SHORT WAVE STATIONS LOG RADIO GUIDE READERS

A RE YOU one of those restless souls who are dis-content with that "scenery" available on the present radio roadways? Have you become a Byrd or a Livingstone of the air and, like those venturesome heroes, probed lesser known channels of the ether?

Of late there has been a marked trend on the part of "broadcast listeners" (as differentiated from scientists, radio amateurs or "hams," and technicians) to tune in the mystic and romantic byways known as

sbort waves.

Across the continent comes the hue and cry of "short waves"! And in response to the needs growing out of this furore, RADIO GUIDE has prepared a log of the world's short wave stations.

A copy of this log will be forwarded, free of charge, to any one who sends in a request therefor accompanied by a stamped, self-addressed envelope.

What is it that catches the fancy of the many broadcast listeners who have acquired short wave receiving sets, or one of the many new model radio receivers designed to tune in both the broadcast frequencies and the high frequencies? The answer to that question probably lies in one of three services available to the listener, or in all three of them. They are (1)

WARNING: DON'T LOSE A TRAILS' PRIZE BUYING A SOLUTION SEE LAST PAGE

rebroadcasts from foreign countries. (2) police broadcasts, and (3) airport communications between airports and

"ships" of the air.

Unlike listeners' broadcasts, some frequencies among the short waves cover greater distance during the day than during the night. And short waves have their peculiarities of other sorts.

For example, nearly all of the short waves are subject to "skip distances." The short waves shoot into the sky and are reflected back to the earth at some distance from the trans-

mitter. Between the transmitter itself and the concentric circle where the waves return to earth, these waves cannot be tuned in. The waves just aren't there!

Another peculiarity is the "horizon" effect of ultra short waves, or ultra hight frequencies, if you prefer. It. occurs when the impulse is transmitted on a frequency of 60,000,000 or more (wave length of 5 meters or less). The horizon effect simply means that such waves seem to travel only as far as the horizon-the same horizon that is the limit of spy or field glass vision. These waves are not reflected by the sky's "ceiling" (heaviside layer). They behave entirely differently from ordinary short waves.

This behavior will be an advantage, some radio engineers claim, in the practical application of television. Others see the possibility of every hamlet having its

individual broadcasting or television station.

And still others, with advanced ideas, believe that the next score of years will bring individual ultra short wave radio telephones into wide use. There is room in the ultra high frequency band, they point out, for nearly thirty million ten-kilocycle ether channels, or "telephone numbers," between I meter and I millimeter.

for several years. Also her attractive face and figure were used in Columbia's Television experiments -with ample Justification. She also is singer, actress, composer, postess and writer of short stories

And the number is infinite if waves are developed shorter than that l

Virtually every civilized country is employing short waves or high frequencies for the purpose of broadcasting propaganda, entertainment and service features. The arm-chair globe trotter demands receivers with

which he may achieve his ambition.

Several years ago the discovery of all this began. Radio set makers, anxious to fill the needs of customers, began producing short wave receiving sets so simplified as to make them convenient for everyone to use. Several manufacturers even brought out combination receivers with which a listener might take his choice at will of the usual broadcasts or the high frequency broadcasts. But the original sets were not, as the makers had hoped, satisfactory. There were two obstacles: The first, that dealers, in selling the sets, made the performance claims entirely too optimistic; and the second, the tuning of high frequency is an adroit art which, even with improved receivers, was too tricky for the average listener,

Now that these obstacles have been minimized, you must not overlook the opportunity to get a short wave log of stations all over the globe. RADIO GUIDE will be glad to supply you with one of these logs, if you will send a self-addressed, stamped envelope with your request. Address: Short Wave Log Editor, in care of RADIO GUIDE, 423 Plymouth Court, Chicago, Illinois.

stadlo Guide, Vol. 111., No. 23. Week Ending March 31, 1934. usened Weekly by Rudlo Guide, loc., 531 Fifth Avence, New York New York. Entered as second class matter at the l'osl Office vew York, N Y., February 24, 1932, ooder Acl of March 8, 1879 'npyright 1934 by Radio Guide, Inc. All rights reserved. Adver ising offices, 551 Fifth Aveoue, New York: Edilorial and Circo atlan offices, 551 Fifth Ave., New York and 422 Plymooth Coort blesgo, Illinois. M. L. Annenberg, President and Publisher: Herbert Krancer, 1st V. P. and Gen Mgr; M Kocolgsberg, Ediorial Dir.; Barrett Andrews, V. P and Adv Mgr. Unsollelted nannscripts received only at owner's risk and should be accompinled by stamped, celf-addressed covelope for retoro. Five Cenis er copy in United States. Subscription rales: six months \$1.25; no year \$2 00

DECADE OF MIRACLES IN SHORT WAVE FIELD

OMMANDER E. F. McDONALD. Jr., claims to be the first man to put upon the market for the public's general use, a long and shortwave receiving set. He fixes the year as 1925!

Experimentation in those early days of short-wave broadcasting, took him into strange territory and on devious missions. Says the

Commander:

"We have been working with short wave since 1923. In that year we recognized the need for tests made at great distance, and in unusual circumstances. In an attempt to fulfill this need, we persuaded the well-known Arctic Explorer, Donald B. McMillan, to conduct an expedition into the far North. We equipped the Arctic Schooner Bowdorn for the trip. In June of 1923 MacMillan sailed.

"Immediately upon his return in September of 1921. MacMillan started making plans for another expedition into the Arctic, in 1925.

"While these plans were in preparation, I persuaded Admiral Ridley MacLean, who was then Director of Naval Communications, to commission a young amateur short-wave man. The object was to take this young man on the cruise of the Fleet to the Pacific, so that he could use his short-wave apparatus to demonstrate to the Navy what could be done with short wave. We selected Fred Schnell for the task; and he shipped with the Fleet, aboard the U.S. S. Seattle, as a Lieutenant.

"With the Fleet on its cruise, work progressed on fitting out Mac-Millan's second expedition. He was to take two ships this trip, the Bowdoin and the S. S. Peary. We built special transmitting and receiving short-wave apparatus for both ships. Commander MacMillan did me the honor of placing me in command of the Peary. We sailed

in June, 1925.

"Our apparatus on hoth ships was now capable of going down to

fifteen meters.

"On arriving at Etah, seventy-eight degrees, thirty minutes North Latitude, within eleven degrees of the North Pole, we set up and maintained constant communication with the rest of the world. This is significant, considering that we were living and working in twenty-four hours of daylight.

hours of daylight,
"On August 5, 1925, while we were in Etah, we established two-way
communication with Lieutenant Schnell. He was then on the Seattle,
off the coast of Tasmania—within a few miles of being halfway around

the world from us!

"While we were in twenty-four hours of daylight, we found that communications with other points of the globe that were also in daylight, came through best at 17 meters. During the period of our continued daylight, when the point with which we were communicating was in darkness, we found wave lengths from 38 to 55 meters to be most efficient.

"The results obtained with short-wave communication on this Arctic trip convinced us that the time had come to convert our experiments into practical use. I sent a radiogram from the Arctic, therefore, authorizing the huilding of short-wave sets for general distribution. This

was the first to be placed on the market.

"Now the public can get a universal set which goes from 600 meters

to 10 meters. That far have we progressed!"

For those of its readers who wish further detailed contact with short-wave broadcasting, Radio Guide has prepared a log of the short-wave stations of the world. This log will be sent, free of charge, to any one who requests one. Send a stamped, self-addressed envelope for your log. All requests should be addressed: Short Wave Log Editor, in care of Radio Guide, 423 Plymouth Court, Chicago, Illinois.

SHORT WAVE STUDIOS FOR HIGHWAY CHASES

A LMOST any day now, you may read the first announcement of a series of startling broadcasts. Perhaps the roaring of a river-flood, the thunder of a mountain avalanche or the crackling of forest-fires will soon be heard in your living-room! For NBC's new mobile unit—a studio-on-wheels—is just about complete, ready to "go places" for you.

Since there are mountains of outdoor entertainment which will not come to Mohammed Radio, radio must go to the mountains, the sea-shore and the river-valley to pick them up and relay them into your home. To do this with the latest available, short-wave equipment, NBC is rushing construction on a five-ton car, capable of going 70 miles an hour, and containing four separate

Final tests of the equipment are now being conducted at Bound Brook, N. J., home of the NBC-WJZ transmitter, and soon this huge rolling radio plant will be flashing programs to the networks. It is one of the most significant developments in NBC's swiftly expand-

ing short-wave activities.

The main transmitter installed in this cruising program-chaser, will have a range of 100 miles when stationary and 50 miles when in motion. This will enable NBC to originate programs in even the most out-of-the-way places. These will then be transmitted to civilization's outposts, by means of a power of 150 watts, and on any desired frequency from 6 1-2 to 195 meters.

Perhaps the most interesting single feature of this new creature of the radio world, is its "feeler." This is a pack-transmitter, and it is easy to realize how

important this equipment is.

Suppose, for instance, that NBC wants to broadcast the roar of a forest fire. Ohviously, a five-ton car cannot be driven into the forest primeval. But a man with a portable transmitter packed on his back can climb over trees, wade through streams, even pull himself up mountains. And when he reaches his destination—he can broadcast.

Of course, you will not hear, directly, the voice of

the dare-devil announcer who will speak to you from the end of this "feeler." He will broadcast to the studio-on-wheels; from there, his voice will be relayed to the networks by means of radio and wires, and finally, from the network, it will find its way into your loudspeaker. And the whole process will take less than one second!

Imagine an automobile with FOUR broadcasting stations riding around on its hack! That's what this new program-chaser will be. Its equipment will include WMEF, a transmitter licensed for two frequencies in the intermediate wave band; WIONS, assigned five frequencies in the ultra-high band; WIONV, a 15-watt emergency unit, and IONAL the I-watt transmitter.

It takes a lot of power to run four radio stations, and all this power has to be generated right in the car. The power plant for the WMEI transmitter and the W10XS transmitter consists of a 2.500-watt, 220-volt, three-phase alternating current generator driven by a

two-cylinder gasoline engine.

The receiving equipment consists of two eight-tube superheterodyne sets operating between fifteen and 600 nieters, two ultra-high frequency super-regenerative sets operating between three-and-a-half and fifteen meters, and an auto-type receiver for the broadcast band. All this equipment, transmitters, receivers and power plant, is housed in the main body of the car. The "studio" portion of the mobile unit is in the driver's section.

This "studio"—or seat—is wide enough to hold four persons in comfort. Out of the dashboard, on the side opposite the driver, there unfolds a desk. This holds a microphone and typewriter. To let announcers prowl around the car while broadcasting, microphones all have long leads, 100 feet in length. And through a trap door in the roof an announcer may stick his head, turtlewise, to survey and describe the surrounding country.

Improvements in short-wave transmitting are having tremendous effect in popularizing American broadcasts and in spreading the English language. By using the international shortwave lanes, NBC is making programs available to those owning sets in Australia, New Zealand, Ffrica and other distant points.

Perhaps you would like to investigate further into the possibilities of short-wave reception. Ramo Guida has prepared a log of all the principle short-wave stations in the world. This is yours for the asking, free of charge. Send a self-addressed, stamped envelope to Short Wave Log Editor, in care of Ramo Guide, 423 Plymouth Court, Chicago, Illinois,



By "Myrt" of "Myrt and Marge"

LOVE my radio work—I love my audiences—AND I love my Welsh Rarebit! Any hour of the day or night i'll take rarebit. What? You don't see how I do it? Then you don't know my recipe.

It's concocted on the "pinch of this" and "dash of

that" plan. At any rate, here it is:

I 1-2 pounds of "snappy" American cheese Dash of mustard (about 1-2 teaspoonful)

Worchestershire sauce to taste (about 2 tablespoons

ful

Dash of Cayenne pepper

I - teaspoonful salt I cup of beer or ale

Dice the cheese and melt it. Mix all other ingredients, and add the mixture to the melted cheese. Let simmer for three to five minutes and serve immediately on hot toast.

There! And I'll guarantee one thing in addition to

its delectable quality: It won't bounce!

		-	-						THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW			
In Wave Let-					1 .	0000200424		2200 110.00	in Wave I	Let-		S
Megs Length ters	1 2 3	a. m. 1	noon o	(EST)		. m. to Mic	inight (ES)	D &	Freq. Meters			1 a.
NAME AND ADDRESS OF THE OWNER, WHEN PERSON NAMED AND ADDRESS OF TH				9 10 11 1					Megs Length 1	ers	1 2	3 4
4.107 73.00 HCJB							L L		6.990 42.92 L	CL	-	
1.240 70.65 RV15	LLL	. L L	L L -		-LL	LLLI	LLLL	LLI	7.200 41.60 Y	Color Color Color Color		
1.273 70.20 RV15		L	LLI	L L					7.210 41.58 H			
1.280 70.15 RX15	L	LL	LLI	L L					7.400 40.55 H.	Police Control of the		
320 69.40 OHU					-LL	L L		3	7.790 33,47 H			
320 69.40 G6RX							- L L L		8.040 37.33 C			
.680 52.68 VK3LR		- L	L L -						8.180 36.65 P	7.010.000		
5.700 52.65 HCK							- L L L		9,500 31,56 G			
.830 51.49 HJ2AB							- L L L		9.510 31.55 V			
0.000 31.20 HJ4AB							- L. L. L.		9.520 31.51 0			
.950 50.40 HIX							-LLL	1	9.530 31.48 W			
5.969 50.20 HVJ	-	L			- L -				9.570 31.35 W			==
.970 50.22 COC						L L L -			9.570 31.38 0			==
.000 50.00 RV59								_)	9,580 31,30 G			==
.000 50.00 HIX					I.	LLLL	I. I. I.	1 1	9.590 31.28 V			L -
.005 49.96 VE9DR			L	LLLL	LLL	L L L 1	. L L L	1. 1.3	9.590 31.28 W			
.020 49.83 OJC						1. I.	1. 1. 1		9.60 31.25 H			_=
.040 49.60 WIXAL				L L L		L L	. I. I		9.60 31.25 C			
0.040 49.60 GSA				L L	L	L L L 1	1		9.67 31.00 T			
.040 49.60 W4XB			N	N L N -					10.00 30.00 E			
.050 49.50 UOR2				- 1. I. I. I.	I 1. 1.				11.18 26.83 C	10.00		
060 49.40 W3XAU							1 0 0	1 6	11.70 25.63 PO			
OU 47.40 MAXVE	L		L	N L L -	- N N	1 1	NIN	1 1	11.72 25.50 VI			
070 49.35 OXY					- 1. 1.	1 1 -	- N L N	LL	11.73 25.57 PI			
90 49.30 CP5		-				1	1 1 1		11.75 25.53 G			==
80 49.30 W9XAA					L	1			11.76 25.52 0	The second second		
95 49.20 VE9GW		-			- I. I.	1. 1. 1. 1	7 7 1		11.81 25.40 12			==
00 49.18 W9XF						N7 N	1 97 97		11.83 25.34 W			
00 49.18 W3XAL	W	-				N N	7 37 37 37	M M 7	11.83 25.34 W			
TIO TY,UO VUL				1 1 1	-				11.86 25.28 G			==
110 49.08 VE9HX						1 1	7 7		11.87 25.25 W			==
TIO 47.05 YVIUL		-							11.95 25.11 R			
20 49.00 PKIWK					The second secon				12.83 23.28 CI			==
120 49.00 18	****		1.	I. I. I. I.	11 7 2				15.12 19.84 H	55.5		
120 49.00 WZXE							P P P	A 400 1	15.15 19.81 GS			LL
140 48.85 W8XK	L					- I I M	7 11 7		15.20 19.73 0.			
1864 4 00'00 AA3RC	-	-	~			_ 1 1 1	1	THE RESERVE OF				==
180 48.50 TGW	The same and								15.21 19.724 W 15.24 19.60 FY			
250 48.00 HJ3ABF			~		-				15.24 19.68 PON			
ALLIA DO'IL DOT												
.310 47.50 HIZ	Acres - Good - House	-				7 .			15.27 19.60 W	-		
380 47.00 HJ5ABD									15.34 19.56 W			
DOLOU HIJIADD									17.31 17.35 W			
MIN CO.CF DID.				- 1	11 1 7	7 7 7			17.38 17.20 J1			
630 45,31 PRAOO				the same and	Account to the last of the las				17.78 16.873 W			
.660 45.00 HC2RL			1.						17.79 16.86 GS			
.840 43.85 HASZ					1	1 1 =	L	L L 13	18.83 15.93 PL			
	1 7 3	4 5	6 7 6	9 10 11 12	1 2 3	4 6 2 1			21.54 13.928W	the same of the sa		3 4
								4 4 4 4				

EXPLANATORY KEY TO ABBREVIATIONS

Meg. Megacycles (equal to 1000 kilocycles)

L in table means local program N In table means NBC program

C in tabla means Columbia program See regular broadcast program listings for NBC

and CBS programs at hours noted. Suggestions For Use

Ry placing a straight edge from hour you are listening, as lound at top of table, to corresponding hour at loot of table, the stations on the air at that time will be found designated by either L N or C.

NOTES, WITH EXPLANATORY REMARKS

1. Tuesday and Friday only; Sunday, 7:30 to 10:00 p. m.

Sundays only.

- 3. Daily except Sunday. 4. Daily except Sunday, earries WCFL pro-
- Monday to Thursday; Friday and Saturday 9:00 a. m. to 1:00 p. m.; Sunday 1:00 p. m. to 9:00 p. m. Carries CKGW programs.
- 6. Carries WENR programs. Daily except Saturday and Sunday. Saturday and Canday, 5:30 p. m. to 9:00 p. m.

- 7. Saturday only. Carries WJZ programs.
- 8. Irregular.
- Tuesday, Thursday, and Friday only.
- Sundays, from 10:00 p. m. to 12 midnight. Sunday, Thursday, and Saturday only,
- 12. Thursday only.
- 13. Thursday only; Sunday schedule is 6:00 p. m. to 8:00 p. m.
- 14. Sunday only.
- 15. Saturday only.
- 16. Sunday only. 17. Wednesday and Saturday only. 18. Sunday, 9:00 a. m. to 1:00 a. m.

19. Sunday, 5:00 a. m. to 11:00 a. m.

- L L L L L ----

Saturday only. Tucsdays and Fridays only.

5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12

m. to Noon (EST) 1 p. m. to Midnighi (EST) 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 5

-- LNLNNL LLLNNNNNNNL N 18 --------------

---- L L L L L L L ----

- Salurdays, 1:00 p. m. to 3:00 p. m.
- Tuesday and Thursday only.
- Saturday and Sunday only. Mondays only.
- Sundays 9:00 a. m. tn 11:00 a. m.
- Saturday only; Wednesdays, 3:00 p. m. ta

-- L N N N L N

- 4 p. m.; Sundays, 2 p. m. to 4:00 p. m. Fridays only.
- 29. Fridays only. 30. Tuesdays only.

Freg. Meters Call	in Wave Let-
In Wave Let- 1 p. m. to Midnight (EST) 1 a. m. to Noon (EST) 2	Freq. Meters Call 1 a. m. to Noon 1EST1 1 p. m to Midnight 1EST1 2
Meas Length ters 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 2	Mens Length ters 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 5
4.107 15 (9) HCJB	6.990 47 9, LCL
4.240 70.65 RV15 L L L L L L L L	7.200 4' 60 YV2AM L L L
4.273 70 30 RVIS	7 210 41 58 HJ48 8B
4.280 70 15 RX15 L L I. L I. L L	7 400 40 55 HJ3ABB L L
4.320 69 40 OHU	7 790 79 47 HBP
4.320 US.40 GERX	8 040 37 33 CNR
5.680 65 VK3LR L 1. L	8 180 3, 65 PSK
5.700 °7 65 HCK	9.500 31 76 CSB
5830 S 49 HJ/ABA	9510 31 55 VK3ME L L
5.860 51 M HJ4ABE L	9.530 31 45 W2XAF
5.969 HV)	9 576 51 35 WINAZ L N L N N L I L L N N N N N N N N N N N
5 970 coc	9,570 31 % OJA
6.000 50 GC RVS9	9 5 EO 3 30 GSC
6.000 NO 1 HIX	9 590 31 28 VK2ME L L L
6.005 49 -E VEFOR L L L L L L L L L L L L L	95% 31 # W3XAU
6020 49 53 OJC	960 3 HBL
6.040 45 U WIXAL L L I L L L L	9 60 1 75 CTIAA
6040 49 £ GSA	10 00 50 00 EAO
6.040 49 50 W4XB	11 18 13 34 CT340
6.060 49 40 W3XAU C C L C C L C	11 70 /3 63 PONTOISE
6.060 49 40 W8XAL L L N L L N N L N N L N L	11 72 25 50 VE91R
6.070 45 5 0XY	11 73 25.57 PHI
6.080 49.30 CP5	11.75 25 53 GSO
6 080 49 30 W9XAA	1176 2552 DJD
6.095 49 N VE9GW	11 81 25.40 12RO
6.100 49 18 W9XF	11 83 25.34 W9XAA
6.100 49 18 W3XAL N N N N N N	11.86 25 38 GSE
6.110 49 08 VESHX	11.87 25.25 WBXK
6.110 49 08 VVIBC L L L L	11.95 25.11 RNE L L 25
6.120 49 00 PK1WK L L	12.83 23 28 CNR L L
6.120 49 00 JB L L L L L L L L L L L L L L L L	15.12 1984 HVJL
6.120 49 00 WZXE	15.15 19.81 GSF L L
6 140 48 86 W3XK L	15.20 19.73 OJB
6.140 48 86 YV3BC	15.21 19 774 W8XK L L L L L L L L
6.180 45 50 TGNV	15.24 19.68 PONTOISE L L L
6.280 47 80 HILA	15.27 19 60 W2XE
6.310 47.50 HIZ	15.34 19.56 W2XAO
6.380 47.CO HJSABO L L L L 11	17.31 17.35 W3×L
6.440 46.60 HJIABB	17.38 17.20 JIAA
6.610 45 38 REN	17.78 16.873 W3XALN N N N N N N N
6.630 45 31 PRADO	17.79 16 86 GSG L L
6 660 45 00 HC2RL L L L L 13	18 83 15 93 PLE
6.840 43 86 HASZ	
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12

EXPLANATORY KEY TO ABBREVIATIONS

Meg Meracycles (equal to 1000 kilocycles)

I. in table means local program

N in table means NBC procrem

C in table means Culumbra program

See regular broadcast program listings for NBC

and CBS programs at hours noted. Suggestions For Use

By placine a straight edge from huur you ata listening, as funnd at top of table, to correspond lug hour at lost of table, the stations on the air at that time will be lound designated by aitoer L N or C.

NOTES. WITH EXPLANATORY REMARKS

- I. Tuesday and Friday uniy; Sunday, 7:30 to 10 00 µ m.
- Sundays only.
- Daily except Sunday
- Daily except Sunday, carries WCFL pro-
- Monday to Thursday; Friday and Saturday 9 00 s m to 1 00 p m , Sanday 1 00 p. m. to 9 00 p. m. Carries CKtAY programs.
- Carries WENR programs Daily except Saturday and Sonday Saturday and Sunday 5.30 p m. to 9.00 p. m.

- Saturday unly Carries WJZ programs.
- Irregular.
- 9. Tuesday, Thursday, and Friday only,
- 10. Sundays, from 10:00 p. m. to 12 millright.
- Sumlay, Thursday, and Saturday only.
- Thursday only.
- 13. Thursday only; Sunday schedule is 6:00 p. m. to 8.00 p. m.
- 14. Sunday only.
- 15. Saturday only.
- Sumlay only.
- 17. Wednesday and Saturday only.

- 13. Sunday, 9:00 a. in to 1:00 a. m.
- Sunday, 5:00 s. m. to 11:00 a m.
- Setutday unly.
- Tuesdays and Fridays only. Saturdays, 1:00 p. m. to 3:00 p. m.
- Tuesday and Thursday only
- Saturday and Sonday only.
- Mundays only,
- Sundays 9:00 a. m. to 11:00 s. m.
- Fendays only.
- Friday's only Lucsdays unly.

Free Meters Cart	1 a. m. to Moon (EST) 1 p. m. to Midnight (EST)
in Wave Let- Mees, Lenoth ters	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1
THE WAS HOTE	11111111
4405 TA 65 WAIS	
4-320 62.40 OHU	
5.680 57.68 VK3LR	
\$298 57.95 HISKABA	=======================================
5.860 51 HJ4ABE 5.950 50 40 HIX	
3.969 50.20 HVJ	
\$ 270 SO TO COC.	
SANS TO VEYOR	
6.020 49 40 WIXAL	=======================================
6.040 49 5 GSA	
6.040 49 W4XB 6.050 49 U0A2	
6.060 17 4 WIXAU	2=====2222==11177444444
6070 49 CPS	
\$ 888 48 3 WZXAW	=======================================
6.100 49 W3XAL	
6110 40 W VESHX	
A 110 49 PKINK	
6.120 49.00 JB	
6 140 48 86 W8XK	=======================================
6.140 48.85 YV3BC 6.180 48.50 TGW	
6.250 49.00 HJJABF 6.272 47.80 HITA	
6310 47.50 H/Z 6380 47.00 HJ5ABD	
6.440 46.60 HJIABB	
6.610 45.55 REN	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6630 4531 PRADO 6660 45.00 HCZRL 6.840 43.85 HASZ	
6,990 42.92 LCL	
7210 41/35 HJ3ABB 7390 38/47 HBP	
8 040 37 33 CMR 8 180 36 65 PSK 9 570 31 56 GSB	
9510 31 55 VKIME	(
9.520 31.51 OXY 9.530 31.48 WZXAF	
9.570 31 WIXAZ	
9.580 31 W GSC 9.580 31 W KIME	4 4 4
9.590 31 W3XAU	
SEO 31 HIBLA	
9 AT 31 M TIANEH	1
11.18 CTSAD	
ALCOHOLD SPECIAL SPECIAL PROPERTY OF	
PHI GSD JOO JOO JOO JOO JOO JOO JOO JOO JOO JO	
1176 55 010	
WEXAA WEXAA	
11.86 25.78 GSE	
1135 2511 BNE	
1285 7178 CNR 1517 1984 HVJ 15.15 1981 GSF	
1120 5 75 GSE 1120 5 75 WAXK 120 5 75 WAXK 120 5 75 WAXK 1515 1981 GSF 1520 1973 OJB	
1283 1281 CNR 1283 1281 CNR 1515 1981 CSF 1520 1973 OJB 1524 1980 FVA 1574 1980 FVA 1574 1980 WXXE 1574 1980 WXXE 1574 1980 WXXE 1574 1980 WXXE 1574 1980 WXXE 1574 1980 WXXE	1 1 1 1
1574 1660 FVA 1574 1660 PONTON 1577 1670 WIXE 1534 1956 WIXAD 1738 1735 WIXL 1738 1770 JIAA 1778 16873 WIXAL 1779 16873 WIXAL 1779 16873 PLE	
1537 10 00 WIXE 1634 10 50 WIXE 1731 1735 WIXL	=======================================
17 38 17 36 MAA	=======================================
17.78 16.873 W3XAL	=======================================
17.78 16.873 W3XAL 17.79 16.86 GSG 1R.83 15.53 PLE 21.34 13.925 W8XK	
	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12
KEV TO	ABBREVIATIONS Saturday and Sunday, Saturday and Sun-

KEV TO ABBREVIATIONS

Ó 1

0 u v

e

ö

n 5

e

d

Mcg. Metacycles (equal to 1,000 hitocycles)

i la tiple means local program.

i in table means NBC program

i in table means Columbia program.

See regular broadenst program listings for NBC and CBS programs et hours noted.

Suggestions for Use

By placing e straight edge from hour you ere listening, as bound et top of table, to corresponding hour et foot of table, the stations on the air will be found designated by either 1, 1 or 1.

NOTES, with EXPLANATORY REMARKS

1. Tuesday and Friday only; Sunday, 7:30 to 10:00 p. m.

Z. Sundays only.

3. Daily except Sunday, relays WCFL.

5. Monday to Thursday; Friday and Saturday 9:00 a. m. to 1:00 p. m.; Sanday 1:00 p. m. to 9:00 p. m. Carries CKGW programs.

6. Carries WENR programs. Daily except

Saturday and Sunday, Saturday and day, 5:30 p. m. to 9:00 p. m. 7. Saturday only. Carries WJZ programs.

327, 530 p. m. to 500 p. m.

Saturday only. Carries WJZ programs.

Itregular

Sundays, 3:00 p. m. to 5:00 p. m.; 8:00 p. m. to 10:00 p. m.

Sundays, from 10:00 p. m. to 12:00 mid.

Sundays, from 10:00 p. m. to 12:00 mid.

Thursday only.

Thursday only.

Thursday only.

Thursday only; Sunday schedule is 6:00 p. m. to 8:00 p. m.

Saturday only

Wednesday and Saturday only

Sunday, 5:00 a. m. to 1:00 a. m.

Tuesdays and Fridays only

Saturdays, 1:00 p. m. to 3:00 p. m.

Tuesdays and Thursday only

Tuesday and Thursday only

No Trans. Tuesday and Wednesday

Mondays, 9:00 a. m. to 11:00 a. m.

Fridays only

Sundays, 9:00 a. m. to 11:00 a. m.

Tuesdays only

Tuesdays only

Tuesdays only

Tuesdays only

Tuesdays only 10.

12.

14.

18,

20.

22.23.25.

AAOKED	SHORT WATE TIME TABLE
Freq. Meters Call	
in Wave Let-	Midnight to 11 a. m. (CST) Noon to 11 p. m. (CST)
Megs. Length ters	1 2 3 4 5 6 7 8 9 10 11 12 12 1 2 3 4 5 6 7 8 9 10 11
4.107 73.00 HC/B	
4,240 70.65 RV15	5 5 5 5 5 5
4.273 70.20 RV15	
4,280 70.15 RX15 4,320 60.40 GHU	
4.328 69 40 G6R X	11
5.680 52.82 VK3LR	
5,700 52.65 HCK	
5.830 51.49 HJ2ABA	
5.860 51,20 HJ4ABE	
5.880 50.40 HJZADA 5.950 50.40 HIX	
5,969 50.20 HVJ	
5.970 Str. 25 COC	
6.000 50.00 RVS9	
6.000 50.00 HIX	
6.005 49.96 VE9DR	
6,020 49,83 DJC 6,040 49,60 WIXAL	
6.040 49.60 GSA	
6.040 47 60 W4XB	
6.050 49.50 UOR2	
6.068 49.40 W3XAU	
6.060 49.40 WEXAL	1
6.070 49.50 OXY 6.080 49.30 CPS	
6.080 49.30 WPXAA	
6.095 49.20 VE9GW	
6,100 49,18 W9XF	
6.100 42.15 W3XAL	
6.110 49.08 VUC	
6,110 49,08 VE9HX 6,310 49,08 VVIBC	
6.120 49:00 PKTWK	1 1
6,120 49,00 JB	1 1 1 1 1 1 1 1
6.120 49.00 WZXE	
6,140 48.86 W8XK	
6.140 41.36 YV3BC	
6.380 48.50 TGW 6.250 48.00 HJBAUF	
6.272 47.80 HITA	
6.310 47.50 H1Z	
6.380 47.00 MJSABD	
6.440 46.60 HJJABB	
6.580 45.00 HITADA	11111
6.630 45.31 PRADO	1 [-1]
6.660 45.00 HC2RL	
6.840 43.85 HASZ	
5.990 42.92 LCL 7.200 41.60 YVZAM	
7.210 41.58 HJ4ABB	
7,400 40.55 HJ3ABB	
7,790 33,47 HBP	
8.035 37.33 CNR	
9,500 31.56 GSB	
9.510 31.55 VH3ME	1 1
9.520 31.51 0XV	
9.530 31.48 WZXAF	
9.570 31.35 W1XAZ	
9.570 31.38 DJA 9.580 31.30 GSC	
9.590 31.28 VK2ME	5 5 5
9.590 31.28 W3XAU	
9.60 31.25 HBL	
9.60 31.25 CT1AA 9.67 31.00 T14MRH	
9.67 31.00 TI4MRH 10.00 30.00 EAQ	
17,18 26.33 CT3AQ	
11.70 ZS.63 PONTOISE	
11,72 25.50 VE9JR	
11,73 25.57 PH1 11,75 25.53 GSD	
11.76 25.52 DJD	
11.81 25.40 12RO	
11.83 25.34 W9XAA	
11.83 75.31 W2XE	
11.86 25.28 GSE 11.87 25.25 W8XH	
11.95 25.11 RNE	1 1
12.83 23.39 CMR	
15.12 19.81 HVJ	1
15.15 19.81 GSF	
15.20 19.73 DJB 15.21 19.724 W8XK	
15.24 19.60 FYA	
15.24 19.68 PONTOISE	
15.27 19.60 WZXE	
15.34 19.56 WZXAD	
17.31 17.33 W3XL 17.38 17.20 J1AA	
17.38 17.29 JIAA 17.78 16.873 W9XAA	
17.78 16.873 W3XAL	
17.79 16.86 GSG	
18.83 15.93 PLE	
21.54 13.929 W8XK	
-	12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11

KEY TO ABBREVIATIONS

KEY TO ABBREVIATIONS

Meg. Megreyeles (repeal to 1,00) biliscycleal

in table research local programs.

I in table messar MRU program.

I in table messar Columbia program.

See regular broadrant program Belisses for NBC and CDs programs at hours noted.

Suggestions for Use

By placing a straight edge from hour you are fistening, as found at tap of table, to corresponding hour at frost of table, the nations on the air ail he found designated by either 1, 2 or 1.

null be found designated by exhibit 1, 7 or 1.

NOTES, with EXPLANATORY REMARKS
(Time Given is Central Standard)
1. Turnsky and Friday only; bounday, 6:30 to
7:00 p. m.
Z. Sandaya only.

Daily except Sunday, relays WCFL.
Maurice to Thursday; Fishing and Saturday
7:00 a. m. to 11:00 a. m.; sunday 11:00
a. m. to 8:00 p. m. Carries CKGW pre-

Carries WEXR programs. Dolly except Saturday and Senday. Sunday, 4:30 p. m. to 7:00 p. m. 19:00 p. m. to 2:00 s. m. Saturday andy Cerries WaZ programs.

Sandaya, from 9:00 p. m. to 11:00 p. m. Sundaya, from 9:00 p. m. to 11:00 p. m. Sundaya, Thursday, and Saturday only. Saturday only. Withoutay and Saturday only. Sunday, 8:00 n. m. to 12 millinght.

WORLD SHORT WAVE TIME TABLE SHORT WAVES BRINGING COUNTRIES

ORE than six hundred and thirty short wave stations on land and affect offer the short wave enaffoat offer the short wave enthiosast a world-wide field for complest.
Interesting programs that give the short
wave fan plenty to thrill about are being
directed to America daily. Only a small
portion are rehroadcast by thre chains.
At the moment, the etherial field pond
is not particularly productive of many
price catches from the southern beniswhere. This does not apply to north of

This does not apply to north of

phere. This does not apply to morth of the Equator.

The well planned broadcasts from Admiral Byrd's camp in Little America, on the Antarcale continent, are spasmodic and sportly, despite the fact that the best equipment available is being used by R. C. A. Communications to pack them up. DID and DJC, Berlin, start bonadcasting a special hislingual program every night at 7 p. m. GST. These programs continue until 9:30 p. m. and can be picked up on 2551 and 4981 meters.

Another short wave extravaganza comes from Great Britain. It will be rebroadcast over Columbia, but there is nothing to prevent direct pickup of an eve-witcess report of the Walkor Cup Match from the historic golf course at St. Andrews, Scotland, from London, GSA on 4938 meters; GSB, 31.55 meters; GSC, 31.29; GSD 25.53; GSI, 25.28; GSF, 19.81, GSG 16.88, and GSH, 11.97 meters. GSG 10.88 and GSH 13.97 meters

An English variety program, headed by

An English variety program, headed by American pianist Carroll Gibbons and including John Tilley, connection, will be short waved from London, GSA, to America, Saturday, May 12. It can be picked up on the London Group mentioned previously at 1:20 p. m. CST. From Poland, via short wave, will come one of the series of programs being given in honor of Chopin's 125th birthday anniversary. Two of Chopin's hest known works will be rebroadcast from this pick-up—the Grande Fontaise of Polish Airs Opus 13, and the hrilliant Polonaise Opus 22. The local station's portion of the program will begin at 1 p. m. CST. This broadcast will come through Berlin stations DJA-B-C-D-E.

Despite spotty reception from the

lin stations DJA-B-C-D-E.

Despite spotty reception from the southern hemisphere members of the Byrd Exposition are slated on May 12, to tell how they spend their days—or is it nights? KFZ, in Little America, has eighteen frequencies from 48 to 50 meters on which it operates. The time of day and atmospheric conditions dictate the frequency. Tests start several hours about, and the short wave fan can tone in before Columbia starts rebroadcasting at 7 p. in CST.

Nuch brightly information for the tun-

Much beinful information for the tuning of short waves will be found in the World Short Wave Time Table at the left of this page.

\$200,000,000 YEARLY

(Continued from Page 2)

more, for the talent on these other pro-

grams. Paradoxical as it may seem, programs are not picked out of the air but out of the numey loga, insofar as the sponsors are concerned. The reported, numored and whispered salaries of radio stars rate like a king a ransom: Eddie Cantor. \$10,000.00; Fred Waring, \$5,000.00; Jue Penner. \$10,000.00; Rosa Pouselle, \$8,500.00; Paul Whiteman, \$2,200.00; Guy Lombardo, \$3,500.00; Isd Wynn, \$7,000.00; Jack Benny \$4,000.00; Rusly Vallee, \$3,500.00; and so on.

The crystalizing of a radio program can only be accomplished in the presence of much gold. It starts with an idea usually in an advertising agency, where high priced executives are trying to create good will for a client, and to transform a self-ing message into terms of music, enter-tainment and maybe a commercial an-nouncement. To set high-priced executives to think about a program is a costly un-

After the idea has been been, script writers are called in and a radio extrava-ganza is laid out. Then the client is ap-proached. To save time, let it be assumed that he falls hook, line and sinker for the program. Next they have to approach the hig star around whom the program re-volves, and he has to be approached with deference and the evidence of heavy

Sometimes it is not easy to obtain the exclusive radio services of a top notch performer. One famous columnist, appearing on radio for a cosmetic house was approached by a tohacco company which wanted him. To effect his release from the cosmetician, required the passing of \$100. contentions, required the passing of \$100, 000,001 in the credit of the cosmetic company. That was just an incidental expense in getting his release so that he could be an exclusive feature of the eigarette makers' program. This is not unusual, but typical of the amount of money that

changes hands in setting up a program which must have a touch of exclusiveness to make it distinctive.

After the services of the principal stars

After the services of the principal stars have been placed under contract, then a cast has to be built around him—an item of expense in any natu's language.

The music that comes over the air is an expensive item. Numbers or arias taken from the operas run into big money. Not infrequently between \$200,00 and \$500,00 is and for the privilege of broadcasting. is paid for the privilege of broadcasting a single score.

a single score.

Line charges for remote pick-ups run into thousands of dollars an hour and when a sponsor wants to accommodate a visible audience on a sight-seeing expedition, he has to buy out a theater to do

For a conservative estimate of the cost For a conservative estimate of the cost of just a few of the popular programs on the air, multiply by fifty-two the single week's item of station time cost and the astonology results are: Lucky Strike 8607,178.90; Pountine, 8511,333.00; Palmolive, 8406,279.00; Maxwell House Coffer and General Foods, 8947,051.00; Pepso dent 81,644,24.00; Philico Radio, 8403, 055.00. And as in prefer all of the batter. 695.00. And so it goes for nil of the better hours on the air designed to please the radio listener. And he can take or leave the offering, as his mood dictates

SOLUTION FOR X-WORD PUZZLE

Below is solution to x-world puzzle which ap-peared in last week's issue:



17. Sunday, 4:00 a. m. to 10:00 a. m. 18. Torothys and Fridays only. 20. Torothy and Thursday only. 21. Subsiday and Sunday, 7:00 p. m. to 10:0 Saturday

n. m.
Monelays only.
Except Fridays
Threadays only.
Samlay, Monday. Wednesday and Friday
Finlay only.

SHORT WAVE TO LAUNCH FAIR

THOSE of you who stay up late at night eavesdropping on the world, have discovered that the range of entertainment is increasingly wider. Short wave broadcasting from abroad is no longer in the experimental stage, although the quality of entertainment still is far below that offered by American broadcasters on the conventional channels. Volume is better and, under favorable atmospheric conditions, there is no futile groping for important key words in any spoken thought.

Searchers for new ideas in short wave programs have in prospect the novelty broadcast to Chicago from

the Antarctic 10,000 miles away.

Rear Admiral Richard L. Byrd, sitting in his lonely ice-bound but in Little America, will on May 26, press a key to send radio impulses to Chicago to touch off a lireworks display and thus officially open the new World's Fair.

This broadcast will be heard between 10 p. m. and 1:30 a. m. EDT, and will be the last of the Saturday night programs over a CBS-WABC network. The program shifts to a Wednesday spot, starting May 30.

The Byrd short wave station, KFZ, has been heard regularly, broadcasting on frequencies between 18 and 50 meters, although communications between Little America and CBS usually can be tuned in at 21.30 and 31.75 meters. Tests are usually carried on between 7 p. m. and 11 p. m. on the day of the broadcasts in the conventional channels.

Signals from European stations are spanning the Atlantic with ease these days, and the chimes from Big Ben in London will be heard again soon from London. While Big Ben is being repaired, Big Tom is providing

the theme.

Stations of the British Broadcasting Company are heard on several frequencies: GSD on 25.53 meters, from 1:15 a, m, to 3:15 a, m, and GSF and GSB, on

25.53 and 31.55 meters respectively, from 12 noon to

6:30 p. m. EDT.

German stations continue to broadcast nationalism with great volume, morning and night. DJB, 19.75 meters, is on the air from 7:45 to 10:45 a. m., and DJD and DJC, 25.51 and 49.83 meters, 9:00 to 11 p. m. All times are liestern daylight saving

times are leastern daylight saving.

Atmospheric conditions have forced the European station owners to jump from one wave length to another frequently. They find that their signals carry best at 25 meters during the early morning. In the afternoons and early evening, the best frequency is the one between 25 and 40 meters, while 40 meters is best for evening reception.

Australia, "way down under," is heard regularly through signals of VK31.R in Melbourne, a new station broadcasting daily, except Sunday, on 31.30 meters from 4:30 to 8:45 a. m. EDT. It is a new station. Other stations in Australia, heard here regularly, are VK2ME (Sydney, broadcasting on 31.28 meters from 2 to 4 a. m., 6 to 10 a. m. and f2:30 to 2:30 p. m.) VK3ME (Melbourne) is on the air Wednesdays and Saturdays on 31.55 meters from 6 to 8 a. m. EDT.

A condensation of the principal short wave relay stations of the world appears on page 34 of this issue.

Badlo Guble, Volume 111. Number 32. Week Ending June 2, 1934, Issued Weekly by Radlo Guide, Inc., 551 Fifth Avenue, New York, New York, Entered as second class maller at the Post Office, New York, N. Y., February 21, 1932, under Act of March 3, 1879, Copyright, 1934 by Radlo Guide, Inc. All rights reserved. Editorial and Advertising offices, 551 Fifth Avenue, New York; Executive, Circulation, and Business offices, 423 Plymouth Court, Chicago, Illicols, M. L. Annenberg, President and Poblisher; Herbert Krancer, 1st V. P. and Gen. Mgr.; M. Koenigsberg, Editorial Dir.; Barrett Andrews, V. P. and Adv. Mgr. Busolicited manuscripts received only at owner's risk and should be accompanied by stamped, self-addressed envelope for return. Fire Cents per copy in United States, Subscription rates; alx months, \$1.25; one Year, \$2.00.

TONLD	SHOKE THE THE
Fren. Meters Call	The second secon
In Wave Let-	2 2 m, to 1 c, m, (EDT) 2 p, m, to 1 s, m, (EDT) 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1
Megs, Length lers	2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1
4.107 73.00 HEJB	111111
4.240 70.65 RV15 4.273 70.20 RV15	
4.273 70.20 RV15 4.280 70.15 RX15	
4.320 69.40 DHU	
4.320 69.40 G6RX	
5,680 52.82 VK3LR	
5,700 52.65 HCK	
5.890 51.49 HJ2ABA 5.860 51.20 HJ4ABE	
5.880 S3.43 HJ2ABA	
5.990 50.40 H1X	
5.969 50.20 HV2	1
5.970 50.25 COC	
6 000 S0 00 RV59	
6.000 50.00 HIX 6.005 49.95 VE9BR	
6.005 49.95 VE9DR 6.020 49.83 OJC	
6.040 49.60 WIXAL	
6.040 49.60 GSA	
6.040 49.60 W4XB	
6.050 49.50 UOR2	
6.060 49.40 W3XAU 6.060 49.40 W3XAL	1
6.070 49.50 DXY	
6.080 49.30 CPS	
6.080 49.30 W9XAA	
6.095 49.20 VE9GW	
6.100 49.18 W9XF	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6.100 49.13 W3XAL 6.110 49.08 VUC	
6.110 49.08 VE9HX	
6.110 49.03 YV18C	
6.120 49.00 PKIWK	
6,120 49.00 JB	
6.126 49.00 WZXE	
6,140 48.86 W8XX 6,140 48.86 YV3BC	
6.180 48.50 TGW	
6.250 48.00 HJ3ABF	
6.272 47.90 HITA	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
6.310 47.59 HIZ 6.380 47.00 HJ5ABD	
6.440 46.60 HJIABB	
6580 45.60 HATABB	
6.610 45.58 REN	
6.630 45.31 PRADO	
6.660 45.00 HC2RL 6.840 43.86 HAS2	
6.990 42.92 LCL	
7.200 41.60 VV2AM	
7.210 41.58 HJ4ABB	
7.400 40,55 HJBABB	
7.790 38.47 HBP 8.035 37.33 CNR	
8.180 36.65 PSK	
9.500 31.56 GSB	
9.510 31.55 VK3ME	
9.520 31.51 OXY	
9.530 31.43 WZXAF 9.570 31.35 WIXAZ	
9,570 31.33 DJA	=======================================
9,580 31.30 GSC	
9.590 31.28 VK2ME	1 1 1
9,590 31.28 W3XAU	
9.60 31.25 HBL	1
9.60 31.25 CTIAA 9.67 31.00 TI4NRH	
10.00 30.00 EAQ	1
11.18 26.33 CY3AO	6 6 20
11.70 25.63 PONTOISE	
11,72 25.50 VE9JR	0000
11.73 25.57 PH1 11.75 25.53 GSO	
11.76 25.57 DJD	
11.81 25.40 1280	
11.83 25.34 W9XAA	
11.83 25.34 WZXE	
11.86 25.28 GSE 11.82 35.35 WRYN	
11.85 25.25 WEXK 11.95 25.11 RNE	5 5
12.83 23.39 CNR	
15.12 19.84 HVJ	
15.15 19.81 GSF	
15.20 19.73 DJB	
15.21 19.724 WEXK 15.24 19.60 PYA	1111
15.24 19.68 PONTOISE	
15.27 19.60 WZXE	
15.34 19.56 WZXAO	
17.31 17.33 WSXL	
17.38 17.20 JIAA	The state of the s
-	7 3 4 5 6 7 8 9 10 11 12 1 12 3 4 5 6 7 8 9 10 11 12 1
KEY TO A	BBREVIATIONS grams.
Mee. Mecacycles (er	real to 1,000 kilocycles) 6. Carries WENR programs. Daily except

Meg. Megacycles (equal to 1,000 kilocycles)

I in table means local program,

I in table means NSC program,

I in table means Colombia program.

See regular broadcast program listings for NBC and CBS programs at hours noted.

and CBS programs at hours noted.
Supportions for Use
By placing a straight edge from hour you are
listening, as bound at top of table, to corresponding hour at host of table, the stations on the air
will be bound designated by cinies I, I as I.
HOTES, with EXPLANATORY REMARKS
(Time Given is Pacific Standard)
1. Tassulay and Friday enty; Sunday, 5:30 to
7:00 p. m.
2. Sundays only.
3. Italy except Sunday, relays WCFL.
5. Monthly to Thursday; relays WCFL.
5. Monthly to Thursday; Friday and Suturday
5:00 m. in 19:00 n. m.; Sunday 9:00
n. m. to 6:00 p. m. Carries CKGW pro-

grams.
Carries WENR programs. Daily except Saturday and Sanday, Sunday, 2:30 p. m. to 5:50 p. m.; 7:00 p. m. to midnight. Saturdays only. Carries W&Z programs, Irregular. Sundays, from 7:00 p. m. to 9:00 p. m. Sundays, from 7:00 p. m. to 9:00 p. m. Sundays, from 7:00 p. m. to 9:00 p. m. Sunday, Thursday only. Sundays only.
Wethreaday and Saturday only. Sunday, 7:00 a. m. to 10:00 p. m. Sunday, 7:00 a. m. to 10:00 p. m. Sunday, 7:00 a. m. to 8:00 a. m. Tueddays and Fridays only. Toesday and Fridays only. Toesday and Sunday, 5:00 p. m. to 9:00 p. m. to 9:00

7.8.0.1.13.14.15.15.17.18.00.1.1.1

Short wave will range the world for its fans, in the days just ahead. Broadcasts from England—Hawaii—America—the Antarctic—and the stratosphere, will stretch around the globe for those possessing the necessary short-wave equipment to pick them up.

One program will be particularly interesting, because it is to be an electrically transcribed rebroadcast of a ceremony which previously was sent out over the air.

ceremony which previously was sent out over the air. This is the presentation of the bell of the British battle Cruiser H.M.S. Canterbury, to Canterbury Cathedral, The original ceremony was short-waved on Saturday, and the British Broadcasting Company recorded the entire program for re-presentation again early Sunday morning for the short-wave fans who missed the original. It may be heard Sunday morning. June 10, by tuning the BBC stations GSD or GSB from 12:30 to

tuning the BBC stations GSD or GSB from 12:30 to 1:15 a.m. EDT.

The same day—Sunday, June 10—the celebrated band of His Majesty's Welsh Guards will be presented by the BBC at 12:30 p. m. EDT. Only short-wave fans will be able to get the first half-hour of this program—but NBC will pick it up for rebroadcast over long waves from 1 to 1:30 p. m. The band will be conducted by Captain Andrew Harris, the Senior Director of Music, Brigade of Guards. It will play a colorful program including "The Men of Harlech", "Adieu to Dear Cambria" and other Welsh airs, played and sung by the band and soloists. The entire one-hour broadcast will be presented over the BBC stations GSE (25:28 meters) and GSB (31:55 meters). The NBC half-hour pickup will go out over the WEAF network.

Crossing seas and a continent to Hawaii, the spotlight of short-wave programs focusses next upon the bathday ceremonies of King Kamehameha, who was the greatest of all Hawaiian monarchs. These traditional ceremonies will be relayed to the continent through KGU, Honolulu NBC associate station, and will be rebroadcast over an NBC-WEAF network on Monday, June 11.

11.

Mass singing of old melodies of the islands by various Hawaiian societies, will be accompanied by the Royal Hawiian Band. The program will come from the Alliolani Palace grounds, now the capitol of the territory

of Hawaii,

An open-air festival of music will come from Can-terbury, England, on Tuesday, June 12, starting at 4 p.m. EDT, over BBC stations GSD and GSB, Each year since 1929 Canterbury has organized such a festival, in which the British Broadcasting Corporation has co-operated by lending its orchestra. This year again, the BBC orchestra is going from London, to play under the

direction of Adrian Boult,

From the Antarctic on Wednesday, June 13, the Columbia Broadcasting System again will bring another of its unusual "Little America" broadcasts. The CBS of its unusual "Little America" broadcasts. The CBS network will pick up the program from the Byrd Expedition and rebroadcast it at 10 p.m. EDT. But short-wave fans can get more of this program by dialing in direct on the Little America station, KFZ (either 24.30 or 31.75 meters) from 7 to 11 p. m. EDT. The fans thus can hear the interesting work of testing, by which the farsoutherners discover whether their signals are being received properly in North America.

Short wave is expected to eliminate, this year, the delays hitherto experienced in reporting the Poughkeepsie Regatta, annual intercollegiate rowing carnival. Be-

sie Regatta, annual intercollegiate rowing carnival. Be-cause the varsity race ends in near-darkness, NBC this year will have an announcer (Continued on Page 36)

	SHOKI	WAYE TIME TABLE
Me- Sta- ters Mees tion	Location	N DAYLIGHT TIME)
13.97 21.47 GSH 16.87 17.78 W3XAL	Pittsburgh, Pa.	7 A.M. to 2 P.M.
16.87 17.78 W3XAL	England Besok, N. J.	Daily 7 to 8:30 A.M. Daily 8 A.M. to 2 P.M.
10.86 17.77 PHI	Holland	Monday, Wednesday, Friday, 8:30 to 10:30 A.M.
17.20 17.38 JIAA 19.55 15.35 CTIAA	Japan Portugal	8 to 9 A.M. 9 to 11 A.M.
19.56 15.34 WZXAD	Schenetady, N. Y.	Menday, Wednesday, Friday, 2:30 to 3:30 P.M. and
		Sunday 2 to 4 P.M.
19.64 15.27 WZXE 19.68 15.25 PONTDISE	Wayne, N. J.	11 A.M. to 1 P.M. 8 to 11 A.M.
19.72 15.21 W8XK	Pittsburgh, Pa.	10 A.M. to 4:15 P.M.
19.73 15.20 DJB	Germany	10 A.M. to 4:15 P.M. 1:30 to 3:00 A.M. and 7:35 to 10:45 A.M.
19.82 15.13 GSF 19.84 15.11 HVJ	England Vatiran City	7 to 8:30 A.M. and 9:40 to 12 Neon Daily 6 to 6:15 A.M.; Saturday, 11 to 11:30 A.M.
Z5.30 12.83 RABAT	Moracea	Sunday 8:30 to 10 P.M.
25.20 11.90 PONTOISE 25.27 11.87 W8XK	France Pittsburgh, Pa.	11:15 A.M. to 2:15 P.M. and 3 to 6 P.M.
25.28 11.86 GSF	England	4:30 to 10 P.M. 9:45 A.M. to 1:45 P.M.
25.36 1.89 W2XE 25.39 11.81 2RD	Wayne, N. J.	3 to 5 P.M. 12:30 to 1:30 P.M. and 2:15 to 7 P.M. 1:45 to 5:30 P.M. and 10 P.M. to 12:30 A.M. 1:15 to 3:15 A.M. and 2 P.M. to 9 P.M.
25.51 11.76 DJD	Italy Germany	145 to 5:30 P.M. and 2:13 to 7 P.M. 1:45 to 5:30 P.M. and 10 P.M. to 12:30 A.M.
25.53 11.75 GSD	England	1:15 to 3:15 A.M. and 2 P.M. to 9 P.M.
25.57 11.73 PHI	Halland	
25.60 11.72 VE9JR	Winnipeg. Canada	urday, Sunday, 8:30 to 11 A.M. Daily 7 to 11:30 P.M.
25.63 11.71 PONTDISE 30.40 9.87 EAQ		1 P.M. to 12 Midnight
31.00 9.67 T14NRH	Spain Costa Rica	Daily 6:15 to 8 P.M.; Sat., 2 to 4 P.M.
\$1.25 9.60 XETE	Mexico	Brard in the evenings 9 to 11 P.M.
31.25 9.60 CT1AA 31.27 9.59 HBL	Portugal Switzerland	Tuesday, Friday, 5:30 to 8 P.M. Saturdays 6:30 to 7:15 P.M.
31.28 9.59 W3XAU	Philadelphia, Pa.	12 Noon to 6 P.M.
31,29 9.58 VK2ME	Australia	Sundays 2 to 4 A.M.; 6 to 10 A.M. and 12:30 to 2:30 P.M.
31.30 9.58 GSC	England	7 to 9 P.M.
31.36 9.57 WIXAZ	Boston, Mass.	7 A.M. to 1 A.M.
31.38 9.57 DJA 31.49 9.53 WZXAF	Germany Schenectady, N. Y.	7.45 to 10.45 A.M. and 6 to 8:30 P.M. 7.45 to 11 P.M.
31.55 9.51 VK3ME	Australia	Wednesday, 6 to 7:30 A.M. and Saturday, 6 to 8 A.M. 1:15 to 3:15 A.M.; 12 Noon to 1:45 P.M. and 2
31.55 ,9.51 GSB	England	1:15 to 3:15 A.M.; 12 Noon to 1:45 P.M. and 2 to 6:30 P.M.
31.56 9.50 YV3BC	Venezuela	5:30 to 11 P.M.
32.02 9.37 MJSABH 32.89 9.12 CPS	Colombia Bolivia	12 Noon to 1 P.M. and 8:30 to 10:30 P.M.
36.65 8.19 PRA3	Brazil	8:30 to 11:30 P.M. 7 to 8:30 P.M.
37,33 8.05 CNR 38.07 7.38 JBAA	Africa	7 to 8:30 P.M. Sunday 3:30 to 6 P.M.
38.47 7.80 HBP	Japan Switzerland	6 to 8:45 A.M. Saturday 6:30 to 7:15 P.M.
40.55 7.40 HJ3ABD	Colombia	Saturday 6:30 to 7:15 P.M. 8:30 P.M. to 12 Midnight Norday 7 to 8 P.M.; Tuesday, Friday, 9 to 10 P.M.
41.55 7.22 HKE 42.92 6.59 LCL	Colombia Norway	Nonday 7 to 8 P.M.; Tuesday, Friday, 9 to 10 P.M. 12 Noon to 7 P.M.
45.31 6.62 PRADD	Ecuador	Thursday, 10 P.M. to 12 Midnight
45.38 6.61 REN 46.30 6.48 HJSABD	Rumia Colombia	2 to 7 P.M. 8 to 11 P.M.
46,51 6.45 HJTABB 46,69 6.43 W3XL	Colombia	7 to 11 P.M.
46.69 6.43 W3XL 48.78 6.15 YV3BC	Bound Brook, N. J.	Used for experimental NBC broadcast
48.86 6.14 WEXK	Veneniela Pittsburgh, Pa.	11:30 A.M. to 2:30 P.M. and 5:30 to 10:30 P.M. 4:30 P.M. to 2 A.M.
48.92 6.13 ZGE	Malayu States	Sunday, Tuesday, Friday, 7:40 to 9:40 A.M.
49.00 6.12 JB 49.02 6.12 PKIWK	Africa. Java	5 to 7 A.M.; 9 to 11:30 A.M. and 12 Noon to 4:30 P.M.
49.02 6.12 WZXE	Wayne, N. J.	6 to 7:30 A.M. 6 to 11 P.M.
49.08 6.11 YVIBC 49.10 6.11 VE9HX	Venezuela	6 to 11 P.M. 11:30 A.M. to 2 P.M. and 6 to 11 P.M. 9:30 A.M. to 12:30 P.M. and 6 to 11 P.M.
49.18 6.30 W3XAL	Halifax, N. S. Bound Breek, N. J.	Monday Wednesday Saturday 5 P.M. to 1 A.M.
49.18 6.10 W9XF	Chicago, III.	Monday, Wednesday, Saturday, 5 P.M. to 1 A.M. 4:30 to 8 P.M. and 9:30 P.M. to 2 A.M. Manday, Tuesday, Wednesday, 2 to 11 P.M.; Thursday, 3 P.M. to 12 Midnight; Saturday, 7 A.M. to
49.22 6.09 VE9GW	Bownanville, Can.	Menday, Tuesday, Wednesday, 2 to 11 P.M.; Thursday,
	and the second s	12 Noon: Sunday, 11 A.M. to 8 P.M. 2 P.M. to 7 P.M. Sundays
49.34 6.08 W9XAA 49.34 6.08 CPS	Chicago, III.	2 P.M. to 7 P.M. Sundays
49.39 6.07 YVSBM0	Belivia Venezuela	8:30 to 11:30 P.M. 6:30 P.M. to 12 Midnight
49.40 6.07 DXV	Vancouver, B. C.	6-30 P.M. to 12 Midnight 3 to 7:30 P.M.
49.42 6.07 VE9CS 49.50 6.06 HTX	Denmark Santo Duningo	Friday, 1:30 to 2:45 A.M.; Sunday, 1 P.M. to 1 A.M. Turnday and Friday, 9 to 11 P.M.; Sunday, 9:40 to
A Land Company		11:40 A.M. and 3:40 to 5:40 P.M.
49.50 6.05 W3XAU 49.50 6.05 W8XAL	Philadelphia, Pa.	8 P.M. to 1 A.M.
	Cincinnati, Ohio	7:30 to 11:30 A.M.; 2:30 to 4:30 P.M. and 7 P.M. to 1 A.M.
49.50 6.06 VQ7LD	Kenya Colony	12 Noon to 2 P.M. daily
49.60 6.05 HJBAB1 49.67 6.04 WIXAL	Colorishia Boston, Mass.	9 to 11 P.M. 7 to 8 P.M. daily
49.67 6.04 W4XB	Boston, Mass. Minni, Fla.	Saturdays, 7 P.M. to 12 Midnight
49.83 6.02 DJC 49.83 6.02 MACAD	Germany	1:50 to 5:30 P.M. and 10 P.M. to 12:30 A.M.
49.96 6.01 VE9DN	Drummondville, Can.	Saturdays, 11:30 P.M. to 2 A.M.
49.96 6.01 COC	Cuba	Beard in the mornings Saturdays, 11:30 P.M. to 2 A.M. 5 to 7 P.M. and 9 to 11 P.M. 3 to 7 P.M.
50.00 6.00 RV59 50.08 5.99 YV4BSG	Russia Venezzola	3 to 7 P.M. 9:30 to 11:30 P.M.
90.25 5.97 HJZABC	Colombia	12 Noon to 1 P.M. and 7 to 10 P.M.
50.26 5.97 HVJ	Vatican City, Italy	Daily, 3 to 3:15 P.M.; Sunday, 6 to 6:30 A.M. 2 to 10 A.M.
70.65 4.25 RV15 73.00 4.00 HCJB	Russia Ecuador	8:30 to 10:45 P.M. daily except Monday
-	THI CHIC	NDT \A/A\/EC

ON SHORT WAVES

on the official float at the fiinish line. He will be equipped with a short-wave pack transmitter. This information thereby will be available immediately to the press, and to other broadcasters. Short-wave stations will begin their test broadcasts at 3 p. m. EDT and the networks will rebreadcast from 7:15 to 8 p. m.

Both Columbia and NBC will present commentaries on the Wightman Cup matches direct from the center court in Wimbledon, England, on Saturday, June 16. The program will be presented by BBC from 10:30 to 11:45 a. m. EDT, over stations GSF (1982 meters) and GSB (31:55 meters) and will be picked up by the networks at 10:30 a. m. The com-

nsentators will be Colonel R. H. Brand and Captain H. B. T. Wakelam. Recordings of the original broadcast will be made and presented over BBC again at 7 p. m. EDT over their stations GSD (25.53 meters) and GSC (31.30 meters).

The special transmitter aboard the gondola of the stratosphere balluon—in which Major William E. Kepner and Capt. Albert W. Stevens will attempt the heavens early in July—has a power of only one-fifth the strength of an ordinary electric light bulb, yet will carry perhaps 10,000 miles—on account of the heights to which, it is expected, the balloon will travel.

A condensation of the principal short-wave relay stations of the world appears immediately above.

1

Inusually rich for short-wave listeners are the days just ahead I ans of this increasingly popular branch of broadcasting shortly will hear the voice of a European king, a new poem by Rudyard Kipling set to music, a special message from Admiral Byrd, the details of a sham-battle aerial attack on London, a record-breaking broadcast linking the Arctic and the Antarctic, and an address in Paris to be made by a leading American feminist.

The Federal Radio Commission has just assigned the call letters KILS to the CBS temporary station located in Northwestern Alaska. This transmitter is the northern point of Columbia's attempt to link the Arctic and the Antarctic by short wave. This new transmitter, the most powerful in Alaska, operates on 1,000 watts. It will complete the circuit of 17,000 miles and will carry voices from one end of the earth to the other. The voices are to be trans-* mitted by KH.S. will be picked up by the RCA communications either at Point Reyes, Cal., or Riverhead, L. I., for relay to Little America and simultaneously to the nationwide Columbia network.

Short wavers may pick up the many tests which will be put on before July 11, the expected date of the broadcast.

Another interesting short wave broadcast will be made from the fourmasted schooner Effic M. Morissey, now heading northward. She is equipped with a 100watt radio-telephone transmitter and has been granted an experimental short-wave license by the Inderal Radio Commission. The call letters are WIONDA. Tests will be made this week.

Interesting broadcasts will come from the Old World, and will be available in their entirety only to short-wave fans. Parts of the programs only will be picked up and rebroadcast by the networks.

On Saturday, June 30, there will be an-

other of lingland's annual military pageants-this time that of the Royal Air Force Display. More than 200 aircraft and 3,000 flyers will take part, and it will be described by the British Broadcasting Company from the Hendon Flying Field, located just outside London. Special maneuvers, including an attack on London by fighting planes and hombers, will feature this spectacle. The city will be "defended" by smoke screens and will be "attacked" by planes in unusual formations, including a massed flight by nine planes chained together by elastic ropes. Exhibitions of synchronized acrobatics will be included. This program will be presented over stations GSG on 16.86 meters and GSF on 19.82 meters at 9 a. m. 1:51° and will be rebroadcast over an NBC-WEAF network.

On Monday the closing scene from the 'Pageant of Parliament,' the impressive and colorful review of the history of England's governing body, will be presented by BBC over stations GSD on 25.53 meters and GSB on 31.55 meters, at 5 p. m. EST. This program will be picked up by NBC over a WJZ network. It is on this program that a new poem by Kipling will be sung by a chorus of the Royal Choral Society—having been set to music by the well-known composer, Roger Quilter. Leslie Bridgewater will direct the orchestra.

On Wednesday, July 4, King Christian X of Denmark will be heard in a special program celebrating the 25th annual Danish American day in Copenhagen. Ruth Bryan Owen, American Minister to Denmark, will translate the speeches of the King and of Thomas Stanning, Danish Prime Minister. The huge audience of 40,000 people in the great park of the Danish Capitol will sing their own and the American national anthems, and Lauritz Melchoir and Frieda Leider, Metropolitan

Opera stars who are vacationing in Copenhagen, will be heard. An outstanding feature will be the dedication of a log cabin built of timbers sent by Danes from each of the 48 states in America.

This day was inaugurated 25 years ago by the Danish King, and the broadcast of this anniversary program on America's Independence Day will be given under the auspices of the Raebild National Park Board of Copenhagen. The ceremonies also will include the presentation of a large American flag to the Board by Mrs. Owen, for display in the park among the flags of many other nations:

The program will be presented at 9 a.m. EST over station OXY which operates on 1960, 31.50 and 49.40 meters, and will be picked up by NBC-WJZ.

On Thursday, July 5, a special program to the American people will be presented by the Pontoise station in Paris, France, on 25.20 meters. This broadcast will feature an address by Lena Madesin Phillips, president of the National Council of Women, and will be broadcast from the Sor Bonne amphitheater. Miss Phillips, who is attending a congress of feminine leaders from 52 nations, will speak on "The Underlying Principles of Woman's Right to Work." This program will be rebroadcast over a CBS-WABC network at 4 p. m.

On Saturday, June 30, there will be a special broadcast from station KFZ in Little America, at 9 p. m. EST. This will be dedicated to the National Education Association, and will consist of a message from Admiral Byrd. It will be read by Charles Murphy, expedition communications officer. This will be rebroadcast over a CBS-WABC network.

And on Wednesday, July 4, at 9 p. m. EST, the same hookup also will rebroadcast an account of the way the boys in Little America spent Independence Day.

The stormy Old Man of the Sea, known I in short wave circles as Mr. Atmospheric Condition, is raising havoc with the radio moguls. As many as eighteen different wave lengths have been assigned the more prominent short wave stations because of the stormy conditions prevailing over the seas of the world. KI-Z, one of these stations—that at Little America-has been accorded eighteen wave lengths in order that the voices may be assured of penetrating through any sort of atmospheric condition. Having so many different frequencies 10 use, KFZ tests two days before the actual broadcast to see what frequency will send out the most powerful transmission. KFZ can operate on all waves between 45.11 and 13.87 meters.

Little America now is transmitting test programs on Mondays, Tuesdays and Wednesdays. The reception time here varies, the test broadcasts being heard from 7:00 p. m. to about 11:00 p. m. EDT. The hookup used hy KFZ is diversified, being sent first to station LSX, Buenos Aires, Argentina, and then by successive steps is sent out again on 28,98 meters: then to the Bell Telephone stations WEL and WEF, Rocky Point, N.

Y., where it is rebroadcast on 33.52 and 31,60 meters. The Columbia Broadcasting System selects the station whose signal is the loudest and sends it out on a national hookup every Wednesday from

10:00 tn 10:30 p. m.

Phillips Lord's boat, the Seth Parker, now traveling around the world, also has been assigned eighteen wave lengths. The boat is equipped with short wave transmitting stations KNRA and WIOXG. KNRA was caught broadcasting from Kingston, Jamaica, a few weeks ago and used 24.30 and 33.94 meters. WIOXG has been heard testing on 86.00, 46.70, 34.68 and 23.30 meters. Also, they have been caught communicating with station LSX in Buenos Aires, Argentina.

Steaming into the icy Arctic waters is the schooner "Morrissey," commanded by Captain Bartlett, who was a niember of the Peary North Pale expedition. The "Mnrrissey" is equipped with short wave transmitting apparatus bearing the call letters WIONDA, and operates on 46.70 34.68, 23.30, 17.33 and 12.99 meters.

Another in the series of unique short wave broadcasts arranged by the Gulf Refining Company will be heard on Sunday, July 29. The broadcast will take

place in Paris, and will be short waved across the Atlantic and rebroadcast over the NBC-WJZ network at 9:00 p. m. EDT. The Paris short waves will be heard on 25.63 meters. Featured on the broadcast will be Lucienne Boyer, diseuse; Gean Sablans, vocalist; Hachem Kahn, Indian singer; the Coloniale Orchestra, and livard and his Musette Mu-

The British Broadcasting Company has completed plans for a program billed as Twenty Years Ago, which will be presented on Saturday, August 4, from 5:00 to 6:00 p. m. EDT over their stations GSF and GSB. GSF may be heard on 19.82 meters and GSB on 31.55 meters. The program will be a documentary record of the events leading up to the declaration of War on August 4, 1914. The program will be presented from contemporary sources by Prolessor II, W. Temperley and Laurence Gilliam.

Awaiting favorable atmospheric and weather conditions in the Black Hills of South Dakota is the gondola which plans tn ascend into the stratosphere some time this month. The balloon is equipped with an eight-watt transmitter, W10XCW, and has been heard testing on 22,99 meters.

A n unusually diverse and interesting schedule of short wave entertainment is just ahead for fans of this rapidly-growing hranch of radio art and science. Music-lovers will enjoy the Bayreuth Music l'estival—an Englishman will talk expertly about the American Civil War—David Lloyd George will preside at an ancient Welsh ceremony—the Gulf program will come from Vienna.

The Bayreuth broadcast, coming on Sunday, August 5, will present the first act of Wagner's opera, "Das Rheingold," and it will mark the beginning of the famous "Ring" cycle which will be conducted by Karl Elmendorff, Director of the Munich Staatsoper.

The broadcast will be presented from Germany over station DJD on 25.51 nieters, and rebroadcast in America over the NBC-WJZ network at 12 noon EDT.

Later in the day—Sunday, Angust 5—Major Charles F. Atkinson, of the British Broadcasting Company, will speak on the 70th anniversary of the Battle of Mobile Bay. Lest some may think the fact strange that an Englishman should discuss this subject, it should be explained that the Major is one of the world's leading authorities on military history in general, and of the American Civil War in particular. He will speak from London at 6 p. m. EDT, and the program will be presented over the English stations GSF on 19.82 meters and GSB on 31.55 meters, being rehroadcast over the NBC-WJZ network. That ancient and impressive Welsh ceremony of "Chairing of the Bard" will be short waved directly from the annual Gorsedd or assembly, of the Royal Eisteddfod at Neath, Wales.

David Lloyd George, British War Premier, will be the presiding officer of the Eisteddfod for the occasion, and will be heard in a brief address to the successful Bard when the program is presented at 9 a. m. EDT over the English station GSB on 31.55 meters. NBC will rebroadcast a portion of the program at 9 a. m. EDT, and CBS another portion at 4:15 p. m.

On Sunday, August 5, the Gulf Refining Co. will present its regular short wave broadcast from Vienna, Four orchestras of different types and three celebrated

Austrian singers will participate in the typically Viennese musical variety bill, which will be the fourth in the first series of commercially-sponsored broadcasts ever staged in Europe for the American listeners,

Josef Schmidt, called the "Caruso of Austria," will head the list of singers, and will offer a tenor aria.

The musical groups include Josef Holzer's orchestra, a typical Austrian concert unit; the Tautenhayn Quartet, a popular dance band; the Viennese Waltz Girls, a sixteen-string ensemble, and Karl Krall's orchestra, an Austrian version of an American jazz band.

The program will be sent from Austria over the short wave station EATH on 37.03 meters, and rebroadcast over the NBC-WJZ network at 9 p. nr. EDT.

Among Next Week's Features:

CHARLIE CHAPLIN of RADIO Joe Penner's Own Story

Also Another Thrilling True Radio Mystery in the Scries, "Calling All Cars"

Hell's Holiday

And Intimate Stories
of Your Favorites

Short wave reception in the next few days will be very poor, according to network engineers. Summer weather and static are the reasons, Hence, few broadcasts will be sent over from

Europe for listeners in America.

There will be one unique program of first-rate importance, however; one of exceptional interest. It will be a sports broadcast—but what a broadcast! It will describe the oldest sporting event in the world—the fantastic, annual horse race around the principal square of Siena, Italy.

For almost 600 years this amazing spectacle has been presented once every year.

Before riding, the jockeys go to church

-and so do the horses!

After the race, feeling runs even higher. So worked up do the citizens of this ancient town become, that the winner al-

ways is given police protection!

The color, action and atmosphere of this strange contest—which thus has power to make men's emotions run the gamut from reverence to hate—will be offered to American radio listeners by Edward Storer, well-known foreign correspondent. Mr. Storer will offer a "blow by blow" description of the race, on Thursday, August 16, from 1:30 to 2 p. in. EDST. The program will broadcast from Italy over station 12100, on 25:40 meters, and will be rebroadcast by CBS.

The Byrd bruadcasts, as usual, will be

The Byrd bruadcasts, as usual, will be sent from Little America on Wednesday at 10 p. m. EDST, over short wave station KFZ, which operates between 4511

and 13.87 meters.

A nother "first" soon will be achieved hy short wave when—some time this fall—intrepid engineers and announcers will descend into the fiery crater of the volcano Vesuvius near Naples, Italy.

The broadcast will be presented over the Italian station 2RO which operates on

25.40 meters.

Many of Radio Guide readers have asked for the correct schedule of the British Broadcasting Company's stations. It is as follows, EDST: From 1:15 to 3:15 a. m. GSD on 25.53 meters and GSB on 31.55 meters, From 7 to 9:30 a. m. GSH on 13.97 meters and GSG on 16.86 meters. 1 rom 9:45 a. m. to 1:45 p. m. GSG on 16.86 meters and GSF on 19.82 meters. From 11:45 a. m. to 1:45 p. m. GSF on 19.82 meters and GSE on 25.29 meters. From 2 p. m. to 6:30 p. m. GSF on 19.82 meters and GSB on 31.55 meters and from 7 to 9 p. m. GSD on 25.53 meters and GSC on 31.30 meters.

Christian and Jewish religious music, and stirring stories of the sea, will be brought to short-wave listeners during

the days just ahead.

The annual Three Choirs Festival, featuring the Mozart Requiem Mass, will be broadcast from the ancient cathedral in Gloucester, England. This is one of England's oldest annual religious ceremonies. It has been held alternately at Gloucester, Worcester and Hereford almost continuously since 1724. Now it will be presented on Tuesday, September 4, at 4 p. m. EDT, over stations GSD on 25.53 meters and GSB on 31.55 meters—also over the Columbia network.

The mass will be sung by the combined cathedral choirs of Worcester, Hereford and Gloucester, comprising 350 voices. The soloists will include Isobel Baillie, Mary James, Trefor Jones and Keith Kalkner, accompanied by the London Symphony Orchestra, conducted by Doctor Percy Hull, organist of Hereford Cathedral.

To obtain a copy of the government's complete, up-to-the-minute short wave log, "Short Wave Radiophone Transmitters of the World," send 25 cents in coln or money order, to the Radio Division, Department of Commerce, Washington, D. C.

On September 8 the noted choir of the Grande Synagogue in Warsaw, Poland, will send a special international program for American listeners. This will be the first ever broadcast to this country from abroad by a synagogue choir. Coming two days before the observance of Rosh Hashana at the beginning of the month of Tishri, it will reflect the mood and spirit of the religious occasion. The program will be heard here at 0.45 p. m. EDT over the Polish station SRI on 31.35 meters and will be rebroadcast over the NBC-WI:AF network.

Starting Monday, September 3, and continuing every Monday afterward, special broadcasts will be presented from the schooner "Seth Parker." These will consist of songs and sea chanties by Phillips Lord and the crew, who also will dramatize tales of their adventures. At present the boat is in the Perlas Islands, Panama Bay—and it broadcasts over short wave station KNRA, on 48.70, 24.30 and 31.22 meters. NBC-WJZ will rebroadcast the Monday programs at 8:45 p. m. EDT.

Short Waves

wners of short-wave receiving sets willbe able to tune in direct on CBS's "inside" signals and directions during the yacht races off Newport, R. I., for the

famed America Cup.
On Monday, September 10, NBC will again present one of its new broadcasts from the "Seth Parker." This will be sent by short-wave, and rebroadcast over the NBC-WJZ network at 8:45 p. m. EDT. Tales of the adventures of the crew and Phillips Lord will be presented, and some songs and sea chanties will be included. The program will come over the Seth Parker station, KNRA, on 48.70, 24.30 and 31.22 meters. At present the "Seth Parker" is located in a harbor of Panama Bay.

On Wednesday, September 12, at 10 p. m. EDT, the regular two-way short-wave broadcasts of the Byrd Expedition will be presented over short-wave station KFZ, in little America, and rebroadcast by Columbia. Short-wave fans may listen to KFZ sending out test broadcasts every Monday, Tuesday and Wed-nesday between the hours of 7 and 10

p. m. EDT.

Radio Guide has a limited quantity of world short wave logs available which will be sent readers who address this column, enclosing stamped, selfaddressed envelope.

Once again, short-wave broadcasting gives its fans advantages not shared by those whose sets are equipped only with long-wave apparatus. Parts of two of this week's important broacasts are not being rebroadcast over long waves—and consequently can be heard only by short-wave fans.

One of these broadcasts will be the address from the throne by Wilhelmina, Queen of the Netherlands, at the opening of the Dutch Parliament at The Hague on Tuesday, September 18. This special program will be presented 9:15 a. m. EDT, over station PCM, which operates on 46.63 meters. This program will also be rebroadcast over the NBC-WEAF network—but only, until 10 a. m.

Following the Queen's speech, a summary in English will be given, together with a description of the colorful scene in the historic hall. Special importance is attached to Her Majesty's remarks to her people's representatives at this time, due to unrest in her kingdom reflected from the storm centers of social and political conflict in other parts of Europe.

And every day this week all short-wave listeners will be able to tune in on the "inside" operations of the American Cup Races, which will be sent by short wave to both large networks, between 15 and 40 meters.

Y odeling in the Alps—the voices of the King and Queen of England and the sohbing strains of Hawaiian musicians; these will be some of the outposts of short-wave entertainment during the week ahead.

An odd broadcast will be presented from the Jungfrau Tower in the Swiss Alps, 13,600 feet up in the Bernese Range. It will feature Fraulein Gritley Wenger, champion Swiss yodeler; the Bernese Singer Boys, singing folk songs; an interview with a glacier guide, a native Swiss orchestra and a commentator who will give a description of the scenery. This program will be presented over the shortwave station HB9D on 41.50 meters in Switzerland, and rebroadcast over the NBC-WJZ network on Sunday, September 23, at 2 p. m. EDT.

On Wednesday, September 26, the launching of the new Cunard liner "Victoria" and the christening of the ship by

Queen Mary of England will be broadcast with an address by Sir Percy Bates, co-chairman of the Cunard-White Star Line, and with a reply by King George. There will be a running commentary of scene and activities by George Black, BBC announcer. This program will be presented over the English stations GSG on 16.86 meters and GSF on 19.82 meters, and rebroadcast over the NBC-WJZ and Columbia networks at 9:50 a. m. EDT.

For those who cannot tune in this program at such an early hour, the British Broadcasting company will make recordings of the entire proceedings and will present them at 3:25 p. m. EDT over their short-wave stations GSD on 25.53 meters and GSB on 31.55 meters. The recordings will again he presented at 8:05 p. m., and this time they will be presented over stations GSD on 25.53 meters and GSC on 31.30 meters. And the final broadcast of the unusual program will be presented on Thursday morning at 2 a. m. EDT.

(Shown In Eastern Standard Time)

World attention focuses on South America this coming week, by means of short-wave radio. From that continent will come broadcasts of interest to both religious and worldly-minded people. From Buenos Aires will come the great Catholic International Eucharistic Longress. And from the adventure-colored coast will come stirring stuff from the Seth Parker", now well launched on her world cruise.

On Wednesday, October 10, short waves from Buenos Aires will broadcast the International Eucharistic Congress, which is meeting in that city. This Congress is one of the most important of Latholic gatherings. The official opening will be rebroadcast over the Columbia and

Theme Songs that "Click"

The fascinating, familiar, yet haunting time played by Abe Lyman's Orchestra as the theme song for his "Melodiana" programs, is "La Golondrina". It was written by Serradell, a Mexican composer.

Since the compositions of most Mexican and South American musicians never have been properly recorded, and no complete catalogue of their work exists, it is not known exactly when "La Golondrina" was written. However, it was fairly well known in the United States as far back as the lurn of the century, when band concerts played it in the village squares and the

National networks and will take place at 9 a. m. EST. The Pope will send a message to the Congress, from the Vatican station HVJ (19.83 meters). It will be picked up by the British Broadcasting stations and sent to America and rebroadcast. It is expected that all the shortwave stations in Buenos Aires will broadcast this event but—the station that is heard best here at this time of the year is 1 R4-LSX on 28.98 meters.

First to be heard will be the High Mass and official opening of the Congress. Then will follow discourses by the Archbishop of Buenos Aires; an address by the President of the Permanent Committee of Eucharistic Congresses and the Papal Legate; and finally the Benediction and singing of the Congress official hymn.

On Thursday, October 11, at 8 a. m., will begin the Children's meeting, with the High Mass and Communion and religious singing. Then at 4:30 p. m. the first General Assembly will be held, when information will be forthcoming on the results of previous meetings, and arrangements for the days to come.

Friday, October 12, is "Dia de La Raza" (The day of the Latin Race)

Saturday, October 13, is the day of the Virgin Mary, with Mass in the High Altar, and national and international homage to our Lady of Lujan.

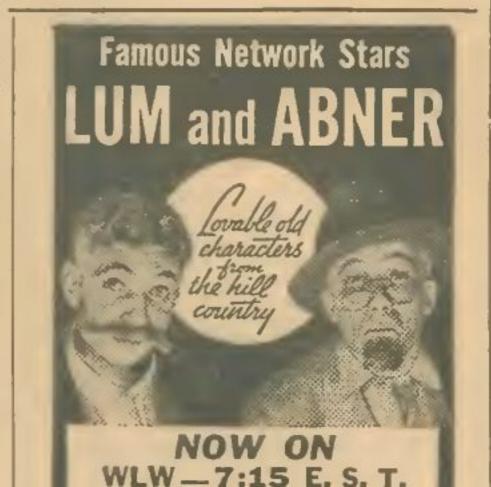
On Sunday, October 14, the final broadcast will be made. It will consist of the Benediction from the Pope, which again

will be sent to the entire world.

The short-wave stations in Buenos Aires will be on the air every day from 8 a. m. to 11 p. m. during the Congress. The networks will pick up different sections of important happenings throughout the week.

On Monday, October 8, the National Broadcasting Company will present another rebroadcast from the schooner "Seth Parker." This program is short-waved each Monday by station KNRA, located on the "Seth Parker," which operates on 48.70, 24.30 and 31.22 meters. It is then packed up by the NBC-WJZ network. During the past weeks this station has been heard sending out test broadcasts, which are received very well in this country. The schooner is now sailing down the west coast of South America.

A Canadian note of interest reveals that effective October 8. Station VE9GW (6005 kc.) will transmit programs on the following schedule: Sunday, I to 9 p. m.; Monday, Tuesday and Wednesday, 3 p. m. to 12 midnight; Thursday, Friday and Saturday, 7 p. m. to midnight.



On Sunday, October 14, a special short-wave program in the exchange series between the National Broadcasting Com-pany and the Soviet Union Board for Broadcasting and Radiofication will again be presented from Moscow.

The broadcast will feature the musical art of different nationalities of the USSR, with folk songs and instrumental presen-tations.

Taisons.

This program will be sent out by short-wave station RV15, located at Khabarovsk, Russia, and operating on 70.05 meters. It will be rebroadcast over the NBC-WEAF network at 9:30 a.m.

On Friday, October 19, another in the series of short-wave programs on "Causes of War" will be discussed by famous British leaders whom the National Broadcasting Company and the British Broadcasting Company are presenting to the world. These Corp. are presenting to the world. These unusual broadcasts are on the air each Friday at 5 p. m. over the short-wave stations GSB on 31.55, and GSD on 25.53 meters, and rebroadcast over the NBC-

STATIMENT OF THE OWNERSHIP MANAGE-MENT, CIRCULATION, ETC. REQUIRED BY THE ACT OF MARCH 8, 1804 Of Radio Unide, paidwised weekly at Chicago, Hillands for Certains 1, 1834 Buile of Hillands

County of Cook

Defore me. a majory in and for the State and
county aforemed, precessily appeared Repher
Kranner, who, having here duly sweet according
to law, deposes and anys that he is the England
to law, deposes and anys that he is the England
to law, deposes and anys that he is the England
to the Major the Hadin theids and that the followlag in, to the heat of his knowledge and belled,
a true adatement of the ownership, empacement
of the Store-ship principles for the data shows
in the almost englished in for the data shows
in the almost englished in for the data shows
in the almost englished in the ownership, empacement
of this form, to will
be the anner and addresses of the published
again annealing efflor, and iminous measure
aper lubilities, Radio Guide, Inc., 215 Plymouth
Court, Chivara, III, Editor II, S. Wood, 131
Plymouth Court, Chivara, III, Plymouth Court, Chicago,
III.

The the anner in Radio Guide, Inc., the

Primeria Cont. Cilivaro. III. Derivers Mensey. Heribert Kransey. Till Plymorth Cont., Ciliogo. III.

2. That the aware is: Radia finite, inc., the stock of which is owned by D. B. T. Palmining Co., sale stockholder of the latter below Walter Healing Corp., and smortholder of the latter below Walter Healing Corp., and smortholder of the latter below Walter Healing Corp., and smortholder of the latter below Walter the Latter below Walter the Latter below Walter to the Latter below Walter at which are ill. L. Amendery, W. H. Aragenberg, J. A. Easte, L. Howard, B. Friede, H. Aragenberg, J. A. Easte, L. Howard, B. Friede, H. Aragenberg, J. A. Easte, L. Howard, B. Friede, H. Aragenberg, E. That the known boudhalders, maricages, and other security helders wantshies are; Nose.

4. That the two paracraphs near above, thing the sames of the owners, stockholders, and recurity helders, in any condition of sold latter as they arguest spots the books of the company but also, in cases where the stockholder as according the list of slockholders and security helder appears upon the books of the company hat also, in cases where the stockholder as according to the security relation, the name of the person of the person of supportant post of the company had also a first support to the sold of the company had also a first support to the sold of the company as trustees and readitions under which stockholders and security helder who do not appear upon the books of the company as trustees, and stock heads, or other securities the a security sholder who do not appear upon the books of the company as trustees, and stock heads, or other securities to a began flew than the or a been file owners and relative to the filter that the sol appear upon the books of the company as trustees, and the securities he does not security helder who do not appear upon the books of the company as trustees, and the filter than the or a been file owners and relative to the filter to the security helder than a company of the securities and manufactures, and t

WEAP network. On this week's broadcast the speaker will be Sir Norman Augell, edi-tor and author of many books on peace and war.

the speaker will be Sir Norman Angell, editor and author of many books on peace and war.

On Sunday, October 14, the final message of Pope Pius XI from Vatican City, Rome, to the thousands gathered at the Thirty-Second International Eucharistic Congress in Buenos Aires will be short-waved to the entire world at 10:30 p. m. and rebruadcast by both CBS and NBC.

The address of the Pope will be relaved from Rome over station HVJ on 15.11 meters to Buenos Aires, and broadcast through loud speakers in and around the Cathedral at Palermo. His talk will come direct to the American radio audience by short-wave from Rome. However, in case of atmospheric disturbances, communication focilities are being held open between Riverhead, Long Island, and both London and Berlin, so as to assure clear reception for the broadcast. An English commentator will follow the Pope and translate his remarks into English.

On Saturday, October 20, the celebration of the centenary of John Peel, the traditional hero of English hunting, will be broadcast via short waves from Competiand over the British Broadcasting Corp. stationa, and rebroadcast by the Columbia Broadcasting System at 12 o'clock noon. John Peel's name is familiar throughout the English-speaking world by reason of the popular folk song. "D'ye Ken John Peel". The village of Caldbeck, in Cumberland, where John Peel lived and was married and died, keeps his mensory green by a special hunt in October. It will be particularly memorial this year.

John Peel's own hounds have been kept up in a straight line of descent, and still hunt today over the same ground.

Hunting in this particular neighborhood has various special features, and the John Peel song is sung by the huntsmen as they set out for the faunt, in a style peculiar to them. Horns are also of a special kind, adapted to the will nature of the country; and of course the hounds giving tongue will add a very characteristic note.

Following the hunt will be a commentary, and a few words by the master of the hounds.

Bandstand and Baton

(Continued from page 17)

ferent cities while en route. Shortly he treks for Hollywood and another Paramount film.

GLEN GRAY is Essex House musician par excellence again, with his Casa Lorna band, CBS does pickup honors. Other Co-lumbia offerings from Manhattan include

Short Wave Timetable

_	_			
Me- ters	Megs	Sta- tion	Location	Schedule (Eastern Standard Time)
13.93	21:45	WEXK	Dittelnorgh, Pa.	6 A.M. to 2 P.M.
13,97 16.36	17,79	GSG W3XAL	England England	Daily 6 to 8:30 A.M. Daily 6 to 8:30 A.M.; 8:45 to 10:45 A.M.
16.83	17.78	W3XAL PH1	Bound Brack, N. J. Helland	9 A.M. to 3 P.M. Monday, Thursday, Friday 7:30 to 9:30 A.M.; Saturday and Sunday 7:30 to 11 A.M.
19.56	15.34	WZXAD	Schenectady, N. Y.	Daily 2 to 3 P.M.
19,68	15.25	WZXE PONTOTSE WXXK DJB	Wayne, N. J. France	10 A.M. to 12 Noon 7 to 10 A.M.
19.72	15.21	WSXK	Pittsburgh, Pa.	10 A.M. to 4:15 P.M. 4 to 5:30 A.M.; 8 to 11 A.M.; 12:20 to 2:30 A.M.
-12,62	3233	G3F	Geneary England	8 H5 A.M. to 12 H5 P.M.
19,84	35.11. 17.13	ENR	Vallean City Moreovo	Daily 5 to 5:15 A.M.; Saturday, 10 to 10:30 A.M. Sunday 7:30 to 9 P.M.
24.53	17.23	CNR CTICT PONTOISE	Portugal	Sunday 7 to 9 A.M. and Thursday 4 to 6 P.M.
25.27	11.87	WEXK	France Pittsburgh, Pa.	10:15 A.31 to 1:15 P.M. and 2 to 5 P.31, 4:30 to 10 P.31.
25.28	11.86	WZXE	England	10.45 A.M. to 12.45 P.M.
25,40	11.81	1280	Wayne, N. J.	2 to 4 P.M. 11:30 A.M. in 12:30 P.M. and 1:15 to 6 P.M.
25.51 25.53	11,75	GSD.	Germany England	3 to sursu Post, and 42113 to 4 P.St.
25.53	11.75	CJRX PONTOISE	Winnisee, Canada	12:15 to 2:20 A.M.; 1 to 5:35 P.M. and 6 to 8:05 P.M. Daily 8 P.M. to 12 Mid. 2 to 11 P.M.
30,40			Sjedn	Paily 5:13 to 7 P.M.; Sat. 12 Noon to 2 P.M.; Sat. and
31,25		XETE	Mexico	2 P.M. to 2 4 35.
31.25	9.60	CTIAA	Portugal	Tuesday, Friday, 4:30 to 7 P.M.
31.27	9.59	HBL W3XAU	Softserland Philodelphia, Pa.	Tuesday, Friday, 4:30 to 7 P.M. Saturdays, 5:30 to 6:15 P.M. 11 A.M. to 7 P.M.
31.28	9.59	VKZME	Australia	Sendays 12:50 to 2:50 A.M.; 4:50 to 8:50 A.M.; 9:50
31.30	9,58	GSC	Encland.	6 to 8 P.M.
31,31	9.57	WIXAZ	Australia Boston, Musa.	6 to 8 P.30 3:15 to 7:30 A.M. daily specipt Sunday 6 A.M. to 12 Midwight
31.38	9.57	ALC	Germany	4 to 5:30 A.M.; # to 11 A.M.; 5 to 8:15 P.M.
31.55	9.51	WZXAF VK3ME	Schrusciady, N. Y. Australia	6:35 to 10 P.M. Wedgesday, 5 to 6:30 A.M. Sarorday, 5 to 7 A.M.
31.55	9.51	HPSABH	England Colombia	Wednesday, 5 to 5:30 A.M.; Saturday, 5 to 7 A.M., 12:15 to 2:20 A.M.; 1 to 5:35 P.M. 7:30 to 9:30 P.M.; 11 to 12 Mid.
36.65	8.19	PSK	Brant	J to J-O P M.
37.33	7.88	TEA.	Marecco	Surelay 2:30 to 5 P.N. 4:50 to 7:50 A.M.
38.47 40.55	7.80	HBP	Sultrerland Colombia	Saturday, 5:30 to 6:15 P.M. 7:30 to 12 Mid. Monday, 6 to 7 P.M.: Tuesday, Friday, 8 to 9 P.M.
41.55	7.22	HBP HJ3ABD HKE	Colombia	
42.85	7,00	HJIABE	Colombia	Monday 10 to 11 P.M.; Wednesday 8 to 10 P.M.; Sunday 9 to 11 A.M. Sunday 5 to 14 P.M.; Turn, 9.15 to 11:15 P.M. Thursday 9 to 11:30 P.M. 7 to 10 P.M.
45.00		HC2RL PRADO	Erusder	Sunday 5:45 to 7:45 P.M.; Turn, 9:15 to 11:15 P.M.
46.30	6.48	HJ5ABD	Ecuador Colombia	7 to 10 P.4t.
46,51		M3XF M31VBB	Colombia Bound Brook, N. J.	F 70 102 POSE C 11-202 W/W 10-36-30 POSE
47.50	6.32		Deminiran Republic	Used for experimental NBC broadcasts 6:40 to 5:40 P.M.; Saturday 9:40 to 11:40 P.M.; Sun- day 11:40 A.M. to 1:40 P.M.
47.84		HITA	Deminican Republic	11:90 A.M. to 1:90 P.M. and 7:90 to 7:90 P.M.
48.00 48.78		HJ3ABF VV3RC	Colombia Venezuela	7 to 11 P.M. 10:30 A.M. to 1:30 P.M. and 4:30 to 10 P.M.
48.86	5.14	WEXK	Pittsburgh, Pa.	4:30 P.M. to 1 A.M. Daily 8 to 10 A.M.
48.92	6.12	ZGE JB	Malaya States Africa	4 to 6 A.M.; 2 to 10:30 A.M. and 11 A.M. to 3:30 P.M.
49.02	6.12	W2XE YV2RC	Wayne, N. J. Veneruela	5 in 10 P.M. 10-30 A.M. to 1 P.M. and 5:15 to 10 P.M.
49.08	6.03	XEST	Mexica	10:30 A.M. to 1 P.M. and 5:15 to 10 P.M. 7 P.M. to 2 A.M.
49.10		VESHX	India N. S.	8:30 to 11:30 A.M. and 5 to 10 P.M. 9:30 A.M. to 12 noon and Saturday 11:45 P.M. to
	5.10	WEXAL	Bound Brook, N. J.	Turn, Thurs., Fri. and Sunday 2:30 P.M. to 12 Mid.
49.18	6.10	WFXF	Chicago, III.	3-30 to 7:30 P.M. and 8:30 P.M. to 1:30 A.M.; Tuest, Thurst, Fri. and Sunday 2:30 P.M. to 12 Mid. 11:30 A.M. to 12:30 P.M. and 7 to 9 P.M. Thursday, Friday and Sajunday 7 A.M. to 4 P.M.; Sun-
49.20		VE9GW HJ1ABD	Colombia Bowmsoville, Can.	Thursday, Priday and Saturday 7 A.M. to 4 P.M.; Sun-
49.34	6.00	W9XAA	Chicago, III.	Turn. Thorn, and Saturday 3 to 11 P.M.
49,34	6.08	CP5	Belivia	7 to 10:30 P.M.
49.40	6.07	XEUT	Denmark Mexico	2 to 6:30 P.M. 7 P.M. to I A.M.
49.42	6.07	VE9CS	Vancouver, B. C.	Friday, 12:30 to 1:45 A.M.; Sunday, 12 Noon to 12. Midwicht
49.50	6.06		Deminican Republic	Tursday and Friday 8:10 to 10:10 P.M.; Sunday 8:40 to 10:40 A.M. and 2:40 to 4:40 P.M.
49,50		WEXAL	Philadelphia, Pa. Cincinnati, Ohio	7 to 10 P.M. 6:30 to 7 P.M.; 10 P.M. to 2 A.M.
99.50	6.06	VOTLO	Kenya Colony	11 A.M. to Z.P.M. daily
49.60		WIXAL	Colombia Boston, Mass.	8 to 10 P.M. 6 to 7 P.M. dolby 8:45 to 10:30 P.M.; 12:15 to 4 P.M.
49.83 49.96	6.07		Germany Drummondville, Can.	8:45 to 10:30 P.M.; 12:15 to 4 P.M. Saturday 13:30 P.M. to 2 A.M.
50.00	6.00	SLAI	Spain	3:30 to 4:30 P.M.
50.08	5.99	RV59 YV4RC	Russia Venerodu	Daily 2 to 6 P.M. 4:30 to 10:30 P.M.
50.25		HJZABC	Colombia	11 A.M. to 12 Noon and 6 to 9 P.M. Daily, 2 to 2:15 P.M.: Sunday, 5 to 5:30 A.M. Manday 7 to 11 P.M.: Tuesday, Thursday and Saturday
50.42		HJ4ABE	Vatican City, Italy Colombia	Monday 7 to 11 P.M.; Tuesday, Thursday and Saturday
51.49	5.88	на2АВА	Colombia	1 to 2 and 7:30 to 10 P.M.
69.44	4.32	HC1B	England Ecuador	7 to 10 P.M. 7-30 to 9:45 P.M. daily except Monday
10104	1.00	11444		
1	233477	CONTRACTOR OF THE PARTY OF THE	Market Victoria	. MOVIE HELLED CALLY DAND AR

There Is Only ONE

RADIO GUIDE

The yearly subscription price is \$2.00 (\$3.00 yearly in Canada; \$4.00 yearly in foreign countries)

RADIO GUIDE 731 Plymouth Court Chicago, Illinois

Centlemen:

Enclosed please find \$	for	which sen	
RADIO GUIDE to me for (six months) NAME		(one year	
ADDRESS			
TOWN	STATE_		

BUDDY WELCOME in the Roseland Ballroom and HARRY SALTER from the Park Central Hotel.

GEORGE OLSEN may stay at the College Inn of Chicago's Hotel Sherman as long as he likes. This was the sentiment expressed by ERNEST BY-FIELD, director. And it is the same sentiment held by patrons of the Inn, judging from the enthusiastic crowd which jammed the opening party last week. RUDY VALLEE, ALICE FAYE, the RITZ BROTHERS, LITTLE

JACKIE HELLER, SALLY RAND, AR-THUR TRACY, FRANK BUCK, PAT KENNEDY, AMOS 'N' ANDY, were on-ly a Jew of the many celebrilies who wel-comed Olsen and wife ETHEL SHUTTA to their first Chicago might-club stand.

DOROTHY LAMOUR, ex-Miss America, sticks to her laurels and collegians, "Dolly-face" will remain with Herbie Kay on a barnstorming tour of midwestern states, contrary to previously published reports, Meanwhile her network commerc-ial from New York is still in the offing.

From England, Japan, the high seas and the Antarctic, short wave will bring news, opinion and entertainment this week

to its fans.

"Causes of War" will be discussed this Friday, October 26 at 5 p. m. EST by LORD BEAVERBROOK, noted English publisher, over the English stations GSB on 31.55 and GSD on 25.53 meters. This program, one in a series of noted speakers organized to combat war, will be rebroadcast by NBC-WEAF.

From Tokio on Friday, October 19, from T 7 to 7:15 p. m. EST, come ceremonies on the eve of the opening of the 15th annual conference of the INTERNATIONAL RED CROSS. Rebroadcast by NBC-WEAF, this program will originate on station JVM on 27.93 meters.
SETH PARKER'S sea-chanties will

come from the schooner "Seth Parker" on Monday, October 22, at 8:45 p. ni. IEST. Originating over KNRA on 48.70, 24.30 and 31.22 meters, this program will be rebroadcast over NBC-WJZ.

On Wednesday, October 24, another CBS Byrd Expedition two-way broadcast will be presented over KFZ at 10 p. m.

EST.

Marconi, the father of radio, will begin a new series of program from Italy designed especially for short wave listeners when he speaks Sunday, October 28, from Rome. The program will be known as "American Hours," and is to be rebroadcast by the NBC-WEAF network on regular broadcast bands in this country.

Marconi's talk, originating at 2RO, Rome, will be heard at 7 p. m. EST.

With JUDGE JOHN BARTON PAYNE as the principal speaker, an international broadcast linking the capitals of the United States and Japan will be heard over the NBC-WJZ network Monday, November 5, at 6:15 p. m. EST.

Aside from these serious programs, short wave fans will undoubtedly be interested in the test short-wave broadcasts that will be going on in Little America within the

next few weeks.

Having transmitted programs from the S. S. Jacob Ruppert, flagship of the Byrd Expedition, and from the short-wave transmitter K1²Z, located in Little America, the two-way Byrd Antarctic programs will in the near future originate from still another point—the twin-motored Curtiss Condor

plane as it wings its way across the Antarctic ice barriers on trips of exploration.

This plane was equipped especially with a modern 50-watt transmitter for both Morse code and voice apparatus, before the expedition left the United States a year ago. This will enable the occupants of the plane to keep in touch with KFZ during flights of exploration, and attempts will be made to relay the voices from the plane through KFZ to the Columbia network. The regular CBS broadcasts are heard every Wednesday at 10 p. m. EST, and the test broadcasts can be picked up by the short-wave set owners many times a week.

Exploration flight plans now are being completed, according to latest word from Little America, but it cannot be said definitely when the flights and the coincident plane broadcasts will take place. Admiral Byrd, who will take to the air on each of the trips, has announced that probably two flights, in addition to an air journey to the South Pole, will be made. One of these will be to the Weddell Sea, a distance greater than that to the South Pole—and the other to unexplored areas in eastern Antarctica. Harold June, chief aviator, probably will pilot the plane on the flights.

Short Wave Timetable

	311	011 44 9	ve lillelable
Me- ters Megs	5ta- tion	Location	Schedule (Eastern Standard Time)
13.93 21.45 13.97 21.47 16.86 17.79 16.87 17.78 16.88 17.77	GSH GSG W3XAL	Firthburgh, Pa. England England Bound Brook, N. J. Holland	6 A.M. to 2 P.M. Daily 6 to 8:30 A.M. Daily 6 to 8:30 A.M.; 8:45 to 10:45 A.M. 9 A.M. to 3 P.M. Monday, Thursday, Friday 7:30 to 9:30 A.M.; Saturday
19.72 15.21 19.73 15.20 19.82 15.13 19.84 15.11 23.38 12.83 24.53 12.23 25.20 11.90 25.27 11.87 25.28 11.85 25.40 11.81 25.53 11.75 25.53 11.75	W2XE PONTOISE W3XK DJB GSF HVJ CNR CTICT PONTOISE W2XK GSE W2XE U2RO DJD GSD CJRX PONTOISE	Pittshurgh, Pa. Germany England Vatican City Morocce Portugal France Pittshurgh, Pa. England Wayne, N. J. Italy Germany England Winninger Connde	and Sunday 7:30 to 11 A.M. Dally 2 to 3 P.M. 10 A.M. to 12 Neon 7 to 16 A.M. 10 A.M. to 4:15 P.M. 4 to 5:30 A.M.; 8 to 11 A.M.; 12:20 to 2:30 A.M. 8:65 A.M. to 4:15 P.M. Brilly 5 to 5:15 A.M.; 8 sottle and to 10:30 A.M. Sunday 7:30 to 9 P.M. Sunday 7:30 to 9 P.M. Sunday 7:10 9 A.M. and Thursday 4 to 6 P.M. 10:15 A.M. to 1:15 P.M. and 2 to 5 P.M. 4:30 to 10 P.M. 10:65 A.M. to 12:45 P.M. 2 to 4 P.M. 11:30 A.M. to 12:30 P.M. and 1:15 to 6 P.M. 5 to 10:30 P.M. and 12:15 to 4 P.M. 12:15 to 2:20 A.M.; 1 to 5:35 P.M. and 6 to 8:05 P.M. Daily 8 P.M. to 12 Mid. 2 to 11 P.M. Daily 8 P.M. to 12 Mid. 2 to 11 P.M. Daily 5:15 to 7 P.M.; Sat. 12 Noon to 2 P.M.; Sat. and
\$1.25 9.60 31.25 9.60 31.27 9.59 \$1.28 9.59	XETE CTIAA HBL W3XAU VK2ME	Mexico Protugal Switzerland Philodelphia. Pa. Australia	Sunday 7 to 7:30 P.M. 2 P.M. to 2 A.M. Tuesday, Friday 4:30 to 7 P.M. Saturdays, 5:30 to 6:15 P.M. 11 A.M. to 7 P.31. Sundays 12:30 to 2:30 A.M.; 4:30 to 8:30 A.M.; 9:30
11.30 9.58 31.31 9.58 31.36 9.57 31.38 9.57 31.48 9.53 31.48 9.53 31.55 9.51 31.55 9.51 32.02 9.37 36.03 8.05 38.07 7.80 48.47 7.80 441.55 7.22	GSC VKBLR WIXAZ	Encland Australia Boston, blass, Germany Schenectady, N. Y. Australia Encland Colombia Braell Morecce Japae Switzerland Colombia Colombia Colombia Colombia	10 11:30 A.M 6 to 8 P.M 3:15 to 7:30 A.M, dafly except Sunday 6 A.M. to 12 Midnlight 4 to 5:30 A.M.; 8 to 11 A.M.; 5 to 8:15 P.M. 6:35 to 10 P.M. Weinreday, 5 to 6:30 A.M.; Saturday, 5 to 7 A.M. 12:15 to 1:20 A.M.; 1 to 5:35 P.M. 7:30 to 9:30 P.M.; 11 to 12 Mid. 7:40 to 7:30 P.M. Sunday 2:30 to 5 P.M. 4:50 to 7:50 A.M. Sunday 5:30 to 6:15 P.M. 7:30 to 12 Mid. Monday, 6 to 7 P.M.; Turnday, Friday, 8 to 9 P.M. Monday 10 to 11 P.M.; Wednesday 8 to 10 P.M.: Sunday 9 to 11 A.M.
46.30 6.48 46.51 6.45	PRADO HJ5ABD HJ1ABB W3XL	Ecuador Ecuados Colorabia Colorabia Bound Brunk, N. J., Dominican Republic	Sunday 5:45 to 7:45 P.M.; Tues, 9:15 to 11:15 P.M. Thursday 9 to 11:30 P.M. 7 to 10 P.M.; 11:45 A.M. to 12:45 P.M. Used for experimental NBC broadcasts 4:40 to 5:40 P.M.; Saturday 9:40 to 11:40 P.M.; Sunday 11:40 A.M. to 1:40 P.M.; Sunday 11:40 P.M.; Sunday 11
48,78 6.15 48,96 6.14 48,92 6.13 49,00 6.12 49,02 6.12 49,08 6.03 49,10 6.11	HJ3ABF YV3RC W8XK ZGE	Dominican Republic Colombia Veneruela Pittaburah, Pa. Malaya States Africa Wayne, N. J. Venezuela Mexico Hulifar, N. S. India	11:40 A.M. to 1:40 P.M. and 7:40 to 9:40 P.M. 7 to 11 P.M. 10:30 A.M. to 1:30 P.M. and 4:30 to 10 P.M. 4:30 P.M. to 1 A.M. Daily 8 to 10 A.M. 4 to 6 A.M.; 8 to 10:30 A.M. and 11 A.M. to 3:30 P.M. 5 to 10 P.M. 10:30 A.M. to 1 P.M. and 5:15 to 10 P.M. 7 P.M. to 2 A.M. 8:30 to 11:30 A.M. and 5 to 10 P.M. 9:30 A.M. to 12 noon and Salurday 11:45 P.M. to
49.18 6.10 49.18 6.10	W3XAL W9XF	Bound Brook, N. J. Chicago, III.	3 A.M. Tues., Thurs., Fri. and Sunday 2:30 P.M. to 12 Mid. 3:30 to 7:30 P.M. and 8:30 P.M. to 1:30 A.M.; Tues., Thurs., Fri. and Sunday 2:30 P.M. to 12 Mid.
49.20 6.10 49.22 6.09	HJTABD VE9GW	Colombia Bownserville, Can.	11:30 A.M. to 12:30 P.M. and 7 to 9 P.M. Thursday, Friday and Saturday 7 A.M. to 4 P.M.; Sun- day 10 A.M. to 7 P.N.
49.34 6.08		Chicago, III. Bolivia Denmark Mexico Vancouver, B. C.	Tues., Thurs. and Salurday 3 to 11 P.M. 7 to 10:30 P.M. 2 to 6:30 P.M. 7 P.M. to 1 A.M. Priday 12:30 to 1:45 A.M.; Sunday, 12 Noon to 12
19.50 6.06	HIX	Daminican Republic	Nichright Tuesday and Friday 8:10 to 10:10 P.M.; Sunday 8:40 to 10:40 A.M. and 7:40 to 4:40 P.M.
19.67 6.04 19.83 6.02 19.95 6.01 50.00 6.00 -0.00 6.00 50.08 5.99 10.25 5.97	WEXAL	Philiadelphia. Pa. Cincinnatil. Ohio Kenya Colony Culumbia Boston, Mass. Germany Drasmondville, Cao. Spain Russia Veneruria Colombia Valiesn City, Italy Colombia	10:40 A.M. and 2:40 to 4:40 P.M. 7 to 10 P.M. 6:30 to 7 P.M.; 10 P.M. to 2 A.M. 11 A.M. to 2 P.M. daily 8 to 10 P.M. daily 8 to 10 P.M. daily 8:45 to 10:30 P.M.; 12:15 to 4 P.M. 5aturday 11:30 P.M. to 2 A.M. 3:30 to 4:30 P.M. Daily 2 in 6 P.M. 11 A.M. to 12 Noon and 6 to 9 P.M. Daily, 2 to 2:15 P.M.; Sunday, 5 to 5:30 A.M. Moiday 7 to 11 P.M.; Tureday, Thoursday and Saturday 6:30 P.M.; Wad, and Friday 7:30 to 10:30 P.M.
51.49 5.88 59.44 4.32	GSRX	Colombia England Ecuador	1 to 2 and 7:30 to 10 P.M. 7 to 10 P.M. 7:30 to 9:45 P.M. daily except Mosday

Time Shown Is Eastern Standard

ne of America's most popular pro-grams, the General Foods starring JACK BENNY, will be made available to listeners in other countries when it is released on short wave

Sunday, November 4.

The short wave pickup, intended for re-broadcast by Station KGU, in Honolulu, will be on the air at 11:30 p. m. EST, or 6 p. m. Hawaiian time. At this hour it is broadcast from New York City for Pacfic Coast stations also. It will go by land wires to San Francisco, where RCA communications are to relay it for KGU pickup.

SOVIET RADIO again cooperates with America when a program of symphonic music is transmitted from the U.S.S.R. on the Russian station RV59, 50,00 meters, and rebroadcast over the NBC-WEAF network at 9:30 a, m. EST Sunday, November 4. The symphony orchestra of All Union Radio Committee will play original of Trans-Caucasian composers. EUGENE MIKELADZE, chief conductor of the Tiflis State Opera House, will direct.

ORIGINAL AND RECORDED broad-

casts of Ramsey MacDonald's review of Great Britain's national policy, Friday, November 9, will carry the talk to every country in the world. The actual speech made at the Lord Mayor's annual hanquet, will be picked up in this country by both the Columbia and NBC networks at 3:55 p. m. IST, and will be short-waved over BBC stations GSD on 25.23 meters and GSB, 31.55 meters. Following Mr. MacDonald's address, HOWARD MAR-SHALL, BBC announcer, is to describe the remainder of the banquet in London. Transcriptions of the program will be BBC features at 2:25 a. m. Saturday, over GSD, 25.23 meters and GSB, 31.55 meters; again at 6:40 a. m. on GSG, 16.86 and GSF, 19.82 nieters, and finally, 9:25 a. m., GSF, 19.82 meters and GSE, 25.30 meters,

PROGRAMS DEDICATED to different communities throughout the world are announced by Station VK2ME, Sydney, Australia, for broadcast on 31.28 meters during the next few months. Sunday, November 25, Washington, D. C., will be so honored at 5:15 a. m. EST. On December 9, Honolulu. Alaska, and the Canadian provinces of Ontario, New Brunswick and Nova Scotia will all be feted at three different times.

Time Shown Is Eastern Standard

)cace on earth" will be the message sent Pringing around the world by short wave on Sunday, November 11—the anniversary of Armistice Day, which saw the end of the World War,

Seven nations will participate in this. The Family of Nations, program arranged by the Carnegie Endowment for International Participal Program arranged tional Participal Program arranged by the Carnegie Endowment for International Participal Program arranged by the Carnegie Endowment for International Participal Program arranged to the Carnegie Endowment for International Participal Program arranged to the Carnegie Endowment for International Endowment f

tional Peace in cooperation with the Co-

lumbia Broadcasting System. It will commence at 4 p. m. IST.

The first speaker on the program will be Doctor Nicholas Murray Butler, President of Columbia University and the Carnegie Endowment for International Peace, speaking from New York. Sir John Simon, English secretary of foreign affairs will follow; and then in rapid sucaffairs, will follow; and then in rapid suc-cession will come the voices of Doctor Eduard Benes, foreign minister of Czecho-slovakia and President of the League of Nations, from Prague; Elentherious Veni-zelos, venerable soldier, statesman and former premier of Greece, from Rome; the Right Honorable Richard Bennett. Prime Minister of Canada, from Ottawa; Doctor Afranio de Mello Franco, former Minister of Foreign Affairs of Brazil, from Rio de Janeiro; and Prince Tokugawa, former President of the Japanese House of Peers and President of the Japanese Red Cross, from Tokio.

Sir John Simon's address will be short-waved by the British Broadcasting sta-tions GSD on 25.53 meters and GSB on 31.55 meters. The voices of Doctor Benes and of Venizelos will be transmitted from Rome by their short-wave station 2R0 on 25.4 meters, and by telephone lines to London thence out over the English short-wave stations. Mr. Venizelos will make a special trip from Athens to Rome to participate in this program. Doctor Franco's talk will be short-waved from Brazil over station PRAG on 35.50 meters.
Prince Tokugawa's address will be sent
out by station JIAA on 37.03 meters.
Prime Minister Bennett will speak from
station CFRB in Toronto, Canada.
Another interesting point in this special

short-wave broadcast is the remarkable variations in the time at which the speakers will appear on the program. When it is 4 p. m. in New York it is 9 p. m. in London, 10 p. m. in Rome and Prague, 6 p. m. in Brazil and 6 a. m. the next day (November 12) in Japan.

a bone in her teeth and a spankg breeze astern, the schooner
ther continues to ride the ocean
e the voices of her cap'n and
the waves of radio. On Monday,
r 19, another in the series of
the broadcasts will be sent out by
lord and his singing seamen.

the past few weeks these broadwe been based upon readings from
ps log—telling tales of these radio
and their adventures since they
nd the Pacific coast of the United
and ventured forth upon the
g main. With the taletelling come
and sea chanties reminiscent of the
days before steam doomed the clipps and other wind-blown boats.

But the Seth Parker differs from her ships of yore in having a fullmed radio station aboard—the shortave station KNRA. Short-wave fans who is to tune tamely into the NBC-WJZ proadcast on Monday at 8:45 p. m. LS1, can get KNRA direct on 48.70, 24.30 and 31.22 meters. Many such fans have enjoyed tuning in KNRA's test broadcasts, which have been received very well

It's a far cry from the romantic rovings of Phil Lord and his high-seas thespians, to the deadly serious modern romance of the Byrd expedition—but short wave makes the jump. On Wednesday, November 20, the Columbia Broadcasting System will present another of its twoway broadcasts from the Byrd Expedition.

These programs reach America via the short-wave station KFZ in Little America and are easily picked up by short-wave set owners. This station has been heard testing between the hours of 7 and 10 p. m. EST every Monday, Tuesday and Wednesday. The two-way broadcasts that are picked up and rebroadcast by CBS are presented at 10 p. m. EST.

On Friday, November 23, another of the international Causes of War programs will be presented by the National Broadcasting Company and the British Broadcasting Corporation. The speaker will be G. H. Cole, the broadcast at 5 p. m. EST over the English stations GSB on 31.55 meters and GSD on 25.53 meters. It will be rebroadcast over an NBC-WEAF network

Would you like to attend the marriage of a king's son and a king's daughter? You can—by radio—on Thursday, November 29. Thanksgiving Day, when Prince George of England and Princess Marina of Greece will be married at West-

Thanksgiving Programs

The following hours have arranged special programs commemorating Thanksgiving Day:

Time Is Eastern Standard

Wednesday-Thanksgiving Eve

CBS-WABC 7:30 p.m.—Paul Keast, barilone, CBS-WABC 9:30 p.m.—Adventures of Gracie, CBS-WABC 10 p.m.—Byrd Expedition.

Thursday-Thanksglving Day

NBC-WEAF 7:30 a.m.—Leider Singers.

NBC-WEAF 11:45 a.m.—Thanksgiving Message; Harold L. Ickes, Sec'y of the Interior.

NBC-WEAF 12:30 p.m.—The Harvest Cantata, sing by Gothic Choristers.

NBC-WEAF 3:30 p.m.—Thanksgiving Sym-

NBC-WEAF 4:30 p.m.—The First Thanksgiving Dinner; Dean Gleason L. Archer, speaker; Boston Chorus.

NBC-WEAF 7:45 p.m.—Russian Symphonic Choir.

NBC-WEAF 8 p.m.—Rudy Vallee's Hour; Don Cosack, Russian male chorus.

NBC-WJZ 7 p.m.—Mexican Typica Orchestra; Special Thanksgiving Songs.

CBS-WABC 10:15 a.m.—Bill and Ginger; Thanksgiving Songs.

ABS-WMCA 4:30 p.m.—Courlship of Miles Standish.

ABS-WMCA 8:15 p.m.—Thanksgiving Cavalcade. minster Abbey. This important event will be broadcast by short wave from England, and rebroadcast by both NBC and CBS.

Howard Marshall, commentator of the British Broadcasting Corporation, will stand outside Westminster Abbey and describe the royal wedding procession as it approaches. The microphone will pick up the ringing of the bells and the cheering of the crowds. Marshall will resume his commentary after the couple leaves the church. A mike stationed inside will carry the actual ceremony.

It is more than eleven years since a child of King George and Queen Mary was married. When all the details have been approved by the King, the supervision of the ceremony will be left to the Lord Chamberlain.

Engrossment of the marriage license will be made at the Archbishop of Canterbury's office. This will be done in old English lettering on a parchment scroll nearly a yard square.

The Archbishop of Canterbury, the Archbishop of York, the Dean of Westminster and the Bishop of London will conduct the ceremony. Since the Princess is a member of the Greek Orthodox Church, the marriage ceremonies of her faith will be celebrated in Buckingham Palace after the Anglican rights.

Tradition and precedent dictate that the wedding be a state occasion; that there be a procession between Buckingham Palace and Westminster Abbey, and breakfast in the palace.

This program will be presented over GSG on 16.86 meters and GSF on 19.82 meters, and rebroadcast over the Columbia and NBC-WJZ networks at 5:45 a. m., EST.

Once again short-wave set owners can have a few more hours of sleep if they are interested in listening to this broadcast, because the BBC will make recordings of the program and present them later in the day. These recordings will be presented at 11 a. m. EST over stations GSE on 25.30 meters, and GSB on 31.55 meters; at 1:15 p. m. over stations GSD on 25.53 meters and GSB on 31.55 meters; at 6 p. m. over stations GSC on 31.32 meters and GSA on 49.59 meters; and finally on Friday at 3:15 a. m. I:ST over GSD on 25.53 meters and GSB on 31.55 meters.

Father Coughlin's Broadcasts

Stations carrying Father Coughlin's broadcast outlets are listed below. His talks go on the air at 4 p. m. EST, 3 p. m. CST, and 2 p. m. MST, every Sunday.

Shrine of the Little Flower Network

WLW, Cincinnati, O. WOKO, Albany, N.Y. WCAU, Philadelphia WFBL, Syrac'se, N.Y. WGR, Buffalo, N. Y. WOR, New York City WOL, Wash'ion, D.C. WGAR, Cleveland, O. WHO, Des Moines, la. WJR, Detroit, Mich. KWK, St. Louis, Mo. WHB. K. C., Mo. WCAO, Baltimore, Md. WJJD, Chicago, Ill. KSTP, St. Paul, Min. KYW, Chicago, Ill. WJAS, Pittsb'gh, Pa. WOW, Omaha, Nebr.

The Yankee Network

WNAC, Boston, Mass. WIIAS, Springfield, WDRC, Hartford, Ct. Mass. WEAN, I'rovid'ce, R.I. WFEA. Manch't'r, NII WICC, Bridgep't, Con. WNBII, N. Bedford, WORC, Worc'ter, Mas Mass. WLBZ, Bangor, Mnc. WLLII, Lowell, Mass.

Time Shown is Eastern Standard

way of keeping track of what the other countries are saying about the United States-and also about the United States—and also learning what they are trying to do inside their own boundaries—is by listening in to their short waved world news reviews which are not "setups" for exchange broadcasts by this and other countries. Set your altern for 8-30 a m and tune in Pontoese, France (15,243 megacycles), for the first newscast. Follow at 3,45 a m, with your choice of GM, Daventry, England (15,13 meg.), or DJB, Zeesen, Germany (15,281 meg.).

All the periods quoted bring broadcasts in English.

Reception Review

FOR PERIOD of November 15-23, as reported by Charles A. Mareison, International Divers Alliance, Bloomington, Ill.:
The period under review has been about average with three very poor days when even the best stations failed to show up. In peneral CSI, Daventry, England, has been the outstanding signal on 10 maters.

land, has been the outstanding signal on 19 meters.

The 25-meter band has improved considerably and Golf. Quventry, England (1186 meg.), is usually good at the beginning of the 9.15 a.m. transmission. Try for PHI, Hursen, Hulland, on 11.725 meg. at the same time. You'd also better have an ear cocked for RNE, Moscow (12.00 meg.). They have been testing around this time of the morning, RNE may be heard regularly on Sunday mornings, 6 to 7 and 10 to 11 a. m.

The 25-meter band is best in the early afternoon with GSD, Daventry, England (11.75 mag.), the star performer. The 31-meter band is fair in the afternoons with PRF5, Kin de Janeiro (93.00 mag.) reliable from 5.30 to 6.15 p. m.
GSB, Daventry, England (95.10 mag.), is best in the middle of the afternoon. EAO, Madrid, Spain, the old reliable, is loudest at the beginning of their 5:15-7 p. m. schoolule.

schodule.

The 49-meter hand has improved de-(Continued on Page 27)



SIR JOSIAH STAMP

The former British cabinet member, now director of the Bank of England, is an international authority an economics. He will be heard Friday, December 7, at 5 p. m. EST on short-wave and via an NBC-WEAF network, as speaker on the Causes of War exchange program

Short Wave Timetable

	3110	ori vva	ve limerable
	Me- Sta- lers Mees tion	Location	Schedule (Eastern Standard Time)
	13.93 21.33 W8XK 13.97 21.47 GSH	Pittsburgh, Pa.	6 A.M. to 2 P.M.
	16.86 17.79 GSG	Figland England	Bloke 6 to 8:30 A.M. Bloks 6 to 8:30 A.M.; 8:45 to 10:45 A.M.
	16.87 17.78 W3XAL 19.36 15.34 W2XAD	Benvil Brook, N. J. Schenettaly, N. Y.	9 A.M. to 3 P.M. Bads 3 to 3 P.M.
	18.39 21.79 GSH 16.36 17.79 GSG 36.87 17.76 W3XAL 19.56 15.37 W2XAD 19.67 15.25 W1XAL 19.68 15.27 W2XE 19.72 15.21 W8XK 19.73 15.70 DJB 10.89 15.32 CGE	Warne, N. J. Boston, Mana.	H. A.M. on I.I. Nison
	19.68 15.24 PONTDISE	France Pa	10 50 A M. to 1 30 P.M. Sunday only, 7 30 to 11 A M. 10 A M. to 4 15 P.M.
	19.73 15.70 DJB	Pittsturch, Pa. Germany	C. 28 注1: 20 20 20 20 20 20 20 20 20 20 20 20 20
	19.84 15.12 HVJ	Vancas City	E A.M. to M. 45 P.M. Data 5 to 5 15 A.M.; Saturday, 10 to 10 30 A.M.
	19,95 13 00 R.K.I 21,93 13 6E HASZ	Moscow, U. S. S. R.	Southy Morning Saturday recognize 7 to 9 A.M. avegular Southy 7.30 to 9 A.M.
	23:30 12:23 HABAT	Mirrocco Pertocal	Smiles 7 30 to 9 A.M.
	25.00 12.00 RNE	Mecrew, U. S. S. N.	7 to 9 A.M. Sunday 4 to 6 P.M. Thursday 6 to 7 A.M. 10 to 11 a.m. Sunday 11 to A.M. to 6 P.M. 11 to A.M. to 2 15 P.M.; 4 to 6 P.M.
		A E CHANGE	1) 15 A.M. to 2:15 P.M.; 4 to 6 P.M.
	25.27 E7 WEXK 25.28 11.66 GSE 25.36 11.83 WZXE		
		Washe, N. J.	9-15 to 10-45 A.M. 2 to 4 P.M. 11-3C A. 31 to 12-30 P. 30, and 1-15 to 6 P. 34, 12-30 to 10-45 P.M. 12-15 to 5-45 P.M.
	25.51 11.76 DJD 35.53 11.75 GSD 25.57 11.72 PHIHUSZE: 25.63 11.70 PONTOISE	Italy Genuany England	2 30 to 10 45 P.M.
	25.57 11.72 PHIHUSZE	The state of the s	12 15 m 5-45 P.M. E 30 m 12 30 A 1 except Tar-lar and Wednesday 3 m E P. M. 6 15 to 9-15 P. M.; 10 P. M. to 12 mid. 7 45 to 4-15 P.M. Body 5 15 to 7 P.M.; Saturday, 1 to 3 P.M. 2 I.M. in 2 A.M.
	29.04 10.33 ORK	Belgium	7 45 to 4-15 P.M.
	30.43 9.86 EAQ 31.25 9.66 ETTAA	Spain Mexico	Noils 5 IS to 7 P.M.; Saturday, 1 to 3 P.M. 2 I.M. is 2 A.M.
	31.25 9.66 CTÍAA 31.25 9.60 XETE	Prance Belsiam Spain Messen Protugal Sustantiand Philipping, Pa. Australia	2 f. M. in 2 k.M. Theoday, Friday, 2 20 to 6 P.3t, Satustians, 5-50 to 6 15 P.3t.
	31.27 9.59 HBL 31.28 9.59 WEXAU 31.28 9.59 VKZME	Philodelphia, Pa.	11 W.M. De J P.St
			Essertage 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30
	31.30 9.58 GSC 31.31 9.58 VK3LR 31.36 9.57 W1XAZ 31.38 9.56 DJA	England Autralia	C to 8 pt M. 3 15 to 7 37 A.M. dolle except Sunday
	31.36 957 WTXAZ	Beston, Mart.	E & M. in 12 Malmala
	31.48 9.53 WZXAF	Schroeetady, N. Y.	\$.15 to 5.15 P.W. 6.35 to 10 P.W. Warlonday, 5 to 6.30 A. M.; Saturday, 5 to 7 A. M.
	31.55 9.51 VK3ME 31.55 9.51 GSB	England	1 m 2 m F.M.
	37.07 9.17 MPSARH	Braril Colordia	7 30 to 5 35 P.M. strept Smiles 7 30 to 9 30 P.M.; 11 to 12 Middight
	36.65 8 19 PSK 37.33 E.03 CNR	Brani Maturca	T to T 30 P.M.
	38.07 7.88 JTAA	Japan	5 30 to 5 35 P.M. recept Souday 7 30 to 5 30 P.M.; 11 to 12 Midnight 7 to 7 30 P.M. 8 unday 2 Et to 5 P.M. 6 50 to 7 50 A.M. 5 arrived by 12 Midnight
	40.55 7.40 HJBABD	Saleperland Colombia	7 3C to 12 Minimist
	41.55 7.22 HIKE 41.80 7.18 CR6AA	Columbia Africa	7 3C vs. 12 Minharehi Morelon & to 7 P.M.; Tursday, Friday, 5 to 9 P.M. 2 20 to 4 30 P.M.
	42,00 T.14 HJ4ABB	Colonitia Colonitea	B to 10 P.M.
	44.44 6.75 JVT	Japan	Merelsy 10 to 11 P.M.; Wednesday S to 10 P.M.; Sun- day 9 to 11 A.M. 4 to 7 A.M.
	44.71 6.71 THEF	Cents Ries	J to 10 P.M. evertt Sentay
	45.00 E.66 HEZRL 45.38 G.61 REN	Mescay, U. S. S. R.	Sunday 5 45 to 8 P.M.; Turnday 9:15 to 11:15 P.M. 4 to 5 P.M.; Mon., Work, Feb. and Saturday Thursday 9 to 11 P.M.
		Ecualer Colombia	7 to 10 P.M.
	45.60 6.44 HJTABB 46.69 6.42 W3XL	Colombia Burel Breek, N. J.	6 to 10 P.M. Bleek for experimental NBC breadcasts
	47.50 6.31 HTZ	Dominican Republic	4:40 to 5:40 P.M.; Saturday 9:40 to 11:40 P.M.; Sun- day 11:40 A.M. to 1:40 P.M.; 7:00 to 5:40 P.M. except Sunday
	47,80 6.25 H11A 47,84 6.27 H11A	Deminican Republic Dominican Republic	7 00 in S:40 P.M. except Sunday 11:40 A.M. to 1:40 P.M. and 7:40 to 9:40 P.M.
	48.00 6.25 HJ3ABF 48.62 6.37 HJ3ABF	Colombia Colombia	7 to 11 P.M.
	48.62 6.17 HJSABF 48.78 6.15 YV3RC	Yenerala Yenerala	5 to 9.30 f.M.
ı	48,78 6,15 HJZABA 48,36 6,14 WEXK	Colombia Pittshurgh, Pa.	6 to 5 P.M. Teesday, Thursday and Saturday 4.30 P.M. to 1 A.M.
ı	49.02 6.12 JB 49.02 6.12 JB 49.02 6.12 W2XE 49.02 6.12 VDA	Malaca Store	Fuely 8 to 10 A.M. 4 to 10 30 A.M. and 11 A.M. to 3.20 P.M.
۱	49.02 E12 W2XE	Wasne, N. J.	5 to IC P.M. 5 50 a. 31 37 A M
ı	4948 6.11 YV2RC	Yeneouela	\$ 15 to 10 P. AL.
	49.02 C.12 VDA 49.08 6.11 VV2RC 49.08 6.11 XEBT 49.10 6.11 VE94X	Bullian, N. S.	7 to 11 P.M. except Sunday 7 to 11 P.M. except Sunday 5 to 9.20 P.M. Toroday, Thursday and Saturday 4.30 P.M. to 1 A.M. Dudy 8 to 10 A.M. 4 to 6 A.M. 8 to 10 30 A.M. and 11 A.M. to 3.30 P.M. 5 to 10 P.M. 5 30 to 15 R. A.M. 5 15 to 10 P.M. 7 P.M. to 2 A.M. 8 30 to 11 30 A.M. and 5 to 10 P.M. 5 30 A.M. to 12 noon and faturday 11 45 P.M. to 3 A.M. 5 30 A.M. to 12 noon and faturday 11 45 P.M. to 3 A.M.
ı	49,10 6.11 VUC	Inde	5 32 A.M. in 12 men and fatorday 11.45 P.M. to 5 A.M.
	49.18 6.10 W3XAL 49.18 6.10 W9XF	Bound Breck, N. J. Chirages, BL	Ture, Thurs, Fri. and Suretry 2 30 P.M. to 12 Mid. 3 30 to 7 30 P.M. and 8 30 P.M. to 1 20 A.M.
	49.20 6.09 HJYABD	Celomité	11 SC 4 M to 17 30 P.M. and 7 to 5 7 M. to 12 Mid.
	49.22 6.09 VE9GW	Bewerserille, Can.	There, There, Fri, and Sunday 2.30 P.M. to 12 Mid, 3.30 to 7.30 P.M. and 8.30 P.M. to 1.30 A.M.; There, There, Fri, and Sunday 2.30 P.M. to 12 Mid, 11:30 A.M. to 12.30 P.M. and 7.10 S.P.M. Thereday, Friday and Saturday 7.4 M. to 5.P.M.; Sunday 10.4 M. to 7.P.M.; Sunday 10.4 M. to 7.P.M.;
	49.34 ECS WSXAA	Chirago, III,	Ters, Thurk and Saturday 3 to 11 PM.
	49.40 607 DXY	Denovirk	7 to 10 30 P.M. 2 to 6 50 P.M.
ı	49.40 E.C7 XEUT 49.41 E.D7 OERZ	Austria	7 P.M. in F.A.M. 9 in 5 P.M.
	49.42 6.67 YVSRMO	Venezuria Vancaurer, B. C.	day 10 A.M. to 7 P.M. 7 core., Thorse and Saturday 3 to 11 P.M. 2 to 10 30 P.M. 2 to 6 50 P.M. 7 P.M. to 1 A.M. 9 to 5 P.M. 5 15 to 9 30 P.M. Friday, 12 30 to 1 45 A.M.; Sunday, 12 Noon to 12 Michigan C. S.
	49.50 E.DE HEX	Deministra Street/Fe	Turnley and Today F. 10 or 10 10 F. M. Sanday S. S.
ı		BEALERAL BY	Turniby and Friday E.10 to 10.10 F.M.; Surday 8.40 to 10.40 A.M. and 2.40 to 4.40 F.M.
	4950 EDS WEXAL	Cincienza, Ohie	7 1+ 10 P.M. 6 30 to 7 P.M.; 10 P.M. to 2 A.M. 13 A.M. to 2 P.M. 6 to 5 P.M. 8 to 10 P.M. 6 30 to 10 P.M. everyt Surphy 6 to 7 P.M. 8 10 to 15 10 P.M. Everyt Surphy 6 to 7 P.M. 8 10 to 15 10 P.M. Turnday and Friday 5 30 to 15 40 P.M.
	49.50 605 GSA 49.50 605 GSA 49.60 605 HJ3A81	England	6 to 5 P.M.
	49.60 ECS HJ3A81 49.65 6.04 HJ1ABG	Culombia Culombia	6 30 to 10 P.M. energy Sunday
	49.67 6.04 WIXAL 49.80 E.02 HIX	Boston, Mars, Donners Benchie	8 10 to 17 10 P.M. Turning and Profes
	49.83 6.02 HIX 49.83 6.02 DJC 49.83 6.02 CQH	Genorey Storae Cohe	5.30 to 10.45 P.N.
	- arown Kert Coe.		\$ 30 to 10-65 P.N. 7 to 9 A.M. Shinday, Wednesday and Friday 4 to 6 P.M.
	49.96 6.01 VESON 50.00 6.00 EAJZ	Arminionaville, Can-	3.30 m 4.30 P.M.
	\$0.00 6.00 RVS9 \$0.02 6.00 VV4RC	Emsta Venezuela	2 to 6 P.M. 4 30 to 10 P.M.
	\$0.25 \$ 97 HJZABC \$0.26 3.51 HVJ	Colombia Vaticus City, Italy	Tr. 2.15 P.M., Sunday, 5 to 5.30 A.M.
	50.42 5.55 HJ4ABE	Cotombia	2 to 6 P.M. 4 30 to 10 P.M. 11 A.M. to 12 Noon and 6 to 9 P.M. 2 to 2 15 P.M. a binder, 5 to 5 30 A.M. Monder 7 to 11 P.M.; Tuesday, Thoroday and Saturday 6 30 P.M.; Wed, and Friday 7:20 to 10:30 P.M.

(Continued from Page 17)

cideally and GSA. Daventry, England (6.05 meg.) is excellent on its 6-7 p. m. airing. Listen for Big Ben at 6 p. m. DJC, Zeesen, Germany, may often be heard as late as 10 p. m. They are on 6:02 meg. Germany is inaugurating a new series of experimental transmitters.

These are:

DIM, 6079 meg.; DJN, 9.54 meg.; DJO, 11.705 meg.; DJP, 11.855 meg.; DJO, 15.28 meg. and DJR, 15.34 meg. DJN may be heard nightly now from 9.15 to 11.30 p. m. in conjunction with DJC.

Try for These

NEW STATIONS for which you will want to try and which come in well are COUL Vellado, Havant, Cuba, on 9.46 meg, with a muchty entertxining Caban bill of fare from 6 to 7 p. m. and 9 to 10 p. m. There is also OAX4AD. Linia, Peru ("RADIO DUSA"), on 5.77 meg, Wednesday and Saturday nights from 9 to 11:30 p. m.

THE OUTSTANDING STATION to try for now is 2RO, Rome, with their new 30.000-watt voice. 2RO uses their 48.70 meters of 500 meg. frequency for a series of special brondcasts to the United States. This important series id broadcasts take place on Monday, Wednesday, and Friday nights from 6.30 to 8 p. m. Transmission opens with our National Anthens and Govinezza, the Fascist song. Not only are some of the great "Arias from the State Opera being broadcast but also addresses by such speakers as Gabriele D'Ansanzie, S.E., the president of the Italian Chamber of Deputates, and former radio maniver Ginno, the Prince Potenciani, the writer Imag. Pirandello, etc., Rome is also carrying out tests to the U. S. on 30.67 meters.

The S. W. Calendar

MONDAY NIGITT, December 3, DJC and DJN, both at Zeesen, Germany, on 40.83 meters and 31.45 meters respectively will broadcast a special program to the short wave listeners of North America from 9:15 to 10.40 p. m. This program was especially arranged by the International Diers Alliance.

Short wave broadcasts schoduled during the week for rebroadcasts over the NBC and CBS networks are four in number. On Monday, December 3, at 8:45 p. m., another program comes from the Schooner Setb Parker over an NBC-WJZ network or direct from KNRA, the ship's transmitter, on 48.70, 31.22 or 24.30 meters. Weshiesday, December 5, at 10 p. m. will be heard another of the CBS-WABC two-way programs from Little America, KFZ, the Little America base station, is easily heard direct and frequently tests Mondays, Tuesdays and Wednesdays between 7 and 10 p. m.

On Thursday, December 6, from 4:30 to 5 p. m., the NBC-WJZ network will originate from Chicago and Washington, D. C., a program commensurating the seventeenth amirersary of independence of Finland. The usual NBC transmitters will short wave the program to Finland where it will be rebroadcast. Among those to

Finland. The usual NBC transmitters will short wave the program to Finland where it will be rebroadcast. Among those to be heard are Leonard Astron, Finnish minister to the United States: Wilbon Carr. assistant secretary of state of the United States: E. A. Forsberg, Finnish consul in Chicago, and the Chicago Sibelius Chour.

On Friday, December 7, at 5 p. m., Sir Josish Stamp, director of the Bank of England, and former British cabinet member, will speak from London in another of the exchange programs in the International Causes of War series. An NBCWEAF network will carry the address which will be transmitted to America by GSD, 25.53 nucleus, and GSB, 31.55 meters.

Tuning Tips

MANY SHORT WAVE LISTFNERS have been enjoying the flue symphony concerts which have been bioadcast by

the French stations at Postoire. Tune in these splendid programs on Sundays around 12 noon. The concerts have featured both the Paris Conservatory and the Paris Symphony orchestra.

The attempts of English crooners to sing American cowley songs have fur-nished many a good laugh to those who follow the programs of the English stations at Daventry.

COC. HAVANA, CEBA, is stepping out these evenings. Located at 6.01 mega-cycles, it is comparatively free of interference and has been heard in Europe, New Jealand and South Africa. This station is a great favorite among American listeners because of its frequent announcements in English.

TIEP, San Jose, Costo Rhen, has been received usely great volume during the past from weeks. As yet its schedule is not definite but it has been beard almost every night recently between 8 and 11 o'clock. You'll find TIEP at 671 meg.

SOUTH AMERICAN stations are providing plenty of entertainment. One that is being received regularly and with good volume is 113ABD at Bogota, Colombia, It is located at 7.40 meg, and offers some aplendid programs for those who like the tango type of music.

STATION CTIAA, Linbon, Pertugal, has moved up the dial a few degrees. Look for it at 9.66 meg., instead of 9.60 as formerly. Programs from CTIAA are identified by frequent groups of three cuckon calls.

ALTHOLGH A COMMUNICATION from Rome save that its brisadcasts to America are being transmitted on a frequency of 975 meg, many listeners have found that be dropping down to \$10 meg, these programs have been heard more clearly. Evidently 12RO is transmitting on two frequencies.





(32 issues) 1 Yearly Subscription \$2.00 – 3 Subscriptions \$5.00.
Send RADIO GUIDE for one year (52 issues) to the following persons. Also, announce my gift to them with your special CHRISTMAS GIFT CARD.
Name,
Address
Name
Name
I am enclosing remittance for \$
City

Time Shown Is Eastern Standard

ustralia, Calumhia and Switzerland are on the list for special broad-casts during the week of December

8-15.

First, a 24-hour program, starting the night of Friday, December 7, at 12 midnight and continuing to next night at midnight, will observe the fifth anniversary of HJIABB. The Voice of Barranquilla," at Barranquilla, Colombia, The frequency of the station is 6-44 megacycles and it is usually heard with fair readability and fair to strong volume.

The second to be turned will be that from VK2ME, Sydney, Anstralia (9,59 meg.) on Sunday morning, December 9, from 2:15 to 3 a. m. The broadcast is one which has been prepared especially for the Canadian provinces.

adian provinces.

The third, and perhaps the principal gued-will short wave brandcast of the season will be "beamed" on North America direct from the Secretariat of the League of Nations, at Lucerne, Switzerland, on Saturday afternoon, December 15, at 5:30 p. m. The program will be radiated by HBL (9.595 meg.) and HBP (7.80 meg.) and was arranged by the foreign affairs division of the International Divers Alligue. The third, at

STATION WIXAL, of Boston, Massachusetts (6.040 meg.) is engaged in a new project. The entire facilities of the transmitter, with a power of 5,000 watts, have been turned over to an educational advising accommittee for the purposes of airling internationally a series of non-commercial educational programs. These are brard Sundays beginning at 7,30 p. m., Tuesdays at 7,30 p. m. and Thursdays at 0,15 p. m. They continue until 9 and 9,30 p. m.

p. m.

The advisory group includes Kirtley F.

Mather and Harlow Shapely of Harvard
University, James Thomson Shotwell of
Columbia, and other noted educators.

High class musical programs interpolate
the lectures.

Reception Review

FOR PERIOD OF November 23-30, as reported by Charles A. Morrison, International Divers Alliance, Bloomington, Ill. The contstanding feature of short wave reception for the period was, of course, the wedding ceremonies of Prince George, Diske of Kent, and Princess Marina, of Greve. In the Midwest the broadcast was only about 60 per cent perfect as received from the Daventry transmitters. The rebroadcast over the networks was about 80 per cent. GSG (16.86 meg.) provided the best transmission.

The music, including the playing of the organ, and the chanting of the choir, was received well. During the actual repeating of the marriage vows the audibility was nearly perfect.

was nearly perfect.

AVERAGE CONDITIONS have preeniled this period. European stations have
been much better in the evening and South
Americans have been below par.

The star performer of the 10-meter
band, DJB, Zeesen, Germany (15.20 meg.),
has been missing since November 24. It
is hoped that the absence is only temporaary as this transmitter has provided some
of the best entertainment to be heard during the early morning hours. DJA (9.56
meg.) is now the only Zeesen station on
the air from 8 to 11:30 a. m.

GSF, Daventry (15.20 meg.) has been
fair to good up to signoil at 9 a. m. Pontoise, France (15.24 meg.) improves steadity and often reaches an excellent signal
level at around 9:30 a. m., remaining auxilble often till signoil time at 11 a. m.

The 25-meter hand is best around 9:30
a. m. and 1 p. m. GSE, Daventry (11.86
meg.) is best at the beginning of its 9:15
a, m. transmission and then slowly tades
away. PHI, Huixen, Holland (11.73 meg.)

(Continued on Page 23)

(Continued on Page 25)

			Sho	ort Wa	ve Timetable
	Mr- ters	Megs.	Sta- tion	Location	Schedule (Eastern Standard Time)
	13,98	21.53 21.47	W8XK GSH	Pitraburgh, Pa. England	6 A.M. to 2 P.M. Daily 6 to 8:30 A.M.; 8:45 to 10:45 A.M. Daily 6 to 8:30 A.M.; 8:45 to 10:45 A.M. Daily 6 to 8:30 A.M.; 8:45 to 10:45 A.M. Daily 2 to 3 P.M. Daily 2 to 3 P.M. Daily 2 to 3 P.M. Sunday cody. T:30 to 11 A.M. D.A.M. to 13:0 P.M. Sunday cody. T:30 to 11 A.M. 6 A.M. to 10:45 P.M. 5 to 11 A.M. 6 A.M. to 10:45 P.M. Sunday 7:30 to 9 A.M.; Saturday, 10 to 10:30 A.M. Sunday 7:30 to 9 A.M. 7 to 9 A.M. Irregular Sunday 7:30 to 9 A.M. 7 to 9 A.M. Sunday, 4 to 6 P.M. Thursday 6 to 7 A.M., 10 to 11 a. m. Sunday 11:15 A.M. to 2:15 P.M.; 4 to 6 P.M. 11:15 A.M. to 2:15 P.M.; 4 to 6 P.M. 11:15 A.M. to 2:15 P.M.; 4 to 6 P.M. 11:30 A.M. to 10:45 P.M. 11:30 A.M. to 10:30 A.M. except Tuesday and Wednesday 3 to 6 P.M. 12:35 to 5:45 P.M. 13:30 to 10:30 A.M. except Tuesday and Wednesday 3 to 6 P.M.; 6:15 to 7 P.M.; 8:atorday, 1 to 3 P.M. 2 P.M. to 2 A.M. Tuesday, Friday, 3:30 to 6 P.M. Sundays 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30 A.M. to 7 P.M. Sundays 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30 A.M. to 7 P.M. Sundays 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30 A.M. Sundays 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30 A.M. Sundays 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30 A.M. Sundays 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30 A.M. Sundays 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30 A.M. Sundays 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30 A.M. Sundays 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30 A.M. Sundays 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30
	16.86 16.87	17.79	W3XAL	England Bound Brook, N. A.	Daily 6 to 8:30 A.M.; 8:45 to 10:45 A.M. 9 A.M. to 3 P.M.
1	19,56	15.27	WZXE	Wayne, N. J. Rosine, Macc.	10 A.M. to 12 Noon 10 A.M. to 12 Noon
f	19.68	15.24	PONTOISE WEXK	France Pittsburgh, Pa.	7:30 to 11 A.M. 10 A.M. to 4:15 P.M.
0	19.73	15.20	GSF GSF	Germany England	8 to 11 A.M. 6 A.M. to 10.45 P.M.
I	19.95	15.00 13.68	R KI HASZ	Moncow, U. S. S. R.	Sunday Moreing Asia, Saturday, 10 to 10:30 A.M. Sunday Moreing Saturday Stregular 7 to 9 A.M. Streeular
=	23.38 24.83	12.83	RABAT	Merocco Pertugal	Smidsy 7:30 to 9 A.M. 7 to 9 A.M. Seeday, 4 to 6 P.M. Thursday
4	25,20	11,90	PONTOISE	Minienw, U. S. S. R. France	6 to 7 A.M., 10 to 11 a. m. Sanday 11:15 A.M. to 6 P.M. 11:15 A.M. to 5.215 P.M 4 to 6 P.M.
1	25.27 25.28	11.86	WEXK	Pitesburgh, Pa. Kugiand	4:30 to 10 P.M. 9:15 to 10:45 A.M.
9	25.40 25.40	11.83	WZXE 12RO	Wayne, N. J.	2 to 6 P.M. 11:30 A. M. to 12:30 P. M. and 1:15 to 6 P. M.
1	25.53 25.53	11.75	GSO PHIMUIZES	England (Holland	12.15 to 5:45 P.M. 8:30 to 10:30 A.M. except Tuesday and Wednesday
i	25.63 29.04	11.70	PONTOUSE	France Belgium	3 to 6 P. M.; 6:15 to 9:15 P. M.; 10 P. M. to 12 Mid. 2:45 to 4:15 P.M.
E I	30.43	9.86	CTTAA	Spain Mexico Partical	Drily 3:15 to 7 F.M.; Saturday, 1 to 3 P.M. 2 P.M. to 2 A.M. 7 Pender to 2 A.M.
e n	31.27 31.28	9.59	HBL	Suitzerland Philaslelphia, Pa.	Saturdays, 5:30 to 6:15 P.M. 11 A.M. to 7 P.M.
9	31.28	9.59	VKZME	Amtralia	Sundays 1 to 3 A.M.; 4:30 to 8:30 A.M.; 9 to 11:30
5	13	9.58 9.58	VK3LR W1VA7	Australia Buston, Mass.	5 15 to 7:30 A.M. daily except Sunday
-	31,38	9.56 9.53	DJA WZXAF	Germany Schenectady, N. Y.	5.15 to 9:15 P.M. 6.35 to 10 P.M.
	31.55 31.55	9.51	CSB GSB	Australia England	Wednesday, 5 to 6:30 A. M.; Saturday, 5 to 7 A. M. 1 to 5:05 P.M.
2	31.61 31.61 12.62	9.48	VUB HPSABH	India Calembia	7.30 to 10:30 A.M. 7.30 to 9:30 P.M.: 11 to 12 Midwight
e com	36.65 37.33	8.19	PSK CNR	Brazil Morocce	7 to 7:30 P.M. Sonday 2:30 to 5 P.M.
-	38.07	7.88	HBP	Japan Switzerland	4:50 to 7:50 A.M. 5 to 5 P.M. 7.30 to 5 to 6 to P.M. 7.30 to 5 to 6 to 6 to 7.30 to 6 to 6 to 7.30 to 6 to 7.30 to 6 to 7.30 t
t	41.35 41.30	7.22 7.18	HKE CR6AA	Colombia Africa	Moseley, 6 to 7 P.M.; Tursday, Friday, 8 to 9 P.M. 2:30 to 4:30 P.M.
6	42.00 42.85	7.14	HJ4ABB HJ1ABE	Colombia Colombia	6 to 8 P.M. 6 to 8 P.M. 6 to 7:30 A.M. daily except Sunday 6 A.M. to 12 Midnight 5:55 to 9:15 P.M. 6:35 to 10 P.M. 6:35 to 10 P.M. 6:35 to 10 P.M. 1 to 5:45 P.M. 6:35 to 10:30 A.M.; Saturday, 5 to 7 A. M. 1 to 5:45 P.M. 7:30 to 6:15 P.M. except Sunday 8:30 to 10:30 A.M. 7:30 to 9:30 P.M.; 11 to 12 Midnight 7 to 7:30 P.M. 5:0:45 P.M. 6:0:45 P.M. 6:0:45 P.M. 6:0:45 P.M. 6:0:45 P.M. 7:30 to 12 Midnight Misseley, 6 to 7 P.M.; Tursday, Friday, 8 to 9 P.M. 7:30 to 12 Midnight Misseley, 6 to 7 P.M.; Tursday, Friday, 8 to 9 P.M. 7:30 to 12 Midnight Misseley, 6 to 7 P.M.; Weilnesday 8 to 10 P.M.; Sunday 7:30 to 14 A.M.
	44,44	6.75	JVT	Japan Custa Rica	tlav 9 to 11 A.M. 4 to 7 A.M. 7 to 10 P.M. except Sunday Sunday 5.45 to 8 P.M.; Turvday 9:15 to 11:15 P.M. 4 to 5 P.M., Mon., Wed., Fri. and Saturday Thursday 9 to 11 P.M. 7 to 10 P.M. 6 to 10 P.M.
f	45,00	6.66	HEZRL REN	Ecuation Museuw, U. S. S. R.	Sanday 5:45 to 8 P.M.; Tuesday 9:15 to 11:15 P.M. 4 to 5 P.M., Mon., Well., Fri. and Saturday
c	46.30	6.67	PRAGO HJSABO HJSABB	Ecuador Colombia Colombia	Third day 9 to 11 P.M. 6 to 10 P.M. 6 to 10 P.M.
	46.69	6.42	W3XL HIZ	Hound Brook, N. J. Durainican Republic	5 to 10 F.M. Used for experimental NBC broadcasts 4:40 to 5:40 P.M.; Saturday 9:40 to 11:40 P.M.; Sun the 11:40 A.M. to 1:40 P.M.
3	46.0 (200)	Ph: 470	HILLA	Thingspecta prebange	7779 III 7179 A SAL EXCEPT DITEURY
	48.00	6.17	HIJABF HJJABF	Colombia Colombia	7 to 11 P.M. 7 to 11 P.M. except Sanday
0	45.7E 45.7E	6.15	YV3RC HJZABA WEXK	Vesezuela Colombio	11:40 A.M. is 1:40 P.M. and 7:40 to 9:40 P.M. 7 to 11 P.M. 7 to 11 P.M. 7 to 11 P.M. 7 to 11 P.M. 6 to 9:30 P.M. 6 to 9:30 P.M. 6 to 9 P.M. Torodoy, Thursday and Saturday 6:30 P.M. to 1 A.M. Daily 8 to 10 A.M. 4 to 6 A.M.; 8 to 10:30 A.M. and 11 A.M. to 3:30 P.M. 6:30 to 11:30 A.M. 6:30 to 11:30 A.M. 5:15 to 10 P.M. 7 P.M. to 2 A.M. 8:00 to 11:30 A.M. and 5 to 10 P.M. 8:30 A.M. to 12 noon and Saturday 11:45 P.M. to 9:30 A.M. to 12 noon and Saturday 11:45 P.M. to
f	48.86	6.14	ZGE	Milaya States Africa	9.36 F.M. to 1 A.M. 6 to 6 A.M. 8 to 10 00 A.M. and 11 A.M. to 3-30 P.M.
1 27.0	49.02	6.12	ZGE JB W2XE YOA	Wayne, N. J.	5 to 10 P.M. 6:30 to 11:30 A.M.
t	49.08	6.11	YVZRC XEST	Venezuela Musico	5:15 to 10 P. M. 7 P.M. to 2 A.M. 8:30 to 13:30 A.M.
e	49.10	6.11	ARAHX	Itelias, N. S.	9:30 A.M. to 12 mon and Saturday 11:45 P.M. to 3 A.M.
9	49.38 49.18	6.10	W3XAL W9XF	Chicago, III.	Thera, Thoras, Fri. and Sunday 2:30 P.M. to 12 Mid. 3:30 to 7:30 P.M. and 8:30 P.M. to 1:30 A.M.; Tues,
F	49.20	6.09	HJIABD VE9GW	Colombia Bowmanville, Can,	3 A.M Tures, Thurs, Fri. and Sunday 2:30 P.M. to 12 Mid. 3:30 to 7:30 P.M. and 8:30 P.M. to 1:30 A.M.; Tures, Thurs, Fri. and Sunday 2:30 P.M. to 12 Mid. 11:30 A.M. to 12:30 P.M. and 7 to 9 P.M. Thursday, Friday and Scherday 7 A.M. to 4 P.M.; Sunday 10 A.M. to 7 P.M. Tures, Thurs, and Saturday 3 to 11 P.M. 7 to 10:30 P.M. 2 to 6:30 P.M. 7 P.M. to 3 A.M. 9 to 5 P.M. 5:15 to 9:30 P.M. Friday, 12:30 to 1:45 A.M.; Senday, 12 Noon to 12 Midnight
-	49.34	6.08	W9XAA	Chicago, III.	day 10 A.M. to 7 P.M. Tues., Thurs. and Saturday 3 to 11 P.M.
e	49,40	6.07	OXY XEUT	Dermark Mexico	2 to 6:30 P.M. 7 P.M. to 3 A.M.
r	49,42	6.07	XEUT OER2 YVSRMO	Amstria Venezuela	9 to 5 P.M. 5:15 to 9:30 P.M.
1	49.42	6.07	VESCS	Cancellver, B. C.	Friday, 12:30 to 1:45 A.M.; Soulay, 12 Noon to 12 Midnight Turnday and Friday 8:10 to 10:10 P.M.; Sunday 8:40 to
	49.50	6.06	WEXAU	Phitodelphia, Pa.	7 to 10 P.M. and 2:40 to 4:40 P.M.
6	49.50	6.06	W8XAL V07LO	Cincinnati, Ohio Kensa Colony	5:30 to 2 P.M.; 10 P.M. to 2 A.M. 11 A.M. to 2 P.M.
1	49,60	6.04	HJIABG HJIABG	Culembia Colombia	7 to 16 P.M. 6:30 to 7 P.M.; 30 P.M. to 2 A.M. 11 A.M. to 2 P.M. 8 to 10 P.M.
100	49.67	6.04	WIXAL HEX OJC	Boston, Mass. Dominican Republic	6 to 7 P.M. 8:10 to 10:10 P.M. Tuesday and Friday
	49.83	6.02	CON	Germany Macso Cuha	5:30 to 10:45 P.M. 7 to 9 A.M. Monday, Wednesday and Friday 4 to 6 P.M.
Q	49.96 50.00	6.01	VE90N EAJZ	Drummondville, Can. Spain	3:30 to 4:30 P.M. to 2 A.M. 2 to 6 P.M.
5	30.02	60.440	RVS9 YV4RC	Homia Venezuela	2 to 6 P.M. 4-30 to 10 P.M.
)	50.25 50.26 50.42	5.97	HJZABC HVJ HJ4ABE	Vatican City, Italy Colombia	2 to 0 P.M. 4:30 to 10 P.M. 11 A.M. to 12 Noon and 6 to 9 P.M. 2 to 2:15 P.M.; Sanday, 5 to 5:30 A.M. Mosslay 7 to 11 P.M.; Trevolay, Thursday and Saturday 6:30 P.M.; Wed, and Friday 7:30 to 10:30 P.M.
	20.46	2.23	100000		6:30 P.M.; Wed. and Friday 7:30 to 10:30 P.M.

(Continued from Page 21)

has been good two or perhaps three mornings of this period at about the same time as GSI: Pontoise (11.88 meg.) has been fair on its 11:15 a. m. to 2:15 p. m. schedule. GSD. Daventry (11:75 meg.) is heard now only from about 1 to 2 p. m.

now only from about 1 to 2 p. m. leastern dxers report "ease" in picking up Japan on 10.74 meg. (JVM at Nazaki,

relay of JOAK).

On the 31-meter band there has been very poor reception. Only GSB, Daventry (9.51 meg.) and PR15, Rio de Janeiro, are worthy of mention. However, PR1-5 has been coming through with good audibility and distinctness.

The 49-meter band is full of good things. GSA. Daventry (0.115 meg.) is good from the first stroke of Big Ben at 6 p, m, to the signoff singing of God Save the King at 8 p, m, DJC, Zeesen, Germany (0.02 meg.) has been extraordinarily good at times. Peak reception of DJC is around 8 p, m, and signals usually fade away before the signoff Best of the South Americans have been COC, Havana (0.01 meg.), 111-12. San Jose, Costa Rica (0.71 meg.), 111-13. Ba. Barranquilla, Colombia (6.44 meg.), V3RC, Caracas, Venezuela (6.15 meg.) and OAN4D, Lima, Peru (5.78 meg.)

Tuning Tips

INUSUAL WAS the station that made its appearance at the Ranio Guine Listening Post at Bloomington, Illinois, on the morning of Wednesday, November 28, at 0.07 a.m. on about 16.21 meg. A peculiar three-tone whistle, was sounded over and over and then a guttural French voice began to call "Allo-allo-allo," mentioning "Paree" several times. We feel reasonably sure that this was the Commercial Telephone station at Saigon, French Indo-China testing with Paris, These stations have been unusually active of late, and are now preparing to transmit a telephone stauit beamed on North America.

KNRA, the good ship SETH PARK-ER, somewhere in the Southern Pacific waters, was heard with a poor signal Monday night, November 26, on a tated frequency of 8.840 meg. SOMETHING DIFFERENT may often be heard if you turn to 5.61 meg, around 8:15 p. m. This is the channel occupied by CFU, the mining camp station of the Consolidated Mining and Smelting Co., of Rossland, British Columbia. It will be in communication no doubt with another of their mining camps possibly CFN, located near the Arctic Circle. CFN can sometimes be heard replying by shifting your dial to a slightly lower frequency.

Brazilian Data

COMPANIIIA RADIO DI: BRASIL give some enlightening information. They state that their commercial transmitting station is located at Marapicii, Brazil, in the heart of the Brazilian jungles less than

60 miles from Rio de Janeiro.

Each evening except Sunday they take the air at 5.30 p.m. with a news bulletin furnished by the Programa Nacional. This transmission is in Portuguese from 5.30 to 6 p.m., and in English, French, Spanish and German from 6 to 6.15 p.m. During this news period the familiar call PRF5

("F as in I riday") is used.

The transmitters at Maripica however, are used most of the time for commercial telephone service with New York, Buenos Aires, and Madrid employing the following calls and frequencies: PSA, 21.08 meg. or 14.23 meters, telephone to New York; PSF 14.60 meg. or 20.4 meters, telephone to Buenos Aires and Madrid; PSA, 14935 Aires and Madrid; PSII, 10.22 meg. or 29.35 meters, telephone to Madrid; PSK, 8.185 meg, or 30.05 meters, telephone and special program to Buenos Aires (It will be remembered that this last transmitter, PSK, was used until recently for a regular evening broadcast using the call letters PRA3, which were the call letters of a medium wave Riu de Janeiro station which was being relayed.)

> "Give, Boy, Give!"

Time Shown Is Eastern Standard

soming broadcasts to more on your calendar: The new short wave station HJN, in Bogota, Colombia meters/6059 kc/6059 mcg) will

station 143N, in Bogota, Colombia 149.35 meters / 6169 ke 636.9 meg.) will dedicate a special program to the International December 21, from 1 to 3 a.m. EST, Outstanding features to be heard soon from DIC. Zeesen (6.02 meg.) include: December 16, 7 ht p. m., concerts from German masters. December 18, 7:15 p. m., preview of film "Love and the Railroad"; December 19, 8:30 p. m., brass wind music of all peoples, played by National Aviation Sports Orchestra, December 20, 7:30 p. m., "Christman Night on Hallig Isle"; December 21, 8:30 p. m., "Advent Belli Are Ringing," by German Chotal Society: December 22, 7:30 p. m., "An Advent Evening in Black Forest" and at 8:30 p. m., and the music by the famous White Ravens. Three impending programs from the fairly dependable Spaniard, EAQ (9.86 meg) are: December 15, 7 to 7:30 p. m., musical program, "The Party and After"; December 22, 7-7:30 p. m., musical program, "The Party and After"; December 22, 7-7:30 p. m., musical program, "The Party and After"; December 22, 7-7:30 p. m., Hawaiian musicale.

Byrd Thrills

Byrd Thrills

MOST DRAMATIC these nights are the broadcasts marking the closing pages of the Byrd Expedition's great adventure. In less than a month the pack ice will be breaking at Little America, Antarctica, and this will mean a hurried exodus for the dauntless Admiral and his party.

On the last transmission we heard the Penguins do a bat over a portable microphone set up on the ice in front of the Bay of Wholes. A few uninvited seals horned in to add an extra thrill to this extraordinary aural picture.

Divers may pick up the Byral hroadcasts over LSN, Buenos Aliess (10.15 mrg.), through WEI, (8.55 mrg) or WEE (9.30 mrg.) each Wednesday night from the time the stations begin testing (around 9 p. m.) until they sign off at around 10.43 p. m. Plenty of plums and cream for the grape outs are deserved for these thrilling broadcasts.

Reception Review

OR PERIOD of November 30-December 7, as reputed by Charles A. Morrison, International Dx'ers Alliance:

Probably the most enjoyable broadcast for many a moon was received on Monday, December 3, from 8 to 8:30 p. m. from Havana's popular station COC (6:01 meg). At the time, COC was engaged in transmitting a special program to WMBC, Detroit, Michigan, for rebroadcast on the regular band. To my mind, the magnetic

Father Coughlin's Broadcasts

Stations carrying Father Coughlin's broadcast outlets are listed below. His talks go on the air at 4 p. m. EST, 3 p. m. CST, and 2 p. m. MST, every Sunday.

Shrine of the Little Flawer Network

WLW, Clacionati, O. WORO, Albany, N.Y. WCAU, Philadephia WPHL, Syraeson, N. WGR, Belfalo, N. Y. W. WGI, Washron, D.C. WUR, New York City WHO, Dea Moines, L. WGAR, Cleveland, O. KWK, St. Louis, No. WJR, Detroet, Mich. WCAO, Baltimore, M. WIIR, K. C., Me. KSTP, St. Paul, Min. WJJD. Chécago, El. WJAS, Put-Ségh, Pa. WOW, Omtha, Nobe.

The Vanker Network

WNAC, Boston, Mass. WHAS, Springfield, WEBC, Hartford, Cl. Mass. UFAN, Provides, R.L. WFEA, Manch't's, SH WITC, Beidgep'i, Con. WNBM, N. Bedford, WORC, Ware'ser, Mass. Will, Lawell, Mass.

NEWS BROADCASTS

Time Shown Is Eastern Standard

SUNDAY

Press Radio News—

V.N.W.N.C. 8.45 a. m.

C.D. WARE 10:10 a. m.

NBC-WEAF-WJZ 11 a. m.

John B. Kennedy—

NBC-WEAF 7:15 p. m.

Press Radio News—

V.N.W.N.C. 645 p. m.

Alterander Weodicett—

CBS WABC 9 p. m.

Walter Winchelt—

NBC WIZ 9:30 p. m.

Press Radio News—

V.N.-WAAH 9:65 p. m.

NBC WIZ 11:10 p. m.

NBC WIZ 11:10 p. m.

NBC WEAF 11:20 p. m.

NBC WEAF 11:30 p. m.

NBC WEAF 11:30 p. m.

NBC WEAF 11:30 p. m.

V.N. WONC 8 a. m.

V.N. WONC 8 a. m.

V.N. WONC 8 a. m.

V.N. WABC 10 a. m.

NBC WEAF 10 a. m.

NBC WEAF 10 a. m.

V.N. WAAB 7:45 p. m.

V.N. WAAB 7:45 p. m.

V.N. WAAB 7:45 p. m.

Prass Radio Mewa—

CBS WABC 6:53 p. m.

V.N. WAAB 7:45 p. m.

Beake Carber—

CBS WABC 7:45 p. m.

Beake Carber—

CBS WABC 8:15 p. m.

Y.N. WAAB 7:45 p. m.

TUESDAY

Press Radio Mewa—

V.N. WAAC 11 p. m.

TUESDAY

Press Radio News—

V.N. WAAC 15 p. m.

Y.N. WAAC 15 p. m.

V.N. WORC 6 p. m. NEC WEAF WIZ 6:30 p. m. Lawell Thomas— NEW WIZ 6:43 p. m. Press Radio News— CBS-WABC 6:55 p. m. V.S. WAAB 7 p. m.

N.N. WAMB 7 p. m.

Bozke Carter—

CHS WABC 7/45 p. m.

Press Radio Ress—

Y.N.-WAMB 9:45 p. m.

Y.N.-WAMB 11 p. m.

WEDNESDAY

WEDNESDAY

Press Radio NewsV.N.-W.NAC 7:35 a. m.
V.N.-WORC 8 a. m.
CBS-WABC 10 a. m.
NBC-WEAF 10 a. m.
NBC-WEAF 10 a. m.
V.N.-WNAC 1:30 p. m.
V.N.-WNAC 1:30 p. m.
V.N.-WNAC 1:30 p. m.
V.N.-WORC 6 p. on.
NBC-WEAF WIZ 5:30 p. m.
Lowell Thomas—
NBC-WIJZ 5:45 p. m.
Press Radio NewsCBS-WABC 6:35 p. m.
Boahe Carteriae
CBS-WABC 7:45 p. m.
Boahe Carteriae
CBS-WABC 7:45 p. m.
CBS-WABC 7:45 p. m.
CBS-WABC 8:15 p. m.
Press Radio NewsV.N.-WAAS 7 p. m.
Press Radio NewsV.N.-WAAS 7 p. m.

Y.N. WAAB 9-45 p. m. Y.N.-WAAB 11 p. m.

THURSDAY Press Radio News-Y.N. WNAC 7:15 a. m. Y.N. WORC 8 a. m. CHS.WABC 10 a. m. Y.N. WORC 8 a. m.
CESWABC 10 a. m.
NBC WEAF 10 a. m.
NBC WEAF 10 a. m.
Y.N. WNAC 130 p. m.
Y.N. WAAB 2-15 p. m.
Y.N. WORC 6 p. m.
NBC WEAF WIX 6:30 p. m.
NBC WEAF WIX 6:30 p. m.
Press Radio News—
CBS WABC 6:35 p. m.
Y.N. WAAB 7 p. m.
John B. Kennedy—
NBC WEAF 7:15 p. m.

Beake Carter— CBS WART 7:45 p. m. Edwin C, Hill— CBS WABC 8:30 p. m. Press Radio News— Y.N. WAAB 9:45 p. m. Y.N. WAAC 11 p. m.

PRIDAY

Press Radio News—
Y.N. WNAC 7:15 a. m.
Y.N. WNAC 7:15 a. m.
Y.N. WNAC 7:15 a. m.
Y.N. WNAC 1:30 a. m.
NBC WEAF 10 a. m.
NBC WIZ 10:45 a. m.
Y.N. WNAC 1:30 p. m.
Y.N. WAAB 2:45 p. m.
Y.N. WNDC 6 p. m.
NBC WEAF WIZ 6:30 p. m.
M. V. Kabienborn—

NBC WEAF WIZ 6:30 p. M. V. KahrenbernUTS-WARC 6:30 p. m.
Lewell Thomas—
NBC WIZ 6:45 p. m.
Pers Radio News—
CBS WABC 6:35 p. m.
Y.N. WAAB 7 p. m.
Beake Carter—
CHS WABC 7:45 p. m.
CHS WABC 7:45 p. m.
CHS WABC 7:45 p. m.
March of Time—
CHS WABC 9 n. m.
Press Radio News—
Y.K.WAAB 9:45 p. m.
SATURDAY

SATURDAY

SATURDAY

Press Radio Messt—
Y.N. WNAC 7:15 a. m.
Y.N. WAAB 8 a. m.
CHS WABU 10 a. m.
NBC-WIAZ 10 -8 m.
NBC-WIAZ 10 -8 m.
Y.N. WNAC 1:15 p. m.
Y.N. WNAC 1:15 p. m.
Y.N. WNAC 6 p. m.
Fradgric Wm. Wile—
CBS WABC 12 occus
Press Radio Messs—
CBS-WABC 6:55 p. m.
NHC WEAY WIZ 6:30 p. m.
Press Radio Messs—
CBS-WABC 6:55 p. m.
NHC WEAY WIZ 6:30 p. m.
Press Radio Messs—
CBS-WABC 6:55 p. m.
NHC WAAB 7 p. m.
Press Radio Messs— SATURDAY

Press Hadio News-Y.N. WAAR 9:15 p. Y.N. WNAC 11 p. s

personality of this friendly Cuban an-nouncer is unsurpassed by even the fa-mous ploneer mikenian Phil Starts, of PHI, Huisen, Holland (11.73 meg). The programs of COC radiate warmth and interest that make their notstanding on the short wave channels.

the short wave channels.

And the indirect, yet appealing manner in which the aminoneer sells Cubu to his audience could well be copied by American advertisers. "Come to Cuba's sunkissed Caribbean shares where balmy bocces bring the tragrance of tropical fewers in fall bloom," says this Latin mikeman and then the music swings into a typical rhumba. For Cubin music, don't miss COC's late Saturday show starting at 12 midnight.

THIS PERIOD brought an improve-

THIS PERIOD brought an improvement generally in short wave reception. The 49-meter band provided a number of South American programs of real entertainment value. The Europeans, however, have been below seasonal average, During the two mouths absence of DJB, Zeven, Germany (15-21 meg) from the 19-meter band, GSF in Daventry, England (13-14 meg), has taken first bonors, GSF's best time is during their World News Buildetin at 8-35 a, m. Puntoise, France (15-24 meg), ranks a poor second while PCJ, Eindhoven, Hulland (15-22 meg), is heard irregularly.

ON THE 25-METER BAND: GSF, Daventry (1136 meg) is now on from 6 to 9 a. m. simultaneously with GSF and then continues with the next transmission until 10:45 a. m. GSE is a bit inferior to GSF and subject to rapid fading. PHI, Huizen, Hoffand (1173 meg), is heard every morning except Tuesday and Wednesday hut seldom has any program worth while. The early afternoon transmissions on this band have been erratic and very poor.

THE 31-METER hand has not shown any decided improvement. GSB, Daventry (9.51 meg) is seldom heard. PRF5, Rio de Janeiro (9.5 meg) is still, on each evening and EAQ has shown a slight im-

THE 49-METER band, as may be ex-pected at this time of the year, is best and provides very line entertainment from and provides very fine entertainment from a variety of stations up until around 10 p. m, when most of the South Americans sign off. The outstanding stations have been COC, Havana, Cuba (60) meg); NEBT, Mexico, D. F. (6 meg); YV3RC, Caracas, Venezuela (6.15 meg); RADHO DUSA, Lima, Peru, OAN-ID (578 meg); HJIABB, Baranquilla, Colombia (6.44 neg); YV3RMO, Maracaibin, Venezuela (5.85 meg); TIEP, San Jose, Costa Rica (6.71 meg); and YV4RG, Caracas, Venezuela (6.38 meg). DJC, Zeesen, and GSA, Daventry, have been unsually poor, while IRA, Rome, Italy, has offered tale entertainment.

Tuning Chitchat

INTERESTING AND UNI SUAL stations heard at the Listening Post during the last week have been:

December I. HCK, Quito, Ecuador, an about 384 meg and signing off at 9:10 pr.m. (This is an irregular station soldom heard.) FGN, Guatemala, Guatemala, heard signing off in English on Saturday night at 12 midnight on a frequency of about 5.95 meg. They used three-toosed chimes as a signal, and in signing off played "Taps" on bells.

December 3, 11J3ABH, Bogota, Colombia, a seldom beard station on a new frequency of 5.98 meg. They used chimes similar to NBCs before an announcement in Spanish and one stroke on a going after an announcement. Sign off at 11:10 p. m. On the same night T1X, "Ea Voz del Reina" of Saa Jose, Costa Rica, said "Tambio, tambio," and signed off at 11:18 p. m. with "A Thousand Good Nights" as theme song.

Most amusing is the Sears Rochuck Hour in English each Thursday and Saturday night over YV3RC, Caracas, Venezuela (6.13 meg), from 8:30 to 9.

TWO NEW STATIONS are now listed at Daventry, England—GSI on 13.26 meg and GSJ on 21.53 meg. No definite schedules have been assigned.

Time Shown Is Eastern Standard

eace on earth, good will to men will reign over the short waves in a special series of holiday broadcasts from Germany, England, Spain and other distant lands during the next few days.

Arranged helow in the order of their broadcast are the principal Christmas programs to be heard on the high frequencies:

SUNDAY, DECEMBER 23

8:45 a. m. DJA (9.56 meg) and DJN (9.54 meg), Schwartzmeier Children's Choir of Berlin, Germany, in Christmas songs. Rebroadcast over NBC WIZ network.

12:45 p. m. EAQ (9.86 meg), chants and pre-Christmas prayers of Benedictine Monks of Mont-

serrat, Spain,

8:30 p. m. DJC (6.02 meg), Christmas songs by the Karin v. d. Heyde vocal quartet.

MDNDAY, DECEMBER 24

11 a. m. GSA (6.05 meg) and GSB (9.51 meg),

carols from Cambridge University, England.

4:30 p. m. GSA (6.05 meg) and GSB (9.51 meg), celebration of 50th auniversary of founding of world's first settlement house.

6 p. m. DJC (6.02 meg), Bach's Christmas Oratorio from the Kaiser Wilhelm Memorial

Church, Berlin, Germany.

CHRISTMAS, DECEMBER 25

8:55 a. m. to 10:10 a. m. GSB (9.51 nieg), GSD (11.75 meg.) and GSG (17.79 meg), Yuletide messages from every corner of British Em-pire climaxed at the end by message from King George. Rebroadcast over NBC and CBS networks. See Christmas program article in this issue for more details.

1 p. m. IRF (8.02 mcg), 1RA (6.10 mcg) or 12RO (9.78 meg), Benedictine choir of San Auselmo in liturgical service from Domitilla Catacombs in Rome, Italy. Rebroadcast over the

NBC-WEAF network.

2:30 to 5:15 p. m. W2NE and W3NAU will relay overseas the special Nash program described in detail in the Christmas program article elsewhere in this issue. This is a regularly schooluled feature of the CBS-WABC cham.

SPORTCASTS

Time Shown Is Eastern Standard SUNDAY, DECEMBER 23

ABS Network-Hockey, 10 p. m. WGN (720 kc)-llockey, Blackhawks vs. Les Cauadiens, 10:45 p. m.

MDNDAY, DECEMBER 24

Yankee Network-Baseball School, 5 p. m. WHN (1010 ke)-Boxing Bouts, 9:30 p. m. WNEW (1250 ke)-Boxing Bouts, 9:30 p. m.

TUESDAY, DECEMBER 25

WKBW (1480 kc)-Hockey Game, 8:30 p. m. WGR (550 kc)-Hockey; Bisons vs. Cleveland, 9:15 p. m.

WMCA (570 kc)-Hockey, 10 p. m.

WGBF (630 kc)-Wrestling Matches, 10:30

WAAB (1410 kc)-Wrestling Matches, 10:38

WEDNESDAY, DECEMBER 26

Yankee Network-Baschall School, 5 p. in. WMCA (570 ke)-Boxing Bouts, 10 p. m.

THURSDAY, DECEMBER 27

ABS Network-Hockey Game, 10 p. m. WGR (550 kc)-Hockey; Bisons vs. Landun, 9:15 p. m.

FRIDAY, DECEMBER 28

Yankee Network-Baseball School, 5 p. m. ABS Network-Madison Sq. Garden Bouts, 10 p. ui.

WGBF (630 kc)-Boxing Bouts, 10 p. m.

SATURDAY, DECEMBER 29

CRC Network-Hockey, 9 p. m. WHN (1010 ke)-Boxing Bouts, 9:30 p. m.

6 p. m. DJC (6.02 meg), special program describing Christmas enstoms in Germany,

7 to 7:30 p. m. EAQ (9.86 meg), military band concert of Christmas melodies from Madrid, Spain.

WEDNESDAY, DECEMBER 26 8:30 p. m. DJC (6.02 meg), old-time Christmas singing from Berlin, Germany.

THURSDAY, DECEMBER 27

7:30 p. m. D.IC (6.02 meg), "A Woman's Fate," portrayed by Princess Djavidan Hanoum.

ANOTHER MILESTONE in the progress of commercial short waves was passed recently when on Friday, December 7. (Continued on Page 25)

(Continued from Page 25) the Trans-Pacific telephone link between California and Tokyo, Japan, was officially opened to the public. It will be possible for you now to call your friends in the land of the cherry blossoms from your own private telephone.

On Saturday, December 8, a musical program in honor of the new circuit was transmitted by the United States for re-

broadcast in Nippon.

KWU (15.35 meg) in Dixon, California, is the U. S. end of the link and in Tokyo, Japan, JVF (15.62 meg) does the transmitting. IVF was quite strong at 4:30 p. m. Saturday. December 8, an hour at which JVF may frequently be heard testing with KWU.

Reception Review

FOR PERIOD of December 7-13, as reported by Charles A. Morrison, Inter-

national Dx'ers Alliance:

Average reception has maintained for the period. The 19- and 25-meter bands have been poorer than usual while the 31and 49-meter bands both showed some improvement.

The 19-meter band has been very mediocre, only rising to fair reception levels on two or three mornings. GSF, Daventry (15.14 meg) has been subject to deep, slow fading which renders intelligibility poor, although the signal strength was often good. Pontoise (15.24 meg) was best on Tuesday morning, December 11.

W8XK, Pittsburgh (15.21 meg) is on in the early mornings but usually has a poor

signal.

The 25-meter hand has steadied down somewhat and GSE, Daventry (11.86 meg) has been fair at the end of its 6-9 a. m. transmission, and at the beginning of the 9:15-10:40 a. m. schedule. GSD, Daventry (11.75 meg) rose to a very good signal on two occasions but for a very short period. It was best from 1-2 p. m. Ponto:se (11.88 meg) was noted on its noon schedule once or twice.

The 31-meter band has been considerably hetter with GSB, Daventry (9.51 meg) good at times. GSB may often be heard right after 12 noon. PRF5, Rio de Janeiro, Brazil (9.50 meg) is surprisingly consistent on their 5:30-6:15 p. m. schedule. DJA, Zecsen (9.56 meg) was tuned in for the first time in some weeks on their 9 a. m. schedule on Thursday, December 13, and were distinguished with their musical identification. EAQ, Madrid,

has remained about the same.

European signals on the 49-meter band have been enjoyable. GSA, Daventry (6.05 meg) is on from 6-8 p. m.; DJC, Zeesen (6.02 meg) from 5:30-10:40 p. m.; and IRA, Rome (about 6.1 meg) is on 6:30-8 p. m. Monday, Wednesday and Friday. South American signals continue good. HJIABB. Baranquilla (6.44); YV5RMO, Maracaibo (5.85); OAX4D, Lima (5.78); TIEP, San Jose (6.71); COC, Havana (6.01); and XEBT, Mexico D. F. (6.0) have come in like local stations.