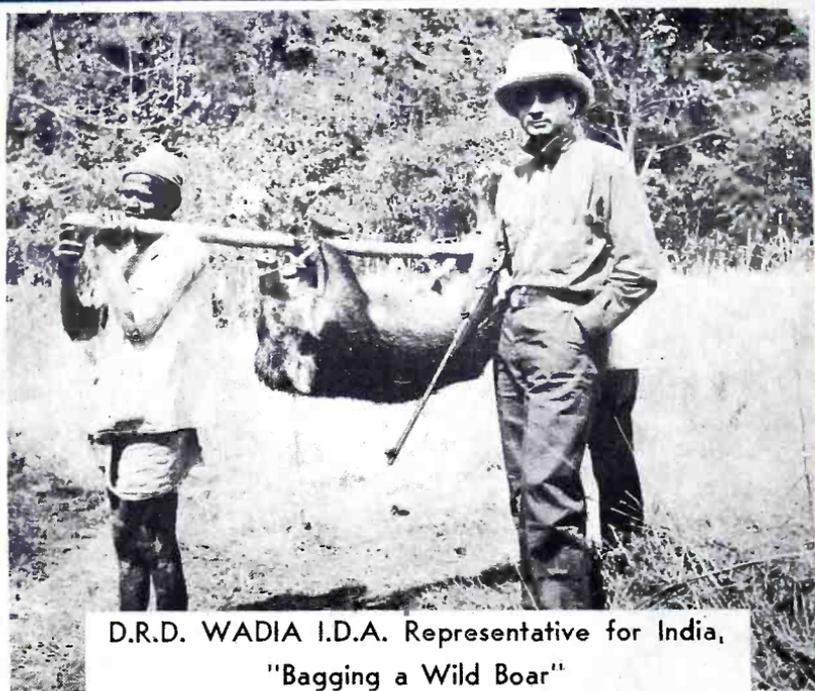


THE GLOBE CIRCLER

AUGUST 1935



D.R.D. WADIA I.D.A. Representative for India,
"Bagging a Wild Boar"

ONE
DIME

INTERNATIONAL DX'ERS ALLIANCE

LATEST AUSTRALASIAN LIST
REQUIREMENTS FOR D.S.W. DEGREE
ENLARGED SHORT WAVE LIST
SHORT WAVE NOTES

NEW I. D. A. MEMBERS

Frank Newton, Regina, Sask, CANADA.
Drexel Peterson, Boone, Iowa.
Father Walter Fritz, San Antonio, Texas.

F. B. Wilford, Middlesbro, ENGLAND.
William Frost, Great Bromley, ENG.
Mrs. C. I. Klinghammer, Decatur, Ill.
G. B. Spalding, Louisville, Kentucky.
W. Kelly, Johannesburg, SOUTH AFRICA
F. J. Snow, Johannesburg, SOUTH AFRICA
Arthur Long, Ft. William, Ont, CANADA.
Jerry H. Duncan, Miami, Florida.
Robt. B. Thomson, Regina, Sask, CANADA.
Jay Jonas, Kalamazoo, Michigan.
J. E. Marshall, Providence, R. I.
Joe Sacchi, Marshfield, Oregon.
Henry T. Mershon, Pueblo, Colorado.
M. L. Bartley, Arkansas City, Kansas.
M. Gaillard, Charellevault, Vienne, FRANCE.

Juan Nemeth, Bucaramanga, COLOMBIA.
Mrs. C. B. Bolles, Normal, Illinois.
E. H. Manning, Edmonton, Alta, CANADA.
S. R. Jacques, Jr., Macon, Georgia.
Abdul Razak Abdulla, Bombay, INDIA.
Robt. B. Hammersley, Galt, Ont, CANADA.
A. W. Schmidt, Manitowoc, Wisconsin.
Ronald E. Simms, Enfield, ENGLAND.

Harry Realff, Loon Lake, Sask, CANADA
R. H. Brown, Regina, Sask, CANADA.
Arthur Preece, Port Adelaide, SOUTH AUSTRALIA.

Harold Thomas, Jr, Philadelphia, Pa.
Mrs. Mable J. Wyckoff, Bloomington, Illinois.

Dr. G. W. Twomey, Fort Snelling, Minn.
Ernest H. Andreas, Managua, NICARAGUA
R. Stevens, Romford, Essex, ENGLAND.
Edward E. Lesiak, Scranton, Pa.
Victor Noble, Pasadena, California.
Arthur Fleming, Los Angeles, Calif.
Mel H. Buether, Los Angeles, Calif.
Norman B. Neeley, Los Angeles, Calif.
Hugh Huntley, Santa Maria, Calif.
Geo. L. Colburn, Los Angeles, Calif.
J. A. Carter, Los Angeles, California.
Harry C. Bradley, Los Angeles, Calif.
Baldwin Boomgard, Los Angeles, Calif.
A. H. Millard, Monrovia, California.
C. F. Strakisch, Beverly Hills, Calif.
B. W. Burke, Los Angeles, California.
O. Russell Melville, Regina, Sask, CAN
Emile A. Page, Glendale, California.
Robert Sparks, Hollywood, California
Mrs. R. C. Roche, Aliwal, North Cape Prov., SOUTH AFRICA.
J. J. Kolibonso, Gang Belle No. 18, Batavia, Centrum, Java, D. E. I.

Dear Sir:

It is with great deal of pleasure that I send you this letter. I am an Electrical Engineer of the station, JOGK, Jumamoto, and I am a DX listener, too.

I have much interest for the International Dx'ers Alliance, as I have read many DX reports to this station from your members. To my regret, these DX-reports are treated in the Department of General Affairs of JOGK not in the Dept. of Engineering to which I am belonged.

I have a 9-tube super het set, which is my own making. I have caught some DX-verifications from European broadcast band stations with this set in this year

As I have great enthusiasm to Dx listening, I wish to correspond with your members, if you please introduce me to your members.

Now I inform you the news about the Japanese stations.

1) JFCK, Taichu, Taiwan Island, is now officially on the air, on 580 kC with 1kW. Owner-Broadcasting Corp. of Taiwan.

2) JBAK, Fuzan, Chosen, will be opened before Sept, 1935, with an antenna power of several hundred watts, on about 1020kC. Owner-Broadcasting Corp. of Chosen.

3) Stations at Kagashima, and Toyama will be opened before next DX season with antenna power of 500 watts. The stations will operate on 1060 and 760kC. Owner-Broadcasting Corp. of Japan.

Thanking you for your attention
Truly yours,

A. Saito,
Shimiza Transmitting Station
of JOGK, Kumamoto, Japan.

VONF, St. John's, Nfld, 1195kC, 4kW, transmits a special program on Saturday nights, from 7 to 8:30pm EST. (P. J. Walsh, St. John's, Nfld.).

Long Wave Station, Luxembourg, is anxious to get reports from IDA members. Its schedule is 2:45-3:30 am, 7-9am, 1:15-6pm EST. Saturdays 10:45am-7pm. Radio Luxembourg, Luxembourg, is on 1304 meters, with 200kW

A Spanish speaking mystery station, believed to be a South American heard in early evenings on 902kC. (E. L. Peters, Westport, N. S.).

EST) WORLD FAMOUS DX PERIODS

TUES 5:35-6pm W2XAF 9530kC

"S. W. Mail Bag" with E. Darlington

SAT 11:01-11:30pm W8XK and KDKA

"KDKA DX CLUB" Pioneer DX Period with Joe Stokes and Ed Lips.

SUN 1-1:15am KFI 640kC.

"Around the World" with Frank D. Andrews, Good-Will Ambassador.

WITH OUR MEMBERS



Ralph Schofield
Missoula, Montana



G. T. Magee
Birmingham, Alabama



Wm. Caulfield atop
Mt. Teide, Canarias IIs

CORRESPONDENCE CORNER

Floyd Hammond, Pleasant St., Dexter, Maine, would like to correspond with members in Africa, Hawaii, China, Japan, or other foreign countries.

Albert Geoffrey Cutts, B. Sc, 75, Broomhall St, Sheffield 3, England, would like to correspond with members in Canada, South Africa, India, Australia

Ernest M. Niven, 4 Broughton St, Dunedin, New Zealand, will correspond with any members, and will answer all letters.

L. M. Young, 193 Venice Rd, Durban, Natal, S. Africa, will be glad to exchange used stamps with other Dx'ers.

O. Ingmar, Oleson, Ambrose, North Dakota, would like to correspond with other members using Scotts, especially the 12-tube deluxe.

Edwin J. Wetton, 46 Cooper St., Strathfield, Sydney, N. S. W., Australia would like to correspond with members in Europe other than Gt. Britain.

**

Six European stations have increased power, namely Torun, 986kC, to 24 kW; Bordeaux, 977kC, to 30kW; Lille (Radio Nord) 1213kC, to 60kW; Lyons, 648 kC, to 100kW; Brasov, 160kC, to 150kW, and Motala to 150kW. (Stansfield-England)... I am enroute to London, Paris, Berlin and expect to call at the various S.W. Stations in behalf of I. D. A. and SWCNY (Harry Lange-N.Y.C.) ... Have erected a Vertical Aerial like John DeMyer's, and find it the best I have ever used. (Goodeve-Mich)... I am considering going 5 meter very shortly with my own rig. (McConnan-England)... We are indebted to Harry Jones for his efforts to make Metro-Goldwyn-Mayer I. D. A. conscious. (Ed)... We wish to apologize for listing Mr. Hoke Woodward, as in Beverly Hills instead of Los Angeles, thereby causing all mail to go astray for months. (Ed)... How about a contest to determine the Champion of Champions in the DX line regardless of location? (Ces Mann-N.Z.)... South Americans coming in here good. Counted 28 last Sunday at 4pm. Lat-

est loggings are GJAT, WJAS, CJGX, WIOD, WROK, WEEU, WRUF, XEAA, XELO, XEFZ, XEFJ. I have just started to DX again. (F. H. A. Barnett-New Zealand).



'Ces Mann'
Cambridge, New Zealand



Digger Sullivan
Cambridge, New Zealand



Stanley Cartwright
Mokau, New Zealand

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. 7

How would you like to have a much larger, more complete, and more attractive Globe Circler, containing ALL DX news in detail, more photographs, more human interest stories, and more complete lists? OF COURSE YOU WOULD! Well it is very possible, PROVIDING EACH of you will do his small individual bit. We believe it would be easy for each member to enroll, say three I.D.A. members. (Perhaps some would prefer to send the Globe Circler to Three DX friends as a gift). Lets make it a matter of I.D.A. pride to each hold himself responsible for at least three new enrollments before January 1st, 1936. The same proportionate amount of energy and enthusiasm that you expend will be returned to you one hundred fold in a larger and more useful magazine, and a finer International I.D.A.

Charles A. Morrison.

RADIO FELLOWSHIP

Beverly Hills-Hollywood IDA Chapt.

This remarkable IDA Chapter is now publishing its own Monthly bulletin, "The Listening Post" This neat and attractive 24-page mimeographed booklet, casts an unusual amount of credit upon its editor, the Chapter Chairman, Mr. M. H. Ryder, both for its attractive appearance and for its literary style.

Mr. Wm. Ellis, 2nd. Dist. IDA Director is now residing in Los Angeles, and has become Associate Editor of the "Listening Post".

Despite the summer heat and langour, RADIO FELLOWSHIP has added a number of distinguished new members.

Frank D. Andrews, Chapter Secretary, and popular conductor of the KFI feature, "Around the World DX Chat", has lately been the recipient of numerous letters and telegrams congratulating him upon his part in directing the successful international Radio features of "Foreign Trade Week".

May our own congratulations be extended to Frank, whose continued efforts as an International Radio Good-Will Ambassador has already endeared him to every IDA member, as well as countless Dx'ers in all parts of the world.

New gay colored chairs, and a large World Wall Map have been added to the already homey, and complete furnishings at the View Park Club House of RADIO FELLOWSHIP.

LONDON EPSILON CHAPTER

London Chapt. of IDA held its 6th meeting on June 24th, at the usual rendezvous-45, Essex St, Strand London, W.C.2, and had for its guests two well-known gentlemen, Mr. Fred R. Glade, of KSL, Salt Lake City, Utah and his friend, Mr. Pearson. Arrangements were discussed for a party of I.D.A. members to attend the Radio Show at Olympia. The July meeting of the Chapter was set for July 23rd.

REGINA JUBILEE CHAPTER

Although it is our youngest Chapter, REGINA JUBILEE, of Regina, Sask, Canada, has been expanding rapidly, and takes a back seat to no one in the matter of enthusiasm

Much of the Chapter's success we credit to popular Bill Ansell, 1st. IDA District Director, and to his colleague, Lloyd Westmoreland. Bill has been quite ill, and our best wishes go out to him for a speedy and complete recovery.

Michigan State Mgr., Howard Eck, of Lansing, has also been very ill, and at the time of writing is only slightly better. It is needless to say, old man, that we are looking forward to your again regaining your health. Our best wishes to you

IDA member, Mr. Carl Whitehouse, of 914 S. Fell Ave, Normal, Ill, is quite anxious to have anyone who built the "Whitehouse Copper Screen Aerial" write to him on the results.

APPOINTMENTS

British FAD Director.

Ernest G. Gaunt, Bradford, England.

Foreign Representatives.

NICARAGUA-Ernest H. Andreas.

SO. AUSTRALIA-Arthur Preece.

Provincial Manager.

ALBERTA-Jas. F. Maguire, Alberta.

State Managers.

WYOMING-Eric Butcher, Cokeville.

COLORADO-Henri Mershon, Pueblo.

N. & S. DAKOTA-O. Ingmar Oleson.

IDAHO-Frank E. Peters, Post Falls.

THE RANDOLPH-IDA DX TROPHY CONTEST

Revised Standings of Leaders

Charles Hesterman (Sask)	1	6265
W.K. Walton (England)	2	5390
Leo A. J. De Roo (Hawaii)	3	4141
Warren Reichardt (Mass)	4	3665
R. T. Coales (England)	5	3030
Howard Eck (Michigan)	6	2634
F. Crowder (England)	7	2015
R. H. Tomlinson (New York)	8	1960
R. Stansfield (England)	9	1295
John Shanks (Tennessee)	10	1291
R. S. Swenson (Illinois)	11	1288
F. Farr (England)	12	1266
A. C. Lyell (S. Africa)	13	1260
G. Haylook (England)	14	1245
R. F. Thompson (England)	15	1095
J. L. Sullivan (New Zealand)	16	1041
A. G. Ward (England)	17	900
Robt. Hough (New York)	18	820
R. W. Schofield (Montana)	19	791
Edw. Goss (New York)	20	770
L. Westmoreland (Sask)	21	574
A. L. Hynes (Newfoundland)	22	570
Dr. H. Jacobs (New York)	23	555
A. G. Cutts (England)	24	535
R. Hunt, (Calif)		1632

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

BEST CATCHES

- Dist. 1- Wm. Ansell, Regina, Sask.
 2WL, Wollongong, Australia. 50w
 Chas. Hesterman, Regina, Sask
 2AY, Albury, Australia. 50w
Dist. 3- Eric Butcher, Cokeville, Wyo
 HIX, Santo Domingo, R.D. 1000w
Dist. 5- John Shanks, Russellville,
 Frankfurt, Germany. (Tenn.)
 Joel Armantrout, Fitzgerald
 GPH, La Paz, Bolivia. (Ga.)
Dist. 6- Edw. Goss, Brooklyn, New York
 KZRM, Manila, Phillipines 50000w
 R. H. Tomlinson, Port Chester
 BUCHAREST, Romania. (N. Y.)
England- W. H. Walton, Sennen, England.
 CMGF, Matanzas, Cuba. 100w
New Zealand- J. L. Sullivan, Cambridge
 VK4NG, Qsld, Australia. Two watts.

BRITISH I. D. A. PHOTOGRAPH ALBUM

All British and European IDA members are requested to send photos of themselves, and their equipment to the Editor of the "British Globe Circler", C. K. McConnan, 8 Cross by Road S., Waterloo, Liverpool, England, as an Album is being made.

As soon as a reasonable number have been received they will be pasted in a suitable book, and sent to as many members as would like to see them. Three photos may be sent, not greater in size than 3 1/2" by 5 1/2", with a short description of receivers attached.

OFFICIAL S. AFRICAN RELAY STATIONS

In recognition of their valuable services, ZSLC, Wynberg, Cape and ZTLH, Beam Wireless Station, Kliphevel, Cape, have been appointed Official Relay Stations of the IDA in S. Africa for the transfer of urgent messages.

REGARDING HJN VERIFICATIONS

We do not desire to blacklist Station HJN, for failure to send veri's on their IDA Broadcast of several months ago until a thorough investigation is made. Mr. Robt Weber, of the FAD is taking the matter up with the proper authorities

TOMLINSON GERMAN CORRESPONDENT

The German Short Wave Authorities have requested that all comments or suggestions on their S.W. programmes, other than ordinary reception reports be routed thru some central office. We suggest all IDA members send such material to R. H. Tomlinson, 125 Terrace Ave, Port Chester, N. Y., FAD correspondent to Germany for the I. D. A., who will in turn send it to the authorities.

VATICAN MODEL REPORTS

The Vatican Station has published a model reception report form. Father Soccori, of the Vatican, has been kind enough to see that we got some of these. Anyone wishing a copy, kindly send us a stamped envelope.

RADIO NEWS ANTENNA TUNER

We highly recommend the Antenna Tuning Device described in the July Radio News. Copies of this magazine may be had for 25¢, or a large blueprint for the same price Address: Teck Publications Inc., Radio News, 461-8th Ave., New York, New York--attention, Mr. S. G. Taylor.

COMPLETE AUSTRALIA—N. Z. LIST

All Changes to be Effective on and after 1st September

KG/S	WATTS						CALL
550	10000	Cumnock, N. S. W. (1)	2CR	1140	200	Dunedin, N. Z.	4YO
560	10000	Minding, W. Aust. (2)	6WA	1150	50	Wagga, N. S. W., Aust.	2WG
570	5000	Wellington, N. Z.	2YA	1150	17	Gisborne, N. Z.	2ZM
580	10000	Horsham, Vict, Aust.	3WV	1160	100	Mackay, Que, Aust.	4MK
590	1000	Hobart, Tasmania	7ZL	1170	200	Townsville, Que, Aust.	4TO
600	7000	Clevedon, Que, Aus (1)	4QN	1170	7	Masterton, N. Z.	2ZD
610	3500	Sydney, NSW, Aust.	2FC	1180	600	Melbourne, Vict, Aust.	3KZ
620	500	Invercargill, N. Z.	4ZP	1190	1000	Sydney, NSW, Aust.	2CH
630	4500	Melbourne, Vict, Aust.	3AR	1200	300	Adelaide, S. Aust.	5KA
640	7500	Crystal Brook, S. Aus	5CK	1200	500	Christchurch, N. Z.	3YL
650	10000	Auckland, N. Z.	1YA	1210	50	Grafton, NSW, Aust.	2GF
670	7500	Corowa, N. S. W., Aust.	2CO	1210	500	Kalgoorlie, W. Aust.	6KG
690	3500	Perth, W. Aust.	6WF	1220	1000	Toowoomba, Qsld, Aust	4AK
700	7000	Lawrence, NSW, Aust. *	2NR	1220	100	Dunedin, N. Z.	4ZL
720	2000	Kalgoorlie, W. Aus (3)	6GF	1230	2000	Newcastle, NSW, Aust.	2NC
720	10000	Christchurch, N. Z. -*	3YA	1240	250	Sale, Vict, Aust.	3TR
730	2000	Adelaide, S. Aust.	5CL	1240	50	Hastings, N. Z.	2ZL
740	3000	Sydney, N. S. W., Aust.	2BL	1260	60	Shepparton, Vict, Aus	3WR
750	7000	Kelso, Tasmania *	7NT	1260	50	Manurewa, N. Z.	1ZM
750	100	New Plymouth, N. Z.	2YB	1270	1000	Sydney, NSW, Aust.	2SM
770	3500	Melbourne, Vict, Aust	3LO	1280	600	Melbourne, Vict, Aust	3AW
770	45	Hamilton, N. Z.	1ZH	1280	5	Cromwell, N. Z.	4ZC
790	10000	Dunedin, N. Z. (3)	4YA	1290	500	Brisbane, Que, Aust.	4BK
800	2500	Brisbane, Qsld, Aust.	4QG	1300		Tamworth, NSW, Aust.	2TM
820	50	Hobart, Tasmania	7HO	1300	25	Greymouth, N. Z.	3ZE
820	65	Napier, N. Z.	2ZH	1310	300	Adelaide, S. Aust.	5AD
830	7000	Longford, Vict, Aus *	3GI	1310	65	Auckland, N. Z.	1ZJ
840	250	Wellington, N. Z.	2YC	1320	50	Bellarat, Vict, Aust.	3BA
850	1000	Renmark, S. Aust.	5RM	1330	50	Rockhampton, Qsld.	4RO
870	1000	Sydney, NSW, Aust.	2GB	1340	50	Lismore, NSW, Aust.	2XN
880	500	Perth, W. Aust.	6PR	1340	5	Balclutha, N. Z.	4ZR
880	500	Auckland, N. Z.	1YX	1350	50	Geelong, Vict, Aust.	3GL
900	50	Mildura, Vict, Aust.	3MA	1360	100	Broken Hill, NSW, Aus	2BH
900	50	Warwick, Que, Aust.	4WK	1360	100	Port Moresby, Papua.	4PM
900	105	Wairoa, N. Z.	2ZP	1360		Burnie, Tasmania.	7BU
910	2000	Rockhampton, Que, Aus	4RK	1360	50	Nelson, N. Z.	2ZR
930	600	Melbourne, Vict, Aust	3UZ	1370	50	Horsham, Vict, Aust.	3HS
940	400	Greyhound, N. Z.	3ZR	1380	600	Brisbane, Qsld, Aust.	4BH
950	1000	Sydney, NSW, Aust.	2UE	1390	100	Goulburn, NSW, Aust.	2GN
960	300	Adelaide, NSW, Aust.	5DN	1400*	300	Perth, W. Aust.	6IX
960	150	Palmerston North, NZ	2ZF	1400	200	Palmerston North, NZ	2ZO
970	200	Bendigo, Vict, Aust.	3BO	1410	500	Newcastle, NSW, Aust.	2KO
980	30	Ayr, Qsld, Aust.	4AY	1420		Melbourne, Vict, Aust	3XY
980	50	Narrogin, W. Aust.	6BY	1430	50	Wollongong, NSW, Aust	2WL
980	250	Gisborne, N. Z.	2ZJ	1430		Gympie, Qsld, Aust (4)	4GY
990	....	Central, N. S. W.	...	1440	50	Gunnedah, NSW, Aust.	2MO
1000	300	Toowoomba, Que, Aust.	4GR	1440		Ipswich, Qsld, Aust.	4IP
1010	300	Hamilton, Vict, Aust.	3HA	1450	100	Murray Bridge, Aust.	5MU
1020	1000	Sydney, NSW, Aust.	2KY	1460	300	Ulverstone, Tasmania	7UV
1030	600	Melbourne, Vict, Aust	3DB	1470	....	Bega	...
1040	2000	Crystal Brook, S. Aus	5PI	1470		Cairns, Qsld, Aust.	4CA
1050	500	Canberra, NSW, Aust.	2CA	1470	140	Christchurch, N. Z.	3ZM
1050	25	Dunedin, N. Z.	4ZO	1480	50	Albury, NSW, Aust.	2AY
1050	100	Dunedin, N. Z.	4ZM	1490	50	Tamworth, NSW, Aust.	2TM
1050	70	Dunedin, N. Z.	4ZB	1500	....	Hobart, Tasmania	...
1060	25	Mobile in Aust.	3YB	1500	50	Melbourne, Vict, Aust	3AK
1070	500	Northam, W. Aust.	6AM				
1080	50	Swan Hill, Vict, Aust	3SH				
1090	200	Auckland, N. Z.	1ZB				
1100	300	Launceston, Tasmania	7LA				
1110	750	Sydney, NSW, Aust.	2UW				
1120	1000	Brisbane, Que, Aust.	4BC				
1130	300	Perth, W. Aust.	6ML				
1140	500	Newcastle, NSW, Aust.	2HD				

NOTE: (1) To be completed November
 (2) To be completed October.
 (3) To be completed December
 (4) To be completed in 1936.
 * Should be operating NOW.
 - * 10kW Xmtr should be done

Around the World With the Broadcasters

(NEW)

EUROPE	<u>Romania</u>	Radio-Romania, near Brasov, 150kW, 1875m testing.	
	<u>Germany</u>	Deutschlandsender, 191kC to go to 150kW shortly	
	<u>Bulgaria</u>	100kW transmitter under construction at Sofia. 2kW relay stations to be erected at Varna, Stara and Zagora.	
	<u>France</u>	Lille, (Radio PTT Nord), 1213kC, 60kW testing. Lyons, (La Doua), 648kC, 100kW now testing. Pinsk, to have station shortly.	
	<u>Poland</u>	Rome, to build two 120kW Xmters at Santa Palomba	
	<u>Italy</u>	Bologna, 50kW Xmtr almost Completed. (Florence. Bari, to have station to relay Turin, Milan and-	
	<u>Yugo-Slavia</u>	Maribor to have a low powered station.	
	<u>Portugal</u>	Lisbon, "Emissora Nacional" to go to 100kW. Oporto to have 20kW relay (238kC). Algarve region to have 5kW relay (1013kC). Azores islands to have 5kW relay. Madeira to have 1kW relay.	
	<u>Spain</u>	Tenders called for New Stations at: Madrid, 1639 meters, 150kW. Madrid, Barcelona, Valencia, Sevilla, La Coruna, and Vizcaya to have 20 to 60kW stations. Tenerife, Oviedo and Murcia to have 5 to 10kW stations. (Denmark.)	
	<u>Faeroe IIs</u>	To have the 1kW transmitter from Copenhagen, -	
ASIA	<u>India</u>	Delhi, 882kC, 20kW to be on the air by November.	
	<u>China</u>	Hong Kong, 620kC, 2kW on the air.	ZEK
AUSTRALASIA	<u>Australia</u>	Warwick, Qsld, 900kC, 50 watts started in May Toowoomba, Qsld, 1230kC, 1kW by September Ipswich, Qsld, 1440kC, by September Gympie, Qsld, 1430kC, sometime in 1936 Tamworth, N.S.W., 1490kC, 50 watts on air Kelso, Tasmania, 750kC, 7kW on air shortly Murray Bridge, S. Aust, 1450kC, 100w on air Cairns, Qsld, 1470kC, 100 watts on the air Port Moresby, 1360kC, 100 watts shortly Rockville, (Md.), 1140kC, 250 watts. Newport, (R.I.), 1200kC, 100-250 watts. Del Monte, (Calif.), 1210kC, 100 watts. Durango, (Colo.), 1370kC, 100 watts.	4WK 4AK 4IP 4GY 2TM 7NT 5MU 4CA 4PM
N. AMERICA	<u>Papua</u>		
	<u>U.S.A.</u>		WNRI
		(CHANGES)	
EUROPE	<u>Italy</u>	Bolzano, 536kC, from 1 to 10kW.	
	<u>Austria</u>	Linz, 1285kC, from 1/2 to 15kW. Graz, 886kC, from 7 to 15kW. Vorarlberg, 1294kC, from 2 to 5kW.	
	<u>Spain</u>	Seville, 731kC, to go from 1 1/2 to 3kW Madrid, 1095kC, to go from 7 to 12kW Kuldiga, 10kW, from 1249 to 1258kC	EAJ5 EAJ7
	<u>Latvia</u>		
	<u>Belgium</u>	Brussels 1 & 2, to go from 15 to 100kW.	
AFRICA	<u>Morocco</u>	Rabat, 601kC, from 6 to 25kW	CNR
AUSTRALASIA	<u>N. Zealand</u>	Dunedin, 1450kC, 60 watts off the air. Dunedin, 790kC, to have 10kW/s by December	4ZW 4YA
	<u>Australia</u>	Brisbane, Qsld, 1290kC, now has 500 watts. Brisbane, Qsld, 1145kC, from 850 to 1000w	4BK 4BC
N. AMERICA	<u>U.S.A.</u>	New Britain, Conn, 1380kC, 250w, from WNBC to WMFE Enid, (Okla.), 1370 to 1360kC, power to 250w Detroit, (Mich.), 750kC, 10 to 50kW. Amarilla, (Texas), KGRS, to consolidate with and change call to-- Tuscola, (Ill.), 1070 to 1020kC, 100 to 250w Mississippi City, (Miss.), 1210 to 1120kC Memphis, (Tenn.), 780kC, 1 to 2 1/2 kW Allentown, (Pa.), 1440kC, 250 to 500 watts WROL, 100 to 250w; KLZ, 2 1/2 to 5kW; WREN, 1 to 5kW KFH, 1 to 5kW; WPAX, 100 to 250w; WJAX, 1 to 5kW	KRCR WJR WDAG KGNC WDZ WGCM WMC WCBA

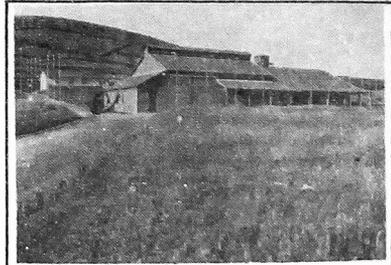
ON THE SHORT WAVES

DOCTOR OF SHORT WAVES DEGREE (D.S.W.)

The D.S.W. Rules Committee, Messrs. Lawton, Ryder, DeMyer and Bigbee announce the following Official rules for acquiring the D.S.W. Certificate:-

A member in order to become eligible for the degree of D.S.W. must have at least 100 Short Wave verifications, including at least three from each of the six major continents, and representing at least twenty-five foreign countries, colonies or protectorates, exclusive of the one on which applicant lives. Members residing in India may, in lieu of the 100 short wave verifications, have five from each of the six major continents... Amateur Phone stations if on voice, and not on same Continent as applicant, shall count... Commercial stations that verify or signify that verification is implied, shall count... Rugby Commercial stations that merely thank listener for report shall not be counted. Daventry stations shall count since no card would be mailed unless correct report was given... All verifications for eligibility must be inspected and OK'ed by your District Director or Representative... Certificates will be issued from Headquarters. The fee will be \$1.00.

NORTH AMERICA



Short Wave Station CT2AP
St. Michael's, Azores, Islands

WQXAA, Chicago (6.08), 20th Fl, American Furniture Mart, 666 Lake Shore Drive, Chicago, put a new aerial in use recently, designed to give better results in Europe... W2XE, Wayne, New Jersey, has abandoned their (11.86) transmissions (Millican)... Present schedule of W8XK is 13.91m/21.54MC, 7-9am EST; 19.71m/15.21MC-9am-7pm EST; 25.26m/11.87MC, 5-9pm; 48.83m/6.14MC-9pm-1am EST. (Stokes)... W4XB, Miami, Florida, (6.04) is back on the air from 1pm-3pm, and 9pm-1am daily. (Robinson-McMenamy)... W3XK will be the Short Wave relay of station KYW, Philadelphia. (Stokes)... WVD, (8.62) heard calling WXA, Juneau, Alaska, (8.05) near midnight EST (Maguire)... KGMB, (15.225) call given 1pm EST. (Maguire)... WWV, Dept. of Standards, heard on 10MC testing from 10:40-11pm, with power of 500 watts (Bigbee)... W10XFN, Stratosphere ground station, 6350Kc, heard testing with W10XFN 13050Kc. (Twomey)... WOQ, Ocean Gate, N.J., and WOY, Lawrenceville, changed frequency to 4177.5... WKF, Lawrenceville, N.J., also changed frequency to 4177.5kc... New schedule of W2XAD (15.33), 2-3pm EST, daily--10:30am-4pm EST, Sundays. Schedule of W2XAF (9.53), 5:30-11pm EST, daily--4:15-12pm EST, Sundays.

XECR, Mexico City, D.F., (7.38), 40.6 meters transmits Mexican Govt. program every Sunday 6-7pm EST. Transmitter at Chapultepec but uses the studios of XEBT. Power 20kW (Radio Fellowship)... XEBT, (6) gives Sport-flashes daily at midnight EST. They read listeners letters every Thursday at 9pm EST... X2AH is the short wave relay of XEMO, at Tijuana, Mexico. Operates on 14MC band with 500w. Usually heard 5-8pm EST.

Sancti Spiritus, Cuba, C09WR, relays station CMHB. Has 100 watts power and is on 10.2MC in afternoons (Radio Fellowship). C09WR has now moved to 25.42 meters (11.80), and is heard irregularly, 7-12pm EST (Shanks)... New Cuban being heard on approx. 34 meters (8.82), either COLHB or COLJB (CSWRC)... C0CD being heard every night on (6.13) until midnight EST. Lately has been interfered with by a new Colombian, HJ4A ?? (Clark)... C0C seems to have cancelled Sunday broadcasts, but is still heard on Sunday until 9:40pm EST, and irregularly. (Clark).

HH2T, Port-au-Prince, Haiti, is heard irregularly from 7-10pm EST on (11.79) (Shanks)... H1I, (10MC) tests with HJA7 near 8pm EST (Clark)... H1H, is heard irregularly on (6.81) from 9-12pm EST (Shanks)... H1Z, San to Domingo, D.R. is on the air again on (6.32). The schedule is daily except Sundays from 5-6pm EST. Special DX programs Saturday at 11pm EST WTDW/WTDX/WTDV, (4.3) of Public Works Dept, Christianstad, S. Croix, Virgin Islands, are used only from July to October for broadcasting hurricane warnings.

VE9CA, (6.03) is owned by "The Voice of the Prairies", Ltd, Calgary, Al-

berta, Canada, relays CFCN daily. Reported to use 10kW (BGC-Maguire).....
VE9CS, Vancouver, BC (6.07) uses 2½ watts of power. Have a DX program on
Monday at 1am EST (Maguire)... CJAH, Drummondville, Ont., (10.52) heard
testing with VIZ3, Melbourne, Australia. (Twomey-BGC)...

CENTRAL AMERICA

New Station, TIRCC, "Radioemisora Catolica Costarricense", Apartado
1064, San Jose, Costa Rica, (6.55) 45.8 meters, 500 watts, 6-7pm EST, & irr.
TIRCT, (12.98) also heard broadcasting same program. (Shanks-Clark-De-
haven)... TIPG, San Jose, Costa Rica, was heard on (6.55) but are now
heard irregularly on (6.4), 7-10:30pm EST. (Shanks-Clark).

New Station, HF5H, "The Voice of Colon", Colon, Panama, (6.07), 49.4 meters
has 300 watt transmitter... HJ5J (9.59) to have new 1kW Xmtr shortly.
YNLF, "La Voz de Nicaragua", Calle 15 de Septiembre, No. 206, Managua DN,
Nicaragua, is on (5.96) with 1kW, works 7-8:30pm, and sometimes to 11:15
pm EST (BGC).

HRP1, San Pedro Sula, Honduras, heard testing on 42.48 meters, and said
would be on 49 meters soon. Heard 8-10pm EST (BGC).

TGX, Guatemala City, Guatemala, has been roaming around between 50-53m,
but rests on 52.45 meters (5.72) most of the time (Shanks). Schedule is
7:30-9pm EST... TGW, Guatemala City, Guatemala, is on 50meters (CSWRC) is
on 50.51 meters (BGC). TG2X, Ministry of Public Works is 50.51 (CSWRC)...
TGLX, Ministry of Public Works, Guatemala City, relays TGW Sundays 1-6am,
EST on 31.75m (9.45) (CSWRC).

SOUTH AMERICA

HJ1ABC, Quibdo, Colombia, installing new Xmtr. of 100 watts (McCormick).
... HJ1ABD, "Ondas de la Heroica", Cartagena, Colombia, has moved from 41.1
to 41.2 meters (BGC)... HJ1ABE, Cartagena, Colombia, on (6.115) almost
every evening until 12:30am EST. Send reports to Box 31 (Clark). HJ1ABE
increasing power and will work on 24 meters (McCormick)... HJ1ABG, "Emis
ora Atlantico", Barranquilla, (6.04) now on air for US listeners with a
special program starting 11pm Saturday nights EST (Radio Fellowship)...
New Station, HJ1ABH, "La Voz de Cienaga", Cienaga, Colombia, 60 watts now
broadcasting from 7:30-10pm EST on Tues, and Fri. (Radio Fellowship)...
HJ1ABJ, "The Voice of Santa Marta", Santa Marta, Colombia, broadcasts on
49.95 meters (6.005) daily from 7-10pm EST (Clark-BGC)... HJ3ABF, Bogota
Colombia, (6.17) installing 250 watt Xmtr (McCormick)... HJ3ABF is still
on 49.87 meters (Clark). HJ3ABH was on 6012 until last night, and then
they were on 5980kc again (Robinson)... HJ3ABL, Villavicencio, Colombia,
works Amateurs irregularly (McCormick)... HJ4ABA, "Ecos de la Montana",
Medellin, Colombia, a new station (11.7) on 5-10pm EST daily (Millican-
Schumacher-Adams)... HJ4ABB, Manizales, has moved to 49.1m (6.11) and will
raise power to 3500 watts, and be on nightly from 11 to 12pm EST. Pre-
sent Sked is 8-10pm (Clark-Swenson)... HJ4ABC, Pereira, Colombia, has just
installed a 100-watt Xmtr, and are on (6.1) from 7-10pm EST (McCormick)
.. New Medellin, Colombia, station HJ4ABD, will have 300 watts on 9.55MC
(Clark). HJ4ABD heard on 49.01 meters (Roof)... HJ4ABE, "La Voz de Antio-
quia", Medellin, Colombia, is on 50.6 meters (5.93) 6-10:30pm EST daily
(Streuber)... HJ4ABJ, "Ecos del Combeima", Ibague, Colombia, works daily
on 6.3MC from 7 to 10pm EST (McCormick)... HJ4ABL, "Ecos de Occidente",
Manizales, Colombia, is now on 6.06MC; 5:30-7:30pm EST daily (Donaldson-
BGC-Clark)... New Station, HJ5ABE, Radiodifusora Colombiana, Cali, Colombi-
a, 14.1MC, is on daily 6:45-10pm EST, with 50 watts power. Three deep
musical notes before each announcement. This is not a harmonic (Streu-
ber-Shanks-Twomey-Schumacher-Goodeve)... HJ5AG, Cali, Colombia, reported
on 7MC... HKE, Bogota, Colombia, (7.14) heard well at 6-6:15pm... HKN
Medellin, Colombia, listed on (7.14)... HKV, Bogota, Colombia, heard on 34.
09 meters (Millican). HKV on 34.11 (BGC)... HKV, on 7.9MC from 8-10pm EST,
Tues, Thurs, Sat (McCormick).

VP3MR, "The Voice of Guiana", Georgetown, British Guiana, is on (7.08)
with this schedule: Sunday 7:45-10:15am EST; Mon, Wed, Sat 6:45-7:45pm,
EST; Monday 3:45-4:45pm, and Thursday 5-6:45pm EST. (Ed. Goss).

The Commercial S.W. "Compania Internacional de Radio", transmits the
programs of Buenos Aires stations irregularly on the 19 and 31meter
bands (Hernandez)... LSQ (19.5) heard calling PSK (8.19) at 9pm EST.
LSQ played music at 9:45 and off air at 10pm (Clark).

PSK (8.19) testing with LSL (9.96) at midnight -2am EST (Walker)...
PRAB, "The Voice of the North", Avenida Cruz Cabuge 394, Recife, Brazil,
(6.04) puts on English broadcast daily at Noon-12:30pm EST (W.R.)

HCJB, "The Voice of the Andes", Quito, Ecuador, is on its new wavelength of 36.52 meters (8.21) every evening except Monday from 7:14-11:14pm EST; Sundays from 4:14-10:14pm EST (IDAHQ)...HC2AT, American Trading Co., Casilla 872, Guayaquil, Ecuador (8.4), have increased their power...HCETC, is located at Quito, Ecuador, and broadcasts Wednesday, and Saturday at 8pm EST on (7.976), with 30 watts. Address Sr. Manuel Mantilla, Casilla 134, Quito, Ecuador (Radio Fellowship)...HC2JSB, Guayaquil, Ecuador (7.83), uses a two-note chime interval signal, and announces in English often (Donaldson)...OAX4G, Roberto Grellaud & Cia., S en C Avenida Abancay 915-923, Lima, Peru, operates as a relay of OAX4B. OAX4G is on (6.23), and uses high power on Wednesdays from 7 to 11:30pm EST. Although it is claimed OAX4D, Lima, Peru, will not verify, Russell Bills has received a verification from them...

YV5RM (6.19), is a new station in Venezuela...YV2RC (6.112), Caracas, Venezuela, are about ready to inaugurate the new 1kW Xmtr...YVQ, Maracay on (13.34), has been heard in the evenings at 7:30pm EST (Schumacher)
CEC, Santiago, Chile (10.67), has been testing Thursdays, Sundays and irregularly at 8:30-9pm EST. Signing off with bugle calls. (Shanks-BGC-)

AFRICA

ZTJ, Johannesburg, S. Africa, is on 6.097MC; broadcasts special programs on Wednesdays and Saturdays from 9-11pm P.S.T. (DeHaven)...VQ7LO, Cable, and Wireless, Ltd., Nairobi, Kenya, East Africa, is on 6.116MC at present. Best time to get VQ7LO is 5:45-6:15am EST, Mon, Tues, Wed, Thurs, Fri. (In writing to VQ7LO, a specific report must be given for a verification)..CR6AA, Lobito, Angola, Africa, is on 7.177MC, Wed/Sat 2:30-4:30pm EST (Tomlinson)...OPM, Leopoldville, Belgian Congo, Africa (10.14). Heard June 27 -2:40pm EST. Man calling "Allo-Allo" then drums, and men yelling from jungle. July 10-1:56am EST calling "Allo-Allo Coquilhatville". July, 13-3:38pm EST with program in honor of a visiting dignitary. (Miller)..SUZ, Abou Zabal, Egypt (13.82), works GBB (13.59) almost daily 11am-noon EST. (Miller)...CNR, Rabat, Morocco, Africa (12.83), works Paris at 4am. Leaves carrier on for hours but rarely talks. (Miller)...CNR, Rabat, Morocco, Africa (8.04) heard one Sunday at 3:08pm EST with musical programme. Reception poor (Miller-Brooklyn, N.Y.).

EUROPE

Rugby, England (10.77), called VLK, Sydney, at 12:10am EST, then reverted to scrambled speech. (Radio Fellowship)...GSD/GSE carried out Aerial tests for several nights at 8:30pm EST. This may be the forerunner of a new transmission period...BBC erecting two new Super power transmitters, and when completed the two old ones will be combined to form a third, making three powerful BBC Xmtrs... Starting June 30th, BBC Transmission # 6, 10-11pm began to be radiated daily over GSC and GSD...

FNSK, the Steam Ship "Normandie" when talking to New York uses the following frequencies: 4.41, 8.83, 13.21, 17.65, 22.06. When talking to France: 4.39, 8.81, 13.19, 17.65, 22.04MC. 17MC used in mornings. 13MC afternoons. 8MC in the evenings. 4MC when nearing port. Send report to French Line, Pier 88, North River at the foot of W. 48th St. N.Y.C. ... New Radio Coloniale, with 100kW will operate on 21.49, 17.76, 15.29, 11.84, 9.58 and 6.14MC... Heard Paris on 24.5m calling, "Allo-Allo Radio Rabat" at 5:18am EST. (Miller).

CT1AA, "Radio Coloniale", Lisbon, Portugal (9.59), now has 2kW. (Caulfield). CT1AA, heard one Saturday afternoon on 25.3m (Shanks)... Invicta Radio, at 304, Rua de Santa Catarina, 308, Oporto, Portugal, are on 51.79m, (5.79), waiting for Govt. permission to operate (Caulfield)... New Govt. Short Wave station being erected with 20kW at Lisbon.

RNE, Moscow (12MC), has taken over RV59's schedule for the summer, and may be heard daily from 1-6pm EST, Sunday 6-7, 10-11am, and Wednesday 6-7am (Clark)... New address for Moscow stations: U.R.S.S. Comite de Radiodiffusion et Radiofication aupres due Conseil des Commissaires du peuple, MOSCOU, Petrovka, 12. (Shanks)... New Russian station on 30.8meters regularly after 3pm EST, relays 50meter programs (Cutts)...

OER2, Vienna, Austria, announce as Wednesdays 9am to 5pm EST. They announce in six languages before signing off. OER2 makes special transmissions irregularly from 7-10pm EST for South America (Robinson)...

HBB, Geneva (18.46), continues their Monday morning programs to Australasia at 3:15-3:30am E.S.T.

The new Icelandic frequencies will be TFK, 9.06; TFL, 13.96; TFI, 5.06. These stations located at Reykjavik should be completed in August.

CTIAJ, San Miguel, Azores (15.38), is on the air from 9:30-11am EST on Tues, Wed. (Stokes)... CT2AJ heard tonight R6/XX/F. (Caulfield).

DFD, Nauen, Germany (14.665), has been on the air with DFL (10.85) contacting Tokyo 2-4am EST irreg. (Tune In)... Verification received from DIG, Nauen, Germany (10.29) (Williams)... DJB, Zeesen (15.20), broadcasting with American beam irregularly.

IDBX (11.47), is Marconi's yacht, the "Electra"... The Rome Short Wave stations should be addressed as "Radio 2RO, Montebello 5, Rome, Italy... 2RO, 25.4 meters (11.8) frequency is now being used for transmissions to the U.S.A. on Tues, Thursday and Saturday from 6-7:30pm EST... IRJ, 22.7 meters heard contacting SUV, one Monday at 5pm EST (Miller).

ASIA

RV15, Khabarovsk, USSR, broadcasts daily from 2:30-9:30am EST (4.27) but is usually not heard in America until 5am. RV15 doesn't use English, and doesn't verify at present, but shortly English will be used and verif's issued... RIM, Tashkent, USSR (15.25), heard calling "Hallo, Moscow, can you hear me?" July 4, at 10:05am EST, a Russian on 24.5 meters called "Allo Taska" (Miller)... New Station RRRI, Khabarovsk, USSR (15.97), calls Moscow almost daily, 4:30-5am EST (Miller).

ZCK, Hong Kong Broadcasting Committee, P.O. Box 200, Hong Kong, relays broadcast station, ZBW, daily on (8.75) 34.29 meters. A power of 250w is used. The schedule is usually 4-10am EST, although it sometimes is on until 11am. Heard best around 7am EST. ZBW call used exclusively. Sometimes broadcasts on 5.41MC (Clark-Butcher-Walker).

VUB, Bombay, India, now on Wed, Sat 6-7:30am EST. Freq (9.565) (Amlie)....

ZHI, Singapore, S.S., (6.01)-180 watts, still being heard on Pacific Coast Sun, Mon, Wed, Thurs from 5:40-8:10am EST (Clark)... ZHJ, Penang Wireless Society, 40 Perak Road, Penang, F.M.S., are using a new frequency of 39.3 meters (7.63) daily, except Sunday from 7-9am EST (Clark).

JVH, Nazaki, Japan, now broadcasting daily "Overseas Broadcast" from 12 Midnight to 1am EST on (14.6). JVH also tests Monday and Thursday from 4-5pm EST. JVH broadcasts irregularly between 10:30-11pm, and calls Rug by at 3:30am EST. Address reports to Overseas Broadcasting Section, The Broadcasting Corporation of Japan, Hibiya Park, Tokyo, Japan (Miller-Clark-Magee-Maguire)... JVM, Nazaki, Japan (10.74), broadcasts daily from 1:45-2:20am, and 4-7:40am EST. Also Saturdays, 11:30pm-1am...

AUSTRALASIA

ZLT, Wellington, N.Z., (11.05) works VLJ, Sydney, Australia (9.76), about Midnight EST (BGC)... ZLT sends musical programs 1-2am EST, irreg.

VK2ME, Sydney (9.59) sked for August-Sunday 12-2, 4:30-8:30am, 10:30am-12:30pm EST... VK3ME, Melbourne (9.51) broadcasts "Around the World News" and DX Tips Wednesday 6-6:16am EST (Amlie)... VK3LR, Melbourne (9.58), broadcasts football games Saturdays 12:30-2:20am in addition to its regular sked of 3:15-7:30am EST (Clark)... VK3ZX, Victoria (7MC) broadcasts Sundays 5:30-7am (Petch)... VI22, Rockbank, Australia (11.49), tests in mornings with CJA, Montreal (11.44), also 11pm-1am EST, etc. (Clark).

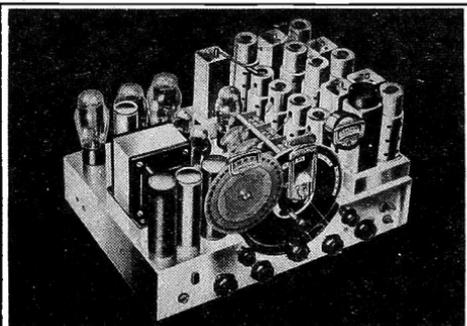
VPD, Suva, Fiji's (13.08) increasing in strength on their 12:30-1:30am broadcasts. VPLA call used experimentally at times (Bills-Clark).

PLP, Bandoeng (11MC) broadcasting early mornings. Heard best 5:15-8:30 am... PMN, Bandoeng (10.26), heard Sunday mornings 5:30-10am EST (Hardeman)... PLE, Bandoeng (18.83) broadcasts irreg. from 12:30-4:30am EST. Call Tokyo at 9pm EST... PLV, Bandoeng, Java, (9.42) transmits musical programs 10-10:30am EST Tues (Sometimes Thur/Fri)... YDH3 (3.49) formerly PK1WK being heard on Pacific Coast.

NOTE: Forced to omit Ham Notes this month on account of lack of space.

THE NEW PATTERSON PR16

INTRODUCING the NEW PR16! Far in advance of contemporary receivers, it has naturally taken some little time to develop this PERFECT receiver with 5kc separation on local & BC stations (2KC without distortion using crystal filter). Continuous Band Spread that can be logged. 18 measured watts output, etc..



THE NEW PATTERSON PR16

SHORT-WAVE BROADCASTING STATIONS

DIAL	METERS	MEGS	CALL	STATION	TIME	E.S.T.
13.93	21.54	WBXX	Pittsburg, Penna	7-9am		
13.97	21.47	GSH	Daventry, England	Irregular.		
14.19	21.16	LSL	Buenos Aires, Argen.	Phones mornings.		
14.29	21.02	LSN	Buenos Aires, Argen.	Phones Lawrenceville.		
14.38	20.85	EHY	Madrid, Spain.	Phones mornings.		
14.40	20.82	LSY	Buenos Aires, Argen.	Phone.		
14.97	20.04	OPL	Leopoldville, Congo.	Phone.		
15.24	19.68	CEC	La Granja, Chile.	Phone.		
15.37	19.52	IRW	Rome, Italy.	Phone.		
15.40	19.50	LSQ	Buenos Aires, Argen.	Phones PSK in evenings.		
15.50	19.355	FTM	St. Assise, France	Phone.		
15.51	19.35	PMA	Bandoeng, Java.	Phone.		
15.58	19.24	DFA	Nauen, Germany.	Phones day.		
15.62	19.20	ORG	Ruyssede, Belgium	Phone.		
15.82	18.96	LSR	Buenos Aires, Argen.	Phone.		
15.88	18.89	ZSS	Klipheuvcl, S. Africa	Phones England mornings.		
15.93	18.82	PLE	Bandoeng, Java.	12:30-4:30am irr, & 9pm.		
16.06	18.67	OCI	Lima, Peru	Phones afternoons.		
16.23	18.48	HBH	Geneva, Switzerland	Monday 3:15-3:30am.		
16.25	18.44	HJY	Bogota, Colombia.	Phones LSR at Noon etc.		
16.36	18.34	WLA	Lawrenceville, N.J.	Phones England day.		
16.38	18.31	FZS3	Saigon, F. Indo China	Phones Paris 9:30am irr.		
16.39	18.30	YVR	Maracay, Venezuela.	Phones Germany mornings.		
16.47	18.22	KUS	Manila, P.I.	Phone.		
16.55	18.13	LSY3	Monte Grande, Argen.	Phone.		
16.69	17.98	KQZ	Bolinas, California.	Phone.		
16.86	17.79	GSG	Daventry, England.	6-8:45; 9-10:45am.		
16.87	17.78	W3XAL	Boundbrook, N.J.	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.		
16.92	17.72	HSP	Bangkok, Siam.	Phones in early am.		
17.10	17.53	VWY	Kirkee, India.	Phones irregular.		
17.12	17.52	DFB	Nauen, Germany.	Phones mornings.		
17.37	17.26	DAF	Norddeitch, Germany	Phones ships.		
17.51	17.12	WOO	Ocean Gate, N.J.	Phones ships.		
18.47	16.24	KTO	Manila, P.I.	Phones Japan evenings.		
18.50	16.21	FZR3	Saigon, F. Indo China	Phones irreg.		
18.71	16.03	KKP	Kahuku, Hawaii.	Phones KWU.		
18.79	15.97	RRRI	Khabarovsk, Russia	Calls Moscow 4:30-5am.		
18.90	15.88	FTK	St. Assise, France.	Phones Saigon.		
18.95	15.82	OCJ	Lima, Peru.	Phone.		
19.04	15.76	JYT	Kemikawa, Japan.	Phone.		
19.16	15.66	JVE	Nazaki, Japan.	Phones Java 7pm etc.		
19.21	15.62	JVF	Nazaki, Japan.	Fones KWU 3:45pm etc.		
19.35	15.51	PMA	Bandoeng, Java.	Phone.		
19.45	15.42	KWO	Dixon, California.	Phones Hawaii.		
19.47	15.41	PRADO	Riobamba, Ecuador.	5-6pm Sundays irregular.		
19.51	15.38	CTIAJ	San Miguel, Azores.	9:30-11am Tues/Wed.		
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; Sunday 10:30am-4pm.		
19.63	15.28	DJQ	Zeesen, Germany.	8-11:30am to East Asia.		
19.64	15.27	W2XE	Wayne, New Jersey.	10am-2pm relays WABC.		
19.66	15.26	GSI	Daventry, England.	12:15-2:15pm.		
19.67	15.25	WLXAL	Boston, Mass.	9:50am-12:30pm.		
19.67	15.25	RIM	Tashkent, U.S.S.R.	Phones Moscow.		
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	WBXX	Pittsburg, Penna.	9am-7pm.		
19.74	15.20	DJB	Zeesen, Germany.	3:45-7:15am; 8-11:30am.		
19.82	15.14	GSF	Daventry, England.	6-8:45am, 9-N'n, 4-5:45pm.		
19.84	15.12	HVJ	Vatican City, Italy.	10:30-10:45am Ex. Sunday.		
19.88	15.09	RKI	Moscow, U.S.S.R.	Mornings irregular.		
19.92	15.06	WNC	Hialeah, Florida.	Works C.A. & S.A. Phones.		

19.95	15.04	WQG	Rocky Point, N.Y.	Phone, (Experimental).
20.03	14.98	KAY	Manila, P.I.	Phones U.S. evenings.
20.08	14.93	HJB	Bogota, Colombia	Phones WNC.
20.11	14.92	KQH	Kahuku, Hawaii.	Phone.
20.46	14.67	DFD	Nauen, Germany.	Phones Tokio.
20.55	14.60	JVH	Nazaki, Japan.	12-lam; Mon/Thur 4-5pm etc
20.69	14.55	TIN-TIU	Cartago, Costa Rica	Phones WNC.
20.69	14.55	TGF	Guatemala City, Guat	Phones WNC.
20.69	14.55	HBJ	Geneva, Switzerland	Phone (Experimental)
20.69	14.55	HPF	Panama City, Panama	Phones WNC.
20.72	14.48	GBW	Rugby, England.	Phone.
20.72	14.48	LSN	Buenos Aires, Argen.	Phones 12-6pm.
20.72	14.48	YNA	Managua, Nicaragua.	Phones WNC.
20.72	14.48	HRM	Telacigalpa, Hondur.	Phones WNC.
21.25	14.10	HJ5ABE	Cali, Colombia.	7-10pm.
21.48	13.96	TPL	Reykjavik, Iceland.	On the air shortly.
21.57	13.90	WQP	Rocky Point, N.Y.	Experimental.
21.71	13.82	SUZ	Abou Zaabal, Egypt.	Phones GBB 11am-Noon.
21.90	13.69	KKZ	Bolinas, California	Phone.
22.08	13.59	GBB	Rugby, England.	Phones Canada.
22.48	13.35	YVQ	Maracay, Venezuela.	Works WNC etc.
22.58	13.28	CJA7	Drummondville, Que.	Phones ships.
22.94	13.08	VPD	Suva, Fiji Islands.	12:30-1:30am Ex. Sunday.
22.99	13.05	W10XFH	Stratosphere Xmtr.	May be used at St. Louis.
23.11	12.98	TIRCT	San Jose, Costa Rica	Broadcasts with TIRCC irr
23.36	12.84	WOO	Ocean Gate, N.J.	Works ships.
23.39	12.83	CNR	Rabat, Morocco, Africa	7:30-9am Sunday & Phones
23.45	12.80	IAC	Coltano, Italy.	Works Italian ships.
23.47	12.78	GBC	Rugby, England.	Works ships. (N'n-1:30pm
24.20	12.40	CT1GO	Parede, Portugal.	Sun 9-10:30am; Tu/Thur/Fri
24.20	12.40	DAF	Norddelch, Germany.	Works ships.
24.56	12.21	VIY	Ballan, Australia.	Phone.
24.69	12.15	GBS	Rugby, England.	Phones New York.
24.83	12.08	CT1CT	Lisbon, Portugal.	Sun 8-10am; Thur 2-3pm.
25.00	12.00	RNE	Moscow, U.S.S.R.	1-6pm; Sun 6-7, 10-11am, Wed
25.02	11.99	FZS2	Saigon, F. Indo China	Tests near 9:30am irreg.
25.23	11.88		Pontoise, France.	11am-2pm; 2-5pm.
25.27	11.87	W8XK	Pittsburg, Penna.	5-9pm.
25.29	11.86	GSE	Daventry, England.	11am-Noon.
25.36	11.83	W2XE	Wayne, New Jersey.	6-8pm. (10:15am dly
25.40	11.81	ZRO	Rome, Italy.	Tu, Thur, Sat 6-7:30pm; 9:15-
25.42	11.80	C09WR	Sancti Spiritus, Cuba	7-12pm irreg.
25.42	11.80	WLXAL	Boston, Massachusetts	5-6:30pm.
25.45	11.79	HH2T	Port-au-Prince, Haiti	
25.51	11.77	DJD	Zeesen, Germany.	Noon-4:30pm, 5:05-10:45pm.
25.53	11.75	GSD	Daventry, England.	12:15-3:45, 6-8pm, 10-11pm,
				11:30pm-1:30am. (9:30pm,
25.60	11.72	CJRX	Winnipeg, Canada.	6-11pm; Sat 3-12pm, Sun 4-
25.63	11.71		Montoise, France.	6-9; 10-12pm.
25.65	11.70	HJ4ABA	Medellin, Colombia.	5-10pm. (Ville.
25.68	11.68	KIO	Kahuku, Hawaii	Phones evenings.
25.69	11.67	PPQ	Rio de Janeiro, Braz	Phone.
26.11	11.49	VIZ3	Rockbank, Australia.	Tests with CJA4, Canada
26.22	11.44	CJA4	Drummondville, Can.	Tests with VIZ3.
27.27	11.00	PLP	Bandoeng, Java.	5:15-8:30am.
27.27	11.00	ZLT	Wellington, N.Z.	Phones Australia VLJ 12pm.
27.68	10.84	KWV	Dixon, California.	Phone. (11:30pm-1am.
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 irreg & Phones.
28.28	10.61	WEA	Rocky Point, N.Y.	Experimental.
28.79	10.42	XGW	Shanghai, China.	
28.90	10.38	WCG	Rocky Point, N.Y.	Experimental.
28.97	10.35	LSX	Buenos Aires, Argen.	Phones irregular.
29.04	10.33	ORK	Ruyssede, Belgium	1:30-3pm.
29.14	10.29	HPC	Panama City, Panama.	Phones WNC.
29.15	10.29	DIQ	Nauen, Germany.	Phones irreg.
29.59	10.14	OPM	Leopoldville, Congo.	Sun 3:45-4:15; 2-3:15am.
29.84	10.06	SUV	Abou Zabal, Egypt.	Phones DGU 4:30-5pm etc.

30.01	9.99	KAZ	Manila, Phillipines	Phone
30.30	0.90	LSN	Buenos Aires, Argen	Phone
30.43	9.86	EAQ	Madrid, Spain	5:15-7:30pm; Sat 1-3pm.
30.52	9.82	IRM	Rome, Italy.	Phones afternoons.
30.75	9.76	VLJ	Sydney, Australia.	Phones Java.
31.00	9.68	CT1CT	Lisbon, Portugal.	Thurs 3-5pm, Sun 6-8am.
31.13	9.64	ZRO	Rome, Italy.	2:30-5pm; Mon/Wed/Fri 6-7:30pm, 7:45-9:15pm.
31.27	9.59	HLB	Geneva, Switzerland	Sat 5:30-6:15pm.
31.28	9.59	CT1AA	Lisbon, Portugal.	Tues/Thurs/Sat 3:30-6pm.
31.28	9.59	VK2ME	Sydney, Australia.	Sun 12-2, 4:30-8:30, 10:30a
31.28	9.59	W3XAU	Philadelphia, Penna	11am-7pm.
31.28	9.59	HP5J	Panama City, Panama.	7:30-10pm.
31.30	9.58	GSC	Daventry, England.	6-8, 10-11pm.
31.32	9.58	VK3LR	Melbourne, Australia	3:15-7:30am Ex. Sunday.
31.33	9.57	LKJ1	Jeloy, Norway.	11am-6pm.
31.33	9.565	VUB	Bombay, India.	6-7:30am. Sunday.
31.36	9.57	WLXK	Springfield, Mass.	6am-12pm, Sun 7am-12pm.
31.38	9.56	DJA	Zeesen, Germany.	5:05-9:15pm, 12:30-2:15am
31.43	9.55	HH2R	Port-au-Prince, Haiti	(5:05-10:45pm.
31.45	9.54	DJN	Zeesen, Germany.	12:30-2:15am, 3:45-7:15am,
31.48	9.53	W2XAF	Schenectady, N.Y.	5:30-11pm, Sun 4:15-12pm.
31.55	9.51	VK3ME	Melbourne, Australia	Wed/Thur/Fri/Sat 5-7am.
31.55	9.51	GSB	Daventry, England.	12:15-5:45pm, 11:30p-1:30a
31.58	9.50	PRF5	Rio de Janeiro, Braz	5:30-6:15pm Ex. Sunday.
31.68	9.47	WET	Rocky Point, N.Y.	Experimental.
31.70	9.46	COH	Havana, Cuba.	10am-N'n, 4-6:30, 8-10pm.
31.73	9.45	TG1X	Guatemala, Guatemala	Relays TGW irreg.
31.73	9.45	WES	Rocky Point, N.Y.	Experimental.
31.86	9.41	PLV	Bandoeng, Java.	10-10:30am Tues & irreg.
32.33	9.28	GCB	Rugby, England.	Phones Canada afternoons.
32.88	9.12	HAT4	Budapest, Hungary.	Sunday 6-7pm.
33.15	9.05	TFK	Reykjavik, Iceland.	On the air shortly.
33.28	9.01	KEJ	Bolinas, California	Phone.
33.59	8.98	VWY	Kirkee, India.	Irreg.
34.09	8.80	HKV	Bogota, Colombia.	Tues/Thur/Sat 8-10pm.
34.19	8.77	PNI	Macassar, Celebes.	Phones Java.
34.29	8.75	ZCK	(ZBW) Hong Kong, China	4-10am & irreg.
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-
36.65	8.19	PSK	Rio de Janeiro, Braz	Testing evenings.
37.33	8.04	CNR	Rabat, Morocco.	Sun 3-5:30pm.
37.93	7.91	HCETC	Quito, Ecuador.	Wed/Sat 8pm.
38.31	7.83	HC2JSB	Guayaquil, Ecuador.	7:20-11:20pm Ex. Sunday.
38.46	7.80	HBP	Geneva, Switzerland.	Sat 5:30-6:15pm.
38.86	7.72	KBE	Bolinas, California	Phones irreg.
39.28	7.63	ZHJ	Penang, F.M.S.	7-9am Ex. Sunday.
39.63	7.57	KWY	Dixon, California.	Phones Hawaii.
39.70	7.56	EA8AB	Tenerife, Canary's	Mon/Wed/Fri 3:30-4:30pm.
39.87	7.52	KKH	Kahuku, Hawaii.	Phones Dixon evenings.
40.16	7.47	JVQ	Nazaki, Japan.	Phone.
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.
40.65	7.38	XECR	Mexico, D.F.	Sunday 6-7pm.
41.21	7.28	HJ1ABD	Cartagena, Colombia	7:45-9:15pm Ex. Sunday.
41.60	7.20	HB5B	Basle, Switzerland.	Thurs 4-4:30pm.
41.80	7.18	CR6AA	Lobito, Angola.	Wed/Sat 2:30-4:30pm.
42.25	7.10	HKE	Bogota, Colombia.	Tues/Sat 8-9pm.
42.40	7.08	PI1J	Rotterdam, Holland.	Saturday 11:10am-12:10pm.
42.40	7.08	VP3MR	Georgetown, B. Guiana	Mon/Wed/Sat 6:45-7:45pm &
44.03	6.81	HIH	San Pedro, D.R.	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. (11:15pm
45.00	6.66	HC2RL	Guayaquil, Ecuador	Sun 5:45-7:45pm; Ty 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.

46.01	6.52	YV6RV	Valencia, Venezuela	4:40-9:30pm.
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	Frederickton, N.B.	Relays CRC irreg.
46.88	6.40	YN1GG	Managua, Nicaragua.	7-9:45pm.
47.06	6.37	YV4RC	Caracas, Venezuela.	4:40-9pm Ex. Sunday.
47.50	6.31	HIZ	Santo Domingo, D.R.	6-7pm Ex. Sunday.
47.62	6.30	HJ4ABJ	Ibague, Colombia.	7-10pm.
48.15	6.23	OAX4G	Lima, Peru.	Wed 7-11:30pm.
48.23	6.22	HJ2ABA	Tunja, Colombia.	8-10pm. (-Noon.
48.40	6.20	CT1GO	Paredo, Portugal.	6:20-7:30pm; Sun 10:30am-
48.50	6.19	H1LA	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	CSL	Lisbon, Portugal.	6-7:30am; 1-5pm.
48.78	6.15	C09GC	Santiago de Cuba.	3:30-4:30, 10-11pm. (9:30pm
48.83	6.14	CJRO	Winnipeg, Canada.	6-11pm; Sa 3-12pm; Su 4-
48.86	6.14	W8XK	Pittsburg, Penna.	9pm-1am.
48.92	6.13	ZGE	Kuala Lumpur, FMS.	Sun/Tues/Fri 6:40-8:40pm.
48.92	6.13	COCD	Havana, Cuba.	Till midnight irregular.
49.02	6.12	YDA	Bandoeng, Java	5:30-11am irreg.
49.02	6.12	W2XE	Wayne, New Jersey.	5-10pm. (6:15am.
49.02	6.12	VQ7LO	Nairobi, Kenya, Afr.	Mon-Tu-Wed-Thur-Fri 5:45-
49.05	6.12	HJ1ABE	Cartagena, Colombia	7:30-9pm; Mon 10:30-11:30p
49.08	6.11	YV2RC	Caracas, Venezuela.	5:15-9:30pm.
49.10	6.11	HJ4ABB	Manizales, Colombia	8-10pm.
49.10	6.11	GSL	Daventry, England.	2:30-3:45pm.
49.10	6.11	VUC	Calcutta, India.	Sat 11:30pm-2:30am, etc.
49.18	6.10	HJ4ABC	Pereira, Colombia.	7-10pm. (12pm.
49.18	6.10	W3XAL	Boundbrook, N.J.	Mon/Wed/Sat 4-5pm; Sat 11-
49.18	6.10	W9XF	Chicago, Illinois.	9-10pm; 1-2am. (12-2am-
49.20	6.10	ZTJ	Johannesburg, S. Afr	Experimental) Thur-Sun-
49.26	6.09	VE9GW	Bowmanville, Canada	Mo/Tu/We 3-12pm; etc.
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.	1-2:30pm Sunday.
49.40	6.07	HH2S	Port-au-Prince, Haiti	irregular.
49.40	6.07	HP5H	Panama City, Panama.	Testing.
49.42	6.07	OER2	Vienna, Austria. 9	9am-5pm; Sat 9am-6pm.
49.42	6.07	VE9CS	Vancouver, B.C.	DX Monday lam (2watts)
49.45	6.07	HJN	Bogota, Colombia.	6-11pm irregular.
49.50	6.06	OXY	Skamlebaek, Denmark	1-7pm; Sun 11am-7pm.
49.50	6.06	HJ4ABD	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	HJ4ABL	Manizales, Colombia.	8-10pm.
49.59	6.05	GSA	Daventry, England.	Used in Fall & Winter.
49.67	6.04	PRAB	Pernambuco, Brazil.	3-3:30pm. (7:45pm.
49.67	6.04	W1XAL	Boston, Mass.	Sun 4-6pm; Wed/Fri 6:30pm-
49.67	6.04	W4XB	Miami, Florida.	1-3pm; 9pm-1am.
49.67	6.04	HJ1ABG	Barranquilla, Colom.	6:30-10pm Ex. Sunday.
49.67	6.04	YDA	Tdg. Priok, Java.	(Not working at present)
49.75	6.03	HP5B	Panama City, Panama	8-10:30pm.
49.75	6.03	VE9CA	Calgary, Alta, Canada	Relays CFCN daily.
49.83	6.02	DJC	Zeesen, Germany.	9:30-10:45pm; Noon-4:30pm.
49.90	6.01	COC	Havana, Cuba.	4-6, 8-10pm; Sat 11:30-1:30a
49.90	6.01	ZHI	Singapore, S.S.	Sun/M/W/Th 5:40-8:10am.
50.00	6.00	RV59	Moscow, U.S.S.R.	
50.00	6.00	XEBT	Mexico, D.F.	10am-11pm irregular.
50.00	6.00	TGWA	Guatemala, Guatemala	Relays TGM.
50.00	6.00	HJ1ABJ	Santa Marta, Colom.	7-10pm.
50.08	5.99	HJ2ABD	Bucaramanga, Colom.	
50.16	5.98	HJ3ABH	Bogota, Colombia.	7-11pm Ex. Sunday.
50.16	5.98	HIX	Santo Domingo, R.D.	8:10-10:10pm Tues/Fri.
50.34	5.96	YNLF	Managua, Nicaragua.	7-9pm.
50.60	5.93	HJ4ABE	Medellin, Colombia.	6-10:30pm 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.

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