fri/Sat. 7:30-8:30pm, and Sunday from 11:30am-1pm EST. On 24.2m Tues/Thurs/Fri. from 1-2:15pm EST (Shanks ...New programme from EAQ dedicated to U.S., nightly at 6:30pm EST..

WOR's short wave relay W2XHI has been delayed again and will not be completed before Nov.1,1955...ZHJ Penang, FMS, 6.08MC, 49 watts, on Mon/Wed and Saturday, 6:30-9am EST.... VE9CS, Vancouver, BC, 6.07MC, with on-ly TWO WATTS of power being report ed FB in Los Angeles area...

ADDITIONAL D.E.I. STATIONS

NOTE: Other DEI stations in May GC

This List courtesy Mr.H.Jackson

YDG2	Batavia	84.46	Meters
YDG3	Batavia	95.24	Meters
YDH4	Batavia	90.69	Meters
YDH5	Bandoeng	92.31	Meters
YDH6	Bandoeng	95.85	Meters
YDK2	Semarang	94.04	Meters
YDK4	Magelang	91.74	Meters
YDL3	Solo	89.96	Meters
YDL4	Djakakarta	87.98	Meters
YDL5	Idem	93.46	Meters
YDM2	Tjepoe	90.36	Meters
YDO2	Soerabaya	87.46	Meters
YDO3	Idem	91.19	Meters
YDQ2	Djember	88.50	Meters
YDQ3	Malang	88.55	Meters
YDQ4	Idem	92.88	Meters
YDU2	Medan	89.02	Meters
YDU3	Idem	(neo 94.94	Meters
YDV2	Bandjermasin	Bor-90.09	Meters
YDL2	Solo	62.37	Meters
PMY	Bandoeng	58.37	Meters

-TELEPHONE STATIONS-

PMA	Bandoeng	15.51m	19340kC	40kW
PLE	Bandoeng	15.93	18830	40kW
PMC	Bandoeng	16.55	18120	40kW
PLP	Bandoeng	27.27	11000	3kW
PMN	Bandoeng	29.24	10260	3kW
YBP	Medan	28.76	10430	3kW
PLV	Bandoeng	31.90	9100	80kW
PNI	Makasser	31.19	8775	3kW

HEARD

KAZ, Manila, 9.97MC, calling KWV, at 10:30am EST. KBK, Manila, 6.69MC testing at 10am E.S.T. (Chavez)... Held VPD, Suva, for whole hour this morning 12:30-1:31am EST, May 14. (Bills-Ind)...JIC, 50.93M, heard Sun days 5-6am EST (Miller)...JVH, Tokyo 20.55m calling GVD at 6am EST, Mon- day. (Miller)...PK1KK, 4.83MC, heard at 5am EST (L.A.Chapt.)...YVR and EHY heard daily 4pm EST. (Walker).

SHORT-WAVE BROADCASTING STATIONS

<u>DIAL</u>	<u>METERS</u>	<u>MEGS</u>	<u>CALL</u>	<u>STATION</u>	<u>TIME</u>	<u>E.S.T.</u>
13.93	21.54	W8XK	Pittsburg, Penna.	6-8am		
13.97	21.47	GSH	Daventry, England.	irreg.		
16.25	18.46	HBH	Geneva, Switzerland.	Mondays 3:15-3:30am.		
16.25	18.46	HJY	Bogota, Colombia.	Phones LSM at noon	irreg.	
16.35	18.35	FZS3	Saigon, F. Indo China	Phones 9:30am	irreg.	
16.39	18.30	YVR	Maracay, Venezuela.	Phones Spain.		
16.47	18.22	KUS	Manila, P.I.	Phone.		
16.55	18.13	PMC	Bandoeng, Java.	Phone.		
16.56	18.11	LSY3	Monte Grande, Argen.	Phone.		
16.85	17.80	PCV	Kootwijk, Holland.	Phones in early am.		
16.86	17.79	GSG	Daventry, England.	6-8:45, 9-10:45am.		
16.87	17.78	W3XAL	Boundbrook, New Jsy	8-9am; Tues/Thurs/Fri 2-3p		
16.88	17.77	PHI	Huizen, Holland.	7:30-10:10am Ex. Tues/Wed.		
16.89	17.76	DJE	Zeesen, Germany.	8-11:30am to S.A.		
16.91	17.74	HSP	Bangkok, Siam/	Phones in early am.		
17.12	17.52	DFB	Nauen, Germany.	Phones irreg.		
17.13	17.51	VWY2	Kirkee, India.	Phones irreg.		
17.37	17.26	DAF	Norddeitch, Germany.	Phones at 9:15am	irreg.	
18.47	16.24	KTO	Manila, Phillipines.	Phones.		
18.50	16.21	FZR3	Saigon, F. Indo China	Phones irreg.		
18.71	16.03	KKP	Kahuku, Hawaii.	Phones KWU etc.		
18.90	15.88	FTK	St. Assise, France.	Phones French Colonies.		
19.04	15.76	JYT	Tokyo (Kemikawa) Japan			
19.16	15.66	JVE	Nazaki, Japan	Phones Bandoeng 7pm etc.		
19.21	15.62	JVF	Nazaki, Japan	Phones KWU 3:45pm etc.		
19.47	15.41	PRADO	Riobamba, Ecuador.	5-6pm on Sundays.		
19.52	15.37	HAS3	Budapest, Hungary	Sunday 9-10am		
19.53	15.35	KWU	Dixon, California.	Phones JVF, KKP, PLV etc.		
19.57	15.33	W2XAD	Schenectady, N.Y.	2-3pm.		
19.63	15.28	DJQ	Zeesen, Germany.	12:30-2am, 8-11:30am.		
19.64	15.27	W2XE	Wayne, New Jersey.	10am-2pm.		
19.68	15.24		Pontoise, France.	6-10am. for Indo China.		
19.71	15.22	PCJ	Eindhoven, Holland.	7:10-11:10am.		
19.72	15.21	W8XK	Pittsburg, Penna.	6am-3:15pm. (-4:30pm irreg.		
19.74	15.20	DJB	Zeesen, Germany.	12:30-2am, 3:45-7:15am, Noon		
19.82	15.14	GSE	Daventry, England.	6-8:45am, 9-N'n, 3:45-5:45pm		
19.84	15.12	HVJ	Vatican City, Italy	10:30-10:45am.		
19.88	15.09	RKI	Moscow, U.S.S.R.	Irregular in mornings.		
19.92	15.06	WNC	Hialeah, Florida.	Works C.A., and S.A.		
20.03	14.98	KAY	Manila, Phillipines	Phone.		
20.08	14.93	HJB	Bogota, Colombia.	Phones WNC.		
20.11	14.92	KQH	Kahuku, Hawaii.	Phone.		
20.55	14.60	JVH	Nazaki, Japan.	6:30-7:30am. & Fones Europe		
20.69	14.50	HPF	Panama City, Panama	Works WNC.		
20.72	14.48	GBW	Rugby, England.	Phones.		
20.72	14.48	LSN	Buenos Aires, Argen.	12-6pm, and phones.		
21.57	13.90	WQP	Rocky Point, N.Y.	Works RNE/RKI etc.		
22.48	13.35	YVQ	Maracay, Venezuela.	Works WNC, etc.		
22.94	13.08	VPD	Suva, Fiji Islands.	12:30-1:30am Ex. Sunday.		
23.36	12.84	WOO	Ocean Gate, N.J.	Works Ships.		
23.39	12.83	CNR	Rabat, Morocco.	Sunday 7:30-9am.		
23.45	12.80	IAC	Coltano, Italy.	Works Italian Ships.		
23.47	12.78	GBC	Rugby, England.	Works Ships.		
24.21	12.40	DAF	Norddeich, Germany.	Works Ships. (Fri N'n-1:15		
24.20	12.40	CT1GO	Parede, Portugal.	Sun 9-10:30am, Tues/Thurs/-		
24.83	12.08	CT1CT	Lisbon, Portugal.	Sun 8-10am, Thur 2-3pm.		
25.00	12.00	RNE	Moscow, U.S.S.R.	Mornings & 3-6pm irreg.		
25.02	11.99	VIY	Melbourne, Australia	Phones CJA, Drummondville.		
25.02	11.99	FZS2	Saigon, F. Indo China,	Tests near 9:30am irreg.		
25.23	11.88		Pontoise, France.	10:15am-1:15pm, 2-5pm.		
25.27	11.87	W8XK	Pittsburg, Penna.	3:30-10pm.		
25.29	11.86	GSE	Daventry, England.	10:45am-Noon.		
25.36	11.83	W2XE	Wayne, New Jersey.	2-4pm.		
25.42	11.80	WLXAL	Boston, Mass.	Evenings.		

25.45	11790	HH2T	Port-au-Prince, Haiti	
25.51	11770	DJD	Zeesen, Germany	Noon-4:30pm, 5:05-10:30pm.
25.53	11750	GSD	Daventry, England.	11:30-1:30am, 12:15-5:45pm 6-8pm, (Possibly trans. 6)
25.60	11.72	CJRX	Winnipeg, Canada.	6-11pm, Sat 3pm-12pm.
25.60	11.71		Pontoise, France.	6-9, 10-12pm.
25.65	11.70	HJ4ABA	Medellin, Colombia.	5-10pm.
25.68	11.68	KIO	Kahuku, Hawaii.	Phones evenings.
25.73	11.66	PPQ	Sepetiba, Brazil.	Phone.
27.27	11.00	ZLT	Wellington, N.Z.	Phone.
27.68	10.84	KWV	Dixon, California.	Phone. (Sunday 11:30pm.
27.93	10.74	JVM	Nazaki, Japan.	1:40-2:20am, 4-7:40am, Sat-
28.14	10.66	JVN	Nazaki, Japan.	4-7:40am; Sat/Sun 11:30pm.
28.82	10.41	KES	Bolinas, Calif.	Phone.
28.90	10.38	WCG	Rocky Point, N.Y.	Experimental. (al
28.97	10.35	LSX	Buenos Aires, Arg.	3-4pm irreg & Experiment-
29.03	10.34	ZFD	Hamilton, Bermuda.	Phone.
29.04	10.33	ORK	Ruyssede, Belgium	1:30-3pm.
29.41	10.20	CMHD	San Spiritus, Cuba.	Relays CMHB evenings.
29.59	10.14	OPM	Leopoldville, Congo	Sun 3:45-4:15pm, 2-3:15am.
29.84	10.06	SUV	Abou Zabal, Egypt.	Works DGU 4:30-5pm irreg.
30.01	9.99	KAZ	Manila, Phillipines	Phone.
30.43	9.86	EAQ	Madrid, Spain.	5:15-7:30pm; Sat 1-3pm.
30.74	9.76	VLZ2	Sydney, Australia.	Phone.
31.00	9.68	CTLCT	Lisbon, Portugal.	Thurs 3-5pm; Sun 6-8am.
31.13	9.64	2RO	Rome, Italy.	2:30-5pm; Mon/Wed/Fri 6 to 7:30pm; Mon/Wed/Fri 7:45pm 3:30-6pm Tues, Thurs, Sat.
31.28	9.59	CTLAA	Lisbon, Portugal.	1-3, 5-9, 10:30am-12:30 SUN
31.28	9.59	VK2ME	Sydney, Australia.	11am-7pm.
31.28	9.59	W3XAU	Philadelphia, Penna	7:30-10pm.
31.28	9.59	HP5J	Panama City, Panama	6-8pm, Tu/Th/Sa/Sun 10-11p
31.30	9.58	GSC	Daventry, England.	3:15-7:30am Ex. Sunday.
31.32	9.58	VK3LR	Melbourne, Austral.	6am-12pm; Sun 7am to 12pm.
31.36	9.57	WLXK	Springfield, Mass.	5-8am
31.33	9.57	LKJ1	Jeloy, Norway.	Sun 8:30-10:30am
31.36	9.57	VUB	Bombay, India.	Sat 5:30-6:15pm.
31.37	9.56	HBL	Geneva, Switzerland	5:05-9:15pm.
31.38	9.56	DJA	Zeesen, Germany.	
31.43	9.55	HH2R	Port-au-Prince, Haiti	
31.45	9.54	DJN	Zeesen, Germany.	5:05-10:30pm; 3:45-7:15am.
31.48	9.53	W2XAF	Schenectady, N.Y.	5:30-11pm; Sun 5-11pm.
31.55	9.51	VK3ME	Melbourne, Australia	Wed/Thurs/Fri/Sat 5-7am.
31.55	9.51	GSB	Daventry, England.	11:30-1:30am; 12:15-3:45pm
31.58	9.50	PRF5	Rio de Janeiro, Br.	5:30-6:15pm Ex. Sunday.
31.70	9.46	COH	Havana, Cuba.	10am-N'n, 5-7, 8-10pm.
31.86	9.41	PLV	Bandoeng, Java.	9:45-9:55am; 9:45-9:55pm.
32.88	9.12	HATH	Budapest, Hungary.	6-7pm Sundays.
33.15	9.05	TFK	Reykjavik, Iceland	Willbe on the air shortly
34.09	8.80	HKV	Bogota, Colombia.	Govt. Xmtr irregular.
34.19	8.77	PNI	Macassar, Celebes.	Phones Java in early am.
34.29	8.75	ZBW	Hong Kong, China.	6-9am.
35.72	8.40	HC2AT	Guayaquil, Ecuador	8-10pm. (10:15pm.
36.50	8.21	HCJB	Quito, Ecuador.	6:45-10:45pm; Sun 3:45-
37.33	8.04	CNR	Rabat, Morocco.	Sun 3-5:30pm.
38.31	7.83	HC2JSB	Guayaquil, Ecuador	7:20-11:20pm.
38.46	7.80	HBP	Geneva, Switzerland	Sat 5:30-6:15pm.
39.70	7.56	EA8AB	Tenerife, Canary Il	Mon/Wed/Fri 3:30-4:30pm.
39.87	7.52	KKH	Kahuku, Hawaii.	Phone.
40.16	7.47	JVQ	Nazaki, Phillipines	Phones Phillipines.
40.55	7.40	HJ3ABD	Bogota, Colombia.	7-11pm Ex. Sunday.
40.55	7.40	TI-5JJ	San Jose, Costa Rica.	Sat 4-6pm.
40.60	7.39	ZLT	Wellington, N.Z.	Phone.
41.21	7.28	HJ1ABD	Cartagena, Colombia	7:45-9:15pm Ex. Sunday.
42.15	7.20	HB5B	Basle, Switzerland	Thurs 4-4:30pm.
42.25	7.10	HKE	Bogota, Colombia.	Tues/Sat 8-9pm.
42.40	7.08	PI1J	Rotterdam, Holland.	Saturday 11:10am-12:10pm.
44.03	6.81	HIH	San Pedro, R.D.	Thur/Fri 5:40-7:40pm etc.
44.44	6.75	JVT	Nazaki, Japan.	Phones irregular.

44.71	6.71	TIEP	San Jose, Costa Rica	7-10pm Ex.Sundays.(11:15
45.00	6.66	HC2RL	Guayaquil,Ecuador	Sun 5:45-7:45pm;Tu*9:20=
45.31	6.62	PRADO	El Riobamba,Ecuador	Thurs 9:20-11:40pm.
45.54	6.59	HI4D	Santo Domingo,R.D.	4:40-7:40pm Ex.Sunday.
45.80	6.55	TIRCC	San Jose,Costa Rica	6-7pm, and irregular.
46.01	6.52	YV6RV	Valencia,Venezuela.	4:30-9:30pm.
46.23	6.49	HJ5ABD	Cali, Colombia.	7-10pm Ex.Sunday.
46.60	6.44	HJ1ABB	Barranquilla,Colom.	6-10pm Ex.Sunday.
46.70	6.43	VE9AS	Fredericton,N.B.	Relays CRC Thur 9:30pm.
46.88	6.40	YN1GG	Managua,Nicaragua.	7-9:30pm Ex.Sunday.
47.06	6.37	YV4RC	Caracas,Venezuela.	4:40-9pm Ex.Sunday.
47.50	6.32	HIZ	Santo Domingo,R.D.	11pm-12:30am & irreg..
48.15	6.23	OAX4B	Lima, Peru.	Wednesday 7-10:30pm.
48.23	6.22	HJ2ABA	Tunja,Colombia.	8-10pm. (6:20-7:30pm.
48.40	6.20	CT1GO	Paredo,Portugal.	Sun 10:30am-N'n;Daily
48.50	6.19	HILA	Santo Domingo,D.R.	6:40-9:40pm Ex.Sunday.
48.62	6.17	HJ3ABF	Bogota,Colombia.	7-11pm Ex.Sunday.
48.78	6.15	YV3RC	Caracas,Venezuela.	4:30-10pm.
48.78	6.15	GSL	Lisbon,Portugal.	6-7:30am; 1-5pm.
48.78	6.15	CO9GC	Santiago de Cuba.	1:30-4:30pm;10-11pm.(930
48.83	6.14	CJRO	Winnipeg,Canada.	6-11pm;Sa 3-12pm;Su 4-
48.86	6.14	W8XK	Pittsburg,Penna.	3:30pm-Midnight.
48.92	6.13	ZGE	Kuala Lumpur,FMS.	6:40-8:40am.Sun/Tues/Fri
48.93	6.13	LKJ1	Jeloy,Norway.	11am-6pm.
49.02	6.12	YDA	Bandoeng,Java.	5:30-10am.
49.02	6.12	W2XE	Wayne,New Jersey.	5-10pm.
49.05	6.12	HJ1ABE	Cartagena,Colombia.	7:30-9pm;Mon 10-11pm.
49.08	6.11	YV2RC	Caracas,Venezuela.	5:15-9:30pm.
49.10	6.11	HJ4ABB	Manizales,Colombia.	8-10pm; Sat 10-11pm.
49.10	6.11	GSL	Daventry,England.	Tu/Thur/Sat/Sun 10-11pm.
49.18	6.10	HJ4ABL	Manizales,Colombia.	Evenings irregular.(-12p
49.18	6.10	W3XAL	Boundbrook,N.J.	Mon/Wed/Sat 4-5pm;Sat 11
49.18	6.10	W9XF	Chicago,Illinois.	8-9am,12-1pm;Ex.Sunday.
49.20	6.10	ZTJ	Johannesburg,S.Afr.	Experimental.(N'n-8pm.
49.26	6.09	VE9GW	Bowmanville,Ontario	Thur/Fri/Sat 7am-4pm;Sun
49.34	6.08	CP5	La Paz,Bolivia.	7:45-9:15pm.
49.34	6.08	VE9HX	Halifax,Nova Scotia.	8-10:30am; 3-10pm.
49.34	6.08	W9XAA	Chicago,Illinois.	Sunday 1-2:30pm.
49.40	6.07	ZHJ	Penang,F.M.S.	Mon/Wed/Sat 6:30-9am.
49.40	6.07	HH2S	Port-au-Prince,Haiti	irregular.
49.42	6.07	OER2	Vienna,Austria.	9am-5pm;Sat 9am-6pm.
49.42	6.07	VE9CS	Vancouver,B.C.,Canada	(Two watts)
49.45	6.07	HJN	Bogota,Colombia.	6-11pm.
49.50	6.06	OXY	Skamleback,Denmark	1-7pm; Sun 11am-7pm.
49.50	6.06	HJ1ABD	Medellin,Colombia.	Testing.
49.50	6.06	W3XAU	Philadelphia,Penna.	7-10pm.
49.50	6.06	W8XAL	Cincinnati,Ohio.	6-7pm,10-12pm.
49.50	6.06	PRA8	Pernambuco,Brazil.	Evenings.
49.59	6.05	GSA	Daventry,England.	Not in use at present.
49.67	6.04	WLXAL	Boston,Mass.	SUN 4-6pm;Wed/Fri 6:30pm
49.67	6.04	HJ1ABG	Baranquilla,Colombia	6:30-10pm Ex.Sunday.
49.75	6.03	HP5B	Panama City,Panama.	8-10:30pm.
49.83	6.02	DJC	Zeesen,Germany	9:30-10:30pm.
49.87	6.02	HJ3ABH	Bogota,Colombia.	7-11pm Ex.Sunday.(30pm.
49.90	6.01	COC	Havana, Cuba.	9:30am-1pm;4-7pm;Sat 11:
50.00	6.00	RV59	Moscow,U.S.S.R.	3-6pm.
50.00	6.00	XEBT	Mexico City,D.F.	10am-11pm.
50.08	5.99	HJ2ABD	Bucaramanga,Colombia	Testing.
50.16	5.98	HIX	Santo Domingo,R.D.	Tues/Fri 8:10-10:10pm.
50.16	5.98	XBCW	Mexico,D.F.	Evenings irregular.
50.34	5.96	YNLF	Managua,Nicaragua.	7-9pm,irregular.
50.42	5.95	HJ1ABE	Medellin,Colombia.	7:30-11:30pm Ex.Sunday.
51.11	5.87	HJ2ABC	Cucuta,Colombia.	6:30-9pm Ex.Sunday.
51.28	5.85	YV5RMO	Maracaibo,Venezuela	5:15-10pm Ex.Sunday.
51.46	5.83	TIGPH	San Jose,Costa Rica	7-10pm Ex.Sunday.
51.90	5.78	OAX4D	Lima, Peru.	Wed/Sat 9:30-11:30pm
65.22	4.60	HC2ET	Guayaquil,Ecuador	Wed/Sat 9:30-10:45pm
67.11	4.47	YDB	Serabaja,Java.	4:30-9:30am.

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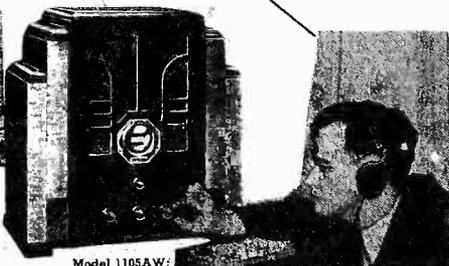


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