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NO. 18

DX CALENDAR DX CALENDAR DX CALENDAR

MM Feb 5 WJWL-900 Georgetown, DE 0100-0200. PoP w/IDs, tones, recorded music. Reports with return postage & accurate details will be QSLed. Attn: Stephen Wallace, OE, WJWL, Box 111, Georgetown, DE 19947. Arranged by Dablestein, NRC.

MM Feb 5 WILI-1400 Willimantic,CT 0100-0200 WILI-1400 Willimantic,CT 0100-0200 Will use 1000 watts.Test will have 1000 cycle tones,music,and ID's.Frepaid phone calls(203)-423-1621.Reports to Faul F.Moraghan,CE-WILI 948 Main St.Willimantic,CT 06226 Arrangedby Bryan Lee (IRCA)

KKIO-1290 Santa Barbara, CA 0300-0400. This test was one which was to have been on 1/8 but the CE/owner had some trouble with the date, so it has been scheduled again. Details same as last time (From NRC DX NEWS 1/22/79)..... MM Feb 5

MM Feb /9 WDBQ-1490-Dubuque, IA 0300-0400 (EST).
Tones & IDs, maybe a bit of other
chatter. 1KW ND pattern. Prepaid calls
accepted at (319) 583-6471. Verie signer Lloyd Berg, CE, WB9CRG, WDBQ, 1170
Iowa St., Dubuque, IA 52001. Arranged
by Bruce Renaud, GWDXA & forwarded to us by Eddie Ryan.

WBIO-1310 Parsippany-Troy Hills, NJ...
0000-???? This is an extended f/c and
willrun 3/27 & 4/24 also. Will include
1000 Hz tones to 0015. followed by must Tu Feb 27 and voice. This is the former WQTK. Veries from Jerry Toro, WBIO, 1 Percypeny Lane., Parsippany NJ 07054. (From DX News 1/22/79)



1450 KD.



P. D. BOX 883 WILLIAMSPORT, PA. 17701

LOWELL / LAWRENCE

P.O. BOX 1400 LOWELL, MASS. 01853

·····FLASH TIPS ······

From Matthew Shugart: "I received a special delivery from KNBR saying they plan to be off Feb 1-4 between 1-4 AM (PST)....." WCAW may test again & Matthew has also contacted WDBC for a possible

From Mark Bixby: The mobile unit Mark lists in this issues WDXR on 1646 kHz will be on again on Feb 2-3 & 9 carrying Basketball games and using 100 watts. This unit is operating with a 28' whip on a VW Van. Time broadcast begins is 2125 EST each night. Thanks to W. Page Pyne & Sheldon Remington for their letters to me at HQ.

Kanadian Korner ... Knews From " The Frozen North" January 15, 1979 ... the jo birthday issue!

January 15, 1979...the jo birthday issue;

54 EC CE. Barkerville/Wells 40w. lprt will relay CHU.
69 SA CFEB Gravelbourg. Noted carrying CHF & CDC(SRC)

Nontreal stuff direct. CFRM & CFRS(86) are
both just relayers(no studios) of CBRF FM in
Regina. CHRF feed is from CJBC or CFR.
Thought I had CHF for a few mornings, hi.
79 PQ C. Baie-Comeau wants 1/½Tw. UL...French
86 MB CKSB-1 is ex CEKF...40v. lprt relaying CKSB 105.
86 MB CKSB-2 is ex CEKB...ditto CKSB French.
86 EC CBRR Cranbrook lprt will die when CBF Marrives.
**73 ON CBOF-5 is ex CEEP...r-CBOF 1250...Bxctting, eh?
92 MB CFRY Portage la Prairie wants 50kw. U2. Why not!
96 ON CKWS Kingston applied to drop all CBC stuff.
105 EC CKAL Vernon is ANG OFF HI 3-8 ELT, says "C-kal".
107 ON CHOK Sarnia applied to drop all CBC
107 ON CHOK Sarnia applied to drop all CBC
107 AB CKSP & Application by CHNC withdrawn! Ahh!
117 BC CHU Ehis lprt will die waen local CBC FM arrives.
122 AB CJOC Lethbridge drops all CBC stuff. No longer
pert of the c-jock license requirement.
122 FQ C... Amqui. CP DEKIED! Bet they'll try again
as the CBC bought the local, CJEM 1450.
124 AB CB.. Jasper. One of those 5w. NP Info. things.
124 ON CFAK Atikokan...is the call...r-CFOB 80. Soon NSP.
124 ON CJEM Trenton s/b on now? Relaying 40% CJEQ 80.
125 AB CBC. CKAP!s application is now for 1.5.
127 ON CJEM Trenton s/b on now? Relaying 40% CJEQ 80.
128 AB CBC. CKAP!s application is now for 1.5.
127 ON CJEM Trenton s/b on now? Relaying 40% CJEQ 80.
134 EC CEKY Alert Bay is gone to FM since June.
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134 EC CEKY Mill die after local FM arrives at Sparwood.
140 ON CKOB Renfrew gets OK for lkw.
141 SA C... Moose Jaw wants 10/kw U... English of course.
145 AB C... Grande Prairie is reapplying for lokw. U2
145 ON C... Timains application(ex 124) for a CKAP twin.
148 AB chum Edmonton...CHUM Toronto wants 50kw, U2 & FM.
149 AB CB... Jasper. The French version..see 123.
1511 more lprts seem to be going to FM.
Nore p

Still more lprts seem to be going to FM. More private stations are made happy by being allowed to get rid of having to carry the CDC. CHAT wants FM which would seal their monopoly market. C-joc ditto. End of excitement .. 73 ... jo

The Inside Story

BDXF---244 DXWW---247-248-249 WDXF---245 DXWW II-249-50-51-52 EDXR---238-239-240 CDXR---240-241-242 WDXR ---242-243-244

eastern dx

Bob Curtis 17 Cobbleview Dr. Colchester, VT 05446

DEADLINES: Mondays All times are Eastern Local *****************

Splatter: "Patience hath its reward! Five newies within 50 minutes after a week-long drought." (see WGAS-1420, WKMG-1520, WYNA-1550, VKYR-1570 & WONA-1580) Bill Townshend - DC "12/10 not a bad morning for me." (see CBK-540) Douglas Miske - ON "Got WISN in a much wanted state and WGAT, unreported since '72!" (see 1130 and 1050) Steve Grubb - TN "Called station to confirm." (see WDBL-1590) Paul Mount - OH "Both new and needed!" (see WKAO & WWBC-1510) Karl Jeter - GA "Patience hath its reward! Five newies

1510) Karl Jeter - GA
"The pirate, WFAT-1620, in the Big Apple
has been bagged at long last (see 1620). It's
still alive and well as of the New Year."

Bill Townshend - DC

"State # 27." (see WPRO-630)

Douglas Miske - ON

"VL's from the KADE CPC, CFCO & CKLW came
this week." Steve Grubb - TN

UNID, Beacon w/Morse 0 S (--- ...) at far low end of TRF 1/4 1652. Who? (PRM-OH) (ed: am interested in your report, Paul, as I have also logged OS; but still carry it as UMID.)

SK, Watrous 12/10 01592 W/OBC SK
TD, CBC Nx, 0204 s/off. Very good w/some WGR slop. Province # 5.
12/10 not a bad morning for me. (DM-ON) 510a OS

540 CBK (DM-ON)

FL, Cypress Gardens 1/4 1753 Good w7local wx, temps in 70s Winter Haven area; promo, country format. (PRM-OH)

TX, San Antonio 1/8 1958 Poor, 550 KTSA lotsa garbled ID's and one good

TA, San Antonio 1/0 1936 FOOF,
lotsa garbled ID's and one good
clear ID. Coke spot, T40 mx.

(Hitline-292) (SG-TN)
MY, Buffalo 1/5 1135 Daytime
catch fair-weak u/semi-nulled WKRC,
with Andy Gibb mx, wx incl Ontario,
"GR-55" promo at 1135. (PRM-OH)
1/8 1948 Fair, lotsa "W-G-R" ID's &
"55-GR". T-40 mx. (SG-TN)
PA, Philadelphia 12/21 0050 In big
fight w/WIND, T-40 mx, 0050 WFIL
ID & TC as 0051, sports & into mx.
Surfaced w/ID @ 0056. Usually fair.
This stn is reputedly very hard to
hear on DA-N, so I felt pretty
good about this one (DM-ON)
IL, Chicago 12/21 0052 WIND jingle,
talk, fighting WFIL. Fair. (DM-ON)
ON, Ottawa 12/21 0046 CFRA ID,
"Too Fuch Heaven" (Bee Gees). Fair. WGR

560

WIND

580 CFRA

(DM-ON)
PA, Harrisburg 1/8 0128-0133 Fair,
ID w/easy list inst, "just beautiful" promo and AM & FM ID o/nulled
WHS. (PRM-OH) WHP

620 KWFT

TUI" promo and AM & FM ID O/NUILed WCHS.

(PRM-OH)
TX, Wichita Falls 1/5 1800 MOR mx,
TD, into CBS "World Tonight" followed at 1815 by farm report(KJ-GA)
WI, Milwaukee 12/21 0157 ID by YL,
mx, 0159 ID by YL, ment to stay
tuned for NBC Nx, wx (28°), spot,
jingle, 0200 NBC Nx. During this
Andy Gibb & the Bee Gees were
heard on two stations fighting
WTMJ. 0208 "Welcome back", 0208 TC,
WTMJ ID, Bee Gees mx. Fair.(DM-ON)
DC, Washington 1/8 0117-0120 Fair
0/U/Cuban w/"At 17" 0117 to ID at
0120.

(TRM-OH)
RI, Providence 12/21 0036 Phone #
Eiven, WPRO ID, talk & phone #
842-2630 (?), 0037 Disco (ugh) mx,
0039 f/out, WMAL left. Good. State WTMJ

630 MMAL

WPRO 0039 f/out, WMAL left. Good. State (DM-ON)

CA, Los Angeles 11/20 0200-0300
Foor-fair on TRF w/rr mx. 0230
talk-show with guest about "Leadership Crisis". "Long Distance" call
from Pomona. At 0300 ad for \$4.95
book on "Acu-Fressure" (no medical
costs). Then into news w/Phillip
Clark - much on the USSR space pgm
- flights to Mars, etc planned.
Then wx & different guest, doctor
against welfare. (LMP-0H)
12/10 0159 "Fly Like An Eagle"
(Steve Miller Band), "64 KFI" ID,
quick talk, "Whenever I Call You 640 KFT Friend" (Kenny Loggins) poor u/C/14 pest. State # 26. (DM-ON)
TN, Nashville 12/11 0400 Off the
air, some 0C, TT. (Light-OH)
SC, Greenville 1/4 1655 Fair but
no WNBC at 1655 telling motorists
in South Carolina to put on head-650 *WSM* WESC 660 in South Carolina to put on head-lights. (PRM-OH) ON, Toronto 1/8 0101 640-700 kHz now DXable as super-pest leaves air totally. (hooray). (DBI-OH) HD, Baltimore 1/8 0105 AP NX, WOBK TD, talk and another ID, Bee Gees mx, 0108 talk about Super Bowl 13, bsktbl scores, WOBE ID, talk "Sept-ember" (Earth, Wind & Fire) 0112, ID poor. (DM-ON) OH, Cincinnati 12/11 0145 Off the 680 (CFTR) WCBM emoer" (Barth, Wind & Fire) 07/2, ID poor. (DM-ON OH, Cincinnati 12/11 0145 Off the air most of the night. (LMP-OH TX, Amarillo 1/3 1812-1822 Good W/nx, femme anner, Earl Nightingale, xint after WKMG power drop 700 WIW (LEP-OH) KGNC 710 gaie, Alin data at 1815. (KJ-GA) at 1815. (KJ-GA) NY, New York 12/11 Test tones and open carrier most of the night. (Luff-OH) *WOR* UNID, Canada 12/9 0030 French sing-ing over WOR (at work). (LMP-OH) (see also 710 u/IDING the UNIDS) OK, Tulsa 12/10 0136 MOR mx & talk by OM who sounded like he was fall-???? 740 KRIAG by OM who sounded like he was lall-ing asleep (I was, hi). Fair all alone. State # 24. (DH-ON) UNID, 1/8 0145 weird tones, noises, rise and fall tones. Poor all alone. GA, Atlanta 1/8 2036 Poor with QRN (Tecent winter storm?) T-40, ment Atlanta. (SG-TK) 790 t WQXI VA, Norfolk 12/21 0023 "Swingtown" (Steve Miller Band), 0025 talk and WTAR ID, Tom Jones mx, 0029 talk & WTAR ID. Fair-good in CHIC null. WTAR ON. Windsor Sign-off 12 PM (2400) and back on 0530 since about Thanksgiving. May have run later weekends, and seems to be back on full time schedule since Christmas. CKIW 800 Reason given at s/off is to work on AM-stereo. (Boes seem to splatter more now.)

NY, New York WNYC is not now 50 kw and won't be until its owner,

NYC, gets out of its financial 830 WNYC crisis and can afford it. Give 'em at least ten years. (GM-NY) (see BL-CT's question u/830 in EDXR for Dec. 23rd)
CO, Denver 12/11 0225 Good with 850 KOA sports talk. (LMP-OH) ON, Toronto 1/8 0010 S/off with a FF version of GSTQ. (SG-TN)

GA, Atlanta 1/8 0010-0025 Heard

The constant hum of CJBC's xmtr 860 CJBC (after s/off). Not clear enough NE, Lexington 11/23 2230 Fair. No WCBS or Cuba. "KRVN, Lexington, NE, 10 tefore 10 at 2250. State nx, traffic accidents. At times fades & covered by WCBS. Some Cuban and TV QRM also, but quite better than would think from NRC pattern - aimed away from WCBS. Are they testing non-directional, like WNOE has been most of this year? (LMP-OH) for a verie. Fair to poor signal 880

	WCBS	NY, New York 12/11 (time?) Test	1190	KLIF	TX, Dallas 1/8 0200-0430 Maybe
920	WTTM	tones. (LMP-OH) NJ, Trenton 12/20 2358 Pop mx,	i		this w/talk show about basketball, M & F speakers, show named UPA To-
		WTTM ID. Fair in mess & WBEN slop. (DM-ON)	1		day 0200-0230 then into Open Door Program 0230-0300 ID but tape ran
930	KWOC	MO, Poplar Bluff 1/5 1729 Good at 1729 w/full ID, MO Net Nx to 1734,	4		out, "Wildfire" 0300 and other rock, not CHTN/KEZY per calls to
		The Family Optical ad. "Big Count-			KEX KAYQ/KLIF didn't answer. Then
950	WROL	ry Radio". (KJ-GA) MA, Boston 12/6 0557 o/u/WPEN with			definitely 0430 w/rock, ID. WOWO off except 0400 TT. (PRM-OH)
		end of rlgs show reminding listen- ers they heard it on WROL. (GM-NY)	1220	WGAR	OH, Cleveland 12/11 0100 Off the air, back before 0200. In Sept.
970	*WWDJ*	NJ, Hackensack 11/27 0355 Open carrier with WWSW (?). At 0400			started using new xmtr & plan going to AM stereo. (LMP-OH)
		poor test tones under WWSW looped	1240	*WGBB*	NY, Freeport 12/13 0400-0430 Off
		east. At 0405 faded out or being turned on and off. (LMP-OH)			from 0100-0400, then ET consisting of tracking Beatles LP's 0400-0430.
	WWSW	PA, Pittsburgh 1/7 0115 C&W type mx, 0115 TC, WWSW ID, mx, fade-out		*WGBB*	Back to RS at 0430. (GM-NY) NY, Freeport 1/7 0115-0520
980	CKGM	Fair. (DM-ON) PQ, Montreal 1/8 0129 "Shake It"			PoP test. TT's at both hi & lo power. ID's every 15 min at beginning,
000	Ondri	(Tan Matthews), 0132 CKGM ID, talk,		אינעטזיא	then once an hr near end. (GM-NY)
		mx, 0136 ID, talk, Bob Seger mx. Poor-fair. Station # 200 from Tor-			NY, Freeport 1/8 0010-0058 Still proofing on hi pwr, ID 0058(GM-NY)
		onto. (Pretty good for me as I haven't had much time to DX since	1250	WTAE	PA, Pittsburgh 1/8 2150 Fair with MOR'ish mx w/some stray hets. ID'd
	*9999 *	moving here in 3/76. (DM-ON) UNID, 1/8 0119-0131 Somebody knock-	1270	WDLA	as "T-A-E". (SG-TN) NY, Walton 12/26 1230 QRM from
	••••	ing walls down (and ears out) with TT. Signal excellent until off at	1213	11 2221	WADO. WSPR. In w/"Delaware County
		0131 w/no ID - nothing! (DM-ON)	1000		Farmer" show, AM-FM ID, New Year's greeting. (GM-NY)
990	CBW	MB, Winnipeg 11/19 0558 Good. National anthem and list of CBC	1280	WONW	OH, Defiance 1/3 2355 - 1/4 0020 Fair-good w/Mutual pgm not King.
		stations. At 0600 "990 kHz, 50 kw, 5:00 AM" (LMP-OH)			then nx wx, national nx 0030. Per call to stn on till 0000 normally.
1030	t KCTA	TX, Corpus Christie 12/3 0130			except when there's a bsktbl game, HS or Defiance College; then re-
		C&W mx poor to fair under WBZ with sub audible het. Used R-300 and 60			corded programs played and s/off
		ft. non-directional ant, so may have been KTWO. (LMP-OH)	1290	WICE	0037. (PRM-OH) RI, Providence 12/15 0151 Occasion-
	#17.Ctm / #	(ed: Is the 60 ft. ant a vertical?)		WNBF	ally on top w/tele-talk. (GM-NY) NY, Binghamton 12/15 0154 o/u/mess
	* ACTA *	TX, Corpus Christie 1/8 0112-0117 Fair but alone w/segued country			w/ments of "Chenango", "Endwell", wx report. (GM-NY)
		O112-0117 then repeated IDs off & on. (PRM-OH)	1320	CKEC	NS, New Glasgow 12/20 0113 After
10 50	WGAT	VA. Gate City 1/9 1719 Fair w/C&W mx. No QRM. PSA about blood-donat-		LUTOT	WATR s/off w/rr mx, local comml, ID. (GM-NY)
		ing, sx and then into "You Don't Bring Me Flowers". (SG-TN)		WVOJ	FL, Jacksonville 12/20 0121 Sur- faced w/pop, c&w, Xmas songs, wx,
4060	#UOTO#	(ed: Streisand and Diamond)	1330	????	ID's. (GM-NY) UNID, 1/8 0335-0355 Good o/u/WRIE/
1060	*MŰTO*	OH, Canton 11/30 0025 ET loud test tones, then 0030 "Grease" theme mx			WFBC w/jazz 0335-0355 then said end jazz special, back to top 40
		& "Double Vision" starting & stopp- ing suddenly & changing volume.			(at 4?), two more selections then
		Still on at 0145 with rr mx & DJ talking. 0150-0200 several WQIO ID			missed ID going to check 1190; mentioned Al Candy in the newsroom
		jingles played. Apparently off at 0230+. (LMP-OH)	1400	WKWK	at 0359. (PRM-OH) WV, Wheeling 1/8 0017-0100 Among
	????	UNID, TN, Morristown 1/9 1728 Xlnt			the rock 0017-0100 report 0057 a-
		w/good rr (mentioned Morristown) ID'd as "1060 M and M (or M and N)"			bout hotel for dogs in CA, Hot News then jx like "Joyce Greller,
		Into Tennessee News Radio (Network) (SG-TN)		WSGA	14 W-K" into rock, # 299. (PRM-OH) GA, Savannah 1/8 0017-0103 Prob-
1090	*????* KAAY	UNID, 1/8 0035 TT u/KYW. (SG-TN) AR. Little Rock 1/8 2105 Fair with			ably one of the rockers 0017-0103, one had AT 40, one F DJ, then
,-	74222	Slight QSB. T-40 Hitline Area code 501-243-KAAY, Dial spot. ID'd as			"WSGA Savannah" ID into "Miss You" (ed: Rolling Stones, eh, Paul?)
4400		" $K-A-A-Y$ " and " $K-A-Y$ ". (SG-TN)			o/WKWK. Station # 300 in 32 months.
1100	WWWE	OH, Cleveland 12/6 0025 OC. Off at 0030 on a week day. (IMP-OH)	1420	WCED	(PRM-OH) PA, Du Bois 1/6 1828-1832 Poor to
1120	WWOL	NY, Buffalo 1/4 1659 Poor u/KMOX w/s/off. Was looking for WUST, but			Fair, clear ID, from out of no- where for just a few minutes.
		heard c/w mx instead. Glad I stay- ed with it, hi. (KJ-GA)			First time logged hereusually unable to hear due to splatter
1130	WISN	WI, Milwaukee 1/9 1728 Good, no QRM, QRN or QSB. Oldies and rr.		MU Y C	from local on 1410. (WPP-MD) NC. South Gastonia 1/8 1730 S/off
		Milwaukee wx report (6°). (SG-TN)	4486	WGAS	by OM. Fair. (WPT-DC)
1150	*CKOC*	ON, Hamilton 12/10 0100-? Running OC, nobody there (*!#@\$) Excellent.	1470 t	MOXT	SC, Columbia 1/1 1730 S/off by man, "WL" heard and ment of SC led to
	+	(DM-ON) 12/21 0150 Using tone tonight,		WVBS	above conclusion. Fair sig(WPT-DC) NC. Burgaw 12/31 0600 S/on w/NA.
		(sure woke me up, hi!) Excellent. 0218 back on RS. (DM-ON)	1500		Fair amid moderate QRM. (WPT-DC) MN, St. Paul 12/21 0116 Andy Gibb
1160	KSL	UT, Salt Lake City 12/10 0115 Talk	1,000	KSTP	Song crept over guitar twanging WDEE. Surprise. No sign of them
		show, fair, all alone for state # 25. (DM-ON)			after this. (DM-ON)
1170	(AVWA)	wv, Wheeling 12/3 0330 Off the air, OC at 0335. (LMP-OH)		WDEE	MI, Detroit 12/21 0112 "Big-D" ID, C&W mx, 0118 TC & wx, C&W mx and
					"Big-D" ID's. Good-very good over WTOP. (DM-ON)
			1510	WKAO	FL, Boynton Beach 1/4 1743 A clear "This is WKAO" heard during s/-
					off of WWBC @ 1743. Both new and
					needed! (KJ-GA)

	WWBC	FL, Cocoa-Merritt Island 1/4 1743 End of "700 Club" into s/off. Fair in WLAC null. (KJ-GA)
1520 t	WDGL	GA, Douglasville 1/8 1800 S/off by OM. Time of s/off and "W-G-" heard
	WKMG	led to above. Fair. (WPT-DC) SC, Newberry 1/8 1745 S/off with slow version of "Dixie". Fair. (WPT-DC)
	WTLN	FL, Apopka 1/1 1745 S/off by OM w/ment of FM outlet on 95.3 mHz.
1530	WRBX	Fair signal. (WPT-DC) NC. Chapel Hill 1/3 1638 Calling self "The New WRBX" at 1638 with a contest promo giving away \$50
1540	KMZK	TX, Ft. Worth 1/5 1812 1st time w/new call. BFL Mx format, promo: "We're your friends, so don't for-
1550	ANYW	get us". (KJ-GA) NC, Raleigh 1/9 1729 S/off by Ohl giving location of studios & xmtr. Fair-good. (WPT-DC)
1570	WKYR	KY, Burkesville 1/8 1744 S/off by OM w/ment of KY and WKYR, Inc.
	WTLK	Fair amid QRM. (WPT-DC) NC. Taylorsville 1/4 0600 S/on
1580	KLTR	With NA. Fair. (WPT-DC) OK, Blackwell 1/5 1826 rr mx, ad for Ponca City business and a rad-
	WONA	io promo. (KJ-GA) MS, Winona 1/8 1816 S/off by OM W/ment of FM outlet. Fair signal.
1590	WBHN	(WPT-DC) NC, Bryson City 1/6 0618 Atop 0618 W/spots, mention hardware store in "Briceton City" then again at 0637
	WCSL	w/spot mentioning Highway 19; US 19 runs thru Bryson City. Country format o/u/WOKX/WAKR. (PRM-OH) NC, Cherryville 1/6 0617 Good with mention of Cherryville re Shopping Center: nx 0629 re Wayne County;
	WDBL	ID 0714. TN, Springfield 1/6 0641 Atop with spot for savings bank in Springfield & said roads being salted
	+	were snow covered, wx. Called stn to confirm as WLEN-KY also has a nearby Springfield. Spot was for Investor Savings Bank. (PRM-OH) WDBL News Schedule: UPI on the top of the hour, 5 minutes; Tennessee Radio Network on :30, 5 minutes, 3 major local summaries at 0700,
	WLBN	1200 and 1700. Country music then to ROK around 2100. (PRM-OH) KY, Lebanon 1/6 0729 Heard this anyway atop o/WAKR w/wx 0729, ph-# 692-7248, ID "It's 7:30, you're in tune with Radio Station WLBN" into bank spot; General Tire in Springfield spot, country mx. (PRM-OH)
	+ MOKX	NC, High Point 1/6 0633 Best of all stns this morn, 0633 w/c&w, "OK Country" promo, again 0650 w/- wx for "OK Country", PSA re High Point Public Library, "OK" jingle; 0710 w/wx, DJ Steve something o/u- WAKE/WBHN/WGSL/WDBL. (PRM-OH) WOKX News Schedule: 3 minutes of local news at :50 and :20 during drive time; otherwise just :50.
1620a // !!!!!	+	"Good Morning, WPAT" by man anner, During talk show w/ment of QSLs. To my knowledge first time heard in DC. Fair-good. (WPT-DC) NY, New York 1/6 0238 guess who. Fadey w/low modulation, tele-talk at 212-868-9979, callers stumping host w/trivia questions. (GM-NY) ////////////////////////////////////
* 710	333	

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(SG-TN) (see EDXR for Jan. 6th)
Steve Grubb's UNID (Jackson WIIT?)
is WYIG (ex-WWUN) Jackson, MS. At
1800 it powered down to 1 kw from
1590
                                            (WPT-DC)
DX TESTS
               GA, Atlanta 1/8 0106-01240 Tried
               at different intervals, not heard.
              IN, Hammond 1/8 0106-0240 Ditto as above.
        WJOB
1230
PRM-OH Paul Mount, 35½ West Columbus St.,
Nelsonville, OH 45764
Realistic TRF
Congratulations to Paul Mount for reaching
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Congratulations to Paul Mount for reaching 300 stations in 3½ months.

Under "Splatter" in EDXR for Jan. 13th credit mention for CJCS-1240 was Dave Nelson-NC.

Have noted that some older loggings have been sneaking in to EDXR. For an effective weekly column reports should be sent in weekly, and not allowed to get stale. While on the subject accolades to the many DX'ers who make the effort to keep their loggings current. It is much appreciated and much needed to make a weekly column worthwhile.

Thanks to Steve Grubb for the WKIN survey sheet.

sheet. How many saw last week's (Jan 10th) episode of "Vegas", and noted the TRF on the table in the final scene? Perhaps the lady cop was a

> 73 and good DX Bob Curtis

central Bob Lazar 511 W. Dot 511 W. Doty St., Apt. 208 Madison, Wisconsin 53703

Deadlines are TUESDAY.

OF SPECIAL INTEREST

1020 KDKA PA Pittsburgh Bad news folks. This one was on NM 1/8 & 1/15, so it is likely NSP now. (RAL)

1260 KGBX MO Springfield noted Aning on MM 1/8 and

weeknights too. Apparently a sked change. (NZ)

+MM 1/15 0406 good w/ WNDR nulled during WNDE SP w/ CBS nx, ID. (RAL)

1390 KINT IA Clinton 1/13 1535 ex-KCIN fair in WVON null w/ Ae nx, C&W. (RAL)

580 CFRA ON Ottawa 1/1 0203 "...on the Canadian Top
100, no. 61, Jack and Jill, on CFRA."
Very good and all alone on a normally
jumbled frequency. (MJ)
680 CKGB ON Timmins 1/13 0115 fair w/ R&R, local
ads. (RAL)
710 WDSM WT Superior 12/24 1000 around most of the

WDSM WI Superior 12/24 1000 around most of the 710 day....very poor, managed to catch a couple of IDs. (RS-Kau)

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WVLN IL <u>Olney</u> 12/20 1236 poor w/ Xmas mx and faint ID. (MJ)
                                                                                                                                                                                                                                                                                                1280 WJAY SC Mullins 1/8 0600 weak w/ s/on anmt, then gone. (KDF)

1290 KRGV TX Weslaco 1/9 2356-2359 ad for Interiors Unlimited, PSA for Army, SID, R&R mx. Sig fair to poor, w/ some QSB, QRM from several stns, splash from local WIBR(JL)

1300 WLOW SC Aiken 1/6 0601 barely audible w/ s/on w/ excited announcer. (KDF)
    740
 faint ID. (MJ)

800 WSHO LA New Orleans 1/13 1812 good w/ C&W, anmt about WSHO buying used trailers, s/off at 1814 w/ no SSB. (RAL) (RAL, below)

KQCV OK Oklahoma City 1/13 1825 fair w/ ID, mx.

CFOB ON Fort Frances 1/1 0300 all alone for about one minute, full ID with mention of CHMM-FM relay. (RS)

830 KBOA MO Kennett 12/21 0805 ad for Kroger Foods and ID. Reasonably strong. (RS)

850 KEYH TX Houston 12/26 1830 wx for major TX cities, then brief s/off anmt. Good and clear. (MJ)
                                                                                                                                                                                                                                                                                               excited announcer. (KDF)

1310 WGSA PA Ephrata 1/5 0601 poor w/ SSB & s/on, unn. (KDF)

WBNT TN Oneida 1/5 0610 good w/ what appeared to be late s/on, then local nx. (KDF)

1320 WHHO NY Hornell 1/7 0600 fair w/ s/on w/ FM plug. (KDF)

WGET PA Gettysburg 1/5 0559½ fair w/ SSB & s/on. WKTQ PA Pittsburgh 12/31 0008 "We'll be ringing in the New Year on 13-Q, WKTQ, Pittsburgh." Good u/ KXYZ. (MJ)

KXYZ TX Houston 12/14 2036 heard u/ WILS with "KXYZ Studio 13". Fair. (MJ)

1340 WAGN MI Menominee 12/26 1730-1745 poorly mixing with a very weak WBCS-Milwaukee. Lucky to catch ID. (RS-Kau)

1350 WSLR OH Akron 12/21 0216 ID "WSLR Akron, OH" during talk show. Good. (MJ)
                             KTLW TX Texas City 1/4 1812 good w/ wx report, ID o/ KARN. (JC)
920
                                                      OK Oklahoma City 12/15 2000 ID at 2000 dur-
     930
                              WKY
                           wky OK OKLANOMA CLLY 12/15 2000 ID at 2000 the ing OK St. basketball game. Good. (MJ)

KDET TX Centre 1/6 1830 s/off, weak u/ WTAD w/
promo for FM. (JC)

WCPC MS Houston 12/26 1740 after Billy Joel song, ads for Bill Haney concert, something on Hwy. 15 north in Houston, Hills Bros.
Pontiac, then "WCPC Houston, MS", into religious pgm. All alone after WJPC s/off. (MJ)
      940
                                                                                                                                                                                                                                                                                                during talk show. Good. (MJ)

1370 WCCN WI Neilsville 12/24 1030 poor in null of WGEE splash. (RS-Kau) (KDF, below)

1380 KBWD TX Brownwood 1/5 1900 thru WVON slop for rpt w/ "6 o'clock news" and local spots.

1410 WIZM WI La Crosse 12/24 1045 good in null of WDUZ splash. (RS-Kau)

1450 WWIW LA New Orleans 12/29 1849-1851 forties style pop mx. promo for GBS Mystery
                                                                         s/off. (MJ)
     s/off. (MJ)

950 KFSA AR Port Smith 12/20 2055-2100 mx by Cher, ID, song by Donny & Marie, then "It's 8:00 and time for news on KFSA, Ft. Smith." Good to fair. (MJ)

WSPA SC Spartanburg 12/15 1945 heard "Radio 95", then Spartanburg wx and ID. Good. (MJ)

WKTS WI Shebovgan 12/24 1100 surprisingly weak, the same for WHBL-1330 (during the day).
                                                                                                                                                                                                                                                                                                                                                                     style pop mx, promo for CBS Mystery
Theater, calls, dixieland jazz. Sig
and out of the GY; splash from local
     (RS-Kau)

960 WSBT IN South Bend 12/27 0045 o/u WERC with T40 mx7 wx, and ID. Fair-poor. (MJ)

KGKL TX San Angelo 1/13 1846 fair w/ R&R. (RAL)

970 WMAY IL Springfield 12/20 2123 good w/ C&W mx & ID o/ KAKC. Much wanted. (MJ)

KAKC OK Tulsa 1/14 0227 fair w/ "The all new AM-970 KAKC" ID, MoR. (RAL)

1010 WBIX FL Jacksonville 12/30 1730-1731 s/off w/ calls, no SSB. Sig faint, mixing w/ WKQT and others. (JL)

1010 KCHI MO Chillicothe 1/3 fair u/ KLRA, s/off at 1815. (JC)
                                                                           (RS-Kau)
                                                                                                                                                                                                                                                                                                                                                                     WXOK. (JL)
                                                                                                                                                                                                                                                                                                 1500 WTOP DC Washington 1/5 under KSTP with talk, believe Larry King Show, CBS nx and two IDs. 0145-0210 Surprise for first time
                                                                                                                                                                                                                                                                                                                                                                     ever here. (NZ)
                                                                                                                                                                                                                                                                                                1520 WKJR MI Muskegon Heights 12/26 1130-1145 easily heard during the day. (RS-Kau)

1530 WJPJ TN Huntingdon 1/8 1745 good signal w/ local news. (KDF)

KNBO TX New Boston 1/6 weak-fair at 1829 w/ s/off u/ WCKY. (JC)

1540 WRSM AL Sumiton 1/6 1802 fair-good w/ s/off, little interference. (KDF)

1550 CBE ON Windsor 1/1 0310 stayed on late for New Year's Eve simulcast with CBEF-540 Windsor. The French guy did most of the
                                WMOX MS Weridian 1/3 good 1803-1808 o/ KLRA.

C&W song, then promo for Elvis special,

"Total Country 'MOX" ID, local ads,

bluegrass song. (JC) (WMOX is one of my
more unique veries, the verie scribbled
on a sheet of stationary says "Hell,
yah it was us".--ed)
                                                                                                                                                                                                                                                                                               sor. The French guy did most of the talking. (RS)

1560 KAJN LA <u>Crowley</u> 12/29 1807-1813 sports nx, wx for Acadiana, pgm about Evangeline Parish water quality, calls. Sig poor, w/ QSB, slow flutter, QRN. (JL)(KDF,below)

1570 WCRL AL <u>Oneonta</u> 1/8 1759 surprise w/ wx, s/off, & what sounded like the end of a hymn.

KBJT AR <u>Fordyce</u> 1/3 good w/ s/off at 1829, mentioned 259 watts. (JC)

KMAR LA <u>Winnsboro</u> 12/29 1755-1757 ID w/ calls, ad for McLemore's Supermarket, garbled ad, another ID. Sig poor, erratic, w/
                                                                                                                                                                                                                                                                                                                                                                                                 The French guy did most of the
      yah it was us".--ed)
WXYQ WI Stevens Point 12/24 1050 10Q Country,
local level here. (RS-Kau)

1030 KCTA TX Corpus Christi 12/31 strong 1750-1800 w/
gospel. "KCTA 1030 Corpus Christi, the
Gospel Giant of the SW" ID at 1800.
No WBZ, yeah! (JC)

1050 KSIS MO Sedalia 1/2 fair 1802 w/ wx report.(JC)
KFMJ OK Tulsa 1/2 good w/ C&W mx, mentioned
would be on til 1830 because of later
supset in Jan. at 1822. (JC)
        would be on til 1830 because of later sunset in Jan. at 1822. (JC)

CHUM ON Toronto 1/2 weak thru WHN & others w/
ID, rock at 1800. (JC)

1070 WFLI TN Lookout Mountain 12/27 0217-0223 ID:
"WFLI, Lookout Mountain-Chattanooga, TN"
Ment'd testing xmtr w/ daytime power of 50000 watts. Disco mx. Sig strong but fluttering, w/ QRM mainly from WDIA.(JL)

1090 WBAF GA Barnesville 1/6 1742 fair o/ WGLC W/
s/off. (KDF)

WGLC II Mendeta 12/12 1300 foir m/ WGLC No.
                                                                                                                                                                                                                                                                                                                                                                     ad, another ID. Sig poor, erratic, w/unid QRM. (JL)
                                                                                                                                                                                                                                                                                                unid QRM. (JL)

WHII MS Bay Springs 1/3 fair at s/off w/ promo for WXIY-FM at 1816. (JC)

CHLO ON St. Thomas 12/27 0100-0103 wx (temp. -9°), calls, nx, sports. Sig weak, intermittent, pushed aside by XERF. Came in after TGVE s/off. (JL)

1580 WSBP FL Chattahoochee 12/29 1744-1745 s/off w/ calls, no SSB. Sig fair to poor, w/ QSB, unid QRM. (JL)

1590 WATM AL Atmore 1/6 weak at 1815 w/ s/off, promo for FM at 104.1 and owned by Southland BCing Co. thru mess. Much wanted catch
                                   WGLC IL Mendota 12/17 1300 fair w/ "WGLC, Mendota, IL" ID, ment of WGLC-FM, into Ae news. (MJ)
                                                                                                                                                                                                                                                                                                for FM at 104.1 and owned by Southland
BCing Co. thru mess. Much wanted catch.
AL in well here on this evening. (JC)

KYDE AR Pine Bluff 12/29 good at s/off at 1800,
mentioned power of 1000 watts. (JC)

1600 KCGS AR Marshall 12/29 good w/ ads, IDs, wx
report, 1746-1752. (JC)

KMDO KS Ft. Scott 1/2 fair w/ ad, ID at 1805
thru mess. (JC)

KFNV LA Ferriday 1/3 fair at 1830, s/off, mention of MissLou area. (JC)

KOGT TX Orange 12/31 1856-1857 two IDs w/ calls,
local nx. Sig quickly wrecked by grave-
yard-type QRM. (JL)
                                   WISS WI Berlin 12/24 0900 very strong, a lot stronger than I thought it would be.
                                                                             Never heard in Milwaukee. (RS-Kau)
           1110 KDRY TX Alamo Heights 12/14 1930 after religious pgm, s/off at 1930, fair but little QRM. Heard after WMBI s/off while try-
                                                                               ing for WBT. Probably my best catch
                                                                               yet. (MJ)
        1140 CKXL AB Calgary SM 1/14 0137 fair in WRVA SP
o/u WIBA/WISM mixing product w/ R&R(RAL)
1150 WDEL DE Wilmington 1/5 0406 fair w/ local nx,
rare here. (KDF)
1220 WLBI LA Denham Springs 1/5 1829 weak but alone
w/ s/off. (KDF)
CJRB MB Boissevain 1/13 0102 fair o/u WGAR w/
nx, sports, So. MB wx. (RAL)
1260 WBBG OH Cleveland MM 1/15 0359 poor thru WNDR/
KGBX w/ end of NBC nx, Cleveland wx(RAL)
           1140 CKXL AB Calgary SM 1/14 0137 fair in WRVA SP
                                                                                                                                                                                                                                                                                                    DX TEST
                                                                                                                                                                                                                                                                                                   1230 WJOB IN \underbrace{Hammond}_{1/8} 0115-0130 fair to poor with plenty of IDs. (RS)
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UNIDENTIFIED STATIONS

UNIDENTIFIED STATIONS

930 ?KCCW? 1/4 1837-1847 weak u/ WTAD w/ C&W mx, news at 1837, 43°, thot I hrd a KCCW ID. No such call in Domestic Log. Temp. makes me think KCCC. Ideas?? (JC) (KCCW is the new call for KITE--ed)

940 T40 mx on 12/27, ads for motorcycles, and ID "Radio 94 WLIS??" Heard 2 IDs w/ WLI? Suddenly off 1745. Any ideas? (MJ) (Possibly WMIX which sounds somewhat like WLIS--ed)

1050 12/31 s/off at 1745 w/ comment of return at 0700 and owned by Broadcast Associates. (JC)

1590 12/29 s/off at 1744 w/ promo for FM, sounded like 100kw at 100.3. No ID given. Info doesn't hold togeather. I see now the advantages of a tape recorder!!! (JC) (WVNA-FM is 100.3, but WVNA is fulltime!--ed)

1600 12/28 "stay tuned for Paul Harvey news on ?WTDL?" P. Harvey news followed. Unreadable by 1800.

P. Harvey news followed. Unreadable by 1800. Help! (JC) (Maybe WKDL Clarksdale, MS, listed as Ai & Ae affiliate in new NRC log and which should **S**/off 1800 in Dec.--ed)

A TIP OF THE HAT TO THESE CDXR REPORTERS

A TIP OF THE HAT TO THESE CDXR REPORTERS

JC - JOHN CLEMMER, 2937 W. Gilbert, Peoria, IL 61604
(TRF, SM-2)

KDF - KARL FORTH, 630 S. Ardmore, Villa Park, IL
60181 (HQ-160, 3x3 spiral loop)

MJ - MICHAEL JEZIORSKI, 4758 S. Lavergne, Chicago,
IL 60638 (Sears Stereo Console)

JL - JOSEPH LANDRY, 11643 Baylor Dr., Baton Rouge,
LA 70816 (Realistic TRF, 350' LW)

RS - ROBERT STEADMAN, 2758 S. Wentworth Ave., Milwaukee, WI 53207 (TRF, RF-2200, SM-2)

(RS-Kau is DXing done from Kaukauna, Wisconsin)

NZ - NEIL ZANK, 623 Lyncrest Dr., Lincoln, NE 68510
(HQ-180A, TRF)

RAL - BOB LAZAR, 511 W. Doty, Apt. 208, Madison, WI
53703 (FRG-7, SM-2)

Welcome to new member Michael Jeziorski and an apology for not having your report in last week's column. I misplaced your report and forgot about it until after I typed the column. Also, a late thanks to those that sent me Christmas cards. I found interesting the various items in recent DXMs and DXNs concerning various proposals for allowing daytimers to go fulltime or to allow new AM stations to go on the air. I hope the FCC doesn't move too fast in breaking down clear channels. They should wait for the outcome of the other two proposals (extending the AM band and changing channel serparation from 10 the outcome of the other two proposals (extending the AM band and changing channel serparation from 10 to 9 kHz) before they do anything too drastic to the clear channels. If these proposals will create so many new stations it is really unnecessary to use the clears. Either of these proposals (the later two that is) would be a great improvement for domestic Dying due to the simple fact that new channels would DXing due to the simple fact that new channels would be created. Foreign DX would be greatly harmed if a 9 kHz frequency plan would be the same as elsewhere. 13, $\ensuremath{\text{GeV}}$

HANCY HARDY, Edilor

2301 PACIFIC AVE.

western ax roundup

ABERDEEN, WA 98520 ALL TIMES ARE EASTERN LOCAL

From the for hot WDXR tips: (206)532-6827 till 10:30pm(PLT) nightly--prepaid calls only DEADLINES: Thurs. 2/1, Thurs. 2/8, Mon. 2/12 REPORTERS FOR THIS ISSUE:

(NHP) Nick Hall-Patch-3272 Alder St.-Victoria, BC Transmogrified HRO, V8X 1P2 FET AA loop

FET AA 100p

(EH) Bill Hardy-2301 Pacific Ave.-Aberdeen, WA
FRG-7, SM-1
98520

(NH) Nancy Hardy-2301 Pacific Ave.-Aberdeen, WA
FRG-7, SM-1
98520

(WJH) Bill Harms-865N 160W #2-Provo, UT 84601
Realistic TRF, wedge

(DFJ) David Jackson-4281 Encinitas Way-Alvarado, Realistic TRF CA 94587 (SME) Steve Mittman-2248 W. 37th St.-San Pedro, Realistic TRF, FRG-7, 9073 CA 94587 CA

3' wedge

(BM) Bill Moriyama-2662-22nd Ave.-San Francisco,

(bp) Bruce Portzer-6546-19th N.E.-Seattle, WA HQ-180A, FRG-7, 4' box loop 98112 (FT) Pete Taylor-2614 Jackson St.-San Francisco, Sony ICF6700, SM-2, R390, CA 94112 rooftop Y 98115 CA 94115 (RET) Randy Tomer-P.O. Box 2674-McKinleyville, CA FRG-7, R. West loop, HQ-180A, 95521 W-E mini-Beverage

(RW) Robert Wien-945 Desert Isle Dr.-San Jose, CA GE long-range portable, SM-2 95117

540 KNAK <u>UT</u>, Delta ex-KDLT 1/16 1709 ID and top 40 mx. (WJH-UT)
550 KAFY <u>CA</u>, Bakersfield 12/1 1428 weak but

steady. Wx for Kern Co., ad for some shopping plaza, into top 40 mx. (BM)

MT, Butte 1/12 0001-0042 w/CBS nx & 550 KBOW

pops; u/KOAC, w/KOY. (PT-CA) OR, Corvallis 1/11-12 2342-0043 w/ 550 KOAC

550 KOAC OR, Corvallis 1/11-12 2342-0043 w/
opera; w/KBOW & KOY in/out. (PT-CA)
560 (KSFO) OA, San Francisco 12/1 1415-1545 off
air due to downed phone lines near
xmtr. Back on w/OC at 1545 & resumed
programming at 1610. (BM-CA)
570 KCNO OA, Alturas 12/1 1508-1516 weak but
steady. Heard while KSFO was down. KCNO
"Emergency Hot-Line," promo, mx,
"Casino Radio-KCNO-570" slogan. (BM)
590 KTHO OA, S. Lake Tahoe 1/8 1336-1415, weak.
690 KKUA HI. Honolulu 12/16 0522 p/KHEY w/"Wip"

KKUA 690

690 CBU

CA, S. Lake Tahoe 1/8 1336-1415, weak. (PT-CA)
HI, Honolulu 12/16 0522 u/KHEY w/"Win"
contest sponsored by local Volkswagon
dealer, ID, into rr mx. (SMM-CA)
BC, Vancouver 12/15 0358 exotic-type
mx heard, into s/off w/ID's & ments
of CBC Radio. Fair. (SMM-CA)
CA, Carmichael started RS 1/11/79.
Not 24 hours. (PT-CA)
+1/11 1550-1605 good & steady. Relig.
program from the "Multnoman Bible
School," legal ID "KFIA, Carmichael;
an island of praise." Announcer mentiioned
first day on air & will have UPI audio
and teletype soon but machines weren't
hooked up yet. Promo'd future prog's.
Mx ("Contemporary Christian") as KBRT,
Avalon, plays. (BM-CA)
+1/12 0903 w/solid signal, after gospel
song, "Good morning & welcome to day
number two at KFIA." OM announcer said
there'd be no nx because UPI wouldn't
install lines until "today," into badly
recorded wx, more gospel mx. Great fun!
(DFJ-CA)
+Now on air. First noted 1/13 at 1045. 710 KFIA

(DFJ-CA)
+Now on air. First noted 1/13 at 1045, great signal for 250 watts, mixes w/
KMPC/KIRO at night here. S/off at midnight. Relig. format, UPI nx on hour.(RW)

*CA, Los Angeles 1/15 0532 noted w/ID

"This is KMPC, Los Angeles, testing w/
50,000 watts. KMPC, Los Angeles." KIRO
nulled. (RW-CA)

AZ, Phoenix 1/14 1000 heard ID into
"Spoken Word" w/Spencer Kinard (a program
originating from KSL-1160). QRM from
KCBS & another unID station. (WJH-UT) 710 *KMPC*

740 KMEO

NM, Albuquerque much weaker than I would expect 1/8 0418--possibly using a 5-10kw standby rig. (bp-WA) 220 KOB

a 5-10KW standby rig. (bp-WA)

CA, Clovis 12/6 1614 weak w/slight fade.
WX, "You're in tune w/KXQR, Clovis.
Always beautiful, always beautiful"
slogan, into beautiful mx. (BM-CA)
WA, Spokane 12/11 0455 poor to fair
through KGHL w/pop mx, ID, into nx.
KABC off. (SMM-CA)

TX, Ft. Worth 1/14 noted off 0430-0520.
Only unID SS heard in their absence.
(SMM-CA)
HI, Honolulu loud 0000 1/0 m/cam-t-790 KXQR

790 KJRB

820 (WBAP)

HI, Honolulu loud 0000 1/9 w/coyote howl, "KIKI Disco 83," then more disco. (RET-CA) 830 KIKI

CA. Thousand Oaks 12/10 1951 noted this semi-local daytimer booming in past their s/off time, for emergency coverage of a raging fire in Thousand Oaks. 850 KGOE What's the status of their CP to go fulltime? (SMM-CA)

930 KSEI

970 KUZZ

fulltime? (SMM-CA)

ID, Pocatello noted briefly 1/3 2200.
An infrequent visitor. (PT-CA)

CA, Bakersfield 1/15 1952 call, promo,
nx & wx to 1758, then into C&W mx.
Fair through KYTE/KBEE. New. (NH-WA)

CA, Modesto 1/8 1930 all alone w/soft
instrumental mx, KBEE & "AM-97" ID's,
then into ads. No sign of KYTE. (NHP-BC)
+1/15 2000 ID, into NBC nx, 2004½ into
local nx & wx; o/u KYTE. New. (NH-WA) 970 KBEE local nx & wx; o/u KYTE. New. (NH-WA)

		+1/14 10/18 2002 a // KVMB		,	
•		+1/16 1948-2002 o/u KYTE; very good at times. EZL or BFL mx uninterrupted till	1340	KBET	NV, Reno 12/1 0230 heard "over the
		2001 then "AM-97, K-B-E-E, Modesto,"	1370	KPCO	garble" wx & ID into C&W mx. (BM-CA) CA, Quincy 1/14 1000 listing of
980	(KEWB)	& into tape-delayed NBC nx. (BH-WA) <u>CA</u> , Los Angeles 1/15 0510 noted totally			programs to be aired that morning
,00	(111 112)	off, back on later w/TT's. (RW-CA)			"from the 500 watt voice of Plumas County, KPCO." Poor in KWRM null w/
1030	WBZ	MA, Boston 1/15 0531 weak but clear in			KEEN off due to a big storm. New. (RW)
		XEQR null. MOR mx. Killed by KTWO TT at 0535. (RW-CA)	1370	KGEN	CA, Tulare 1/14 0900 poor u/KWRM at
1060	KAMA	TX, El Paso 1/7 1912-1930 pushed thru			s/on, then at 0955 had PP programming,
		KNX-1070 slop w/Mexican-type mx & SS	1380	KKZZ	soon faded out $w/XEHG$ taking over. $(R\overline{W})$ CA , Lancaster $1/14$ 0932 fair at s/on
		language. S/off at 1930 in EE, w/a mention of KAMA-FM 93.1, then in SS.			in KTOM null. Strange s/on time. (RW)
		Fair. (SMM-CA)	1380	KSRV	
1070	ÇFAX	BC, Victoria 12/11 0603 extremely poor			KKZZ/KBCH w/ad for the KSRV Coupon Book, then YL giving the "KSRV Ski Report."
		u/XEPRS-1090 slop w/Canadian nx, and "C-Facts" ID. KNX off. (SMM-CA)	1000	7570011	New. (RW-CA)
1100	KFAX	CA, San Francisco now has apparent	1,000	KBCH	OR, Lincoln City 1/14 1043 topping KSRV w/sleepy-eyed announcer "keeping
		nightly SP at 1:00, noted every night			you awake this Sun. Morning," ad for
1140	KRAK	past this time w/OC. (RW-CA) CA, Sacramento 12/19 0640 ad heard			Newport Wax Museum or something like
		promoting C&W station KMPS-1300 when	1390	KGER	that. New. (RW-CA) <u>CA</u> , Long Beach 1/12 0844 end of program
4.1.		visiting Seattle! (SMM-CA)			on Indians, ID. Then gone u/KCEY.(DFJ)
1140	CKXL	AB, Calgary 1/15 0420 blasting in w/ promo for "XL Children's Fund fund-	1400	KFTN	UT, Provo 12/11 0343 fair through KVEC
		raising show" at the Jubilee Theatre	1430	KAMP	W/ID's, MST TC's, & pop mx. (SMM-CA) CA, El Centro 1/15 1443 heard rock mx
		in Calgary." Gregg Stuart, DJ. Are			in KALI null (while carrying talk).
1170	*KT.0K*	they 50kw now? (RW-CA) CA, San Jose 1/14 0435 noted w/"KLOK			then clear ID, "KAMP." It was raining
. 11/0	niion	testing" ID. Didn't go off, stayed on			during this reception. New, for station #450 and midday #98. (SMM-CA)
4.00		RS. (RW-CA)	1430	KNTA	CA, Santa Clara now has 0730 s/on,
1180	VOA	FL, Marathon Key 1/14 0627-0631 heard EE ID "This is the Voice of America,	11.00		rather than 0800. (RW-CA)
		broadcasting from Washington, DC" then	1430	KJAY	
		Yankee Doodle. Into usual SS program.			KARM null w/preacher, mention of Sacramento area church. (RW-CA)
1230	KPRL	Fair signal but in clear. (WJH-UT) CA, Paso Robles 1/10 0800 xlnt at s/on,	1440	KVON	CA, Napa 1/14 0835 has SS programming
12,70	111 ((1)	w/SSB. S/on information, then "On this	1450	(KEST)	in early morning. (RW-CA) CA, San Francisco 1/15 0430-? noted
1000	KTDG	Date" (RW-CA)		(11201)	off all morning, still off well past
1230	KIBS	CA, Bishop 1/10 0914 weak u/KWG w/SID "12-30 K-I-B-S," into Kendalls song.(RW)	1450	TC 1017915	0930. (RW-CA)
1230	KLAV	NV, Las Vegas 1/8 0320 fair w/pop mx	1450	KEED	OR, Eugene 1/15 0405-0410 on top of freq. w/ID "Country mx radio, K-double-
1000	In.org	o/u KRDR w/KWYZ off. (bp-WA)			E-D, and promo for Super Bowl trivia
1230	KWYZ	WA, Everett 1/8 0259 s/off for "technical adjustment & repairs." Gave s/on as	11/50	VEVV	contest. (RW-CA)
		0830. (bp-WA)	1450	KEYY	UT, Provo 1/15 0540 on top briefly w/ SID "K-E-Y-Y!" killed by unID TT'er
1240	KESE	CA, Monterey ex-KMBY now has a nightly			at 0545. Is this one NSP? (RW-CA)
		1:00am s/off, not 24 hours anymore. KDIG now dominates 1240. (RW-CA)	1450	KRPM	WA, Puyallup ET'ing w/two ID's 0358
1240	KELK	NV, Elko 12/14 1958 pushed through KSON	1460	KGAA	1/15. Ex-KUPY. (bp-WA) WA, Kirkland ET w/OC 1/8 0402. (bp-WA)
		w/ID, TC, & an ad for J.C. Penney,	1480	KPHX	AZ, Phoenix 1/7 0857 gospel mx prog.
		then National wx forecast sponsored by Security National Bank. Clean signal,	1490	KGUD	full ID in EE & SS. Alone on freq. (DFJ)
		then disappeared at 2000. Possibly	1470	MOOD	CA, Banning 1/15 0735 noted w/ID in mess "24 hours a day, on KGUD,
		still on 1kw (?), though long past their local sunset. (SMM-CA)			Banning," gone u/KDB. Are they on
1260	KPIN	AZ, Casa Grande 1/8 0805+ w/Mutual	1500	KXRX	now? (RW-CA)
		Southwest nx, mentions of American	1,00	1121.121	CA, San Jose what's going on? Heard plug for KMJJ 1/13 0608, including
		Cotton Network, ad, cattle market nx, SID, C&W mx. KYA not on until 0816			commercials from local Las Vegas
		today. (DFJ-CA)			dealers, then an actual ID "at Fairway Chevrolet, downtown Las Vegas.
1270	KCOK	CA, Tulare-Visalia ET 1/15 0404 w/rock			I'm Jim Michaels, you are tuned to
1270	KNDI	mx, then ID & gone. (bp-WA) HI, Honolulu 1/8 0506 very clear			Khold, the magic 11, Las Vegas. It's
12/0	WIADI	"right here on KNDI" by man w/			3:09, & now back to the mx, on the magic 11!" Suddenly off, Larry King
		accent, then into some ethnic folk			on. What happened? (RW-CA)
		mx. Heard u/somebody's strong OC. Hawaiian #20 for me!! (RET-CA)	1500	(KXRX)	CA, San Jose off MM 1/8 before 0403
1280	KFYV	CA, Arroyo Grande 1/6 1955 C&W mx, YL			to after 0730. Only KUMU & unID rr in their absence. (bp-WA)
		DJ, TC & "K-5" slogan. Good in KJOY	1510	KDJQ	AZ, Mesa 12/31 0930 noted good signal
1280	KBDF	null. (DFJ-CA) OR, Eugene 1/15 0704 poor u/KFRN w/wx			at s/on (no SSB, just "good morning"
1200	1122	for Eugene. (RW-CA)			& details). Then KDJQ forum "previously broadcast by our sister station KDKB."
1290	KCUB	AZ, Tucson o/u KMEN 0300-0400 1/8,			(NHP-BC) (Guess KDJQ kept the KDKB call
		heard while waiting for KKIO test. C&W mx and "K-Cub" slogans. (KET-CA)	1 = 1 0	RTDH	on FMNH)
1300	KROP	CA. Brawley 12/19 1358 heard midday	1510	KIRV	CA, Fresno 1/13 1958 ID, spots, 2000 s/off. Poor u/KTIM w/KGA nulled. (NH-WA)
		in KWKW null w/C&W mx & mentions of	1530	KFBK	<u>CA</u> , Sacramento 12/20 1345-1410. 1500
		El Centro. Into CBS nx. ID at 1406.			midday reception of this station was
1300	KYNO	Rainy day. (SMM-CA) CA, Fresno apparently not 24 hours any-			finally heard while it was raining, through extreme KPOL-1540/KACY-1520
-,		more. Not heard after nidnight for		•	slop! Santa was taking calls from the
4200	иодъ	some time now. Anyone confirm this?(RW)			wee tots of Sacramento. ID at 1400.
1300	KOZE	ID, Lewiston 1/11 0400 ID "In Idaho, it's 1 o'clock, a late Wed. night,			into CBS nx, then into all-news format.
		from KOZE, Lewiston, where your	1530	*\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Another ID at 1500 (noon PLT).(SMM-CA) GA, Dalton 1/8 0515 weakly heard "My
		friends are" Good, o/everything w/	~) (U	** 1 4 1 "	Life" being played, then interrupted
		KMPS subdued. KYNO apparently off, doesn't sound 24 hours anymore. (RW)			for "This is WTTI, Dalton, Georgia;
1310	KNPT	OR, Newport 1/15 0202 atop KDIA (KLIX			on the air for experimental test purposes only." Then song began again;
		off by this hour) w/instrumental jazz;			suddenly disappeared 0519. (SMM-CA)
		ID, DJ saying jazz on KNPT each Sun. nite from 2300 till 0300 MM. Guess this	1 5 5 5	帯びれないへい	(Great catch, Steve!NH)
		means KNPT is on till 0300 nightly now.	1530	"KVWO"	WY, Cheyenne 1/10 0731 noted TT'ing weakly u/KFBK. (RW-CA)
		Can Frank Aden check this out? (BH-WA)			January 27, 1979Page 243
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1540 KKAP

CA, Aptos-Capitola 1/14 2005-2015

amazed to hear extremely faint rock
mx in KPOL null! Then bits of s/off
was hrd w/mention they would return to
the air tomorrow morning at 6am.(SNM-CA)

CA, Willows finally logged this on s/
off 2015 1/7 o/u KPMC. Many mentions
of call letters followed by SSB. Poor
to fair signal. (NHP-BC)

1560 *KKAA*

DA berdeen 1/15 0514 on w/OC most of
morning, KLIV-1590 off so no slop. Poor
w/ID "This is KKAA, Aberdeen, South
Dakota, conducting equipment tests."

CKTA-1570 slop. (RW-CA)

1570 KMAY

CA, Riverside 12/14 1700 ex-KHNY. EZL
mx, then ID "Serving the entire Inland
Empire at the top of your AM dial,
this is KMAY, Riverside--Radio 1570."
Into MBS nx. (SMM-CA)

1580 KNIX

AZ, Tempe-Phoenix 1/14 1635-1703 heard
midday in local KDAY null w/faint C&W
mx audible every now & then. OM ID at
1703 "KNIX--. Good afternoon, Arizona."
Also heard 1/15 1300. (SMM-CA)

1590 (KLIV)

CA, San Jose 1/15 0500-0600 totally
off except 0550-0600 w/OC. (RW-CA)

MA, Seattle 1/15 0505 good, well o/
KBBQ w/rr mx, but no ads! (RW-CA)

1600 KBBX

UT, Centerville good signal 1/5 1830
w/religion, then spot for moving outlet in Ogden. (RET-CA)

1647 KXF952 AZ, Lakeside 1/13 2045-2310 remote 1540 KKAP CA, Aptos-Capitola 1/14 2005-2015 let in Ogden. (RET-CA)

1647 KXF952 AZ, Lakeside 1/13 2045-2310 remote pick-up link for KVWM-FM 93.5 Show Low, pick-up link for KVWM-FM 93.3 Show Low, Arizona, carrying Blueridge Yellowjackets vs Solo Cougars basketball game. Until 2120 the mobile was hooking up w/the base (KVWM-FM). Pregame show began at 2130; game at 2145. Sportscaster would announce stn breaks, then pause 30 sec., announce stn breaks, then pause 30 sec., so ads apparently inserted at KVWM-FM. At conclusion of game, pause--then "This is KFX952 Mobile, Lakeside, AZ; remote pick-up for KVWM-FM, Show Low, AZ, signing off." (SMM-CA)
KFAX CA, San Francisco spurs noted 1/4, reported to CE, cleaned up 1/8. (PT-CA) 1075/1125 DX TESTS: 860 (WXAP) GA, Atlanta not heard, XEMO too strong. (NHP-EC)
+No sign of the 1/8 test here. (XET-CA)
1290 (KKIO) CA, Santa Barbara 1/8 0300-0400 not
heard here. Maybe the high mountains
north of Santa Barbara blocked the signal. (RET-CA) +Not heard on DX test 1/8. Called stn and nobody answered. (bp-WA)
+Not heard due to a CKDA-1220 spur which suddenly showed up on 1290 (and many other frequencies) (NHP-BC) (Doesn't look like the spur hurt your chances anyway, hi.--NH)

F/C's HEARD: 2nd Sat. 0215-0230 KAHL-1410 NE (RW-CA) UNID'S:

1/14 0403 unID ET looping N/S, had TT's at first, then played rr mx. ID at 0408 "This is K--G (or C) conducting equipment tests."

is K--G (or C) conducting equipment tests."
Either KRDG or KYJC. (RW-CA)
KNUI? 1/8 0400-0430 weak rock mx & what
sounded like "K-nooey" slogan between songs.
Seldom heard. (RET-CA)
1/14 1102 on top carrying AT40 show. KGE
listed as having it at 1200. (RW-CA)
UNID TT from 0628 tune-in, MM 1/8. Poor to
fair. OC at 0707. Too late for KKAA? (DFJ-CA)

1360

Thanks to all who reported to WDXR this week. T

John Zondlo eastern dx forum 6617 Maryland

Hammond, IN 46323

John Clemmer-2937 W. Gilbert-Peoria, IL 61604
FY has been very good here, particularly at SSS.
15 or so new stations have been heard in the last
week. WSIV 1140 5kw days, Pekin IL, is now WVEL.
The format continues to be beautiful music. WVEL
is short for "W-VELvet". A very nice v/l was
received from WUNI. The CE stated that their towers, transmitter, power and pattern have all been the same and in constant use since 1941.

Also, the CE sent along a personal invitation to visit the station next time I am down that way. A "WUNI bird" tie tack was sent too. The "WUNI A "WUNI bird" the tack was sent too. The "WUNI bird" is the station's symbol. I suppose it helped that I mentioned that I have been in the Mobile area on vacation many times and that I listened to WUNI. I also mentioned that last time I was down that way I saw their towers alongside I-10. Sure would be nice if all that ions were so friendly and fact with their stations were so friendly and fast with their v/1. Good DX and 73.

Bill Wurtzel-32 W. 31st St.-New York, NY 10001 Within one week I came into possession of two powerful radios. First I went out and bought a new Panasonic RF-2200. Then a friend came over to look Panasonic RF-2200. Then a friend came over to look at it and told me his friend wanted to sell a Sony ICF-5900 for \$90. I said I was interested and two days later I picked it up. Trying the Sony out in Passaic, New Jersey, I managed to hear good signals from two hard to get locals: WJLK-1310 Asbury Park NJ and WGBB-1240 Freeport, Long Island, NY. IRCA member Greg Monti is a DJ on WGBB and I heard the announcer or Cross morties the Bish MV. IRCA member Greg Monti is a DJ on WGBB and I heard the announcer, or Greg, mention the Rick Morgan Show with Greg Monti. I met him at Paul Mount's pet-together last January of '78. The Sony sure has powerful circuitry. Long Island stations come in all over the dial in NJ, some of them pushing the S-meter up to an 8. I received a nice letter from Bryan Lee in Connecticut this week. I am also plad to read mention of my name in the Forums. If anyone writes me, I promise to answer in free verse. I'll try not to rhyme.

verse. I'll try not to rhyme.

Greg Monti-5 Hickory Road-Bayville, NY 11709
There's been a lot of talk about splatter in these pages recently, and accusations about how much is too much. Perhaps a little theory is in order. An AM station is incapable of transmitting any intelligence (audio) without transmitting sidebands (splatter). If the splatter were to be confined to within only 1 kHz of the carrier frequency, which would be very convenient for split-channel byers, then so would the station's transmitted audio. It would be total mud, and speech would barely be understandable. Mediocre fidelity could be attained with about 5 kHz audio response, and reasonably hi-fi audio with about 10 kHz audio response. Of course, a station transmitting out to 10 kHz takes up 20 kHz of space on the AM tand since the sidebands are identical both above and below the carrier frequency. A super hi-fi AM station claiming response out to 15 or 20 kHz takes station claiming response out to 15 or 20 kHz takes up 30 or 40 kHz on the band. This is why the FCC never puts stations closer than 30 or 40 kHz in the same market. The FCC also requires response out to 7.5 kHz to be flat within reason, and stations must prove this to the Commission annually by doing a proof-of-performance test. (continued in next $\Gamma^{\gamma}\Gamma^{-}jz$)

Bryan Lee-P.O. Box 69-Brooklyn, CT 06234
STOP THE PRESS...This is an announcement, it is only an announcement (but it's important!). On February 5 from 0100 to 0200 WILI-1400 will conduct a test using tenes, various music and lots of IEs. Prepaid calls go to (203) 423-1621. Chief engineer Paul Moraghan (sic) is very interested in getting reports so all IECAns please try for it, especially you silent and not so silent Southern New England Divers, and write in to EDYR and say whether you tried for it. and not so silent Southern New England DXers, and write in to EDXR and say whether you tried For it or not, and above all, please try to send WILI a report (valid ones ONLY!!). There is one slight problem, though. The CE says WILI does not radiate a strong skywave (I'll attest to that, being only 15 miles away from them), but, of course, that's no problem for you Exers using that *600 plus equipment, right Other DX related news: WILI is seeking to purchase WXLS (FM 98.3). The CE says WILI and most other graveyarders are seeking permission from the FCC to allow broadcasting with 1,000 watts fulltime. WILI's complete schedule (differs from the one I mentioned a few weeks 1,000 watts fulltime. Will's complete schedule (differs from the one I mentioned a few weeks back): Monday thru Thursday- 5:15am to 2:05am, Friday and Saturday- 5:15am to 4:00am, Sunday-6:00am to 1:05am. I want every member to listen for WILT's test, even get your relatives to listen and send a report! (Hi). 73s, Bry.



TEXMONTS ONLY FULL TIME 5000 WATT STATION



MATTHEW F. SHUGART-12561 GROVEVIEW ST-GARDEN GROVE, CA 92640 Well, it was a long way from the notice that the test had been arranged (9/23) to the actual test (12/16) but it looks like WCAW was a success. I've gotten notes from several DXers up north that they heard it w/nice signals. We can thank long distance (you know, the next best thing to being there, and cheaper before 8 --- and on toll free lines!) for its success. That was one of the most exciting 48 hrs I can recall. I had just returned from an overnight trip to the Colombia R. area, picking up my Sanserino loop on my way back from IAX, when Mark Fixby called and said he'd hrd KNBR would be off. I talked to Don Erickson and he said "people have been trying to reach you all day!" Obviously something was up. So I called WCAW next morning to set it up. Rich Segalas called me and I gave him the message, and, w/Rich making most of the calls, as many people as possible were notified. Oh yeah, to round out the 36 hrs, I too hrd the test! It's very weird that the LAs (XELG & unID) were hrd, 12/15. They were not noticed 12/16. XETRA 690 was also off, and believe it or not, every time WCAW faded up, there was an ID! There really is an anti-Murphy out there! On another matter, this to John McDonals and Gene Martin for quick replies to my KYW question. The questionable Mexican bp hrd 12/16 @ 0600 ELT was XEFO "R. Sensacion". 73 for now de MFS

GENE MANTIN-3303 E. EVANS AVENUE-DENVER, CO. 80210 Let me quote Bruce Portzer in DXWW 12/30: "During the past month, I've noticed that both DUs and Asians peak in the 1030-1230 period and then deteriorate quickly. From 1300 to local sunrise, I've only heard a few of the stronger stations, even when the band was alive w/audic, hets and carriers a few hours before". Local sunrise in Seattle comes close to 1500 in Dec. Now local sunrise in Dallas in Dec comes close to 1330, and in DXM, 19 Mar 77, I was recollecting how the TPs were heard in Dallas was back in the 1928-32 era. Let me quote myself: "Another part of the pattern of DXing TPs was the limited time-span when they could be heard at all. The Japanese and the Aussies were rarely to be heard before 1000 GMT and by 1200 they were gone, faded cut 60-90 min. ahead of the Fall and Winter sunrise in Dallas. The approach of sunrise did not enhance reception of the Japanese or DU stations in any way. Instead, it began taking out such signals even before dawn was showing itself in the Eastern sky." It seems to me there is an astonishing similarity between Bruce's 1978 experience and my recollections of what it was like almost 50 yrs ago. I noticed the same phenomenon in Hawaii in Dec---a conspicuos dying-out of stations to the West, an hour or so before their 1625 sun-

RILL HARDY-2301 PACIFIC AVENUE-ABERDEEN, WA. 98520 When I tried for WCAW 680 W. Va. on 12/16, I noticed hets all over the dial from 640-890 kHz, and the hets matched the new 9kHz TP spacing. However, I wanted W.V. very badly, so didn't pursue the TPs. My first serious try at the TPs was Thur 12/28 but not one cottin-pickin het to the heard - even the Hawaiiand were moderate strength - so will have to try again. I've decided to count relogged TPs as a new stn only if they move 5kHz or more from their old freq., since my dial doesn't read out the freq. very accurately anyway. Since I only have a total of six TPs from these countries anyway, it doesn't really ratter, hi. W/a freq counter I'd have a fatter logbook, of course. Soapbox time: it bothers me that the IRCA is beginning to look like a "regional" club w/heavy WC support and poor support from certain parts of the East. Meantime, NRC looks more and more like an "Fast Coast" club w/very little support from its WC members. W/so many of us in both IRCA and NRC, this makes no sense. The solution is simple: Whatever clubs you belong to, please contribute! How else can we get the total picture? I'm sure not everyone agrees w/me, so I hape I've at least provided some food for thought. 73 everyone.

I thought as a relatively new member of IRCA, I might introand 14 continental US states. At home I use a Trio 9R59DS, but very high QRN level forces me into open spaces where I use a Vegs Selena B206 w/a 40" loop and preamp, or 150' of wire

ALAN E GILMOUR-107 MARLBOROUGH ST-GREYMOUTH, NEW ZEALAND duce myself. I'm 32 yrs old, and have been into MW DX on and off since 1960, during which time I have verified 34 countries strung between suitable fixtures. My location os not good for N.A., as we have mtn. ranges to the East and NE. Between Nov. and Mar. some N.A.s are audiable in the early evening w/KFBK, KEX, KING, and KVOO amongst the more regular brigade and when conditions are better, several others appear. CKFH and CFGO were heard at good level once or twice last year. Getting up early is not one of my favourite things, so that I miss Europeans that this location can provide, although last year I managed TWR Cyprus 1232 and Sudan 1295. In mid-Winter Middle Eastern stations such as Batra 1106 can be heard until past 0830 local time. DX is tougher now than when I first began. In 1963 N.Z. stations occupied 39 channels, as compared to the 63 that are now used, 29 of which are all-nighters. Australians are dominant on most other frequencies within 2 hours of sunset particularly in Winter, w/only the strongest Asians, or those on splits (Indonesia) audible before the Aussies s/off. The enjoyment I get out of the hobby is its uncertainty. The station you hear well one night may not even be there the next night. If it was too predictable I am sure the interest would not be the same. I am not very keen on tentative reports, as knowing what you hear is to me the biggest thrill. 73. (Welcome to IRCA & WDXF Alan. I'm thrilled to get a Forum from Down Under, please send them as often as you can-RtH).

BILL HARMS-865 N. 160 W. #2, PROVO, UT. 84601 Not much going on here. Cx have been poor lately, but I have noticed a few hets like 828 looping DU and a het on 738 almost every night. I even heard some audio one time. Thanks to Grant Manning my "frog" will probably be ready for DX soon. I'm planning to have it modified soon, so I might have more foreign DX. I think I'll move to Orem next semester. Maybe that way I will be able to hear something other than "The Key" (KEYY) on 1450. Hth, I hope you are feeling better. (Thx Bill, I think half the Bay Area has a cold or the flu-Rth). 73 de

ROBERT_WIEN-945 DESERT_ISLE DR-SAN_JOSÉ, CA. 95117, + + + + I figured I'd send in another Forum. New catches XECVC 700 Chihuahua, Mexico (unlisted anywhere!) on SRS w/great cx to N. Mexico 1/4, and KSVC 980 Richfield, UT, also on SRS. Totals now are 704/384, 4 veries in '79 so far: KRKO, KCMX, CHPG and CFRG. Other than that, not much thrilling DX. Did hear tent. KXOW 1420 f/c MM 1/8. For a few months now, after XEBBC s/off, I can hear an unID SS on 1470 extremely weak u/their OC w/KXOA nulled, usually around 2 or 3 AM PLT, as KXOA has a terrible signal in this direction at night. This SS is apparently 24 hr but they've never come up strong enough for a sure ID. XESM is 24 hr. but I don't think it's them. Listed on 1470 are XECU & XECAV. It's probably XECU, anyone know if they're 24 hr now? (I don't think so, RW, XESM has been hrd by me-RtH). If anyone in the Bay Area hears a SS on 710 in mid-evening o/KMPC/KIRO, it's XEPS Guaymas, Sonore, Mexico. The station is extremely friendly toward DXers, or at least toward me, sending posters, albums, patches, etc, along w/veries. They ID as "R. Amistad", power is 1kw nite, XR located in Empalme, Son. Their phone is 303-40 & 306-19, address: R. Amistad de Sonora, S.A., XEPS, Carr. Costera Internacional, KM. 1968-1969, Empalme, Son., all according to verie. V/s is Herbierto Lizarraga Zatarain, Mgr. 31 days to verie. XETNT 650s current address according to verie is A.P. 965, Los Mochis, Sin., veries in 2 wks. No TP DX in yet, but have heard "whistles" (not necessarily hets) on WLS, XED, KRDU, and WWL on occasion. I suspect XED may be off free slightly. KORL has the most consistant HI. signal here, audible after midnight, but Santa Clara Valley is a poor location f/TP DX, as nothing gets o/the mtns. No DUs to date, even though I've tried and tried. No JJs either. RtH, is KNTA 1430 easily nullable in SF, or KXRX? (KARM buries KNTA at nite, some KROQ u/KXRX, KCBQ thru KLOK, & Oxnard u/KLIV-RtH). 73.

RICK HEALD-1581 20th AVENUE-SAN FRANCISCO, CA. 94122 Ph; (415) 665-4201 to 2200 PLT and ppd. I'M THRILLED TO GET A REPORT FROM NEW ZEALAND!!! Many tnx Alan, and I hope this will encourage other DU members to Forumulize. What Bill is referring to is nothing new. It seems like ever since IRCAs formation, that's been true. IRCA does have heavy membership in the East, but CA. has the largest membership, which could be a partial reason why IRCA seems weighted down in the West. But you're basically right. Support your club(s). And, how 'bout more Forums from you people in the Midwest W of the Mississippi. They're more than welcome here. Enuf said. Was going to DX this last weekend (1/19-22), but a combination of bronchitis, laryngitis, inflamed throat, blocked sinuses, so the doc tells me, kept me in bed. The new KFIA 710 is really a block-buster, a steady 20 o/S/9 on the "frog" day & nite. Hope they don't go NSP for a while, as I want a verie from XEPS. RW, you might try them on SRS, they totally wipe out KIRO/KMPC. No new DX, so I'll shut up, hi. See u in 7. 73 de RtH..

GRAVEYARD RECORDS:

Niel Wolfish 15 Donwoods Grove Toronto ONT M4N 2X4

/1230/

	/1230/		WLF
Call	Location	Miles DXer-Location	WFAS WSHY
MA UD	Auburn AL	891 Kaskey, Galva IA	WFA
WBHP	Huntsville AL Jackson AL	1989 Allen, Vallejo CA 140 Ayers, Jackson MS	WMFF
		749 Robertson, Croswell MI	WISE
KIFW	Tuscaloosa AL Sitka AK	1429 Allen, Vallejo CA	WCB1
KSUN	Bisbee AZ	1107 Kaskey Galva IA	WUBE
	Kingman AZ Phoenix AZ	1350 Eddie, St. Louis MO 1103 Kaskey, Galva IA	WC OI
KATO	Safford AZ	901 Dabelstein, Omaha	WIRO
KINO	Winslow AZ	858 Dabelstein, NE	WCWA KADA
KCON	Conway AR Ft. Smith AR (I)	1654 Allen, Vallejo CA 310 Eddie, St. Louis MO	WBB2
KCFE	Bakersfield CA	2520 Wood, Kailua HI	KVAS
KWTC	Barstow CA	2520 Wood, Kailua HI 2619 Wood, Kailua HI	KRNS
	Bishop CA	785 Portzer, Seattle WA	KRDF
KXO	El Centro CA	2675 Wood, Kailua HI 2352 Wood, Kailua HI	KQI
KDAU	Ft. Bragg CA Los Angeles CA	2525 Wood, Kailua HI	KYJC
KPRL	Paso Robles CA	2525 Wood, Kailua HI 1430 Kaskey, Galva IA	KTDC
	Redding CA	2535 Wood, Kailua HI	WEFX
KWG	Stockton CA	2433 Wood, Kailua HI 797 Allen, Vallejo CA	WKBC
KBRR	Grand Junction Leadville CO	3195 Wood, Kailua HI	WCRO
	Pueblo CO	1133 Kesteven, Edmonton 1196 Wheeler, Erie PA	WBPZ
KGFK	Sterling CO		WTIV WFRI
WINE	Manchester CT	421 Sorensen-Emsdale ON 854 McCormack-IN	WAIM
MAZZ	New Smyrna Beach FL Pensacola FL	828 Cartwright-PA	WOLS
	Quincy FL	697 McCormack-IN	KISE
	Dalton GA	566 Wheeler, Erie PA	WAKI
	Dublin GA	2236 Allen, Vallejo CA 680 Abraham, Bridgeport MI	
	Mariettea GA Savannah GA	728 Winsor, Valparaiso IN	KNUZ
		1072 Kaskey-Galva IA	KFRV
KBAP	Waycross GA Burley ID	570 MuCullogh-San Jose CA 623 Allen, Vallejo CA	KEEF
	Grangeville ID Rexburg ID	665 Allen, Vallejo CA I	KOZA
WUBC	Bloomington IL	475 Wheeler, Erie PA	KGRC
WQUA	Moline IL	331 Braun, Jackson MI 1756 Allen, Vallejo CA	KSST
	Sparta IL	1756 Allen, Vallejo UA	KWTX
	Hammond IN Logansport IN	736 Belanger-Winnipeg 477 Sorensen-Emsdale ON	KOAI
WICJ	Tell City IN	557 Kækey- Galva IA 866 Belanger-Winn. MB	WJOY
MICA	Terre Haute IN	866 Belanger-Winn. MB	WODI
	Marshaltown IA Danville KY	3958 Wood, Kailua HI 2029 Allen, Vallejo CA	WNOR
	Hopkinsville KY	1894 Allen, Vallejo CA 734 Kaksey, Galva IA	KOZI
HLIC	Monroe LA	734 Kaksey, Galva IA	KWYZ KSPC
	New Orleans LA	808 Winsor-Valparaiso IN 868 Kækey, Galva IA	KREW
- KSLU - WITTH	Opelousas LA Baltimore MD	1007 Kaskey, Galva IA	WKYG
WOUM	Cumberland MD	1007 Kaskey, Galva IA 454 Winsor-Valparaiso IN 224 Brown-Ottawa ON	WHBY
WIINB	North Adams MA	224 Brown-Ottawa ON	WCLO
WNFB	Worcester MA	432 Sorensen-Emsdale ON	KVOC
WOUZ	Grand Rapids MI Iron River MI	161 Heimburger, Port Huron 1795 Allen, Vallejo CA	
	Iron River MI Lapeer MI	179 Wheeler, Erie PA	Note
WSCC	Sault Ste. Marie MI	370 Wheeler, Erie PA	call it h
WSTR	Sturgis MI	537 Dabelstein, Omaha NE 406 Dabelstein, Omaha NE	(I)
	Cloquet MN Int. Falls MN	575 Winsor, Valparaiso IN	been
	Mankato MN	gir wheelen Enic PA	Wood
KMRS	Morris MN	352 Markewicz-Camp Norton	Clos
	Thief R. Falls MN	890 Wheeler, Erie PA 594 Wheeler, Erie PA	138
NAME OF THE PARTY	Winona MN	667 Wheeler, Erie PA	Whee
WHSY	Corinth MS Hattiesburg MS	861 Kaskey, Galva IA	havi
W\$30	Starkville MS	664 Wesolowski, Omaha NE	
WAZF	Yazoo City MS	1552 Allen, Vallejo CA 286 Dabelstein, Omaha NE	
REUDI	Joplin MO Lebanon MO	377 Kaskey, Galva IA	
	Moberly MO	377 Kaskey, Galva IA 311 Winsor, Valparaiso IN	
KBMK	Rozeman MT	804 MuCullogh, San Jose CA	
KHDN	Hardin MT	3255 Wood, Kailua HI 808 Allen, Vallejo CA	
PLOP	Lewistown MT Libby MT	859 Markewicz-Camp Norton 1	MB
1.7113	Falls City NE	80 Dabelstein, Omaha NE	
MIAC	Hastings NE	1230 Allen, Vallejo CA	
	Ely NV	1034 Kaskey, Galva IA 2728 Wood, Kailua HI	
1.247	Las Vegas NV Reno NV	1007 Kesteven, Edmonton AB	
WINCU	Berlin NH	227 Brown, Ottawa ON	
W0.10	Wildwood NJ	70 Sundstrom, Willingsbor 3234 Wood, Kailua HI	O NJ
TATE	Alamozordo NM	14 MOOUS RALLUA III	

3234 Wood, Kailua HI

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910 Allen, Vallejo CA
247 Kemper-Grand JunctionCO
1419 Wheeler, Erie PA
1105 Winsor-Valparaiso IN
226 Brown, Ottawa ON
561 Winsor-Valparaiso IN
KOIS Doming NM
 KYVA Gallup NM
 KFUN Las Vegas NM
 KRSY Roswell NM
 WNIA Cheektowaga NY
 WENY Elmira NY
                                                           206 Sorensen-Emsdale ON
 WIGS Gouverneur NY
                                                          280 Cartwright-Johnstown PA
335 Wheeler, Erie PA
764 Brown, Ottawa ON
90 Hall, Greensboro NC
20 Hall, Greensboro NC
WLFH Little Falls NY
WFAS White Plains NY
WSHY Asheville NC
WFAI Fayetteville NC
 WMFR High Point NC
                                                         161 Singer, Richmond VA
410 Wheeler, Erie PA
3496 Wood, Kailua HI
605 Sherman, Rosemount MN
969 Belanger, Winnipeg MB
 WISP Kinston NC
 WCBT Roanoke Rapids NC
 KDIX Dickinson ND
 WUBE Cincinnati OH
 WCOL Columbus OH
                                                       969 Belanger, Winnipeg MB
253 McCormack-W. Lafayette IN
185 Wheeler, Erie PA
1430 Allen, Vallejo CA
1378 Allen, Vallejo CA
2546 Wood, Kailua HI
461 Allen, Vallejo CA
436 Hecker, Saratoga CA
2588 Wood, Kailua HI
 WIRO Ironton OH
 WCWA Toledo OH
 KADA Ada OK
WBBZ Ponca City OK
 KVAS Astoria OR
 KRNS Burns OR
 KOOS Coos Bay OR
                                                        2588 Wood, Kailua HI
2582 Wood, Kailua HI
 KRDR Gresham OR
                                                       2582 Wood, Kailua HI
2469 Wood, Kailua HI
224 Portzer, Seattle WA
784 Kaskey, Galva IA
619 Winsor, Valparaiso IN
541 Winsor, Valparaiso IN
896 Kaskey, Omaha NE
140 Bailey-Williamsville IY
55 Gantzer, Fredonia NY
336 Brown, Cttawa ON
865 Kaskey, Omaha NE
2363 Allen, Vallejo CA
710 Robertson-Croswell IMM
720 Edmunds, Glen Rock NJ
3764 Wood, Kailua HI
15340 Wood, Kailua HI
1635 Allen, Vallejo CA
88 Kuenast, Austin TX
734 Kaskey, Galva IA
3900 Wood, Kailua HI
805 Eddie, St. Louis MO
429 Dabelstein, Lincoln NE
892 Nuthals, Green Bay WI
 KQIK Lakeview OR
 KYJC Medford OR
KTDO Toledo OR
WBVP Beaver Falls PA
WEFX Easton \ PA
WKBO Harrisburg PA
WCRO Johnstown PA
WBPZ Lock Haven PA
WTIV Titusville PA
WFRI Westerly RI
WAIM Anderson SC
WOLS Florence SC
KISD Sioux Falls SD
WAKI McMinnville TN
KSIX Corpus Christi TX
KDLK Del Rio TX
KNUZ Houston TX
KFRV Kerrville TX
KLVT Levelland TX
KFEF Nacogdoches TX
KOZA Odessa TX
KGRO Pampa TX
                                                        892 Nuthals, Green Bay WI
1487 Allen, Vallejo CA
890 Kesteven, Edm nton AB
866 Dabelstein, Omaha NE
304 Sorensen, Emsdale ON
KSST Sulphur Springs TX
KWTX Waco TX
KMOR Murray UT
KOAL Price UT
WJOY Burlington VT
                                                       98 Singer, Richmond VA
292 Wheeler, Erie PA
1092 Kaskey, Galva IA
186 Hardy, Aberdeen WA
679 Allen, Vallejo CA
705 Allen, Vallejo CA
WODI Brookneal VA
WFVA Fredricksburg VA
WNOR Norfolk VA
KOZI Chelan WA
KWYZ Everett WA
KSPO Spokane WA
WKYG Parkersburg WV (WTAP) 398 Edmunds, Red Bank NJ 802 Belanger, Swan R. ME WCLO Janesville WI 930 Kaskey, Bryan TX WXCO Wausau WI 437 Eddie, St. Louis MO
KVOC Casper WY
                                                        1038 Allen, Vallejo CA
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Notes.. (*) denotes station w/call changes, and the call call when the station was heard is in brackets. For WEYG it has been heard by Keheler in Ft. Wayne IN at 270 miles it has been heard by Keheler in Ft. Wayne IN at 270 miles (I) is a station heard by Wood in Kailua HI which has now been replaced by a 'domestic' record. There are several Wood loggings that should be changed, so send yours in. Best catch (excluding HI)... WOLS in Florence SC by Allen. Closest catch...WMFR High Point NC by Hall in SC. Of the 138 stations, Allen has records for 23, Wood-20, Kaskey-19 Wheeler-13, Winsor-9, Dabelstein-8 and Brown-5, with many having records for 4 or less....73's de niel





GREYCOTE, INC. Box 156 Ripon, Wisconsin 54971

122 LYON STFEET. N.W. Grand rapids, Michigan 49502

MALS Alamogordo NM



ELLIOT STRAUS Editor

770

825

830

854

880

890

900

925

(Thomas-Fl.)

500 taka 600 600 600 600 600 600 600 600 6 All times GMT/UTC Deadline Tuesdays

Box 168 Red Bank, N.J. 07701 201-736-1681, M-F 18-2200 Wed. 10-2200

Not such a big column this week but a couple of special features I know you'll find interesting. Let's see

TRANS-ATLANTIC

SENEGAL Dakar 2343 Jan 05, gud on TRF w/AA preaching. 2244 Jan 06, fair to gud w/male chants during semi-AUCX. (Comnelly-Ma.)

MOROCCO Rabat 0005 Jan 03, w/male AA vocal to fair peaks o/bad 818 TVI. (Connelly-Ma.)

MOROCCO Sebaa-Ai'oun 0124 Jan 03, w/potent OC, audio from 2nd sta. prog. German. (Connelly-Ma.)

GUINEA Connery 2252 Jan 06, poor w/YL vocal, heavy slop. (Connelly-Ma.) 2220 Jan 10, FF OM tx, getting better, poss. nx. (Straus-NJ)

W.GERMANY Saarbrücken 0140 Jan 03, poor in slop w/bits of mx, mostly a loud het on WESM(Connelly) 1044

PAN-AMERICAN

527.5 COSTA RICA Cartago, TICAL, 0807 Jan 08, weak but steady w/monotonous LA mx. (Everitt-Ok.)
552.4 UNID, 0408 Jan 03, w/romantica mx. gud audio but no ID before 0445 fade. TI poss. (Thomas-Fl.)
574 EL SALVADOR 0600 Jan 06, audio in/out almost nightly around 0600. noted s/off @ 0630 w/ EL SAL NA, but on past 0700 Jan 07, w/R.Nacional & R.Cadena Central slogs. no call or city yet. (Thomas-Fl.)

(Thomas-Fl.)

COSTA RICA San Jose, 0510 Jan 03, better than usual, w/cla. mx. (Thomas-Fl.) 0535 Jan 08, R.Nacional, xlnt sig. w/cla. mx, long SS anmt, more cla. at 0535. (Everitt-Ok.)

UNID, 0930 Jan 01, in/out w/rythmic LA mx @ 0240 Jan 04, rough loop HC, no ID. (Thomas-Fl.)

UNID, 0518 Jan 03, vy weak LA here. checked for SW/on 4910.5 but no gud. (Thomas-Fl.)

COSTA RICA SanJose, TIJC, 0530 Jan 03, gud w/operatic SS male. (Thomas-Fl.) 0542 Jan 08, LA mx, 0547 w/ R.Cucu ID by hi-voiced OM foll. by 2 cuckoos. (Everitt-Ok.)

UNID, 0615 Dec 31, week carr. w/snatches of LA mx in lulls of slop. (Everitt-Ok.)

UNID, 0853 Jan 03, gud sig. 600 hz. high on Cuban, CMQ was 30db stronger using 1 khz. mech. filter. (Everitt-Ok.)

UNID, 0850 Jan Jose, TIBAS, 0729 Jan 08, gud sig. w/LA mx & only slight co-channel QRM. poss. R.Monumental ment. not clear. (Everitt)

675

poss. R. Monumental ment. not clear. (Everitt)

GUATEMALA Guat.City, TGRT, 0056 Jan 03, vy gud

W/WMAQ gone in AUCX, SS tx, incl. La Emisora
(something) en Guatemala', 0143 retune xlnt,

W/SS c&w mx, promo. (Everitt-Ok.)

COSTA RICA San Jose, TICN, 0551 Jan 08, vy

gud w/SS MoR & LA mx, w/Sonora ments. during
and after songs. (Everitt-Ok.)

MEXICO Chihuahua, XEFO, was my Mex. of Dec 15,
not XEKC as orig. suspected. Slogan was R. Sensacion
This per Matthew Shugart who hrd same s/on
but w/better sig. (Portzer-Wa.) 680

but w/better sig. (Portzer-Wa.)

COLOMBIA Bogota, HJCZ, 0604 Jan 01, briefly
atop the Cuban in WTIX null w/LV de Colom. ID's. (Thomas-Fl.)

700

COSTA RICA San Jose, TIHB, 0815 Jan 07, w/SS MOR vocals, faded. (Tomer-Ca.)
UNID, 0550 Jan 01, a R.Festival ID (marked by bells), weak u/WLW. nothing else. (Thomas-Fl.)
(maybe YNSC ?-ed.) 700

(maybe YNSC ?-ed.)

700 t GUATEMALA Guat.City, TGHR, 0138 Jan 03, poss.

W/extended SS tx & marimba mx. foll by poss.

Mundial ment. altho latter is not clear on tape. Guat. seems likely. (Everitt-Ok.)

725 COSTA RICA San Jose, TILX, 0135 Jan 03, xlnt,

W/well-mod. LA mx. seems closer to 725 than in past, fairly close SAHs between them & SRS

past, fairly close SAHs between them & SAS
are more common now. (Everitt-Ok.)

735 t ECUADOR Quito, HCGC1, 0556 Jan 08, most likely
the sta. w/well-mod. mx,drums.(Everitt-Ok.)

EL SALVADOR YSKL net, 0242 Jan 03, fair w/SS
pop mx // 770. also 0601 Jan 08, w/R. KL,
long fanfare, carr. cut. lasted 20 sec. longer
on 770. (Everitt-Ok.)

EL SALVADOR San Sal., YSKL, 0243 Jan 03, // to 765, 0601 Jan 08 also. (Everitt-Ok.)
COSTA RICA San Jose, TIOS, 0545 Jan 03, w/slow SS vocal, 'Titania' ID. (Tomer-Ca.) SS vocal, 'Titania' ID. (Tomer-Ca.)

MEXICO Culiacan, Sin., XEVQ, gud w/WCCO down in AUCX, w/LA & ranchera mx, loud 'VQ' anmats.

Belize slop. WCCO soon dominates. (Everitt-Ok.)

PERU Lima, OAX4A, 0610 Jan 08, pres. the one w/Andean flute mx, but unfortunately they don't give their ID in flute. (Everitt-Ok.)

GUATEMALA Guat. City, TGW, 0400 Jan 06, w/SS tx & Nuevo Mundo ID. (Tomer-Ca.)

COLOMBIA Bogota, HJCE, 0725 Jan 07, w/chimes & ID, then SS vocal, no WLS. (Tomer-Ca.)

HAITI 0640 Jan 01, pres. by DF to Hispanola w/FF, 4VRMN s/off list. 0600 so 4VB (Thomas)

BARRADOES Bridgetown, CBC, 2310 Jan 11, nx in prog. by OM/YL in/out, gud on peaks, hy Canadian interference. (Straus-NJ)

GUATEMALA San Pedro Carcha, TGJL, 0420 Jan 01, 395 t GUATEMALA San Pedro Carcha, TGJL, 0420 Jan 01, R. Imperial fair w/SS OM, LA mx & freq. ID's

RADIO HABANA CUBA

COLOMBIA Maganque, HJHN, 2325 Jan 11, xlnt w/lite instr. mx. 'Sutatenza' ID. (Straus-NJ)
COLOMBIA Neiva, HJJR, 0640 Jan 02, in lighter
than usual KTOK slop, w/old sounding LA mx
gud mod-level. (Everitt-Ok.) 0840 Jan 05, 960 1005

/SS vocal. (Tomer-Ca.) MEXICO Torreon, Coah., XEVK, 0054 Jan 06, mult. ments. of Torreon, R.Felicidad ID's by OM. (Everitt-Ok.) 1010

by OM. (Everitt-Ok.)

1020 COLOMBIA Monteria, HJZD, 0234 Dec 31, gud w/SS
tx, sev. ments. of R.Panzenu, LA mx, KDKA gone
in AUCX, (Everitt-Ok.)

1020 UNID, 0327 Jan 04, someone bombing away w/SS
sports event, ann'r & crowd noises, no ID on
hr. prob. YVRS, or HJZD. (Everitt-Ok.)

1035 HATTI Cap Haitien, 4VEC, 2347 Jan 06, vy gud
to xInt w/EE rel tx, mx. (Everitt-Ok.)

1040.4 UNID, 0159 Jan 03, 400 hz. het on high side
of WHO, no audio altho WHO weaker than usual.
150 hz. het noted 0100 Jan 06. (Everitt-Ok.)

1055t COLOMBIA El Espinal, HJFZ, 0451 Jan 08, prob.
the sta. w/fair carr. and occ. snatches of SS
mx in hy KEG 1050 slop. (Everitt-Ok.)

1059v CUBA 0430 Dec 31, low-mod SS YL w/mod LA mx,

1059v CURA 0430 Dec 31, low-mod SS YL w/mod LA mx, hetting WNOE 1060, DF & revolucionario ment. suggest CM. don't know if Encyclopedia has drifted down or this is the never-hrd R.
Revolucion (CMKB-1059nf). (Thomas-Fl.)
0457 Jan 08, CMKG Baracoa, throwing raucous
het (700 hz.) on low side of WNOE/XEEP
carrier cut 0459:30. (Everitt-Ok.)
1100t COLOMBIA Bogota, HJCN, 0152 Jan 04, prob.
the one briefly o/others w/SS anmts, 'musica
..R. Reloj'. poss. HJAT. (Everitt-Ok.)
1110 VENEZUELA Carupano, YVQT, 2250 Jan 10, much
SS OM screaming, R.C. ID, fqy. given 2256,
also SW fqy. (Straus-NJ)
1124.6 COSTA RICA San Jose, TISRHB, 0632 Jan 02,
US pops, audio qual. improving lately on this,
semms to have settled into EE/SS pop/rock drifted down or this is the never-hrd R.

semms to have settled into EE/SS pop/rock

semms to have settled into EE/SS pop/rock format. (Everitt-Ok.)

COLOMBIA Bogota, HJAC, 2353 Jan 03, prob. the HJ here briefly atop WNEW w/many Bogota ments. midband LA's bulldozing domestics, but I didn't have time to 'milk' the opening. (Connelly-Ma.)

COLOMBIA Barranquilla, HJBL, 2345 Jan 05, R. Aeropuerto up to gud peaks w/LA mx, then R.A. ID by YL. (Connelly-Ma.)

ANTIGUA St.John's. CRL. 2339 Jan 05, fair w/

ANTIGUA St. John's, CRL, 2339 Jan 05, fair w/radio drama, o/under TVI, WHUE slop (Connelly) 2353 Jan 06, EE/SS rel tx. poss. lang. lesson

(Everitt-Ok.)

1170.2 UNID, 0310 Jan 03, gud sized 200 hz. het on high side of KVOO, snatches of SS tx, low-voice OM. (Everitt-Ok.)

VENEZUELA Caracas, YVOZ, 0848 Jan 08, fair w/soft romantica mx, little co-channel QRM, 'Radiotiempo' ment, (Everitt-Ok.) 1200

1205

CAYMAN ISLDS Georgetown, 0038 Jan 03, fairgud w/EE rel tx. nowhere near as gud as 1555,
an every night reg. here. (Everitt-Ok.)
VENEZUELA Coro, YVMN, 0255 Jan 03, ads, ments.
of Coro, mix w/TGMX, others. also 0337 Jan 04,
clear 'R.Coro' ID. (Everitt-Ok.)
2335 Jan 05 1210 2335 Jan 05, to xint peaks, ads for Coro bus-inesses, vy gud LACX. (Connelly-Ma.)

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GUATEMALA Guat. City, TGMX, 0602 Jan 02, w/
TR.Rumbos' ID. also 0302 Jan 03, mix w/YVMN,
SS mx, jx, Rumbos ID. (Everitt-Ok.)
ST.PIERRE et MIQUELON, 0100 Jan 03, w/cla. mx.
Ioud. (Connelly-Ma.) 2315 Jan 16, w/EE pop
vocals, FF OM/YL tx, FF vocals. xlnt (Straus)
DOM.REP. Santiago, HISC, 2335-50 Jan 11, w/
WAWZ Zarepath. N.J. also in SS at this
                                                                                                                                                                                                                                 Report from Okinawa: submitted by Mike Hardester
1210
                                                                                                                                                                                                                               The following observations were made by Mike from Okinawa, Nov 23 to Dec 13, 1978. Due to the size the second part will conclude next week. Abbreviations used: *= 9khz. plan freq., //= parallel freqs., @=at, FEN=Far East Net, KES= Korean Bdcstg Sys., lang.=unid lang., PRC= People's Rep. of China, ROC=Rep. of China, ROP= Phillipines
1375
1380
                           ID. WAWZ Zarepath, N.J. also in SS at this
                           time. (Straus-NJ)
                         HAITI Port-au-Prince, 4VS, 0720-0830 (date/?) fair w/isl type merengues, looped Hispanola but YL lang. unid. (Thomas-FL.) (Gerry, I hear the same stuff every night after WBNX off at 2300. must be 4VS.-ed.)
                                                                                                                                                                                                                                                                           NHK-1 only sta. on fqy. when audible
                                                                                                                                                                                                                                                                         which is only stated in Tqy, when addition unid JJ state

NHK-1 dom. Moscow IS noted occasionally -
KBS w/KK 0900-1000, EE 1000-1030, FF

1030-1100, SS? 1100-1130, EE 1130-1200,
KK 1200-1230, // 2510 1230-1430.

KES // 2510 in KK
1385t
                                                                                                                                                                                                                                *540 khz.
                                                                                                                                                                                                                                *549 khz.
*558 khz.
                           UNID, 2256-2300 Jan 06, SS mx,tx o/domestics
                                                                                                                                                                                                                               *567 khz.
*576 khz.
*585 khz.
*590 khz.
*594 khz.
                             (Connelly-Ma.)
(Connelly-Ma.)

1505 t ANGUILLA, The Valley, prob. the one w/big carrallways during good LACX, precious little audio, meas. 1505.021 can anyone confirm meas. (Straus)

1540 EAHAMAS Nassau, ZNS, 2307 Jan 06, u/WFTR, soul/reggae mx, OM caribbean EE ann'r. (Connelly-Ma.)

1555 CAYMAN ISLDS Georgetown, 2308 Jan 06, fair w/OM in EE. (Connelly-Ma.)
                                                                                                                                                                                                                                                                           NHK-1
                                                                                                                                                                                                                                                                           unid CC sta. gone by 1400.
unid CC sta. looped toward ROC.
                                                                                                                                                                                                                                                                          unid CC sta. looped toward ROC.
PRC //3360 dominates, occ. JJ @1300.
unid carrier, occ. aud. loops N-S.
unid CC sta. loops toward ROC
KES //558 khz., poss. EE @ 1330, also 558.
NHK-1 dom. w/occ. mix w/CC sta.
KES // 2510
KES // 2510 0900-1100, PRC // 4250 1100-
1130. then many CC/KK stas. in jumble.
NK (N.Korea) // 3015 dominates
jumble of CC,JJ,KK stas. no def. ID
local FEN sta. dominant
NK // 3320 dominant
jumble of CC,JJ,KK stas.
unid CC sta. loops ROC
NHK-1 dom., PRC // 4035 noted occ.@ 1030.
NHK-1 dominant
                                                                                                                                                                                                                                      596 khz.
                                                                                                                                                                                                                                      600 khz.
                                                                                                                                                                                                                                 *603 khz.
*612 khz.
                                                                                                                                                                                                                                   #621 khz.
                                                                                                                                                                                                                                   *630 khz.
  TRANS-PACIFIC
                          SOCIETY ISLDS Papeete, Tahiti, 0416 Dec 26, gud sig. o/KCBS slop. tx in Poly. lang. RTH says Tahitian this time; FF after 0600. also 0845 Jan 07, late Sat. nite sched. (Tomer-Ca.) UNID, 0750 Jan 06, DU w/EE vocals, prob. 1YA vy weak. (Tomer-Ca.)
GILBERT ISLDS Tarewa, 0620 Jan 06, xlnt sig. w/comedy. (Tomer-Ca.)
AUSTRALIA Brisbane, 4BH, 0942 Jan 05, w/ezl mx. '4BH' ID. (Tomer-Ca.)
NEW ZEALAND Auckland, 1YC, 0847 Jan 05, w/quiet piano mx // to and weaker than 2YC 657. (Tomer-Ca.)
FIJI Lautoka, 0810 Jan 05, w/Hindi tx. also
                                                                                                                                                                                                                                 635 khz.
#639 khz.
#648 khz.
  738
                                                                                                                                                                                                                                   655 khz.
*657 khz.
660 khz.
  756
                                                                                                                                                                                                                                   *666 khz.
*675 khz.
*684 khz.
                                                                                                                                                                                                                                                                             NHK-1 dominant
                                                                                                                                                                                                                                                                            NHK-1 dom. w/occ. CC sta. noted

NK // 3320

unid w/EE @ 1100 loops ROC & // 700.

NHK-2 dom. occ. PRC //3360 and KBS //
   882
                                                                                                                                                                                                                                       687 khz.
                                                                                                                                                                                                                                       690 khz.
   882
                                                                                                                                                                                                                                                                            NHK-2 dom. occ. PRC //3360 and KBS //558 also noted.
unid w/EE @ 1100 loops ROC & //690.
occ. PRC //3360, otherwise silent fqy.
KBS //2510
unid. occ. CC sta. loop bear. not def.
NK // 2850 exc. 1300 when // 3320.
PRC // 3220 once @ 1130. otherwise silent occ. weak KK sta., local 738 too strong
JORR covers 733-743 khz. w/slop
unid. 740v. poss. KK or CC
                                                                                                                                                                                                                                   *693 khz.
                             FIJI Lautoka, 0810 Jan 05, w/Hindi tr. also 0904 Jan 06, w/Hindi pop mx, Hindi YL DJ, phenominal ultra-loud. (Tomer-Ca.)
                                                                                                                                                                                                                                        700 khz.
    891
                                                                                                                                                                                                                                   *702 khz.
                                                                                                                                                                                                                                   *711 khz.
*720 khz.
725 khz.
                             pnenominal ultra-loud. (Tomer-ca.)

NEW ZEALAND Tauranga, 1ZD, 0825 Jan 05, w/
Olivia N-J song // to 2ZB 1035. (Tomer-Ca.)

TONGA Nuku alofa, A3Z, 0840 Jan 05, xlnt sig.
w/ezl mx. also gud 0727 Jan 06. w/native YL

tx. (Tomer-Ca.)

UNID, 0928-33 Jan 05, DU, weak EE pops, DU
accented EE ann'r. not Solomons as they had
1008
                                                                                                                                                                                                                                    *729 khz.
735 khz.
*738 khz.
1017
                                                                                                                                                                                                                                                                              unid. 740v. poss. KK or CC
KBS // 2510
                                                                                                                                                                                                                                    740 khz.
*747 khz.
*756 khz.
1026
                             accented EE ann'r. not Solomons as they had native pgm. at this time. (Tomer-Ca,) SOLOMON ISLDS Honiara, VQO, 1002 Jan 05, loud W/native mx // 5020 SW. (Tomer-Ca.)

NEW ZEALAND Wellington, 2ZB, 0831 Jan 05, W/pop mx. weak w/nx 0805 Jan 06. (Tomer-Ca.)

NEW ZEALAND Dunedin, 4ZB, 0842 Jan 05, weak W/race results // 1008,1035. 1st time hrd in 3 yrs. thanks to fqy. change. (Tomer-Ca.)

UNID, 0702 Jan 06, nice carr. but no audio hrd. Fiji? (Tomer-Ca.)

HAWAII Honolulu. KZOO. 0700 Jan 06. W/JJ YL.
                                                                                                                                                                                                                                                                              unid. occ. weak CC loops PRC, no // noted
                                                                                                                                                                                                                                                                            unid. occ. Weak Ct loops FRC, No // Nocarr. loops ROC
KRS // 2510 dom. occ. JJ noted.
unid. sta. noted w/weak JJ.
local JOXR dom. sig. cleaner than JORR
NK // 2850 occ. sometimes no //.
PRC // 3360 occ. o/wise silent fqy.
NK // 3320, tho has varied,// @ 1300=
2850 or 3320. varies to 800.5 khz.
altho a 9 khz. free. only NK above has
                                                                                                                                                                                                                                        760 khz.
 1026
                                                                                                                                                                                                                                    *765 khz.
*774 khz.
 1035
                                                                                                                                                                                                                                    *783 khz.
                                                                                                                                                                                                                                     785 khz.
 1044
                                                                                                                                                                                                                                        800 khz.
                                                                                                                                                                                                                                                                            altho a 9 khz. freq. only NK above has been noted, no hets indicated. NK // 2850 sporadically noted. static dom. this frq. tho PRC // 2476 noted @ 1100, occ. FEN-Tokyo. some JJ noted, o/wise silent freq. NHK-2 dominates. PRC // 3950 (at times), occ. KK noted without SW // noted. mix of CC.KK loops eastward.
  1206
                                                                                                                                                                                                                              *801
                                                                                                                                                                                                                                                        khz.
                              hrd. Fiji? (Tomer-Ca.)

HAWAII Honclulu, KZOO, 0700 Jan 06, w/JJ YL,
then 'K-Zoo', fanfare,legal ID. (Tomer-Ca.)

UNID, 0907 Jan 06, weak carr. DU loop, maybe

Fiji. (Tomer-Ca.)

HAWAII Honclulu, KUMU, 1000 Jan 08, f-good

w/bfl mx. 'Koo-moo, AM 1-50' ID, & nx 1000.

o/weak domestics QHM. KXRX off. (Portzer-Wa.)

SOUTH KOREA Cheju Isl., HLDA, 1000 Jan 08,

weak carr. poss. (Everitt-Ok.)
  1210
                                                                                                                                                                                                                                 808
                                                                                                                                                                                                                                                        khz.
                                                                                                                                                                                                                              9810
                                                                                                                                                                                                                                                        khz.
  1323
                                                                                                                                                                                                                               #819
                                                                                                                                                                                                                                                         khz.
  1500
                                                                                                                                                                                                                              #828
                                                                                                                                                                                                                                                         khz.
                                                                                                                                                                                                                              *837
                                                                                                                                                                                                                                                        khz.
                                                                                                                                                                                                                                                                              without SW // noted.
mix of CC, KK loops eastward.
PRC // 3360.
NK dom. // 3320, the noted @ 1300
// 3031 or 2850 on diff. dates.
CC & JJ stas. mix no //'s noted.
NK occ. noted // 2850.
KES // 2510.
NHK-2
unid. CC stal loops BCC
  1566 t
                                                                                                                                                                                                                                  840
                                                                                                                                                                                                                               *846
                                                                                                                                                                                                                                                         khz.
                                                                                                                                                                                                                                 850
                                                                                                                                                                                                                                                         khz.
  Contributors:
                                                                                                                                                                                                                               *855
860
                                                                                                                                                                                                                                                         khz.
                                                       52 Amsden St. Arlington, Ma. 02174
R-390A/URR, TRF, SM-2
2700 N.Van Buren, #2, Enid, Ok. 73701
                                                                                                                                                                                                                                                         khz.
   Mark CONNELLY
                                                                                                                                                                                                                               *864
                                                                                                                                                                                                                                                         khz.
                                                                                                                                                                                                                               *873
                                                                                                                                                                                                                                                         khz.
  Doug EVERITT 2700 N. Van Buren, #2, Enid, Ok. 73701
R-390A/URR, R. West loop
Bruce PORTZER 6546 19th Ave. N.E. Seattle, Wa. 98115
HQ-180A, 4° box loop
Gerry THOMAS 2355 W. Mich. Ave. #460, Pensacola, Fl.
FRG-7, dig. r/o, loop. 32506
Randy TOMER Box 2674 McKinleyville, Ca. 95521
                                                                                                                                                                                                                                                                               unid. CC sta. loops ROC

KBS // 2510 dom., tho PRC // 2340 @

1100 and PRC // 3920 @ 1200 noted.

KBS // 2510.
    Doug EVERITT
                                                                                                                                                                                                                                   880
                                                                                                                                                                                                                               *882
                                                                                                                                                                                                                                                         khz.
                                                                                                                                                                                                                               *891
                                                                                                                                                                                                                                                         khz.
                                                                                                                                                                                                                                                                                unid. stas. in CC, KK mix w/no //'s.
                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                         khz.
                                                                                                                                                                                                                               #909
                                                                                                                                                                                                                                                                                occ. carr. poss. audio in KK, tent. KBS // 2510
                                                                                                                                                                                                                                   910
                                                                                                                                                                                                                                                         khz.
                                                         HQ-180A 670' mini-bev.
                                                                                                                                                                                                                               *918
920
                                                                                                                                                                                                                                                         khz.
    FRG-7, R. West loop.

Elliot STRAUS ed. 27 Devon Dr. West Orange, N.J. 07052

R-390A/URR, HP-524B, FET Altaz loop.
                                                                                                                                                                                                                                                                                unid. carrier loops ROC.

KBS // 2510 dom. and PRC // 3220.

NHK-1 dom. KBS // 2510 noted often.
                                                                                                                                                                                                                                                         khz.
                                                                                                                                                                                                                                #936
                                                                                                                                                                                                                                                          khz.
```

*****945

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unid. CC loops ROC, but very strong sig. not indicative of ROC sta. PRC // 3400, PRC // 3360 @ 1300. unid. loops ROC w/CC.

NHK-1, and KBS // 2510 mix here.

KBS // 6135.

PRC // 3220 @ 1200, o/wise not hrd.

NHK-1 dom. occ. weak CC noted.

unid. carrier loops N-S.

weak KK sta. occ. noted.

NK // 2850.

PRC noted w/no regularity // 3200
                                                                                                                                                       1420 IA. WOC at ? wtr,ID,sports,QRM.
1430t CAL. KARM at 0912 poss. w/slog. 1-43 KA
KELI in too. def. not KALI.
1440 CAL. KPRO at 0816 w/contest promo mix w/
   950
                  khz.
                   khz.
   960
                                                                                                                                                                        KUHL, KEYS.

CAL. KVEN at 0813 w/tx pgm.many u/neath.

IA. KSO at 0625 ID, also T40 u/neath.

MN. KSTP at 0607 w/contest, wtr mx, gud
*963
*972
                   khz.
                  khz.
*981
                                                                                                                                                        1460
                   khz.
 *990
                                                                                                                                                        1500
                                                                                                                                                                        o/KUMU and. poss. XERH.

ORE. KYXI at 1430 ID, Mut. nx.

CAL. KACY at 1457 ID, nx,K-Cee 1-52.

N.D. KQWB at 0625 ID, wtr for Fargo mix w/
   995
                                                                                                                                                        1520
#999
                   khz.
                                                                                                                                                        1520
   1000
                   khz.
                                   PRC noted w/no regularity // 3200, 3360, 4380, various dates/times.
                                                                                                                                                        1550
 *1008
                   khz.
                                                                                                                                                                                      KKHI, KRGO, KGAR.
                                   3360, 4380, various dates/times. CC sta. looping ROC.
NHK-2, occ. EE # 1330 not // other
NHK-2 outlets, may be new sta.
unid. CC sta. loops ROC.
KBS // 2510.
unid. CC sta. loops ROC.
KBS // 2510, 0900-1030, PRC // 4800 @
1100-1300. CC/JJ stas. mix till past 1500.
PRC WOO MW or SW // s noted.
                                                                                                                                                                       LA. KLOU at 0859 w/ID thru KDAY OC dur. MM SP. jx ID, T40.

MO. KATZ at 0700 xlnt atomated soul mx,ID.

IA. KCRG at 0900 T40, ID. poor.

FLA. WOKB at 1000 s/on after MM SP. full ID.
                                                                                                                                                        1580
    1010
 *1017
                   khz.
                                                                                                                                                        1600
                                                                                                                                                         1600
   1020
                   khz.
                                                                                                                                                         1600
 *1026
                   khz.
                                                                                                                                                                       CAL. KUBA at 1500 ID,nx, c&w.
ORE. KASH at 1500 U,KURA no nx on hr.
CAL. KWOW at 0957 ID, no anns. OC. test?
UT. KBEX at 1330 Gos.mx, ID. list day-only?
    1030
                                                                                                                                                        1600
                    khz.
 *1035
                                                                                                                                                        1600
                                                                                                                                                        1600
    1040
                                    PRC w/no MW or SW //'s noted.
                   khz.
                                                                                                                                                        1600
                                    no aud. sig. but carr. detected at times occ. carr. diff. dates, bearings, stas.
 *1044
                    khz.
    1050
                    khz.
                                    JJ lang. sta. loops Japan mainland. unid. only 1300 w/EE weak, no ID.
                                                                                                                                                        Randy Tomer: As you probably know now, Cook Islds. are on 630 ex 600 w/10kw.

Art Peterson: Your DU/SEA on 558, if Aust. would be 4GY rather than 6WA. 4GY w/5kw.has a
 #1053
                    khz.
    1060
                   khz.
 The rest of Mike's report as well as his notes will
                                                                                                                                                        major lobe to west & thunders into NZ.
Your 846 Dec 3 @1425 would not be 2CY as
they s/off 1400 due to daylight time.
Nick Hall-Patch: 5CK-639 does give time pips on the
thr. noted last night at 1100, anning.
  appear next week. Now to John Allchin's report from
  New Zealand.
 Report from New Zealand: John Allchin
 John's loggings from Te Araroa on the east coast of N.Z.'s North Island, using Sony ICF6800W w/1900' bev. running N/NE from Nov 20-28.
                                                                                                                                                        Eastern Summer Time. Gives S.Aust TC at 1110, then 5 min. S.Aust. nx.

Gene Martin: 1YC &2YC off at 1100 at pres., not 1000 as you suggest. s/off 1200 when not DST.

WVUV remains on 1120, format of 2RE-1557
                 TEX. KTSA at 1147 w/T40, fair thru KMVI o/c. CAL. KLAC at 0814 w/jx ID, 2YA splatter. CAL. KMJ at 0805 w/jx ID, o/WIEW, NBC nx. IDA. KFXD at 1046-1130, unid. QBMu/it. CAL. KOGO at 0825 mix w/CJOR, MoR mx. MO. WDAF at 1001 above KFRC and 4QR-639. ARI. KTAR at 0846 w/net tx pgm. KGW noted
  550
570
                                                                                                                                                        is mainly T40.

Colin Newell: Tonga-1017 does have ABC nx 0700, then local nx, wtr in EE, back to Tongan 0715.
   580
  600
  610
                                                                                                                                                        John, I wish I could hear 1 of the above stas. from here
  620
                  ARI. KTAR at 0846 w/net tx pgm. KGW noted earlier at 0809.

CAL. KFI at 0810 blasting in. het 4YW.

TN. WSM at 0800 ID, no KORL.

NY WNEC at 1057 after 2YC s/off, faded quik
ILL. WMAQ at 0705 past 0800 later KBOI dom.

B.C. CEU at 0746 w/EZL mx.

ILL. WGN at 0605 w/KUAI & 4YZ, soon faded.

TEX. KTRH at 1100 ID, w/KRMG s/on under.

Tabiti off.
                                                                                                                                                        on the U.S. east coast. Thanks for an excellent report,
                                                                                                                                                        let's go fellas and help John out on some of the above
  650
                                                                                                                                                        questions he has.
  670
   690
                                                                                                                                                                                                                                                 Father Jack Pejza, Ed.
                                                                                                                                                                                                                                               212 S.Carpenter Rd.
Modesto, CA 95350
   720
   740
                  TEX. KTHH at 1100 1D, W/KHMG S/on under.
Tahiti off.

CAL. KFMB at ? tx pgm, ads.
ILL. WBEM at 0600 all nx to past 1230.
MN. WCCO at 0605 w/CBS nx, wtr.
KY. WHAS at 0756 bet. 2ZD,1YX/1YK, T40.
MEX. XEMO at 0915 w/off cla.mx, rel.
KAN. KOAM at 0928 clear after XEMO s/off.
                                                                                                                                                                                                                                                 209-524-6674
   760
  780
830
                                                                                                                                                       TRANS-ATLANTIC
                                                                                                                                                       Because all of the changes of November 23 are now reaching
   840
                                                                                                                                                        the club bulletins, I have chosen to present the TA section
   860
                                                                                                                                                        this week in sequential order rather than by country. I am
   860
                                                                                                                                                       probably going to duplicate some material which is in the IRCA
Foreign Log VII; pgs. 23-28, but that's the breaks of the game.
                  NY. WCBS at 0738 W/all nx, ID.

ARK. KARN at 0621 W/EZL mx, ID.

CAL. KHJ at 0804 ID, ads, 93-KHJ ID.

WA. KJR at ? o/KPUA 97-K-Y-T-E.
   880
   920
                                                                                                                                                                    \frac{\textit{West Germany}}{500~\textit{kw later}}, Donebach, 250 kw, will be increased to
   930
   950
                                                                                                                                                                     Turkey, Ankara 150 kw. (MWN 12/78)
   970
                  OHE. KYTE at ? O/KPUA 9/-K-1-1-1-8.

B.C. CKNW at 0814 NW wtr, ads.

PA. KDKA at 0557 pre KTNQ f/in. sports.

IA. WHO at 0628 fair, KPOI after 0700.

CAL. KNX at 0600 strongest U.S. sta. sig.

so strong you could see it! (sounds
                                                                                                                                                                     Germany, East, Oranienburg, carries the Voice of the DDR. (SCDX 12/5) 750 km. (MWN 12/78)
   980
   1020
                                                                                                                                                                     Spæin, Madrid, Radio Nacional de Espana, 1000 kw (Arctic)
   1040
                                                                                                                                                                    Turkey, Estimesgut, 200 kw. (MWN 12/78)
U.K., Radio 4. (SCDX 12/5)
                                                                                                                                                        200
                  so strong you could see lti.(Sounds like WOR here-ed.)

LA. KWKH at 0830 c&w, 'Arklatex' wtr.

NY. WHAM at 0654 c&w, ID.

OK. KGYN at 1205-1230 c&w, farm nx.

CAL. KFYV at 1230 many ID's, over others.

CAL. KMEN at 1122 ID, ads. K-MEN ID.

WA. KMPS at 1112 ID, ads. T40 sta. u/it.
                                                                                                                                                                     Germany, West, Deutschlandfunk. Munchen, 20 kw, will be increased to 500/250 kw later. (Arctic 12/5)
   1130
                                                                                                                                                                     Spain, Barcelona(800 kw), Bilbao (400 kw), Linares (400)
Lugo (200), all Radio Nacional de Espana (Arctic 12/5)
   1180
                                                                                                                                                                     Turkey, Ezerum, 200 kw. (MWN 12/78)
    1280
                                                                                                                                                                     Algeria, Tipaza, 1500 kw French Net. 0500-1700 and 750 kw 1700-0500. (MWN 12/78)
    1290
    1300
                                 maybe KYNO.
                                                                                                                                                                     Finland, Lahti, 200 kw, Finnish pgm. (SCDX 12/5)
                   CAL. KGE at 0640 many ads, ID's.
CAL. KEEN at 0740 dom. freq. ID's, UPI nx.
GA. WAOK at 1022 ads, ID. KTOM off w/MM SP
cla/EZL mx u/WAOK-who could this be?
                                                                                                                                                                     Czechoslovakia, Topolna, 1500 kw became fully operational on 11/15. CSSR built the transmitter, but the USSR designed the aerial system. (Arctic 12/5)
    1360
    1370
    1380
                                                                                                                                                                    USSR designed the aerial system. (Aratic 12/5)
Germany, West, Hof and Wurzburg remain here but
Passau is now on VHF. (MWN 12/78)
Ireland, Tullamore, RTF 1, 500 km. (SCDX 12/5)
Germany, East, Leipzig and Greifswald, DDR 1 (SCDX 12/5),
Radio DDR Messewelle, Leipzig is not quite sure whether
they will use 531 because it has too good coverage. Pos-
    1390 ORE. KSLM at 1030-1100 ETing request reports.
1400t NEV. KVEG at ? adv. for car dealer, promo for Vegas stickers, can anyone confirm?
1400 UNID. hrd 'IT's 5:30 stand. time' then K_O, sounded like KPMO or KTMO pretty sure
                                    abt. K and O. s/on 1152 GMT faded into GY mud. who would s/on this time? HELP! hrd at 1152 yet announced 5:30.
                                                                                                                                                                      sibly they will use the old 10 kw transmitter from 529
                                                                                                                                                                      on 558. (Arctic 12/5)
                                                                                                                                                                    on soc. (Arctic 12/5)
Switzerland, s/off 1800 ex 529. (MWN 12/78)
Israel, Network C. (Arctic 12/5)
Algeria, Ain Beida, 600 km, 24 hours, Arabic net.(MWN)
Finland, Oulu, 10 km, Finnish pgm. (SCDX 12/5)
Ireland, Connemara, Radio Na Gaeltachta.(SCDX 12/5)
Carrace 2 km. (MWN 12/78)
                   ALA. WUNI at 0610 ads, jx ID.
UNID. USA.at 0617 w/Larry King, not WUNI
    1410
                                 CFUN there too. also a Larry King or similar on 1150 0615? who? WING at 0627 ID u/WUNI and gone.
    1410 OH.
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Belgium, Waver-Tombeek, 150 kw, BRT-1 (ex 926) will be overhauled to begin here in 1979 with BRT-2 program.
                  (Arctic 12/5)
                 Germany, West, Thurman (200 km) and Nordkirchen (100 km)

Deutschlandfunk. (SCDX 12/5) Thurman (20) will be increased
to 200 km in 1979. Nordkirchen (10f) will be completed
549
                  in Jan. 1980 they hope. (Arctic 12/5)
                  Algeria, Las Trembles, 600 kw, Arabic net, 24 hours, (MWN 12/78)
                  Finland, Halsinki, Finnish pgm (100 kw) (SCDX 12/5)
Germany, Eost, Rostock and Neubrandenburg, DDR 1 (SCDX)
Radio DDR Ferienwelle. (Arctic 12/5)
                  Germany, West, SFB, Berlin 1. (SCDX 12/5) Not reducing their power now, only 100 kw all the time. (Arctic 12/5) Israel, Network A. (Arctic 12/5)
 567
                Israel, Network A. (Arctic 12/5)
Germany, East, Schwerin, Radio DDR 1. (SCDX 12/5)
Germany, West, Stuttgart, SDR. (SCDX 12/5)
Algeria, Bechar, 400 kw. (MWN 12/78)
Spain, Madrid, 500 kw. pgm 1. (Arctic 12/5)
Germany, West, Meisshein, Hessischer Rundfunk. (SCDX 12/5)
Finland, Mariehamn, 1 kw., temporarily out of service(SCDX)
Germany, East, Potsdam, DDR 1. (SCDX 12/5)
Spain, Santa Cruz de Tenerife, 200 kw., RNE 1 (Arctic 12/5)
(More properly, Canany Islands, Ed.)
Germany, West, Danneberg, NDR. (SCDX12/5) Uses 10 kw., will
increase to 100 kw in 1979. 0500-1700. (Arctic 12/5)
Turkey, Cukurova, 300 kw. (MWN 12/78)
Israel, Network B. (Arctic 12/5)
Spain, La Coruna (200 kw), Almeria (20), Bilbao (20),
 5.76
 585
 603
 621
                   Spain, La Coruna (200 kw), Almeria (20), Bilbao (20),
                  Sparty, La Corina (200 km), Almeria (207, Stable (207, Zaragosa (20), Albacete(1), Alcoy (1), Badajos (1), Burgos (1), Jaen (1), Palma (1), Salamanca (1), Almaden (0.3), Beas Segura (0.3), Benavente (0.3), Olot (0.3), Villablino (0.3), all RNE 1. (Arctic 12/5)
                   U.K., World Service. (SCDX 12/5)
                   Germany, East, Berliner Rundfunk, Neubrandenburg and Burg. (daytime only), (SCDX 12/5)
                   Helpterburg, increased from 5 to 20 km. (MWN 12/78)
Germany, West, Bodenseesender, SWF. (SCDX 12/5) Rohrdorf
off the air Thursdays 2310-0000. 300 km at night to pro-
 666
                   off the air Thursdays 2310-0000. 300 km at hight to protect Athens and Vilnius. May operate with 150 km in 1979. Tests now taking place. (MNN 12/78)

Holland, Lopik, carries Hilversum III. (SCDX 12/5)

Germany, West, Hof, RIAS. (SCDX 12/5)

Spain, Sevilla, 500 km. (Arctic 12/5), RNE 1.

Germany, East, Berlin, Berliner Rundfunk (SCDX 12/5)

250 km. (MNN 12/78)
  625
 684
                     U.K., Radio 2. (SCDX 12/5/78)
                   Germany, West, Aachen, Herford, and Siegen, WDR. (SCDX)
Turkey, Istanbul, 150 kw. (MWN 12/78)
                   Germany, West, Bopfingen, Heidelberg, Heilbronn, Ulm, and Wertheim, all SDR. (SCDX 12/5)
  211
                   and Wertheim, all SDR. (SCDX 12/5)
Germany, West, Langenberg 2. (SCDX 12/5)
Spain, Las Palmas, ECS4, 20 kw. (Arctic 12/5)
Germany, East, Potbus, Radio DDR Ferienwelle. (Arctic 12/5)
Spain, Oviedo (100 kw), Malaga (20), Logrono (20), Ciudad
Real (0.5), Cuenca (0.5), Tortosa (0.5), Almansa (0.3),
                   Bazabejar (0.3), Ponoblaneo (0.3), all RNE pgm 1. (Arctic)
Spain, Barcelona, 500 kw. (Arctic 12/5), RNE.
Holland, Lopik, carries Hilversum II. (SCDX 12/5)
Finland, Kuopio, 10 kw. (SCDX 12/5)
   242
                   Finland, Kuopio, 10 law. (SCDX 12/5)

Germany, West, Ravensburg. DLF. (SCDX 12/5) 120 kw day,
40 night. Braunschweig 800 kw day, 400 night. (ARctic)

Spain, Valencia (100 kw), Caceres (60), Orense (20), San

Sebastian (20), Campo de Gibraltar (5), Barmastro (1),
Granada (1), Leon (1), Calatayud (0.3), Figueras (0.3),
Jaca (0.3), Quesada (0.30), Soria (0.3), all RNE.

(Arctic 12/5)

Germany Foot Pure Valency (12/5)
   256
                     Germany, East, Burg, Voice of the DDR. (SCDX 12/5) 1000 k\omega. (MWN 12/78)
                    Spain, Sevilla, EAJ5. (Arctic 12/5)
Spain, Radio Sevilla (SER) (SCDX 12/5)
   292
   800
                     Germany, West, Munich-Ismaning (500 km) and Nuremburg-
Dillberg, Eayerischer Rundfunk, Bayern 1. (SCDX 12/5)
   801
                     450 kw omni/day, 420 kw night to protect Leningrad.
Nuremberg is 50 kw omni, also protecting Leningrad.
                      (MWN 12/78)
                     Spain, MAdrid, 20 kw, EAJ?. (Arctic 12/5)
Germany, West, Freiburg, SWF. Hannover and Kiel, NDR.
(SCDX 12/5)
   810
                      Ireland, Corca Dhuibhe, Radio Na Gaeltachta. (SCDX 12/5)
Cahircivean, 1 kw. (MWN 12/78)
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Ciudad Rodrigo (0.3), Guadix (0.3), Huelva (0.3), Jodar (0.3), Plasencia (0.3), Teruel (0.3), Vivero (0.30)
               (Arctic 12/5)
              (Aratic 12/5)

Germany, West, Frankfurt, American Forces Network. (SCDX)

Spain, Zaragóza, 20 kw, EAJ101. (Arctic 12/5)

Germany, East, Koenigs Wusterhausen, DDR 1. (SCDX 12/5)

Spain, Tenerife, 20 kw, EAK64. (Arctic 12/5)(Canary Is.)

Holland, Hengelo, 0700-1790 Hilversum II and Hilversum

III 1700-0790. (SCDX 12/5)
873
891
               Turkey, Antalaya, 600 kw. (MWN 12/78)
U.K., Radio 2. (SCDX 12/5)
Spain, Madrid, 20 kw, EAJ29(Arctic 12/5)
909
               Belgium, Wolvertem, 300 kw, will not increase to 600 kw
because of good test results. (Arctic 12/5)
922
               Turkey, Ismir, 200 kw. (MWN 12/78)
               Germant, West, Bremen and Bremerhaven, Radio Bremen (SCDX)
Plans to use 10 kw Bremen at night instead of 1 kw Brem-
               erhaven. Bremerhaven will be closed completely after that change. (Arctic 12/5) Bremerhaven will close in 1979, replaced by Bremen 24 hours, 100 kw day/10 kw night,
               from 2210-0457, (MWN 12/78)
              from 2210-0457. (MWN 12/78)
Ireland, Cloubur, 1 kw. (MNN 12/78)
Spain, Madrid, 20 kw, EAJ2. (ARctic 12/5)
Turkey, Trabson, 300 kw. (MNN 12/78)
Finland, Turku, 100 kw. (SCDX 12/5)
Ireland, Tir Chonaill, Radio Na Gaeltachta. (SCDX 12/5)
Annagary (Cork?), 10 kw. (MNN 12/78)
               Bulgaria, station here is in Sofia, not Blagoevgrad, according to EBU. 150 km 24 hours. TT period 0115-0130.(MWN)
Germany, West, Hamburg, NDR. (SCDX). Bonn and Kleve, WDR.
                (SCDX)
              Algeria, Algiers 1, 200 km. (MWN 12/78)
Sri Lanka, SLBC, Puttlam, 24 hours. 400 km. (MWN 12/78)
Sweden, Gothenberg, R. Sweden, experimental period after
11/23 in EE, SS, PP, and Swedish, from 2200-0000 with EE
at 2300. (MWN 12/78)
 981
               Germany, West, Berlin and Hof, RIAS. (SCDX 12/5)
Spain, Barcelona, EAJ15, 10 kw, and EAJ28 Bilbao, 10 kw
(Arctic 12/5)
                Iran, Shiraz, new, 400 kw. (MWN 12/78)
               Germany, East, Hoyerswerda, Schwerin, and Weimar, All
Berliner Rundfunk. (SCDX 12/5) Cottbus, Schwerin,
               and Suhl each 20 kw. (MWN 12/78)
Italy, Rimini 2. A new RAI station in Emilia-Romagna
                relays Radio 2 //Bologna 2. (MWN 12/78)
Holland, Lopik with Hilversum I. (SCDX 12/5)
Spain, Las Palmas, 10 kw, EAJ50. (Arctic 12/5)
1008
                Germany, West, Rheinsender, SWF, (SCDX 12/5) Wolfscheim is off 2310-0330, 600/300 kw. (MWN 12/78)
1012
                Turkey, Istanbul, 1290 kw (MNN 12/78)

Spain, EAJ11 Reus (2 kw), EAJ31 Alicanta (3), EAJ48 Vigo (3 kw), (Arctic 12/78)
1026
                Germany, East, Burg, Dresden, and Wachenbrunn, with DDR 1. (SCDX 12/5)
1044
1053
                U.K., Radio 1. (SCDX 12/5)
                 Turkey, Diyarbakir, 300 kw. (MWN 12/78)
1062
1080
                Poland, Katowice now using 1500 kw. (Arctic 12/5)
               Spain, Radio 1. (SCDX 12/5)
U.K., Radio 1. (SCDX 12/5)
Spain, Santa Cruz de Tenerife, Canary Is., 5 kw, (Arctic)
1089
1098
                 Iran, Zabol, new 200 kw, 0156 s/on. (MWN 12/78)
                Germany, West, Berlin, Kaiserslautern, Munich, and
                Nuremberg, American Forces Network, (SCDX 12/5)
Spain, ECSI Teruel (5), ECSIO Socuellamor (2), EFE1
Valladolid (2), EFE6 Caceres (5), EFE14 Madrid (20),
EFE 25 Santander (2), EFE31 Vigo (5), EFJ19 Murcia (2),
EFJ29 Ponferrada (2), EFJ45 Palma (2), EFJ56 Malaga (10),
                Larida, Logrono. (Arctic 12/5)
               Edrical, Logrono. (APETE 12/5)
Holland, Bloemendal, ex 1223. (MWN 12/78)
Spain, EAK2 Sevilla (10), EAK3 Burgos (2), EAK4 Pamplona
(2), EAK5 Valencia (10), EAK6 Zaragoza (10), EAK9 Valladolid(2), EAK13 Bilbao (10), EAK19 Salamanca (2), EAK22
1116
1134
               Ciudad Real (2), EAK29 Lorca (1), EAK19 Satamanca (2), EAK22
Ciudad Real (2), EAK49 Lorca (1), EAK40 Jaen (2), EAK43
El Ferrol (2), EAK48 Astorga (1), EAK53 Reus (2), EAK57
Caceres (2), EAK59 Orense (2), EAK67 Ciudadela (2), EAK69
Almeria (2), EAK82 Figueras (2), EAK91 Aviles (2). (Arctic)
Radio Popular de Sevilla (COPE), 10 kw. (SCDX 12/5)
                Germany, West, 17 locations, American Forces Net. (SCDX)
Italy, Messina 2 (MWN 12/78)
U.S.S.R., EBU lists Kaliningrad with 150 kw here, but
                observers in Sweden feel this is in Byelorussia and not
Lithuania; Foreign Service. Such a practice is not un-
usual for the Soviet Radio. Seems to be 500 or 1000 kw
                in the Minsk area. (MWN 12/78)
                Germany, East, Plauen and Reichenbach, Berliner Rundfunk. (SCDX 12/5) Plauen with 5 kw; Reichenbach with 4. (MWN) Spain, EAJ17 Murcia, 5 kw and EAJ39 Barcelona, 5 kw. (ARctic 12/5)
1179
                Radio Miramar de Barcelona has taken over R. Peninsular,
```

Barcelona. (Arctic 12/5)

more?), 10 kw. (MWN 12/78)

Ireland, Cork Local Radio, RTE 1. (SCDX) Cork 1 (Tulla-

(MWN 12/78)

Spain, Barcelona, 20 kw, EAJ1. (Arctic 12/5)

Spain, Las Palmas, 10 kw, EAK35. (Arctic 12/5)

R. Peninsular, Barcelona ex 1178 and R. Juventud, Barcelona, EFJ15, ex 1025 were due to merge into one Radio Cadena Espanol staion on either 828 or 1476 with 25 kw.

Spain, Las Faimas, 10 kW, EARSS. (Arctic 12/3)
Iran, Shiras, 400 kW, new. (MWN 12/78)
Germany. West, Berlin, RIAS. (SCDX 12/6)
Spain, RNE, Murcia (250), Pontevadra (20), Santander (20)
Eibar (1), Lerida (1), Lugo (1), Pamplona (1), Ponferrada

(1), Palencia (0.5), Puertollano (0.50). Zamora (0.5),

Belgium, BRT 2 is either here on 1512. (MWN 12/78) Italy, Sannemo 2. (MWN 12/78) Angola, E.R. de Benguela (Cubal?) new here. (Arctic 12/5) 8/off 2300. 1200

U.K., Radio 3. (SCDX 12/5) Spain, Las Palmas, EAK92, 20 kw. (Arctic 12/5)
<u>Albania</u>, Operating when Radio 3 is on from 1130-1330,
1500-1730, 1800-1830 and 1900-2030. (MWN 12/78)

1500-1780, 1800-1830 and 1900-2030. (MMN 12/8)
Spain, Madrid EAK1 (20), EAK11 Malaga (6), EAK12 Murcia
(5), EAK14 Huelva (2), EAK 15 Lerida (2), EAK17 Jerez de
la Frontera (2), EAK18 Palma (2), EAK20 Cordoba (2),
EAK21 Badajoz (2), EAK23 Puertollano (1), EAK24 Ibiza
EAK25 Leon (2), EAK36 Zamora (2), EAK31 Alicante (2),
EAK33 Vigo (2), EAK39 Granada (5), EAK44 San Sebastian
(3), EAK44 Albasta (2), EAK58 Lyan (2), EAK44 San Sebastian (2), EAK46 Albacete (2), EAK58 Lugo (2), EAK68 Santander (2), EAK78 Villareal (2). (Arctic 12/5)

Finland, Vaasa, Swedish language pgm. (SCDX 12/5)
Ireland, Dublin, RTE 1.(SCDX 12/5) 20 kw. (MNN 12/78)
Holland Amsterdam, with Hilversum III around the clock
with breaks for STAD (local Amsterdam radio) 1200-1300 1251 and 1700-1900. (SCDX 12/5)

Spain, EAJ3 Valencia (20), EAJ4 Santiago (10), EAJ8 San Sebastian (10), EAJ52 Badajor (5), EAJ55 Algeciras (5). (Arctic 12/5)

Germany, West, Neumunster, 600 kw, DLF. (Arctic 12/5) Finland, Turku, Swedish pgm. (SCDX 12/5) Ex 962.(MWN) Treland, Dublin 2, 20 kw. (MWN 12/78) 1269 1278

1287

Tretand, Abbith 2, 20 km. (NMN 12/76)
Czechoslovakia, Prague. (SCDX 12/5)
Ireland, Athlone, '2 km. (MMN 12/78)
Spain, ECS7 Tarrega(2), ECS11 Madrid (20), ECS12 Cabra (2), ECS17 Monforte(2), EFE4 Palancia(2), EFE17 Valencia (20), EFE23 San Sebastian (10), EFJ2 Soria (2), EFJ5 1305 1314

Cadiz (2), EFJ41 Sama de Langreo (2), Melilla (Arctic) Ireland,Dundalk, 2 kw. (MWN 12/78) Spain, EAJ43 Santa Cruz de Tenerife (20) (Canary Is.) 1323

1341

(Arctic 12/5)

1349 France, Nice. (SCDX 12/5)

Germany, East, relay of Radio Berlin International, ex 1511 ex 1358, external services to Europe 1730-2300. 1359 (SCDX 12/5) Berlin 250 kw sharing channel with RBI. (MWN 12/78)

1368 1386

Spain, Figueras, 1000 kw, RNE. (Arctic 12/5)
Freland, Galway 2, 2 kw. (MWN 12/78)
Poland, Zielona Gora. (SCDX 12/5)
Ireland, Limerick, 2 kw. (MWN 12/78)
Holland, Hoogezand carries Hilbersum II 0700-1700 and 1395 Hilversum III 1700-0700. (SCDX 12/5) Ex 1594. (MWN 12/78) Spain, ECS5 Granada (5), ECS6 Tortosa (2), ECS13 Ciudad Real (2), EFE5 Leon (2), EFE8 Alicante (2), EFJ11 La Coruna (5), EFJ21 Huesca (2), EFJ38 Bejar (2), EFJ50 Calahorra (3), EFJ51 Huelva (2), Algeciras, Guadalajara, Segovia. (Arctic 12/5)

Segova. (Arette 12/0)
Finland, Helsinki, Swedish pgm. (SCDX 12/5)
Germany, West, Bad Mergentheim, SDR. (SCDX 12/5)
Spain, ECSS Sevilla (10), ECS14 Gerona (2), EFE10 Vitoria, (2), EFE19 Castellon (2), EFE22 Oviedo (5), EFJ15 Barcelona (10), EFJ46 Zaragoza (20), Cartagena, Pontevedra, 1413 Ceuta, Zamora. (Arctic 12/5) Ireland, Ring, 2 kw. (MWN 12/78)

Germany, West, Heusweiller, Saarlandischer Rundfunk. (SCDX 12/5) 1422

Germany, East, Bernburg, Karl-Marx-Stadt, Seelow, and Wachenbrunn, Berliner Rundfunk. (SCDX 12/5)
Bernberg with 20 kw; others 5 kw. (MWN 12/78) 1431

1440 Luxembourg, Radio Luxembourg. (SCDX 12/5) 1449

Germany, West, Berlin 2, SFB. (SCDX 12/5)
Spain, ECS18 Orense (2), EFE58 Cordoba (5), EFJ43 Bilbao, (10), EFJ23 Albacete (2), EFJ25 Almeria (2), EFJ37 Toledo (2), Gijon. (Arctia 12/5) 1476

Germany, East, low power transmitters of DDR 1.(SCDX 12/5)
Turkey, six low powered stations of 1 kw each. (MWN 12/78)
Switzerland, Saviese ex 1367. (MWN 12/78)
Germany, West, Adelscheim, SDR. Baden Baden, SWF. 8 locations of American Forces Network. Munster, Saarlandischer Runkfunk. (SCDX 12/5)

Hunkjunk. (SCDX 12/5)

Ireland, RTE Community Radio (Mobile). (SCDX 12/5) Sligo

I kw; Trim and Icougal, 1 kw; Drumgriffen 1 kw. (MWN 12/78)

Spain, many 2 kw and lower transmitters. (retic 12/5)

France, Clermont-Ferrand and Besanson. (SCDX 12/5)

Holland, Hulsberg with Hilversum II 0700-1700 and Hilversum III 1700-0700. (SCDX 12/5) 1494

Spain, ECS16 Santa Crus de la Palma (Arctic 12/5) 1503 Poland, Foreign SErvice only on this frequency in the future. (Arctic 12/5) ECS15 Marbella (2), ECS19 Benavente (2), EFE33 Tarragona (2), EFE57 Pamplona (2), EFJ54 Burgos (2), Cuenca, Lugo. (Arctic 12/5)

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Angola, E.R. de Benguela varying to 1506, s/off at 2300 (Arctic 12/5) 1504

Belgium, Wolverton, new transmitter to be built with 400 \overline{kw} . Antenna will be an umbrella beam. BRT2 programs but 1512 a parallel with future LW transmitter in Holland is not excluded, if there will be a common NOS/BRT program. (Arctic 12/5)

Spain, Radio Peninsular de Barcelona 0600-0100. EAJ19 Asturias (5), EAJ40 Pontevedra (5). (Arctic 12/5) 1521

1522 Tunisia, a regional station is reported. (MWN 12/78) International Waters, Voice of Peace still here, now relaying news bulletins in Hebrew on the hour from IBA's network B program. (Arctic 12/5) 1538

Germany, West, Mainflingen (700 kw), DLF.(SCDX 12/5) Spain, Radio Peninsular de Barcelona (5), EAJ47 Valla-dolid (5). (Arctic 12/5)

1552 Malta, Broadcasting resumed 1900-2000 in AA, EE and FF ID as Radio Mediterranean. Financèd by Malta government and not confirmed by Deutsche Welle. Libyan relay begins now at 2230. (Arctic 12/5)

Switzerland, Sarnen ex 1562 s/on 1700; also on the air 1566

mornings to 0700- or 0800. (MWN 12/78) Germany, East, Dresden, Beeskow, Keula and Werda, Ber-liner Rundfunk. (SCDX 12/5) Dresden 20 kw, others 5. 1525 (MWN 12/78) Spain, Radio Peninsular de Madrid (5), EAJ24 Cordoba

(5) (Arctic 12/5) Germany, East, low powered transmitters of DDR 1.(SCDX)
Spain, many 2 kw transmitters. (Aratic 12/5)
Treland, Ballingeary, Baugoremorris and Wexford, each
1 kw. (MWN 12/78) 1584

1593

1 kb. (MWN 12/78)
Germany, West, Langenberg I. (SCDX 12/5) 400 kw day/night
but 800 kw from local dusk to 2305. (MWN 12/78)
Germany, East, low powered transmitters of DDR 1. (SCDX)
Spain, many 2 kw transmitters. (Arctic 12/5)
Italy, Bolgna and eight others moved here from 1594.(MWN)
Ireland, Drogheda and Wicklow, 1 kw. (MWN 12/78)

As has been noted, the Nov. 23 plan was just that-- a plan. Not all assigned stations are on their new frequencies with the powered allotted. The above list gives an idea of what is on.

Albania. There seems to be some doubt whether they built their $\overline{300}$ kw transmitter on 648 khz. Since they lost the friendship and financial support of Peking, maybe they couldn't afford the new station. (MWN 12/78)

Angola. Most Angolans are still on old channels. (Arctic 12/5) Belgium. Liege is on 1305; March on 1233. (SCDX 12/5)

Cyprus. There are plans for 2 x 50 kw transmitters for the Turkish program. Bayrak Radio said they were not changing frequencies on 11/23. (MWN 12/78)

<u>India</u>. Deutsche Welle has permission to open a relay station in Trincomalee; plans include a 600 km MW station. Completion is due in 1980. (MWN 12/78)

International Waters. R. Caroline was off from 10/20 from a generator explosion. (MWN 12/78)

Poland The Second Program is now being carried only on MW. A new 200 kw transmitter on 200khz now relays it between 0700-1500. (SCDX 12/5 and ARctic 12/5)

Spain . All COPE stations, those with EAK prefixes, were due to leave the air on 11/23 and be on VHF only. (MWN 12/78)

Tunisia RTT Monastir is 20 kw. (MWN 12/78)

Turkey. TRT-1 began 24 hour service as of 1/1. This had been discontinued because of lack of listeners and to save energy. (Arctic 12/5)

TRANS-PACIFIC

China. Kwangtung-648 (ex 650); Canton City, 2nd program-1062; Canton Downtown service-972. (Arctic 12/15)

<u>Indonesia</u>. RRI announced that all MW stations must use the new fequencies. Non-government stations which fail to use them will not be allowed to broadcast. (Arctic 12/15)

Korea, South. Korean Broadcasting System has announced the following new frequencies: First Program on 711, with relays on 1134, 1169, 1341, and 918. Second Program on 603. Public Education Program I on 972 and Public Education Program II on 756. (SCDX 12/5)

Philippines. DWWW Manila 630/50 kw; DZAS Manila 702/50 kw; DPI-1 738/50; DMRV Marila 888/50; DZRP Marila 918/50; DXXX Zamboanga 1008/100; DWVA VOA Poro 1143/1000; Maguindanao 1179/60; DPI-2 Pampagna 1287/200; DZOR FEBC 1458/250. (MWN 12/78)

Singapore. English on 630, CC on 675, Malay on 990 all 50 kw plus multilingual service on 792 with 750 kw. (MWN 12/78)

Thailand. R. Thailand now using 891 khz. Second Program on 819. Third Program on 846, and external service on 927. (SCDX 12/5)

LATIN AMERICA

Argentina. A new border station LU23, Em. Lago Argentino, Calafate, Santa Cruz, is on the air with 10 kw. Frequency not known.
590 LU8 R. Bariloche increased power to 25 kw.
670 LRA52 R. Nacional, Chos-Malal, Neuquen, new. Unknown power.
740 LRA55 R. Nacional, Altos Rios Senguerr, Chubut, new.
860 LRA56 R. Nacional, Perito Moreno, Santa Crus, new.
1030 LRA15, R. Nacional, Tucuman, now 50 kw.
1150 LRA51, R. Nacional, Jachal, San Juan, new, 1 kw.
1370 LRA54, R. Nacional, Ingeniero Jacobacci, Rio Negro, new, 1 kw. 1430 LU29, Em. Condor, ex R. Las Flores. 1440 LRA53 R. Nacional, San Martin de los Andes, Neuquen, new, lkw. (All Arctic 12.15) Bolivia (Arctic 12/15) 600 CP.. R. Aclo, S R. Aclo, Sucre, in Quechua 1100-1800 and 2200-0100 with 10 kw. 1050 CP28 R. Cochabamba (or R. CBA--the abbreviation for Cochabamba), move from 900. 1100-0600 3 kw. R. Cultura de Cochabamba 1200-0400 1 kw. 1090 R. Tunari 1100-0300. 1160 CP78 R. Nacional de Cochabamba, ex 1250, 1100-0700. CP40 1260 R. Loyola 1130-0430 1 kw. 1300 CP51 R. Estacion CAMBA,a pirate. Slogan is La Vos Oficial de la Junta Nacional de Accion Social. R. San Rafael 1000-0500 10 kw. 1300 CP. . 1310 CP68 1400 CP17 R. Maritima 1100-0500 1 kw. 1420 CP49 R. Centro de Cochabamba 1100-0500 1 kw. R. Litoral 1100-0500 1 kw. Quechua 1100-1200 and 1510 2330-2400. 1530 CP116 R. Dif. Cosmos, 24 hours, 1 kw. Chile. Chile has reorganized its 25 provinces into 13 regions. (Arctic 12/15) Colombia. La Voz de Sud America, Bucaramanga is new on 1080 with strong harmonic on 2160. Also IDs as Cadena Lider. (SWNS 1/79) Haiti. 4VEH-1035 s/off 2400 with Amazing Grace. Formerly was on until 0030. Now a Haitian on 1450a with harmonic on 2900a. Probably La Voix du People down from 1475//2950. (SWNS 1/79) Trinidad and Tobago. National B/C Service on 610 now is 50 kw. (MWN 12/78)

Venezuela. R. Apolo, Turmero has moved from 1320 to 1310. (SWNS)

Clubs. Associacion Dominicana de Clubes DX-istas consists of two clubs, Santo Domingo DX Club and International Dominican DX Club.
"Radio y Tecnica", the bulletin, is offered to SS-speaking DXers
for two IRCs. The club also has a 5-minute DX program in SS on Radio Antillas-1120 on Sundays. Write Santo Domingo DX Club,

Apartado 17-12, Santo Domingo, Rep. Dominicana. (SCDX 12/5) Club Ondes Courtes du Quebec, 3420 Chemin Ste.-Foy, App. 5, Ste-Foy, Quebec, Canada GIX 156, offeres a booklet of 8 pages in FF about SW for 3 IRCs. (SCDX 12/5)

I have a lengthy (9 page) report from Mike Hardester of stations he has heard from his location in Taiwan. I'll be glad to send

a copy to anyone in exchange for 15¢ postage.
I haven't heard anything recently, mainly because I haven't

been listening. Don Kaskey, one of these days I try listening to KLOC around its s/off time to see if I can hear anything under it. I just noticed that for the majority of the above reports I listed the Arctic issue as 12/5 when it really was 12/15, not that that makes a whole lot of difference. The official title of Arctic's bulletin is MV Eko for the trivia buff. It comes out every two weeks. CU in a while. FJP (Typed 1/14)

In the In the mail this week were several letters/cards expressing interest in the non-heard listings so will include them again this issue. During the past 3 issues the following stations were reported to the DXR's for the first time since prior to volume 12: WPKE-KY BY Dave Faulkner; WKFD-RI, WAKS-NO, by Bryan Lee; CJMC-QU by Neil Wolfish; WJPW-MI by Bob Lazar; WNCG-SC, WGTA-GA, WNPC-TN, KWEL-TX, KTAE-TX, WMAC-GA, WMGO-MS, WKFO-MS, WIFM-NC, KGAS-TX, KLGA-IA, KFNV-LA by Robt. Kramer; KGLN-CO, KICA-NM, KBWA-AZ, KRTR-WY by Bill darms; KLCC-CA by Don Kaskey; WKDX-NC, WYTH-GA, WBHC-SC, WORL-FL, WEXI-FL, WMGS-AL, WGAS-NC, WTLN-FL by Dave Nelson; WSSC-SC, by Bill Townshend; WBIB-AL, KCHI-MO, by John Clemmer; KDQN-AR by Robt. Mackinney; WZKY-NC by Karl Forth; WGAT-VA by Steve Grubb; WWBC-FL by Aarl Jeter; WOKX-NC, WCSL-NC by Paul Mount; WKTS-wi, WISS-WI, WAGN-MI, WDUZ-WI, WKJR-MI by Robt. Steadman; WKQT-LA, WWIW-LA By Jos. Landry; WGLC-IL & KDRY-TX by Michael Jeziorsky; KGUD-CA by Robt. Wien This reduces the stations not in DXR's or DXWW's since September 1974 to 859 or 17.6% of the total number of stations in the U SA and Canada....dkk.. mail this week were several letters/cards expressCBS RADIO ADDS "SEARS RADIO THEATER," STARTS FEB. 5th

CBS and Sears, Roebuck & Co. announced jointly in September, 1978, that the major retail chain would sponsor "Sears Radio Theater" on the CBS Radio

Network, beginning Mon. 2/5/79.

Sam Cook Digges, President of the CBS Radio Division of CBS Inc., says the series of original one-hour radio plays will be produced on a Hollywood soundstage and aired on CBS five nights HOLLYwood soundstage and aired on CBS five nights a week following the 7pm ELT news. "Each evening will be devoted to a different genre," notes Digges, "with a celebrity host introducing a star-studded cast." Digges pointed out the "large and enthusiastic audience for radio drama," which CBS has nurtured through its successful nightly "CBS Radio Mystery Theater," which began in Jan. 1974. CBS also airs the "General Mills Adventure Theater" to a vouth and family audience on Saturday and Sunday a youth and family audience on Saturday and Sunday afternoons.

Sears will be the sole network sponsor of the series. Individual Sears stores will be able to buy local commercial time in the program through availabilities on the local CBS station. Sears plans to mail advance schedules to its 22 million credit card customers, as well as promote the call letters and frequency of local stations in its newspaper advertising.

As of 1/10/79, the following hosts have been set for the various special nights:

• Mon. - - Western night, host to be announced
• Tues. - Comedy night, Andy Griffith
• Wed. - - Mystery night, Vincent Price
• Thurs. - "Love and Hate Night," Cicely Tyson
• Fri. - - Adventure night, Richard Widmark

Nelson Riddle has written and recorded a "Theme from Sears Radio Theater" to be heard at the beginning and end of the programs, five nights a week. Riddle is also doing an original musical score for each individual program in the series, to be recorded by small groups, such as a Dixieland band for a comedy or a harmonica-guitar-bass combo

for a Western.
(Thanks to CBS Radio Press Information Services for this info.--BH.)

Some additional info on "Sears Radio Theater" comes from 10/2/78 <u>Broadcasting</u> (used by permission): The initial commitment is for one year (130 new programs; 130 repeats). Production for the series

programs; 130 repeats). Production for the series is entirely in the hands of Sears, rather than CBS. CBS will send out two feeds a night, Monday thru Friday: 1908-1958, and 2108-2158, ELT. (That's right after the 7pm and the 9pm news.) Broadcasting's writer says, "Affiliates will be encouraged to run the plays during the 7pm hour or at 9pm. However, in those cases where sports programming might conflict or stronger affiliated programming might conflict or stronger affiliated stations are needed, delays will be arranged." (Ed. note: The programs probably couldn't air too far into the night, or else they might bump into "Mystery Theater," which tends to be aired at 9pm, 10pm, or 11pm, local times.)

One additional note of interest: The article

notes that "Mystery Theater" is now on more than

HELP: I'll try to obtain a station lineup (with airtimes, if possible) for "Sears Radio Theater" to appear soon in DXM. Meantime, those of you hearing "Sears Radio Theater" in your area can help me by sending call, freq., location, and normal airtime (beware of sports preemptions) for any station you hear airing it beginning 2/5/79. While you're at it, I'd also like the same info for "CBS Radio Mystery Theater" seven nights a week (check to see if the weekend broadcasts are the same as on weeknights), and "General Mills Adventure Theater" on Saturdays and Sundays.

One caution: Note that Wednesday is "Mystery Night" on the Sears show, so be careful not to confuse it with E.G. Marshall's "Mystery Theater"! Vincent Price is the Wednesday host for Sears.

Please send CBS Radio Drama info to:

Please send CBS Radio Drama info to: Bill Hardy, 2301 Pacific Ave., Aberdeen, WA, 98520. Thanks much. -BH.





ON REFLECTION AND REFRACTION by Randy Seaver

I. INTRUDUCTION

A question that is often asked by DXers interested in medium wave propagation is:

"Is reflection or refraction the mechanism by which medium frequency radio waves are procedeted by the ionosphere?"

The REFLECTIONS article in the Sept. 23, 1978

OX Monitor discussed night medium wave propagation

Dy means of ionospheric refraction, making no
mention of refraction. Some other erticles,
oast and present, in the DX club literature

state that reflection is the primary mechanism
and discount refraction. As is often the case,
there is considerable confusion over one of the
most fundamental questions of ionospheric
radio wave propagation.

This article will provide some definitions, present a detailed description of reflection and refraction, and will offer the editor's conclusions on this subject.

2_ DEFINITIONS

Reflection - This is a wave phenomenon occurring at boundaries between different media (in this case, the reutral atmosphere and the ionosphere) such that the direction of at least part of the oncoming wave is abruptly changed so that it remains in the same medium. Regular reflection occurs at plane boundaries such that the angle of incidence of the wave to the reflecting surface is equal to the angle of reflection from the reflecting surface; for this case, the refractive index of the reflecting medium is sufficient to totally reflect the wave. Pertial reflection can occur at a plane boundary in the same fashion as regular reflection if the refractive index of the reflecting medium is not sufficient to totally reflect the wave; in this case, part of the wave energy is reflected back to Earth at the plane boundary and part of the wave energy is refracted at the plane boundary and continues upward into the ionosphere. Diffuse reflection can occur at rough or irregular boundaries; the best example of this is the reflection of waves by a rough ground, such as mountains or valleys where the reflecting surface is uneven.

Figure 1 below shows the cases of regular reflection and pertial reflection.

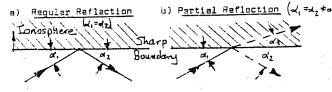


Figure 1. Reflection at a Sharp Boundary

Refraction - This is a wave phenomenon occurring Detween media or within a medium (a.g., the ionosphere) in which the direction of the wave is modified as the refractive index of the medium changes. In general, a radio wave will enter the ionosphere at an angle of incidence, encounter an increasing number of electrons and be gradually bent until it reaches a peak altitude, continue to be pent until it leaves the ionosphere and returns to Earth. The amount and rate of bending is determined by the refractive index of the ionosphere at the particular wave frequency. Figure 2 below shows a refracting wave in the ionosphere.

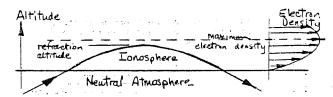


Figure 2. Refraction of a Radio Wave in the Innosphere.

Refraction can also occur at a sharp coundary between media if the change in refractive index is not sufficient to cause total reflection; this is shown in the "partial reflection" sketch in Figure 1 above.

Refractive Index - The refractive index is a measure of the pending of a radio wave between or within media. The classical equation for the refractive index is the Appleton formula, which relates the refractive index to the number of electrons, the strength of the Earth's magnetic field, the number of electron collisions, and the wave frequency. The reader should refer to the several excellent technical books available for the derivation of the formula (e.g., Daviss, Budden, Al'pert, etc). The simplified Appleton formula was presented in some detail in the 9/23/76 REFLECTIONS article and won't be reproduced here. The value of and the change in the refractive index and the application of Snell's Law determine the amount and rate of bending that a refracting radio wave experiences in the ionosphere. As noted above, the refractive index controls both the reflection and refraction of radio waves, and this will be discussed in more detail below.

3. REFLECTION AND REFRACTION

Reflection of a radio wave will occur if the charce in the refractive index is great enough to cause the wave to change directions such that the angle of incidence and angle of reflection of the wave to the boundary of the ionosphere are equal. If the change in the refractive index is instantaneous, then the change in the direction of the ray path is instantaneous. Since the refractive index is dependent upon the number of electrons present along the ray path in the ionosphere, the electron density varietion with altitude is very important.

Consider a model ionosphere which has an instantaneous increase in electron density (N) at altitude (h), as shown in Figure 3.

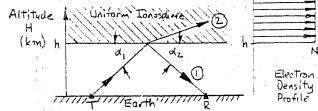


Figure 3. Model Ionosphere with Constant Electron Density.

If the oblique critical frequency of this model ionosphere, as determined by the refractive index and Snell's Law, is greater than the wave frequency, then the wave will be totally reflected back to Earth according to ray path () above with equal values of the angle of incidence and angle of reflection (α , and α) as shown). If the wave frequency is greater than the oblique critical frequency of this model ionosphere, then part of the energy of this ray will be reflected along path () and the remainder of the energy will be refracted at the base of the ionosphere and continue ward into the ionosphere along ray path (). The fraction of energy reflected and refracted depends upon the refractive index.

Now consider a model ionosphere which has a vertical gradient of electron density with altitude up to $^{\rm N}$ slectrons/cu.cm. at altitude h $_{\rm 2}$, as shown in Figure 4.

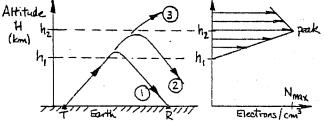


Figure 4. Model Ionosphere with Vertical Gradient

Ray path (I) is for a wave frequency very much below the oblique critical frequency of the model ionosphere. The ray berely penetrates the ionosphere before it is refracted back to Earth. Ray path (2) represents a wave frequency slightly below the oblique critical frequency of the model ionosphere. The refraction altitude of this ray is nearly equal to the altitude at which the peak electron density occurs. Ray path (3) represents a wave frequency for above the oblique critical frequency of the model ionosphere; this ray is only slightly refracted and continues upward into the ionosphere.

The E-region of the night ionosohere usually has a vertical gradient of electron density at the base of the E-region and a series of one or more electron density peaks as shown in Figure 5. Occasionally, one of the peaks will become very pronounced, resulting in a "sporadic E" layer.

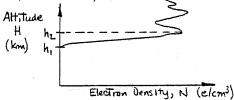


Figure 5. Typical Night E-Region Electron Density Profile.

The base of the E-region denoted by the altitude h_1 is usually between 70 and 90 km. The first peak electron density, h_2, is usually between 90 and 100 km. Several peaks in electron density may occur between 90 and 120 km. altitude.

At wave frequencies near the oblique critical frequency of the night E region, severel ray paths between the transmitter and receiver may exist when rays with different angles of incidence refrect from the several E-region peaks. This situation may approach a "diffusive reflection" condition. However, experimental and theoretical date shows that ionospheric absorption of radio waves is maximum when the wave frequency and the oblique critical frequency of the E-region are aqual. Therefore, this is probably not a viable model for long distance medium wave propagation.

Rather than the rather stringent definition of reflection given above, most references state that "reflection" of redio waves occurs if the wave is refracted back to Earth in a distance of one wavelength. For the night E-region, this criterion is satisfied for two conditions:

- a) Very low frequency waves that barely penetrate
 the base of the E-region, since only a few
 electrons are required to refract these waves
 back to Earth, and are refracted within a
 distance of one wavelength.
 b) Some appradic E layers with large electron
- Some sporadic E layers with large electron density gradients may refract medium or short waves back to Earth within a wavelength.

Both of these examples produce regular reflections.

Medium wave ray paths can be modelled by simply assuming that the ray is effectively "reflected" from an "effective height" of the night ionosphere such that the takeoff and arrival angles are equal. While, in a pure sense, this is not what really happens as the wave passes through the ionosphare, it is an adequate approximation for most ray paths. The effective height" of waves with low madium wave frequencies will be lower than that of high medium wave frequencies, since more

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bending occurs as the wave frequency approaches or exceeds the oblique critical frequency of the E-region. For E-region refraction, the "effective height" is in the range of 90 to 110 km. If the ray penetrates the E-region the "effective height" of the ray refracting from the F-region will usually be well below the altitude at which the peak electron density of the F-region exists; typical "effective heights" of rays refracted from the F-region are usually in the range of 200 to 300 km.

It is difficult to be more precise for the general case because there are many factors to account for; the real ionosphere, under the influence of the Earth's magnatic field, has geographic and temporal variations in the electron density profile.

4. CONCLUSIONS

The general conclusions that can be drawn from the above discussion include:

- a) The ray path of radio waves in the ionosphere is controlled by the refractive index, which is a function of the electron density of the ionosphere and the wave frequency.
- b) The two basic criteria for reflection are that it occurs at plane boundaries and that the angle of incidence and the angle of reflection are equal. These criteria are satisfied only for long wavelength waves and some "sporadic E" layers at medium wave and short wave frequencies.
- c) The lower part of the night E-ragion of the ionosphere usually exhibits a vertical gradient of electron density with altitude. Consequently, ionospheric refraction is the general rule, and reflection is the exception.
- d) The classical magnetoionic theory encompasses both reflection and refraction in a unified theory. Reflection is actually a special case of refraction.
- a) A model of reflection from an "effective height" is usually assumed to greatly simplify range and elevation angle calculations with little loss in accuracy.

DEPARTMENT STORE RADIO

by Cary Simpson

In the early days of radio, hundreds of stations were put on the air by department stores and radio supply houses or stores. There was a very specific reason for this. The stores wanted to sell radios, and without a station to pick up, people wouldn't buy their radios.

Thus, even before the Department of Commerce began to issue licenses. many communities already had local outlets operating very informally, but enough hours so that customers of the stores could tune in. It was all a matter of pastime, or a hobby in those days. There was no news on the radio, no live music except at the larger stations.

axcept at the larger stations.

In Philadelphia, stations were put on the air by John Wanamaker Store (WOO), Lit Brothers (WLIT), Gimbels (WIP), Strawbridge & Clothier (WFI) and several other department stores. WFI and WLIT were merged into WFIL, and WIP remains today. WOO was taken off the air because the owners of Wanamaker's saw no future for this "gimmick" that radio seemed to them to be.

In Chicago, WLS was operated by Sears, Roebuck and Company, in New Orleans, Maison Blanche operated WSMB, and the list could go on and on. Gene Martin should research this sometime and give us a list of

all of them he can remember.

In the central Pennsylvania area, Gables Department store operated WFBG for 31 years before selling it to Triangle Publications in 1955. That was 24 years ago, but many people in and around Altcona, who were raised on a steady diet of "Gables Radio" do not today refer to WFBG as that, but still call it "Gable's". The habit is too great to break.

In those early days, the station was devoted to promoting the department store throughout much of its broadcast day. So, it's no wonder the public was brainwashed. They used to announce the time as "Ten minutes to nine. Only ten more minutes before Gable's opens for business." Then, at 9:00, a fanfare, and an excited announcer practically screamed "It's now 9:00 and the doors swing open on the biggest and best department store in all of Pennsylvania.

gest and best department store in all of Pennsylvania!"

The station had its "Crystal Studio" in the store's
Arcade and shoppers could watch the programming from

the rug department.

Can any other "old-timers" recall days of "department store radio"? How about the old Yankee Network? Or The Outlet Stores in Providence?



the irca technical column

Editor: Nick Hall-Patch 3272 Alder St. Victoria, B.C. Canada V8X IP2

This time, we'll look at the front end and the tail end of the receiver. First, a word about <u>spurious signals</u>. When you tune your receiver across the BCB, do you find your local stations turning up (usually with murky audio) on frequencies other than their assigned one? Or do you find that some stations show a beat note (with the BFO off) which goes from a high to low back to a high pitch as you tune past the station? Then your receiver is probably suffering from spurious signals. I won't go into the details of how such signals are produced, as there is a good treatment of that in the "NRC Receiver Reference Manual" (\$2.50 from NRC Rublications, P.O. Box 401, Gales Ferry, CT 06335) and in Joe Worcester's "Curse of the Superheterodyne" (IRCA Reprint T1).

But what can you do to eliminate these "spurs"? If you have a tube-type receiver, test the RF and mixer tubes--if This time, we'll look at the front end and the tail end of

have a tube-type receiver, test the RF and mixer tubes--if these are at all questionable, replace them with new ones. Otherwise, you could try shortening your longwire a bit or add some attenuation between the longwire and receiver--you may be getting more signal than you need to log those weak ones, and by attenuating the antenna input, you reduce the strength of the spurs much more than you reduce your desired signal. Most communications receivers have enough sensitivity for you to use quite a short longwire for best results on BCB.

A good solution for spurs is to use one of the longwire tuners described in last month's column by Brian Sherwood. Or use a tuned loop antenna instead of the longwire. Incidentially, you can use a loop as a longwire tuner. With the IRCA spiral or the unamplified Wedge, connecting the longwire lead-in to one side of the tuning capacitor will make a tuner out of your loop, though it will lose most of its directional properties while the longwire is connected. The amplified loops can be a little trickier, but they are possible. If loops can be a little trickier, but they are possible. If there's any interest, I'll try to cover them another time. If all else fails, your receiver may need alignment.

Brian Sherwood has submitted a circuit which amplifies as well as peaks a signal from a longwire. Please remember that most communications receivers don't need preamplification on BCB (unless your longwire is <u>very</u> short), so try Brian's longwire tuner without amplification first.

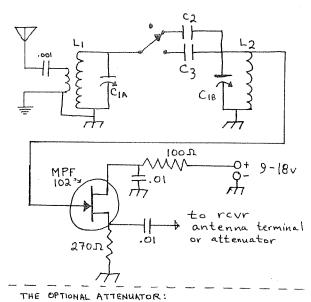
240 MH loopstick secondary 井みつい loopstick potentiometer great deal Miller 6-12 turns vire Closewound h (gain -not of variation) 0 57 ي Ð 1 1 270 equivalent HEP BOD . HEP 51 or .003 440 9 9

The circuit is a little unorthodox with its impedance mismatch between L_1 and the gate of the FET, but this helps to keep amplification down and more easily allows switching between

the straight antenna tuner and the amplifier.

The next tuner-amplifier is probably more expensive to build, but does provide a bit more selectivity. Again, tuy the unamplified longwire tuner first. If there are still problems with spurious signals after using the tuner, aligning the receiver and so on, perhaps this tuner-amp will help.

Basically, it's a two-resonator RF filter with a source-follower FET amplifier to make up for the filter's loss. I added a switchable attenuator for mine, because I didn't need all the gain that the amplifier offers. Here's the circuit:



receiver antenna terminals from amp 2405 755 JSN) 150 200 1500

Position 1 gives no attenuation, positions 2,3, and 4 are very roughly -6dB, -10dB, and -20dB respectively.

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very roughly -6dB, -10dB, and -20dB respectively.

The wiring of the attenuator and the FET amplifier are reasonably straightforward, but the filter is a little tricky. First of all--parts availability. I used two Miller A-320-A shielded BCB RF coils for L1 and L2, and a two gang 365 pF variable for C1 A & B. Both came out of my junk box. The Miller coils are still available from either JW Miller, 19070 Reyes Ave., Compton, CA 90224 or G.R. Whitehouse, 11 Newbury Dr. Amherst, NH 030319, but at (arghh!) \$6.10 each. The much cheaper Miller #6300 loopstick could probably be used as long as you could find shielded boxes for them, and could wind about 10 turns over L1 for the antenna coupling. Maybe the twin-gang 10 turns over L $_{
m I}$ for the antenna coupling. Maybe the twin-gang capacitor could come out of an old radio; the only supplier I know of is Ambit International in England, who have cheap shielded BCB RF coils as well. If you're experimentally in-clined, write me and I'll send more details about these British parts.

Parts.

Assuming that you've got the necessary parts, there's still the matter of building the filter. As can be seen from the schematic, L_1 should be shielded from L_2 , as you want coupling between them only through C_2 , C_3 or stray capacitance. For high BCB frequencies, you should get optimum coupling by using short leads, shielded coils and no direct connection between the tuned circuits; stray capacitance will couple them quite nicely. This will give you reasonable selectivity from 1200-1600 kHz (re-peaking needed every 10 kHz) without such a large loss that the FET amp can't make it up. Unfortunately, at 550 kHz, there is a great deal of loss, and you will get a at 550 kHz, there is a great deal of loss, and you will get a faint, noisy, albeit selective signal. So it's necessary to switch in additional coupling capacitance for the low & middle parts of the BCB. The value of these capacitances will depend upon your coils, variable capacitor, wiring etc. The best bet is to use "gimmick" capacitors, i.e. two insulated wires

twisted together for a few turns, and adjust the number of turns for best selectivity without undue loss of signal. was a gimmick of one turn for 700-1200 kHz and C3 was a gimmick of 4 turns for 540-700 kHz in my model but could be different for yours.

There may also be difficulty in getting the filter to "track" over the entire BCB without doing some chopping and changing at either end of the filter. If you're interested in this circuit and run into problems, write me and I'll try to help you past the pitfalls. There's a good treatment of RF filter design in the ARRL Electronics Data Book if you're interested in going further with a circuit like this one.

...and now to the tail end of the receiver...audio filters again. Perry Ferrell of Gilfer Associates writes to say that the Datong FL-1 audio filter mentioned in last month's column is intended for CW and SSB and is of little use for AM except as an expensive bandpass filter. So put your \$179.95 towards a better receiver! Perry also writes that MFJ has a model 752 audio filter for \$79.95 which has adjustable lower and upper audio cuts, as well as peaking and notching facili-ties. More info available from MFJ.

And finally--the last word (maybe) on audio filters,

courtesy of Bruce Portzer:

In response to Nick's series of articles on audio filters, I have a few suggestions on how they can be used.

1. A high pass filter is useful for eliminating 60 and 120 Hz hum and reducing the "rumble" which often accompanies reception of stations on graveyard channels. (ed. note: not to mention the low hets that go with reception of

off-frequency Latins)
A low pass filter with a cutoff at about 2000 Hz will reduce the hiss which is often present when replaying

- DX tapes.

 A high-Q "peaking" filter designed for amateur CW use (such as the Autek QF-1) can be used to improve reception of test tones during DX tests and f/c's. This is especially desireable if Morse code IDs are given. The filter should have a variable center frequency since tone frequencies can vary from one station to the next or more than one tone can be used during a test (400, 800, & 1000 Hz are fairly common TT frequencies). It might also be possible to use such a filter to enhance time pips transmitted by some foreign broadcasting stations. However, it would probably be difficult to do so, owing to the short duration of the pips and the fact that many pip sequences use more than one frequency. I have had good results using a bandpass filter to improve pip reception, however. A bandpass filter, with high and low cutoff frequencies set close to one another can also
- produce good results in enhancing test tones.

 A bandpass filter with variable high and low cutoff frequencies can also be used to enhance some announcer's voices. The process is usually one of trial & error in which a DX tape is replayed several times while trying different cutoff frequencies until the announcer's voices is heard most clearly. On These they are exercise. voice is heard most clearly. On more than one occasion I've used this technique to improve a particular announcement from marginal or unreadable to where it is at least partially readable. The "optimum" passband varies depending on the announcer and reception but the range of about 600 to 1500 Hz often gives good results.

Audio filters are definitely useful, even with highly selective receivers like the HQ-180A. On more than one occasion, my Krohn-Hite 310AB variable bandpass filter has improved a DX tape's readability and in a couple of instances it's made the difference between hearing an ID and not hearing it. main benefit, however, has been esthetic. It's improved the quality of a given reception without actually improving readability to any great extent. Since audio filtering is usually the last stage in the receiving process it is not nearly as important as a good antenna, a receiver front end that doesn't overload easily, and selective IF stages.



SERVING PROGRESSIVE NORTHWEST FLORIDA FULLTIME 1000 WATTS 1240 KC CHIPLEY, FLA. 19041638-0234

SPECIAL FEATURE

CHANGES - the AM broadcast band will soon be different By Retiring IRCA Special Features Editor Bill Hardy

In 15 years that this editor has been watching the broadcast-band scene, I can't remember a time when there have been more changes - real changes - underfoot in BCB DX.

Some examples of what's going on:
• The new 9 kHz spacing plan began 11/23/78 for most European, African, and Asian stations. This most European, African, and Asian stations. This has a particular impact on TP DXing of Asians, Japanese stations, Aussies, and Zedders. If you haven't been following these developments in DX Worldwide, perhaps you should be.

• The American group called the Daytime Broadcasters Association wants the FCC to switch

to 9 kHz spacing in the Western Hemisphere as well. They say that the 14 new AM channels under their proposal would allow for 2,352 new AM stations, with many of America's 2,250 daytime AM's moving to the new fulltime stations.

AM's moving to the new fulltime stations.

(This proposal may or may not get anywhere.)

• The FCC will ask the 1979 World Administrative Radio Conference (WARC) at Geneva, Switzerland, to expand the AM BCB by adding 1615-1860 kHz for broadcast use in the Western Hemisphere.

• And, on 12/19/78, the FCC released its

- long-awaited decision regarding U.S. clear channel broadcasting. While the final rules will be set later, the FCC plans to break down all 25 Class I-A channels assigned to the U.S. Instead of the "coast to coast" protection all 25 Class I-A stations received in the past, the I-A signals will be protected only to a level of some 750 miles at night - and perhaps even less than that!
- ► DAYTIME BROADCASTERS URGE 9 KHZ SPACING FOR U.S.

The Daytime Broadcasters Association (DBA) has asked the Federal Communications Commission to reduce the present separation between AM broadcast stations from 10 kHz to 9 kHz, thereby creating 14 new AM radio channels to accomodate ,352 additional stations (168 per channel). The plan also calls for a slight expansion of the AM BCB.

Ray Livesay of WLBH-1170 Mattoon, IL, who is Ray Livesay of WLBH-1170 Mattoon, IL, who is chairman of the DBA, asked the seven commissioners who comprise the FCC to give the plan "serious study and consideration." Livesay called it "the first practical plan to be worked out" to give daytimers spectrum parity with fulltimers.

The plan would add a new channel at 530 kHz and 1610 kHz and realism existing channels of

The plan would add a new channel at 530 kHz and 1610 kHz, and realign existing channels at 9 kHz intervals - stations on 540 would move to 539; 550 to 548; 560 to 557; and 570 to 566. A new Class IV (i.e. graveyard) channel would be created at 575. Stations on 580 would shift to 584; 590 to 593; and so on, with new Class IV channels at each number ending in "5" - 665, 755, 845, 935, 1025, 1115, 1205, 1295, 1385, 1475, and 1565 kHz. (If these numbers seem femiliar to trans-Atlantic Divers, they should. familiar to trans-Atlantic DXers, they should. They happen to be the old "TA" frequencies, at least between 539 and 1538 kHz.)

Livesay is offering his allocation plan as a counterproposal to the FCC proposal for expansion of the BCB which will be suggested at the 1979 of the BCB which will be suggested at the 1979 WARC meeting in Switzerland (see separate story). The FCC figures that about 700 new AM stations could be accommodated by adding broadcast service from 1615-1860 kHz. Livesay says that almost 2,250 of the 2,352 new fulltime facilities under his plan would go to existing daytimers, so the DBA plan would provide for considerably less of an increase in new stations. He added that there was "absolutely not" any guarantee in the FCC proposal that daytimers would be allowed to move

proposal that daytimers would be allowed to move to any new fulltime channels above 1610 kHz.

Livesay says that there is considerable interest in South America for a 9 kHz plan.

Europe has had a 9 kHz plan for years, and the rest of the Eastern Hemisphere switched to a 9 kHz plan on 11/23/78. Any decision made at WARC for North American stations would also apply to Central and South America.

DBA points out that by expanding the AM band to 530-1610 kHz (it is presently 535-1605 kHz), rather than adding a band from 1615-1860 kHz, the FCC would keep AM service within the capacity of radios now in use. DBA says under the FCC's WARC proposal, daytimers would be able to move to fulltime operation only in the expanded (i.e. above 1610) portion of the AM band, which present radio sets could not receive. (Based on 12/11 and

sets could not receive. (Based on 12/11 and 12/18/78 <u>Broadcasting</u>, used by permission.)

Editor's comments: (1) The actual expansion of the AM BCB under the DBA proposal would have to be 525\frac{1}{2}-1614\frac{1}{2}\frac{1}\fra

action - just a renegotiation of treaties such as the North American Regional Broadcasting Agreement (NARBA). This would cut the new Class IV channels from 14 to 12, or limit the increase in new stations to 2,016, which is not quite enough to handle all of America's 2,250 daytimers. However, it also would not eliminate the Travelers Information Service (TIS) stations on 530, 1606, and 1612 kHz, and as such would not run into strong opposition from TIS licensees, most of which are government agencies.

strong opposition from TIS licensees, most of which are government agencies.

(3) It's also interesting that DBA is suggesting the former TA split channels (the ones leaving a remainder of 8 when divided by 9) rather than the new TA and TP split channels (the ones evenly divisible by 9). It would leave 1 kHz hets all over the band. Of course, I'm sure that Ray Livesay is not a DXer and as such was unaware of the exact frequencies used by TP's and TA's - he probably came up with these out of and TA's - he probably came up with these out of the blue. Putting the American stations on the the blue. Putting the American stations on the new TA/TP channels would eliminate hets (and, alas, most of our DX too, sigh). Of course, if we really wanted great TA/TP DX, we could recommend channels 4 or 5 kHz removed from the TA/TP splits (such as 544, 553, 562, etc.) and that would really help our country totals, hi hi. Be that as it may, a BCB starting at 540 and ending at 1602 probably wouldn't require an act of WARC any more than one stretching from 539-1601, as mentioned above. -BH. FCC PLANS TO SEEK BROADCAST-BAND EXPANSION TO 1860 KHZ AT 1979 WARC SUMMIT

(See items in 12/23/78 DXM, p. 177, and 9/23/78 DXM, p. 31.)

The FCC has prepared its final report and order on the position the United States will take at the 1979 World Administrative Radio Conference (WARC), to be held in Geneva, Switzerland, starting in September. WARC summits are held each 20 years to determine how the entire radio spectrum (from longwave to satellite frequencies) will be divided up among all nations of the world. Thus, this first general WARC since 1959 will be very important for 20 years to come.

After mulling various proposals to expand the AM broadcast band (including the possibility of adding longwave - 115 to 190 kHz - in the Western Hemisphere, which idea was dropped partly because of complaints from power-line companies), the FCC has decided to ask that the AM band be expanded by adding a band from 1615-1800 kHz, to be shared between broadcasting and other services, and a band from 1800-1860 kHz, to be used exclusively for broadcasting. The FCC figures that, given engineering and regulatory constraints, 14 new channels would be created that could accommodate about 700 new stations. The FCC hopes that the proposed expansion would help diversify the ownership of broadcast stations and would help create new opportunities for minority ownership. Since few AM receivers tune as high as 1860 kHz, and in fact few tune very far above 1600 kHz at present, new AM radios (at about the same cost as at present) would be needed to pick up the new

The FCC decided against asking for 1605-1615 kHz (currently used by Travelers Information Service [TIS] stations on 1606 and 1612 kHz) or expanding the AM band downward to start at 525

rather than 535 kHz (TIS stations are also assigned on 530 kHz).

There are 154 member countries at WARC, many of which are developing or "Third World" countries that didn't even exist during the 1959 WARC. The U.S. has only one vote. The U.S. State Department will do the actual negotiations for the U.S. using the FCC report and order as a guide. final outcome may be vastly different from the proposals taken into the summit.

WARC and the International Telecommunication Union (ITU) have divided the world into three zones, for purposes of determining allocations:

e Region I - Europe and Africa
e Region II - Western Hemisphere
Region III - Asia and the Pacific
Of interest here will be proposals for Region
II, which includes North, Central, and South
America (plus the Caribbean, etc.). Whatever changes in the BCB are adopted for Region II will

hanges in the Boare adopted for Region II will be binding upon the United States.

As a footnote, the U.S. has also proposed changes in the amount of spectrum available for satellites, international shortwave broadcasting, and a variety of specialized services. Check the and a variety of specialized services. Check the various communications magazines and SWL clubs for developments on those matters. Meanwhile, about next October or November, DX Monitor should be able to tell you what changes, if any, WARC '79 will make in the size of our AM BCB. -BH. (Based on 1/1/79 and 12/11/78 Broadcasting, used by permission.) permission.)

► FCC DECIDES TO BREAK UP THE "I-A" CLEAR CHANNELS:

(See item in 12/30/78 DXM, p. 189.)
The FCC has decided against "superpower" for America's 25 Class I-A 50kw clear-channel stations, and has decided to assign a select number of new fulltime stations on each of the 25 channels. Once the final rules are adopted, sometime in 1979, it should have an impact on clear-channel DXing

it should have an impact on clear-channel DXing for a long time to come.

On 12/19/78, the FCC adopted a "further notice of rulemaking." This means that the FCC plans to adopt the rules within a few months, but wants a few final comments on how to fine-tune the rules. In particular, the FCC wants to choose between two alternate proposals - one which provides a radius of about 750 miles of protection to each I-A station at night; and one which provides only the same protection day and night - a radius of only 150 miles, or less!

150 miles, or less!

The FCC has pondered what to do with the clear channels since the 1940's. The clear-channel concept dates to the 1930's, when certain frequencies were set aside in the U.S. and Canada for exclusive nighttime use by one station apiece. These assignments were included in the original 10h1 NAPPA tractic which classes are the content of the 1941 NARBA treaty, which also assigned clear channels for Mexico, Cuba, and other North
American countries. The Class I-A stations were
protected from coast to coast, allowing nighttime
radio service to areas with no local stations.

In 1961, the FCC decided to experiment with about half of the I-A clear channels. On some of the channels with I-A assignments in the eastern U.S., where the I-A signal was of little value in the western U.S., the FCC permitted a second nighttime operation on each, to serve sparsely-populated areas of the West, such as Nevada, Idaho, Wyoming, etc., with at least 10kw nighttime, utilizing a directional pattern that would protect the I-A station's regular nighttime service area in the East. These are the Class II-A assignments. Since 1961, the FCC has studied the impact of the II-A stations on I-A coverage, while keeping its options open. These options included granting "superpower" up to 750 kw to some or all of the unduplicated I-A stations, or breaking down some or all of the I-A channels with more fulltime stations.

Well, then, this finally is the FCC's decision. The I-A channels assigned to the United States will be broken down.

The FCC wants to choose between two alternatives. The "primary" alternative (meaning the one more likely to be adopted) would protect the I-A stations to their nighttime skywave (skip) coverage area receiving at least a 0.5 my/m signal 50% of the time. (In laymen's terms, the station would be easily received on a simple home, car, or portable radio most of the time. Since most radio listeners don't use an elaborate radio, like DXers

tend to use, a signal too weak to be heard easily is of little value to those listeners.)

This protected area reaches a distance of about 750 miles for most of the I-A stations. Three of America's I-A stations use directional antennas (namely, WWL-870, WBZ-1030, and WWWE-1100), so the distances might be slightly more in certain directions for those three stations. This is the same level of protection that the Class II-A stations presently provide to the duplicated I-A stations. Any signal stronger than 1/20th as strong as the protected signal is not allowed. (In other words, if the I-A station has a 0.5 mv/m signal, the II-A station cannot be stronger my/m signal, the II-A station cannot be stronger than 0.025 my/m, which is awfully weak!) So, you won't find new fulltime stations springing up 751 miles from a I-A station - the new stations must be far enough away from the I-A to keep any signal from coming within 750 miles of the I-A. Also, where two or more fulltime stations operate on the same channel, the signals are combined mathematically (by the root-sum-square method, I believe), which recognizes that two stations believe), which recognizes that two stations generate more QRM than one station. So, hopefully, the clear channels won't end up sounding like graveyards.

This primary proposal would allow for some 80 to 100 new fulltime stations on the clear channels themselves, plus another 25 stations on adjacent channels. This would allow 3 to 5 new fulltimers on each I-A channel, since some like 700 and 1200 are presently unduplicated, and some like 1020 and 1100 have two existing fulltime stations apiece besides the I-A's. The FCC says that, once all the possible fulltime stations are on the air on each channel, additional daytimers that would not block new fulltime assignments could be added.
Now, let's lock at the <u>alternate</u> proposal.

The alternate FCC plan would protect the I-A stations only to their 0.5 mv/m groundwave contour -- in other words, their daytime service area! -- in other words, their daytime service area!
(Class I stations are currently protected to their
0.1 mv/m contour, so this would be a decrease in
protection, if adopted.) Depending on the ground
conductivity of the local area, this ranges from
a radius of 80 to 150 miles out! So areas served
only at night would not be protected from interference.

The FCC figures that this alternative would allow 3 or 4 additional stations on each channel. And the FCC is particularly interested in squeezing more stations onto the clear channels east of the Mississippi, where AM and FM daytime service is more plentiful than in the West.

Even with the more conservative proposal of

Even with the more conservative proposal of the two, the FCC staff believes that about 125 new stations could be added on (or adjacent to) clear channels. This could result in perhaps as many as 600 applications for the stations, and that in turn could result in as many as 100 comparative hearings. FCC Chairman Charles D. Ferris says the FCC will ask Congress for a

rerris says the FCC will ask Congress for a new law that would allow such competing applications to be decided by a lottery -- an idea that has been suggested before.

The FCC is also interested in improving the ratio of radio stations owned by minorities. For one thing, minority owners could be given some kind of enhanced chances in any lottery procedures such as those just mentioned. For another, the FCC might waive certain rules that limit the entry of new AM stations into large, well-served markets. The FCC notes that many minorities live in those large markets.

At one time, 20 million people lived in areas not served by a local AM or FM station at night. The FCC says that, thanks to the surge of interest in AM and FM, that number is now down to 4 million.

4 million.

Comments on the new rules should be due in at the FCC in a month or two; then, the FCC will issue the new rules. Meantime, potential fulltime issue the new rules. Meantime, potential fulltime station operators are getting applications ready. Some of the "limited time" stations may finally succeed in their efforts to go "fulltime" (KXA-770. already has its application in, again; WAIT-820 and others will probably try again too). There are only 14 "limited time" stations left in the U.S.A. (there were 16 before KTNQ-1020 and KFAX-1100 went fulltime); maybe before long there will be none of these relics of an earlier radio age left around. --BH.

(Based on 1/1/79 Broadcasting, used by permission, and other known data including FCC

Page 258...January 27, 1979

One important comment: The breakdown does not apply to the I-A channels assigned to Canada (590, 740, 860, 990, 1010, 1580), Mexico (730, 800, 900, 1050, 1220, 1570), or both (540). Most nighttime operations on these channels will continue to be severely limited by treaties. (1540 is a I-A channel within 650 miles of the Bahama Islands, but a I-B channel beyond that distance.) Clear channels such as 680, 710, 810, 850, etc. that are assigned as Class I-B do not seem to be involved in this rulemaking.

IRCA SPORTS NETWORK UPDATER Bill Hardy, Editor

▶ NBA Updater (see 12/30/78 DXM, p. 199)
Greg Monti and Steve Apel send the following addition to the Philadelphia 76ers net: 1420 WCOJ-PA

Greg also doubts that the New Jersey Nets have a network on radio, but the radio audio is simulcast on over-the-air TV and cable-TV, so the net announcers use the expression "network" at ID time.

NHL Updater (see 12/30/78 DXM, p. 199, and 1/13/79 DXM, p. 224)

Boston Bruins: Greg Monti ID's our "mystery station" as WNVR-1380, Naugatuck, CT (ex-WOWW).

New York Islanders: Greg adds two more stns to the net: 610 WIOD-FL, and 1370 WALK-NY*+ (the latter listed as WALK-FM Patchogue, NY, but WALK-1370 always simulcasts w/FM per Greg). WALK-1370 always simulcasts w/FM per Greg).

▶ WHA Hockey
As of mid-January, I only have station lineups
for two of the teams in the faltering World Hockey
Association: Cincinnati and Quebec.

Association: Cincinnati and Quebec.

Tim Cronin advises that the Cincinnati

Stingers are on WIW-700.

Dan Sys and Eddie Ryan send the following

lineup for the Quebec Nordiques, in French:

1240 CJAF-QU 1310 CHGB-QU 1420 CJMT-QU

CIRB-QU 1350 CHAL-QU 1460 CKRB-QU 1280 CKCV-QU 1400 CJFP-QU (no FM's)

Anyone know the play-by-play status of any other teams in the WBA?? Please send to Tim Cronin (address 1/13/79 DXM, p. 224) or Bill Hardy.

Pro Basketball
Mike Endza tells me that there are a couple of
minor pro-basketball leagues! One of them, the
Western Basketball League (or WBA as I've seen it
listed in an item from Bill Harms), has a team
with radio play-by-play: the Utah Pros are on
KALL-910, Jerry Howarth doing pbp. Now you know...

NFL Football
Looking ahead to next season, an item in
1/8/79 Broadcasting (used by permission) says the
New York Jets have signed an exclusive five-year
contract with WCBS-880 for play-by-play radio
coverage of all Jets games (4 preseason and 16
regular games per year, plus playoffs if the team
qualifies). The contract begins Aug. 1979 and
continues thru the 1983 season. In 1978, the Jets
were on WOR-710. WOR did not have a regional
network (neither did the Giants on WNEW-1130).
Anyone know if WCBS plans a Jets network? -- HH. Anyone know if WCBS plans a Jets network? -- PH.

Major-league baseball Thanks to Mort Meehan for an interesting clipping on coverage of baseball in the Palm Springs/Indio/Coachella area of California. Seems that KCMJ-1010 Palm Springs signed a contract in December to carry the American League's California Angels in 1979. Also, verbal agreement allows Golden West Broadcasters to agreement allows Golden West Broadcasters to supply KCMJ with L.A. Rams football, plus UCLA college football and basketball. That'll start next year. KCHV-970 Coachella, 20 miles east of Palm Springs, has had the Angels, Rams, and both UCLA nets in 1978. It is possible that both KCMJ and KCHV will carry all those sports, but KCHV management isn't happy with the proposal (it means KCHV would carry the games free) so that might not

Mort points out that Gene Autry (the old singing cowboy of movies, records, and radio) owns the Angels, Golden West Broadcasting (which has the Angels radio rights and also owns the flagship KMPC-710), and the Gene Autry Hotel in Palm Springs. The Angels train in Palm Springs each spring. Mort says KCMJ recently moved its studios to the Gene Autry Hotel. A spokesman for Golden West says they signed up KCMJ for Angels games

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because the team is closely identified with Palm Springs, and the ballclub and sponsors felt it would be "in everyone's interest" if a Palm Springs station was on the network. He said they liked their association with KCHV, but he said it was more of a regional station.

more of a regional station.

KCHV-970 has carried the Angels each of their first 18 seasons, thru 1978. In Palm Springs, KPAL-1450 (now KPSI) picked up the Angels along with KCHV in 1964-1969. KCHV was alone in 1970-71. KPSI-1450 and KCHV carried the 1972-73 seasons, then KPSI switched to the Dodgers and KCHV has been the only Angels outlet since then. KCMJ is already heavily into sports thru its CBS affiliation. Will KCHV carry the Angels in 1979? KCMJ says yes. KCHV says no. Golden West says maybe both will be on the Angels net. Soon, we'll know.

For the first time in 1979, CBS Radio Network will cover three major tennis tournaments: The Grand Prix Masters (1/10-1/14), the WCT Finals (4/30-5/6), and Wimbledon (6/25-7/7). CBS will also cover the U.S. Open Tennis Tournament (8/28-9/9), which CBS has covered since 1973.

In colf CBS Radio is handling six tournies

9/9), which CBS has covered since 1973. In golf, CBS Radio is handling six tournies in 1979. The Tournament Players Championship (3/22-3/25), the Masters (4/12-4/15), Ladies Professional Golf Assoc. (6/7-6/10), U.S. Open (6/14-6/17), British Open (7/19-7/21), and PGA Championships (8/2-8/5).

In both sports, most coverage is concentrated in the content of the cont

In both sports, most coverage is concentrated in regularly-scheduled sportscasts, plus special reports (such as :45 or :50 past the hour) on Saturdays and Sundays and which are greatest in number on the final day of the tournament. Ed Ingles is frequently anchorman of tennis coverage.

CBS has also added "The Golf Spot," with Nick Seitz of "Golf Digest," and "The Tennis Spot," with Shep Campbell of "Tennis" magazine. Both are heard on Saturdays and Sundays (time not listed).

► CBS, NBC announce Olympics coverage

with all the media attention on the millions of dollars NBC-TV paid for exclusive TV rights to the 1980 Moscow Olympics, few people realize that the radio rights to the Winter and Summer Olympics are nonexclusive. This means that any radio network can cover the games, and CBS and NBC Radio have already started doing just that.

NBC Radio is using the umbrella title, "Olympic Odyssey," for 984 programs from 1/2/79 till 18/3/80. From 1/2/79 till 12/31/79, a daily 4½-minute program fed at 1745 ELT will cover various preparatory events such as NCAA, AAU, Olympic trials, World Cup Gymnastics, the Millrose indoor track and field games, and the Pan American Games.

American Games.

American Games.

From 1/1/80 till 7/18/80, the daily 4½-minute programs will double to two per day, at 1645 and 1745 ELT. These include coverage of the Winter Olympics at Lake Placid, NY, in Feb. 1980.

The most extensive coverage, of course, will be from 7/19/80 till 8/3/80, when the Moscow Olympics are actually underway. NBC will air five 4½-minute reports on opening day and on closing day. In between, there will be an 8½-minute opening report at 0545 ELT, another 8½-minute wrapup at 2245 ELT, and thirteen 4½-minute actuality reports in between, hourly from 0645 till 1845 daily. (NBC Radio info from 10/2/78 Broadcasting, used by permission.)

CBS Radio, meantime, has 728 programs from 1/27/79 till 8/3/80. Former Olympians Pat McCormick and Parry O'Brien will join CBS sportscasters Pat Summerall, Brent Musburger, Win Elliot, Jim Kelly, and Ron Weber for the

Win Elliot, Jim Kelly, and Ron Weber for the

CDS coverage kicked off 1/27/79 with a series of weekend reports, "The Olympics." Early this year, CBS will add a series titled "The Olympic Trials," covering major qualifying events like the Skiing World Cup Race, ice hockey and figure coverage. the Skiing World Cup Race, ice notice and light skating, NCAA, AAU, swimming, and diving. In August 1979, there will be a series of reports from "The Pan American Games" in Puerto Rico.

"Countdown to the Games" will provide extra coverage for six weeks before the 2/13/80 opening

coverage for six weeks before the 2/13/80 opening of the Lake Placid Winter Olympics, and for six weeks before the 7/19/80 opening of the Moscow (USSR) Summer Olympics. Coverage of the games themselves will be titled "The Olympic Games." CBS plans to sell sponsorship to national advertisers, with their distributors getting an opportunity for local tie-ins. (CBS Radio info opportunity for local tie-ins. (CBS Radio from CBS Press Information Services.) -BH.

NEW YORK TIMES, WEDNESDAY, JANUARY 10, 1978

U.S. Seeks Channels For 700 New AM Stations

By ERNEST HOLSENDOLPH

Special to The New York Times

Special to The New York Times
WASHINGTON, Jan. 9 — The Carter
Administration plans to try to open the
way for the creation of up to 700 AM
radio stations and the development of
low-powered television stations that
could serve rural areas and even some
whan communities.

could serve rural areas and even some urban communities.

The plans go beyond a proposal last month by the Federal Communications Commission to allow for up to 125 new AM stations by ending its policy of maintaining 25 "clear-channel," 50,000-watt stations to provide broadstoverage to remote communities. The new proposals are designed to increase competition in broadcasting and give members of minority groups a better chance to own stations.

The Administration plans to ask the Federal Communications Commission this week to begin proceedings to carry out the plans.

To Show the World'

"To Show the World"

"To Show the World"

"We think," Henry Geller, the Administration's communications policy chief, said, "these policies would help to increase healthy competition in the broadcast media and also show the world that we intend to make the most efficient use of our spectrum."

The new radio stations could be added to those now broadcasting by reducing the spacing between frequencies. This is now done in Europe and elsewhere outside the Western Hemisphere. Technically, this means reducing the spacing between the frequencies from 10 kilohertz to 9 kHz.

There are 4,500 AM and 4,000 FM stations. In many areas, especially urbanzones, the AM band is virtually completely allocated.

In addition, the F.C.C. has recently

pletely allocated.

In addition, the F.C.C. has recently asked the State Department to seek additional wavelengths for several hundred new stations at the World Administrative Radio Conference this year.

ministrative Radio Conference this year.

Mr. Geller heads the National Telecommunications and Information Administration of the Commerce Department, and developed the proposals in concert with the White House domestic-

"translators" as a way to reach rural areas that have few stations, and some urban minority or ethnic communities that might be served by special-inter-

that might be served by special-interest programs.

Translators are an alternative to cable systems where a transmitter—
susually working with low power—
picks up and repeats programs being
broadcast in a distant community.
Under proposals before the commission, these translators would be authorized for wider use, and in some cases
allowed to originate local programs.

Elsewhere, including Western Europe and Africa, reduced spacing in the
AM band has already been adopted,
Mr. Geller said. But the policy, if
adopted here, would have to be implemented together with Canada, Mexico
and Latin America to avoid interference problems.

Among the benefits of the new spacing, he said, would be the possibility of
sew assignments in the crowded AM
band; improved local broadcasting
under local ownership, including minorities; less reliance on daytime-only
stations, and worldwide uniformity of
broadcasting technology.

Such uniformity would make it possible to develop better radios with electronic digital tuners, according to the
communications administration.

Wider use of low-powerd television
transmitters, broadcasting on unused
urban channels, could provide significant new voices, according to Mr. Geller.

The telecommunications agency continues to support the Government

The telecommunications agency continues to support the Government policy of aiding minorities in purchasing existing stations, Mr. Geller said, but the new stations could provide a faster way to increase minority impact in the ownership and management of broadcasting outlets.

There are some drawhacks associated with the proposals. Reduced spacing could make some inexpensive radios obsolete, and the frequency shifts would create some expenses for broadcasters, who would have to make changes in their transmitters.

However, the Administration favors the changes because if feels they would enhance competition and possibly create an atmosphere where there would be less need for Government regulation of radio broadcasting. The telecommunications agency con-

Whb radio

THE NEW YORK TIMES, THURSDAY, JANUARY 11, 1979

FOXWERTH

A Plan for Increasing
Radio Stations in U.S.

Is Termed Inadequate

Specific Tener Yeak Lines
WASHINGTON, Jun. 10 — Representative Lineal Van Deerlin, Democrat of California, has called inadequate the proposals by the Federal Communications Commission to increase the number of radio stations in the country.

In a letter to a fellow member of the House that was made public today. Many the desired substances at night, and substituting about 125 local stations.

The commission is sufficiently a found in the possibility of eliminating clear channel stations, which can be heard over long distances at night, and substituting about 125 local stations.

The commission is sufficiently about 125 local stations.

ownership of broadcasting outlets by members of minority groups.

In a letter to Representative Paul Findley, Republican of Unions, who has been active in his support of water operations and the the commission plan to daytime hours, Mr. Van Deerina saidt.

The proposal for 128 new fulltimes to do the said to do the said to find outlets for minority breadcastins, the said in his letter: "It will be many years before code stations and to find fulltime frequencies for those now relegated to broadcasting during the daytime hours."

A spokesman for the Federal Communications Commission said that the proposal to increase the number of stations by reducing the protection to clear the said that a mich more munications. Commission said that the proposal to increase the number of stations by reducing the protection to clear the said the commission has innoved.

WBAP: Pittsburgh, WCAE; Winnipeg, Ont., CJGG; College Park, WDAJ; New York, WBAF; Minner-polis, WLAG; Lode, port, WMAK; Chicareo, WMAG); Boston, WAG; Jefferson Giv, WOS; Atlanta, WSB. In all Ibave heard 52 stations. The sarrhest is Honolulu Hawaii KDYX, about 4800 miles. I am using a tickler circuit and one-stage of audio-frequency, which I

rrs brief and informative, a of the proper only, i book-ups will be pub-Let possible numbers of

Men, Send 'Em in Me nd 'Em in! Stuff! Ser Send ' Page 260...January 27, 1979

Hom Maxwell Davidson, Jr., Lawrana, L. I.

Balletti, a combart reader of Rakmu Wazala

Bandtheying it weeky. I have noticed the column deveyed to the Dixtra. I have not motived maily anattern's listed, however. I am seeding my client Cells, (four mannish) and, if it is not imposing, I would like particularly to see my list politisted. I find a 45-pine variable conducar in series with my ground and selectivity. WOR, WICH, WICH, WICH, WOO, WPI, WARA, WIP, WOO, WPI, WARA, WIP, WOO, WPI, WARA, WIP, WOO, WPI, WARA, WOO, WPI, WARA, WOO, WPI, WARA, WOO, WWAY, WOO, WILL, WOO, WILL, WIND, WILL, WOO, WILL, W

ACB, 2CFD, 1BKA, 1RI, 1B AWL, 2CFW, Grand total 93. Can prove al date. Would like to cr cith any Grebe 9 owner.

"Out Where the West F

A M a subscriber to Rann Words and
there are some of the stations I get on a
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Chicago, San Francisco and Canada. We all
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have a loue-greater might try this one; Put
phones in coffer cups and note the results.
I have a loues full of music every night with
detector tule, 2003-bohm, head set and coffec
ents. Try H.

Gotta Show Us YiKnow!

From H. R. Carl, Jackow, Mich.

A S. a reader of the Racto Wonth and
Cowle's records. I mirrored of the "DX Nice
Owle's records. I am sending my record of
45 stations in one evening from 7:00 to 9:00
object, F. M.
Tilgy are, 35. Lautis. KSD;

cts can dealers

products good des Z-stage, 3-stage,

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THE

Onkland, California N.Y. Office: 378 Seventh A MAGNAVOX

The Magnavox can be used with any receiving set—the letter the set, the more Magnavox can do for you. OFFICIAL tests with the oscillograph prove that the Magnavox elecproduces incoming wave forms with maximum actro-dynamic receiver re-Reproducer curacy.

Auburn Corne in QSA From On Lyon, 33 Main St. Anhum, Ind.

READD in a recent issue of Ramo Would be arrich relative to the distance of a single-circuit cheretor this set. Los Angeles, Gal, etalion, K.H.; Wompeg, Carada, ClG, Dallas, Texas, WFAA; Port Worth, Texas, WBAP; Newark, N.J., WOR; Alland, Gal, WGM, Harang, Club, PWX, as well as several intermediate stations. Mr. Gay Petralmone constructed the hook-up which I used in tuning in for the above named stations. Mr. Gal, interminant infers in Aubum, Ind. My arerial is 18 feet long.

When you purchase a Magnavox you possess an instrument of the very highest quality and efficiency.

Registers WOW!! California

From East Knifton, Gravit, Child Information of Mr. Indiatron, of Baraboo, Wisnessanding his hearing wice and music from the children, of Mr. Indiatron, of Baraboo, Wisnessanding his hearing wice and music from his offer of the factor. If Mile Pedhom (old timbon), of Wood River, Ill, sink retting likeraths from his ideal location would advention of disord his creative set and make himself a good one. Work Wood, WOAT, KSD, and Purz Wedesday and Statistics. However, we hear WLW, WOA, WOAT, KSD, and Purz Wedesday and Statistics. However, we hear WLW, WOA, WOAT, KSD, and Purz Wedesday and Statistics. However, we have with the form of the 73 and Purz Wedesday and Statistics. However, we have not expect to the many many and it has many to patent about this set, hus in one ex-erycet to turn an anything and spide-wheel prome a set of the state of homes are such and can substantial

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This instrument is intended for those who wish the utmost in amplifying power; for clubs, hotels, dance hall, large audiences, etc. It requires only .6 of an ampere for the field. Price, \$60.00

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The ideal instrument for use in homes, offices, ama teur stations, etc. Same in principle and construction a Type R2.

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RI Magnavon Racka with 14-inch harn

For use with the Magna-ox Radio and insures get-ing the largest possible

if Editor of RADIO WOULD.

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THE INTERNATIONAL RADIO CLUB OF AMERICA

A non-profit club devoted to listening to distant radio stations on the broadcast band (510 to 1630 kHz). IRCA is a member of ANARC, the Association of North American Radio

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Dave Williams Box 615, Hwy 101 Astoria, OR 97103