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Happy New Year!

Notes from HQ

Steve Mittman sent us some information on a new publication called "Radio Guide". It's a TV-Guide type listing of radio programs aired by Los Angeles area stations. It's available for free at various Los Angeles area stores, or they can send it to you for \$25 a year (26 issues) from Radio Guide, PO Box 1139, Venice CA 90294. The listing is interesting, but it's likely only useful to those who frequent the LA area.

Shawn Axelrod has become the first person to receive a year's free membership by sending us a list of potential members. Four of the people on his list have already joined. You could also get a year's free membership. All you have to do is send us a list of people you know of who are interested in Broadcast Band DXing, or talk some folks into joining the IRCA. If four of them join for a full year (trial memberships etc are prorated), you get a free year's membership. Congratulations Shawn.

Amplifications: The Backcountry Booster reviewed a couple issues back was obtained via the Whole Earth Catalog, who sent it to Robert Horvitz, who sent it to us. John Johnson says KTWO-1030 dropped their AN program months ago, despite a recent flash tip from yours truly (shows how much I've DXed lately, hi). The newspaper clip last week was from the 12/9 Seattle Times.

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Election News

Don't forget to send in your nominations for club officers for the upcoming election. Elections will be held in March for President, Secretary-Treasurer, and Board of Directors of the IRCA, and nominations are now open. Every IRCA member in good standing may nominate one person each for Pres and S-T, and seven persons for BoD. You can even nominate yourself, if you so wish. The only qualification for club office is one year's continuous membership. Nominations will be open until January 15. Nominees will then be sent notified by mail and given instructions on preparing their campaign statements. Send your nominations to election chairman Rich Segalas, PO Box 26254, San Francisco, CA 94126. Watch these pages for more election news, and information on the TVA Award, which will also be voted on in March.

Photos Wanted

We're planning to have a photo section in the 25th anniversary issue, with pictures of past and present members, either individually or group shots. If you have any good photos from past conventions or get-togethers, photos of other members, or a photo of yourself that yourself, then go ahead and send it in. Include an SASE if you want it back after we've printed it.

broadcasting information

Litor: Geov Parrish, 1201 S. Court House Rd., Arlington VA 22204
 Deadlines: Jan. 7, Feb. 4, Mar. 4, etc. * * * compiled 12/10/88

It occurred to me that the deadline for next column fell smack in the middle of Christmas holidays, and, combined with my own sloth/hectic schedule, I pushed the deadline back a bit. With six weeks of material some of this stuff is a little stale, but other parts are very fresh...

NEW STATIONS

call	KHZ	power/antenna	state/city
KJCC	540	500/	DA-D CA CARMEL VALLEY granted 10000/500 w DA-2, reinstatement of expired CP
KIPA	620	5000/5000	ND HI NAALEHUE sync. xmtr is on the air
WIOF	640	826/979	ND FL WILDWOOD on the air, religious
WGHT	640	1000/250	ND MI ZEELAND app. returned for 250 w days, move to Merrillville IN; then reapplies
KMCE	650	25000/5000	DA-2 CA RANCHO CORDOVA granted extension of time
new	650	2500/1000	ND NV LAS VEGAS application dismissed
KMVP	670	5000/1000	DA-N CO COMMERCE CITY granted extension of time
WWFE	670	50000/2500	DA-2 FL MIAMI requests extension of time
WNYR	670	2500/	DA-D NY SYRACUSE dismissed app. for 2200 w, new xmtr location
WRZN	720	10000/250	ND FL HERNANDO requests extension of time
WLFP	730	500/	DA-D FL LAKE PLACID requests extension of time
new	730	700/500	DA-2 NV SUN VALLEY new application
KSPO	740	500/	ND-D WA DISHMAN granted change in xmtr location, reinstatement of expired construction permit
KAIG	750	250/	ND-D LA GRETNA granted change in xmtr location
WEND	760	10000/1000	DA-2 FL BRANDON on the air
KNCI	760	6000/	DA-D KS OVERLAND PARK granted extension of time
WVNE	760	5000/	ND-D MA LEICESTER granted reinstatement of exp. CP
WCHP	760	25000/	DA-D NY CHAMPLAIN on the air, religious
new	790	??/	? NC THOMASVILLE application, vs. WTNC-790
WAWB	810	2500/	ND-D GA HAHIRA granted extension of time
KSRT	830	2500/1000	DA-N CA ORANGE granted another extension of time, change in xmtr location
KIKN	840	5000/1000	DA-1 TX PHARR on the air, country
WLPY	840	250/	DA-D VA PURCELLVILLE granted extension of time
new	870	1000/410	DA-2 CT POQUONOCK new application
new	870	??/	? ME HALLOWELL application dismissed
new	870	??/	? NH SUNCOOK application dismissed
KGGN	890	1000/	DA-D MO GLADSTONE requests extension of time
KNSA	930	2500/2500	ND AK UNALAKLEET granted reinstatement of exp CP
KBIB	1000	1000/	DA-D TX MARION granted extension of time
new	1020	10000/1000	ND BC TERRACE granted
new	1020	10000/1000	DA-N NS NEW GLASGOW granted
new	1020	10000/1000	DA-N ON KENORA granted
WONS	1030	1000/	ND-D KY PLEASURE RIDGE PARK granted ext. of time, dismissed app. to change xmtr location
WTGR	1030	10000/	DA-D WV POINT PLEASANT wants new xmtr location
new	1030	10000/300	ND AB EDSON granted
KIRS	1040	9500/4500	DA-2 CA SAN DIEGO granted reinstatement of exp. CP
WKAO	1040	10000/1000	DA-N SC HANAHAN granted reinstatement of exp. CP
KFIT	1060	4400/	DA-D TX LOCKHART requests extension of time for synchronous xmtr
WIBS	1090	250/	ND-D VI CHARLOTTE AMALIE on the air
new	1100	10000/5000	DA-N NF CORNER BROOK granted
new	1110	5000/	DA-D AZ TUCSON ESTATES amends app. to 2500 w DA-D
WJOK	1120	500/	ND-D AL HOBSON CITY requests extension of time
WFOU	1120	1000/	ND-D FL DESTIN on the air, rock oldies
WLJH	1120	1000/	ND-D MS PETAL granted reinstatement of expired CP
new	1120	10000/250	ND BC FORT ST. JOHN granted
new	1120	50000/20000	DA-N NS HALIFAX granted
new	1120	10000/2500	DA-N ON TIMMINS granted
WNHA	1140	10000/	DA-D NH CONCORD requests extension of time
WKWA	1160	10000/1000	DA-N AL MOBILE applies to change xmtr location
WELX	1160	50000/500	DA-2 FL CALLAHAN granted extension of time
W/NJ	1160	10000/2500	DA-2 NJ OAKLAND target date is now 5/1/89

new 1160	10000/2500	ND	AB VEGREVILLE granted
new 1160	10000/2500	DA-N	PQ BAIE-COMEAU granted
WHYT 1180	10000/	DA-D	NC CAROLINA BEACH requests extension of time
WLRG 1180	1000/	ND-D	SC TIMMINSVILLE wants reinstatement of exp CP
WHJM 1180	10000/	ND-D	TN KNOXVILLE on the air, rock oldies
new 1180	10000/1000	DA-N	PQ PERCE granted
WMIW 1190	690/	DA-D	SC ATLANTIC BEACH requests extension of time
KTCD 1200	10000/1000	DA-N	CA EUREKA granted change in xmtr location, extension of time
KRDE 1200	5000/1000	DA-2	CA PISMO BEACH granted reinstatement of CP
new 1200	??/	?	KY PLEASURE RIDGE PARK amends app. to change to 50000 w critical hours, DA-3 to DA-2
new 1200	5000/1000	DA-2	NC ATLANTIC BEACH granted
new 1240	1000/1000	ND	NC ELIZABETH CITY application, vs. WCNC-1240
new 1310	??/	?	NC CHARLOTTE application, vs. WGSP-1310
new 1340	250/250	ND	NH MADBURY granted
KZOI 1360	500/	DA-D	CO JOHNSTOWN granted reinstatement of exp. CP
WSTL 1410	1000/	ND-D	NY SOUTH GLENS FALLS on the air (finally!)
new 1410	??/	?	NC DURHAM application, vs. WSRC-1410
WWLO 1430	2500/	DA-D	FL GAINESVILLE applies to change xmtr locatn
WVAK 1450	250/250	ND	FL REDWATER LAKE on the air
KULA 1460	5000/5000	ND	HI MAUNAWILI granted extension of time
new 1500	1000/	ND-D	FL ST. CLOUD granted
KJSM 1520	20000/5000	DA-2	WA SEQUIM granted extension of time
WDAW 1530	1000/	DA-D	VA HAYMARKET app. dismissed for 500 w days
KOZR 1550	800/	ND-D	CA APPLE VALLEY applies to change ND to DA
WYZQ 1560	1000/	DA-D	KY HAZARD on the air
KEZD 1580	250/	DA-D	CA WINDSOR requests extension of time
new 1590	500/	ND-D	WI NEKOOSA granted
new 1600	5000/5000	DA-1	MN WATERTOWN new application

When you see a new station whose CP is denied or request for extension of time is refused, don't get your hopes up that the CP is a moot point. Even though the decision sounds final, a licensee can and usually does apply to have the decision reversed, and those applications are often granted...and, of course, if a CP truly is revoked, anyone else can come along and apply for the same or a similar facility. The effect of one of these denials is usually to delay a new station's appearance - not a permanent cancellation.

CHANGES IN EXISTING FACILITIES

<u>call</u>	<u>KHZ</u>	<u>power/antenna</u>	<u>state/city</u>
CJSB	540	50000/10000	DA-2 ON OTTAWA granted 12500 w nights
WGAN	560	5000/5000	DA-1 ME PORTLAND applies for 4800/4800 w DA-2
WAEL	600	1000/1000	DA-1 PR MAYAGUEZ applies for 5000/5000 w
WIEZ	670	6000/1000	DA-N PA LEWISTOWN granted 5400 w days
CHSJ	700	10000/5000	DA-2 NB SAINT JOHN granted 50000/10000 w DA-2
CJRN	710	5000/2500	DA-2 ON NIAGARA FALLS granted 10000 w days
WACE	730	5000/	ND-D MA CHICOPEE applies for 500 w nights DA-N
WWAX	750	400/	ND-D PA OLYPHANT granted 1600 w days
WWBC	770	5000/500	DA-2 FL ROCKLEDGE granted 1000/490 w, change xmtr location (for CP; stn is still on 770 KHz)
WAPO	820	1000/	ND-D TN JASPER applies for 5000 w days
WNYC	830	1000/1000	DA-1 NY NEW YORK granted extension for move to 820
KPRM	870	15000/1000	DA-N MN PARK RAPIDS reapplies for 25000 w DA days
KAAN	870	1000/	ND-D MO BETHANY applies for 930 w days
KGHT	880	10000/220	DA-N AR SHERIDAN applies for 50000 w days (for CP; stn is silent, last on 1540 KHz); granted reinstatement of CP for move to 880 KHz
KBB1	890	5000/5000	ND AK HOMER applies for 10000 w
WSEA	900	1000/	ND-D DE GEORGETOWN applies for 4000 w nights
KTIS	900	2500/	ND-D MN MINNEAPOLIS granted 50000/300 w DA-2
WCPA	900	1000/70	ND PA CLEARFIELD amends app. to 2500 w days
KBNA	920	1000/500	DA-N TX EL PASO granted 360 w nights
KRRS	1000	1000/	ND-D AZ BULLHEAD CITY applies for 5000 w days
WQYK	1010	50000/50000	DA-2 FL SEFFNER applies to modify day DA
CFYQ	1010	??/	?
WNTK	1020	6500/	DA-D NH NEWPORT on the air ex-1010 KHz
WUFL	1030	5000/	ND-D MI STERLING HEIGHTS applies to modify DA
KLHT	1040	10000/10000	DA-1 HI HONOLULU granted 5000/5000 w ND
WQBB	1040	2500/	ND-D TN POWELL granted 10000 w days, 3000 w cr hrs
KLOH	1050	8000/	DA-D MN PIPESTONE applies for 10000/400 w DA-1

CKST 1070	10000/10000	DA-1	AB ST. ALBERT	move to 1200 KHz was scheduled for mid-December
WUST 1120	1000/	ND-D	DC WASHINGTON	app. returned for 20000 w days
WONQ 1140	4100/	ND-D	FL ORLANDO	app. returned for 10500 w days
KPLS 1150	5000/1000	DA-2	CA SANTA ROSA	applies for 5000 w nights
KQQQ 1150	1000/500	DA-N	WA PULLMAN	requests reinstatement of expired CP for 650 KHz, 1000/500 w DA-N
WMVI 1160	50000/1000	DA-2	NY MECHANICSVILLE	granted 5000/570 w ND, new xmtr location (CP, stn is still on 1170 KHz but is expected to move soon)
WHMT 1190	500/	ND-D	TN HUMBOLDT	applies for 420 w days
KOKK 1210	?/?		SD HURON	on the air ex-1190 KHz
WXRA 1220	1000/	ND-D	NY NORTH SYRACUSE	granted extension of time for move to 1200 KHz
KTSJ 1220	250/250	DA-1	CA POMONA	granted 500/250 w DA-1
WJNO 1230	500/500	ND	FL DEERFIELD BEACH	applies for 800/800 w ND
WFAH 1310	1000/	DA-D	OH ALLIANCE	amends app. for 480 w nights
KHSJ 1320	500/	DA-D	CA HEMET	granted 300 w nights
KSIV 1320	5000/	ND-D	MO CLAYTON	granted 260 w nights
WGIA 1350	2500/	DA-D	GA BLACKSHEAR	granted 5000 w
WGNN 1360	1000/	ND-D	GA LAWRENCEVILLE	app. ret. for 610 KHz, 1500 w
WYSH 1380	1000/500	DA-N	TN CLINTON	applies for 290 w nights
KBBO 1390	5000/500	DA-2	WA YAKIMA	granted 400 w nights
KGRN 1410	500/	ND-D	IA GRINNELL	applies for 300 w days
WYMB 1410	1000/	ND-D	SC MANNING	applies for move to 920 KHz; 2300/1000 w DA-N (competes w/WAZQ-920 renewal)
WCHB 1440	1000/1000	ND	MI INKSTER	expects move to 1200 KHz 1000/250 w DA-2 to take "at least a year"; granted another extension of time. Unclear whether CP is for this frequency move or for a new station while current owners sell the 1440.
WNPV 1440	500/500	DA-2	PA LANSDALE	granted 2500 w days
KDMN 1450	500/500	ND	CO BUENA VISTA	granted 1000/1000 w ND
WPON 1460	1000/500	DA-2	MI PONTIAC	granted move to Walled Lake MI, 820 w nights
KPHX 1480	1000/500	DA-2	AZ PHOENIX	dismissed app. to change night DA
WLEE 1480	5000/5000	DA-2	VA RICHMOND	granted 600 w nights
WLQV 1500	50000/5000	DA-2	MI DETROIT	applies for 2000 w nights, reduce from 12 to 9 towers & change night pattern
WRHC 1550	10000/500	DA-2	FL CORAL GABLES	granted extension of time for move to 1560 KHz, 50000/10000 w DA-2
KISK 1550	10000/	ND-D	NV RENO	granted 2500 w ND
KKAA 1560	10000/5000	DA-2	SD ABERDEEN	applies to modify day DA pattern
KVLG 1570	250/	DA-D	TX LA GRANGE	app returned for 1000/500 w DA-2
WTCL 1580	5000/	ND-D	FL CHATTAHOOCHEE	applies for 10000/2000w DA-N
WJBQ 1590	5000/2500	DA-2	ME GORHAM	granted move to 870 KHz; 500 w nights. Target date for move is early 1989.
KMTI 1590	5000/1000	DA-N	UT MANTI	granted 650 KHz; 2000/900 w, DA-2
KLEB 1600	5000/	DA-D	LA GOLDEN MEADOW	granted 250 w nights DA-1
WIDU 1600	1000/	ND-D	NC FAYETTEVILLE	applies for 5000 w DA days

Incidentally, if John Oldfield runs something in Kanadian Korner there's no sense in rerunning it here, so I don't. As John noted in the 11/26 issue, while this column appears more frequently than KK, coaxing the CRTC into public confessions of what it's doing is a hit & miss proposition, so best to use both columns to update your logs.

CALL LETTER CHANGES

(\$ means change accompanies a station sale; * check for format info)

KSHO 540	CA Hesperia	is now*	KKGO	KBCB 760	KS Overland Park	* KNCI
WDAK 540	GA Columbus		* WSTH	new 760	TN Knoxville	* WKNL
WHLM 550	PA Bloomsburg		WJMW	KNKK 800	UT Brigham City	KZAN
KFXM 590	CA San Bernardino	*	KRSO	WZYQ 820	MD Frederick	* WQSI
WRPJ 640	MI Kingsley		WDRQ	KIKM 910	TX Sherman	\$* KBLN
WJFU 640	MI Zeeland		WGHT	KGHR 970	MN Austin	\$ KQAQ
WPNS 700	MA Orange		WCAT	WBIX 1010	FL Jacksonvl Beach	WXTL
KTBT 700	TX Tomball		* KSEV	WDRQ 1030	MI Sterling Hgts	* WUFL
WKQD 740	TN Tullahoma		\$ WDFZ	WSTH 1050	AL Alexander City	WDAK

WOAM	1070	KY	Elkton is now	\$ WEKT	KFIG	1430	CA	Fresno	is now	KFNI
KSCO	1080	CA	Santa Cruz	* KLRS	KATR	1450	CO	Greeley		\$ KGRE
WGMM	1100	GA	Woodbine	\$ WCGA	KCDR	1450	IA	Cedar Rapids		* KMRY
WHOX	1120	AL	Hobson City	WJOK	WWIW	1450	LA	New Orleans		* WBYU
WFEN	1160	MI	Fenton	\$ WACY	KENM	1450	NM	Portales		KSEL
WNNR	1220	CT	Hamden	\$ WXCT	KDLX	1450	UT	St. George		\$ KSLI
KRDR	1230	OR	Gresham	*\$ KKGR	WMPP	1470	IL	Chicago Hqts		\$ WCFJ
WLCF	1240	FL	Eustis	\$ WKIQ	WWTK	1470	PA	Farrell		* WMGZ
WNER	1250	FL	Live Oak	\$ WQHL	KCKW	1480	LA	Jena		KJNA
KZLR	1270	AR	Pine Bluff	\$ KPBA	WCKC	1490	FL	Milton		\$ WECM
WIBR	1300	LA	Baton Rouge	WNFO	WRED	1490	GA	Monroe		\$ WMLS
KVKM	1330	TX	Monahans	\$ KLBO	WBND	1490	MS	Biloxi		WMTX
KFMX	1340	TX	Lubbock	KMKM	WSDC	1490	SC	Hartsville		\$ WTNi
KWAS	1360	TX	Amarillo	KFNS	KCHB	1500	AR	Jacksonville		KOKY
WGTC	1370	IN	Bloomington	WGFL	new	1500	FL	St. Cloud		WNZQ
WNAQ	1380	CT	Naugatuck	WFLK	KJAA	1510	AZ	Mesa		*\$ KFNN
WKUS	1400	FL	Sanford	\$ WNSI	KKDI	1540	AR	Sheridan		KGHT
WSGC	1400	GA	Elberton	* WWRK	KZIA	1580	NM	Albuquerque		* KNUJ
WIQR	1410	AL	Prattville	\$ WSKN	KWHA	1600	AR	West Helena		\$ KJIW
KNOW	1420	TX	Lufkin	KBLZ						

CALL LETTER CHANGES THAT NEVER HAPPENED: 1480 KS Mission is still KBEA

FORMAT CHANGES

call	KHz	state/city	
KKGO	540	CA HESPERIA	call change from KSHO, still jazz // FM
WSTH	540	GA COLUMBUS	was WDAK, oldies, now country // FM
KNMX	540	NM LAS VEGAS	contrary to someone's report, this station is still on the air, Spanish format
KOXY	550	AZ PHOENIX	was AC/talk, now adult standards & talk
WKHO	550	NC PINEHURST	was WDLU, adult contemporary, now country
KRSO	590	CA SAN BERNARDINO	was KFXM, adult stds, now news-talk
WHOF	640	FL WILDWOOD	new, religious
KORL	650	HI HONOLULU	back on the air // AC KLH1-101.1 again (Park-HI)
KMVP	670	CO COMMERCE CITY	new, to be all sports to Denver
WCNM	680	GA NORTH ATLANTA	was talk, now all news
WCBM	680	MD BALTIMORE	was automated rock oldies, now talk again
WTIX	690	LA NEW ORLEANS	was oldies, talk, now ABC & local talk
KSEV	700	TX TOMBALL	was KTBT, soft AC, now business news to Houston
KBPI	710	CO DENVER	was Aor // FM, adds separate heavy metal nights
WWNZ	740	FL ORLANDO	was WKIS, news-talk, remains news-talk
WRPX	740	WI HUDSON	was silent, now oldies
KNCI	760	KS OVERLAND PARK	new, to be religious
WCHP	760	NY CHAMPLAIN	new, religious (Brooker-Ont.)
WKNL	760	TN KNOXVILLE	new, to be religious
KSJL	760	TX SAN ANTONIO	was CHR // FM, now SMN Z-Rock heavy metal (this in a city that a couple years ago tried to ban minors from attending heavy metal rock concerts!)
WVNN	770	AL ATHENS	was WJMW, ctry, now BRN news "The Valley's Nx Ntwk"
WZZX	780	AL LINEVILLE	was adult contemporary, now country // FM
WLRM	780	MS RIDGELAND	was AC // FM, now WNN motivational talk to Jacksn
WTSK	790	AL TUSCALOOSA	was gospel, now black oldies
KCBF	820	AK FREDERICK	was adult contemporary, now "Breeze" sat. new age
WQSI	820	MD FREDERICK	was WZYQ, country, remains country
WRFM	830	FL HIALEAH	new stn, Spanish to Miami; couldn't make out what the slogan (sounded like "Radio Taino?") was (J. Hall-PA)
WPGS	840	FL MIMS	was religious, now Sun network talk to Titusville
KVEG	840	NV NORTH LAS VEGAS	new, soft AC (Mittman-CA & others)
KIKN	840	TX PHARR	new, at long last on the air w/country "Kickin'"
WWKO	860	FL COCOA	was WCKS, silent, now religious
KKRT	900	WA WENATCHEE	was KEYK, ctry, now SMN adult standards (Wien-CA)
WNNO	900	WI WISCONSIN DELLS	was country, now CHR // FM
KBLN	910	TX SHERMAN	was KIKM, ad stds, now SS ranchero "R. Mexicana"
CFLS	920	PQ LEVIS	was French CHR to Quebec City, now silent
WRVC	930	WV HUNTINGTON	adds Talknet
KJJO	950	MO ST. LOUIS	PARK was SMN black oldies, now SMN Z-Rock Aor
WKVJ	960	OH WOOSTER	was contemp. Christian, now SMN sat. rock oldies
KCTR	970	MT BILLINGS	was KBIT, country, now country // FM
KBBQ	990	CA SANTA BARBARA	was KKSB, adult standards, now country
WNVR	1030	IL VERNON HILLS	was news, now BRN business news to Chicago
WUFL	1030	MI STERLING HEIGHTS	was WDRQ, CHR/oldies, now religious
KNXX	1050	NM LOS RANCHOS DE ALBUQUERQUE	was adult standards, went Spanish briefly and is now off the air
WBUT	1050	PA BUTLER	was soft AC, now CHR/oldies // FM
WKNG	1060	GA TALLAPOOSA	was CHR, now country

WHFB 1060 MI BENTON HARBOR was adult contemporary, now country
 WAPI 1070 AL BIRMINGHAM SMN adult standards, adds Larry King nights
 KLRS 1080 CA SANTA CRUZ was KSCO, rock oldies, now new age // FM
 WPTD 1080 GA MARIETTA now its own rlg, was rlg // WFOM-1230
 KHEI 1110 HI KIHEI was country, now silent while owner looks for buyer,
 may be back on the air by now (Park-HI)
 WBT 1110 NC CHARLOTTE AC, picks up IRN satellite country overnights
 WWOU 1120 FL DESTIN new, rock oldies
 WNEW 1130 NY NEW YORK adult standards, adds talk 2100-0500 Eastern time
 KEZQ 1150 AR NORTH LITTLE ROCK drops EZL // FM for travellers info
 KSL 1160 UT SALT LAKE CITY adds Bruce Williams, Talknet
 WHJM 1180 TN KNOXVILLE new, SMN rock oldies
 WAGE 1200 VA LEESBURG adult contemporary, adds Larry King
 KWG 1230 CA STOCKTON drops Transtar "The Oldies Channel" AN, now
 // KYBB-100.9 (B-101 FM) rock oldies AN (Perry-CA)
 KKGR 1230 OR GRESHAM was KRDR, silent, now PMN Breeze satellite new age
 WEEX 1230 PA EASTON was talk, now SMN rock oldies
 WGGG 1240 GA GAINESVILLE was adult contemporary, now country
 KZID 1240 ID McCALL was adult contemporary, now silent (Aden-ID)
 KICD 1240 IA SPENCER was country, now adult contemporary
 WCRT 1260 AL VESTAVIA HILLS drops "Classic Rock" eves, now all oldies
 WNDE 1260 IN INDIANAPOLIS rock oldies, adds Larry King
 KJOY 1280 CA STOCKTON moves Larry King to AN, now jazz eves (Perry-CA)
 KHEN 1290 CA SAN BERNARDINO was SMN oldies, now SMN black old. (Park-HI)
 WFBG 1290 PA ALTOONA was CHR, now adult contemporary
 WGIN 1290 PA LYKENS was country, now adult contemporary
 WOOD 1300 MI GRAND RAPIDS AC, adds Larry King
 KFKA 1310 CO GREELEY was silent, back with AC 10/31 (Harrington-CO)
 KBMV 1310 MO BIRCH TREE was country/gospel, now sat. ctry (Stephens-AL)
 WHGL 1310 PA CANTON was live country, now country // FM
 WODD 1310 TN CHATTANOOGA was country, now Transtar rock oldies
 WAGF 1320 AL DOTHAN was AC, talk, now silent
 WARA 1320 MA ATTLEBORO was adult standards, now talk
 WHHO 1320 NY HORNELL was adult contemporary, now talk
 WANI 1320 VA RICHMOND was news, easy listening, now silent
 WRRR 1330 IL ROCKFORD was WYBR, AoR // FM, back to these calls & ad stds
 WESR 1330 VA ONLEY-ONANCOCK was religious, now adult standards
 KATY 1340 CA SAN LUIS OBISPO was SMN adult standards, now silent
 WOOW 1340 NC GREENVILLE was silent, back on with gospel & black
 WPLJ 1340 PA WILKES-BARRE was WKRZ, adult standards, now country
 KLYD 1350 CA BAKERSFIELD was rock, now country
 WZPQ 1360 AL JASPER was WWWB, remains CHR/oldies
 KUIK 1360 OR HILLSBORO was country, now adult contemporary
 KFMG 1370 CO DEER TRAIL was country, now silent (Harrington-CO)
 WLFN 1370 RI WICHFORD was WKFD, silent, now AC "Bayradio 1370" (Wawro-MA)
 LJNI 1380 HI PEARL CITY was SMN adult standards, now silent (Park-HI)
 WQHI 1380 NH PORTSMOUTH was AC/oldies // FM, now oldies //FM "Oldies 95"
 KLUE 1380 OK MUSKOGEE was KMUS, ctry, now sat. oldies // FM (Jeter-GA)
 KDZR 1390 CO WESTMINSTER was SMN Z-Rock AoR, to be business nx upon sale
 WRIG 1390 WI SCHOFIELD was AC/oldies, now SMN "Pure Gold" rock oldies
 WXXX 1400 GA ALPHARETTA was silent, back with business news to Atlanta
 WWRK 1400 GA ELBERTON was WSGC, black, now country // FM
 WRAK 1400 PA WILLIAMSPORT was adult standards, now SMN Pure Gold oldies
 WJZM 1400 TN CLARKSVILLE was adult contemporary, now oldies
 WACT 1420 AL TUSCALOOSA was country, all-Christmas mx in December (will
 go back to country after Christmas)
 WAVO 1420 GA DECATUR was religious, to be BRN business news upon sale
 WHK 1420 OH CLEVELAND drops satellite oldies for BRN business news
 WLSQ 1430 GA DALTON was country, now rock oldies
 WRLT 1430 TN MADISON was AoR // FM, now AC // FM, these guys change
 owners, calls and formats every other week!
 WSLE 1440 GA BREMEN was country, now silent
 KPUR 1440 TX AMARILLO was album rock // FM, now Transtar rock oldies
 KMRY 1450 IA CEDAR RAPIDS was KCDR, remains adult standards
 WBYU 1450 LA NEW ORLEANS was WWIW, remains adult standards as "Bayou"
 KDON 1460 CA SALINAS was Spanish, now CHR // FM
 WACO 1460 TX WACO was country, now ABC talk
 WMGZ 1470 PA FARRELL was WWTk, talk, now CHR // FM & sports
 KWIZ 1480 CA SANTA ANA was AC //FM, now Spanish "R. Exitos" (Mittman-CA)
 KRXR 1480 ID GOODING was adult contemporary, now silent (Aden-ID)
 KBEA 1480 KS MISSION was news-talk, now BRN business news to Kansas
 City, sale and call change did not go through
 WCIN 1480 OH CINCINNATI was black, now fine arts

WDAS 1480 PA PHILADELPHIA was gospel, black oldies, now gospel & talk
 KMEZ 1480 TX DALLAS was easy listening // FM, now separate EZ listening
 WDXB 1490 TN CHATTANOOGA was country, now "Classic Rock" AoR oldies
 KTEL 1490 WA WALLA WALLA was live country, now country // FM
 KFNN 1510 AZ MESA was KJAA, silent, back w/business news to Phoenix
 WMHQ 1510 NJ DOVER was Transtar rock oldies, now silent
 WXLX 1510 NC BLOWING ROCK was country, now silent
 WKNT 1520 OH KENT was country, now rock oldies
 WDEY 1530 MI LAPEER was AC // FM, now silent
 WLTX 1550 CT BLOOMFIELD was WGAB, silent, back on w/religious
 WUDW 1550 IN CORYDON was country, now soft AC // FM
 WSDL 1560 LA SLIDELL was rock oldies, now BRN business news to New OrL.
 KCVR 1570 CA LODI was rlgs mornings/Spanish afternoons, now bilingual
 mix of Spanish rancho & English CHR (Perry-CA)
 WSSA 1570 GA COLLEGE PARK was easy listening rlgs, now gospel
 WBUZ 1570 NY FREDONIA was silent, back on with adult contemporary while
 appeal hearings for its revoked license drag on
 WRJO 1570 WI APPLETON was adult standards, now polkas (yes we mean it)
 KTSS 1580 IA DAVENPORT was silent, now // AoR KFMM-99.7 (Hall-PA)
 KNUS 1580 NM ALBUQUERQUE was KZIA, talk, now news-talk
 WKTP 1590 TN JONESBOROUGH was WUSJ, silent, now easy listening // WKPT-
 1400; probably an effort by owners to hang onto the station's
 license by getting a waiver to simulcasting another stn, as
 KORL-650, WFPD-1080, KTSS-1580 and others have done recently
 KLLL 1590 TX LUBBOCK was KEND, country, now country // FM
 WAOS 1600 GA ATLANTA was gospel, now Spanish to Atlanta

THIS MONTH'S MEDICAL SCORECARD OF AM FORMAT CHANGES:
 12 silent stations back on the air; 14 stations go silent
 10 simulcasting stns split off for separate pgmg; 17 stns now // FMs
 The death watch continues...

* * * * D I A L C A R D * * * *

Floyd Perry sends an update of Stockton-Modesto CA:

KPLA 770 RIVERBANK Contemporary Christian/ethnic mix, "77 West"
 KTRB 860 MODESTO country, Talknet AN, NBC, "The Valley's Leading AM"
 KLOC 920 CERES Spanish
 KOOK 970 MODESTO SMN "Pure Gold" rock oldies, "AM Stereo Oldies, 970
 KOOK"
 KWG 1230 STOCKTON rock oldies, Mutual, // KYBB-100.9 AN & Morning
 drive shows, "Golden Oldies, 1230 KWG" and "B-101 FM"
 KJOY 1280 STOCKTON AC/rock oldies days, jazz evenings, Larry King AN,
 Mutual, "Classic hits of the 60's, 70's and 80's"
 KFIV 1360 MODESTO CHR/urban dance mix, // 102.3 FM, "Modesto's #1 Hit
 Music Station"
 KMIX 1390 TURLOCK classic country // 98.3 FM, "Playing classic country
 hits of the 60's, 70's and 80's, K-Mix"
 KSTN 1420 STOCKTON CHR/urban dance mix, // 107.3 FM evenings and AN
 only, "much more music, KSTN"
 KCVR 1570 LODI bilingual: Spanish rancho/English CHR mix, "Viva 157"

TRIVIA QUESTION OF THE MONTH

Some housekeeping from past questions...Bill Hardy notes one other set
 of formerly co-owned clear channel stations: Westinghouse Broadcasting
 owned both WOWO-1190 Fort Wayne and KEX-1190 Portland until selling the
 latter in 1962....he also correctly points out that the Columbia River
 has its headwaters in B.C., not Montana (and I've been misreading my
 atlas all these years!)...TOM LASKOWSKI of South Bend took a stab at
 October's question that arrived just after I mailed off the November
 column--he nailed WSEA-900 Georgetown DE but missed the Alaskan on 1450.
 Anyone can send in their suspected answers to any of these questions, of
 course, and, hey, contribute some column info if you can, too...thanks!

Answer to November's question: The ten pairs of doubled frequencies
 I've found are: Birmingham AL (610/1220); Washington, DC (630/1260); La
 Grange GA (620/1240, only two stations in the city); Baltimore MD (680-
 when it's on the air/1360); Binghamton NY (680/1360); Knoxville TN
 (620/1240); Nashville TN (650/1300); Edmonton Alta. (two pairs!
 630/1260 and 740/148 St. Catharines Ont. (610/1220, only two stations
 in the city). Anyone know of any others?

There are, of course, other types of harmonics that give lousy AM receivers fits and are thus usually avoided. One is stations separated by 910 KHz; another is stations equidistant from 910 KHz on either side of the AM band. For example, before KANN-1120 recently moved from Ogden UT and 1090 KHz, Ogden had an equidistant harmonic (730/1090 both being 180 KHz from 910). I found eighteen of these equidistant harmonics, and twelve cases where stations licensed to the same city are 910 KHz apart. Same rules as last month: must be licensed to the same city, not just in the same area.

The ambitious (or those truly bored with a non-IDing test tone at 2 AM) can come up with all thirty pairs if they like, but I'll confine myself to two brain-teasers:

1) Only one AM in the U.S. or Canada is a party to both of these types of harmonics - it has companion stations 910 KHz away and equidistant on the other side of 910 KHz. Who?

2) Before one of the four stations involved changed frequency and city of license in the mid-70's, one unfortunate AM had all three types of harmonic interference: a station on its doubled frequency, one 910 KHz away, and one on the opposite side of 910 KHz. Who?

PROPOSED STATION SALES (* means check the format listings for more info)

KROD-600-TX, KXDC-630-CA, KNBR-680-CA, WCBM-680-MD*, WVOK-690-AL, WBMD-750-MD, WWBD-790-SC, CFCW-790-AB, KDDD-800-TX, WYRE-810-MD, KIKI-830-HI, KIKN-840-TX, WTGE-910-LA, WLAS-910-NC, WPTX-920-MD, WIRD-920-NY, WCIT-940-OH, WESO-970-MA, WRCS-970-NC, KIXL-970-TX, WAAV-980-NC, WKYB-1000-SC, WGLH-1060-NC, WOAM-1070-KY, KKYN-1090-TX, WKRA-1110-MS, WHM-1110-RI, WSLV-1110-TN, WEEQ-1130-PA, WFEW-1160-MI, WKFL-1170-FL (unbuilt CP), KNEK-1190-LA, KZEE-1220-TX, KATO-1230-AZ, WSTR-1230-MI, KSSC-1230-MO, KBSR-1230-MT, KLOA-1240-CA, WGRM-1240-MS, WCNC-1240-NC, WGHB-1250-NC, WIBV-1260-IL, WBUD-1260-NJ, WJOT-1260-SC, WTPX-1280-VA, WTMC-1290-FL, KSRC-1290-NM, KIOT-1310-CA, WUNO-1320-PR, KVKM-1330-TX, WXXR-1340-AL, WHMI-1350-MI, WCBM-1350-NY, KTLQ-1350-OK, WJAR-1350-SC, WMNE-1360-WI, KRKK-1360-WY, WPLB-1380-MI, WYSH-1380-TN, WYSB-1380-VT, WEEC-1390-NC, WMPO-1390-OH, WKUS-1400-FL, WPAS-1400-FL, KNND-1400-OR, WLKK-1400-PA, KRSC-1400-WA, WRJN-1400-WI, KRWB-1410-MN, WAVO-1420-CA, WCED-1420-PA, KEZW-1430-CO, KXKL-1440-ND, WDLK-1450-AL, KEST-1450-CA, KATR-1450-CO, WCVS-1450-IL, KRST-1450-NM, WMOC-1450-TN, WXRQ-1460-TN (now silent), WBZN-1460-WI, WMPP-1470-IL, KVLH-1470-OK, WCNS-1480-PA, WKCK-1490-FL, WJFL-1490-MS, WCSS-1490-NY, WBTA-1490-NY, WPAK-1490-VA, KBRO-1490-WA, KGHO-1490-WA, WOLY-1500-MI, KJAA-1510-AZ* (now back on the air), KDRO-1510-CO, WNLC-1510-CT, WPSC-1510-SC, WKMG-1520-SC, KKRQ-1530-AR (now silent), WRSN-1540-AL, KKJO-1550-MO, WSDL-1560-LA, WWCK-1570-MI, WBGB-1580-FL (now silent), KYDE-1590-AR, KHIT-1590-NV, WERA-1590-NJ, KYOK-1590-TX

STATION SALES THAT FAILED: KVKM-1330-TX, WBZN-1460-WI, WSRR-1580-NJ

MISCELLANEOUS NOTES: Steve Mittman characterizes the new format of KIIS-1150 Los Angeles as "all rap," which is a bit different than the dance/funk description we gave last month; and notes that the new owner of KAZN-1300 Pasadena CA (ex-KWKW), scheduled to come on with KWKW's move to 1330 in early January, owned KFAC-1330 until a couple years ago. Sort of a time-release capsule version of a station swap. Also from Steve, this ID for the new KVEG-840-NV: "50000 watts" serving the west "from the tundras of Canada to the deserts of Baja California." These bozos wouldn't know tundra (or CKBX) if it bit them in the transistor... Speaking of tundra, scratch that apparent frequency move for CHAK-860 Inuvik NWT, reported a while back in Robert Kramer's travels through the area. Apparently his 690 signal was an LPRT & CHAK remains on 860 KHz.

Another new satellite radio format (yawn): Satellite Music Network has unveiled its third rock oldies format after Pure Gold and Heart & Soul. This one is "Kool Gold," concentrating on 1955-1963 (pre-Beatles) rock era. It's run from the studios of KOOL-960 Phoenix AZ; other early affiliates are KQUL-1590 Seattle and WKLL-590 Wood River IL. And a familiar voice returns to the overnight airwaves in an unfamiliar format - Wolfman Jack has signed to do the 2200-0100 (Eastern) shift on the newly 24 hour Nashville Network, a syndicated satellite country music format that has already been airing overnights. Check out Wolfman on WSM-650 - it's a howl...(hi)...another new business news network, the

Boston-based Financial Business Network, is now scheduled to debut in February. That makes three business news formats and counting.

Bill Hardy wonders why I haven't been running more info on syndicated programming (e.g., Casey Kasem's and Watermark's new countdown shows, Tom Snyder's ABC talk show, etc.) I'd love to, but I can't be everywhere--I don't subscribe to trade publications which carry that sort of info, so if anyone wants to pass it on to BI, I'll be pleased to run it!

The FCC has suggested a couple more interesting technical changes for AM stations...including a newer, more generous way of calculating nighttime interference patterns and allowing Class II and III AMs to waive city of license coverage and minimum operating hour requirements in applying for separate day and night antenna systems. And, they nixed a technology, concluding that the performance of experimental synchronous transmitters thus far does not warrant their permanent authorization - but (go ahead, you explain it!) the dozen or so synchronous xmtrs already on the air will continue to operate and the FCC will continue to accept new apps.

More tidbits: following the fine lead of the FCC, we typoed WKTP-1590 last month as being in Johnson City TN. It's in Jonesborough TN. Oops. Hot breaking lukewarm kinda flash from the CRT: CHRL-910 Roberval PQ has applied to simulcast CKAC-730 overnights. (Now, if only they'd choose to relay KMJC-910 instead, So. Cal. DXers would have a much easier time logging Quebec...) More license revocations: KKZU-1510 Mountlake Terrace WA (off the air since 1984 or so) and WMJM-1490 Cordale GA + FM (circa 1985) are gone, and KRGL-1360 Myrtle Creek OR (off since Sept. 1986) has been ordered to show cause why its license shouldn't get the heave, also.

Finally, to point out the obvious, Broadcasting Information is getting to be a very long column that costs IRCA a good deal of money to print. It's longer this time due to two additional weeks of material and lots of DX season contributions, but on average it's running five or more pages a month anyway. Is BI worth this much DXM space, or are there parts we should consider trimming or condensing further? Your feedback - to me or to bp - is appreciated. (And thanks again for the support!)

DX Techniques

Editor: Phil Bytheway, 9705 Mary North West, Seattle, WA 98117

Proceedings 1988 Review

An entirely new concept in the list of publications for DXers is *fine tuning's* new book **Proceedings 1988**. This book was designed to fill the need for an in-depth study of various subjects pertinent to the short wave hobby and is targeted at "hard core" short wave listeners. Several articles are of interest to medium wave DXers as well. John Bryant, *fine tuning's* special publications editor, pulled together a myriad of "experts" from the ranks of the club to write on various subjects of appeal to the short wave listener. Each article was written by one or more of these experts and then reviewed by an eleven member editorial review panel for content, grammar and intelligibility.

The book is 8 1/2 by 11 inches, plastic spiral bound and about 3/4 inches thick (there's quite a bit of information in there!).

Proceedings 1988 is divided into five main divisions: Propagation, Antennas, Receivers, Peripheral Equipment and Computers, each of which has from one to eight articles. In addition, there are four special features at the end of the book.

The Propagation section consists of the "Terminator Mechanics and Trans-Polar Solar Blanking" article by John H. Bryant. This article describes, in detail, different types of maps that are available and how to use them to determine the terminator, and clarifies how such knowledge can help or hinder your foreign DX. It also explains how Trans-Solar Blanking can reduce DX target areas. This knowledge is a must for any medium wave DXer interested in foreign DXing.

The Antenna section consists of three articles. "The Delta Loop, an Alternative Antenna for Tropical Band DXing" by David Clark, describes the use of a triangular shaped antenna to enhance Tropical Band DX, its considerations and construction. There is considerable discussion on polarization, noise response, and radiation patterns as well as comparisons with other antenna types. There is even an extensive explanation of impedance matching and lead in, as well as some discussion of the results of the antenna's use. The second article in this section is "A Ferrite Rod Shortwave Antenna" by Chuck Bolland. This article describes the construction of a small ferrite core antenna that can be put almost anywhere. Several suggestions for placement are made, plus detailed discussion on lead in. The third article is "Impedance Matching a Beverage Antenna to a Receiver" by Nicholas Hall-Patch and John H. Bryant. This article describes John's experiments with Beverage antennas and impedance matching, with some technical inserts by Nick. It also includes the results of the experiments in the form of graphs, and schematics. Any medium wave DXer that has, or is considering, a Beverage antenna will benefit from this article.

The Receiver section consists of six articles. "Just Because it Has Handles Doesn't Mean it's a Portable, An Informal Review of the HQ-150" by Dan Sheedy heads the list. This article talks about the set that Dan purchased, sent off to be worked on, and now uses. There are many details on the specifications for the HQ-150, as well as some examples of DX with it. The second article is "Sizing Up the Hammarlund HQ-180 in the 1980's" by Mitchell A. Sams. This article, like the first one, describes the author's set that had been completely gone through and "tweaked" for perfection. Specification information and discussion of operation is included. Third is "A Highly Modified HQ-180 Versus a Modified NRD-525" by John H. Bryant. This short article is a side-by-side comparison of two excellent receivers from a subjective point of view. Sensitivity, selectivity, audio and stability are discussed. "A Review of the R-390A Receiver" by John R. Tow follows. This article, in detail, describes the receiver, its controls, and use of this fine set. In addition, there is a complete description of how to find a set and get it in tip top shape. There is an addendum by Kevin Atkins on "Why I Love My R-390A" which describes a comparison of the R-390A with an ICOM R-70. "Once a Good Receiver, Always a Good Receiver: The Drake R7 Communications Receiver Revisited" by Jerry Strawman is next. This is another detailed review with many specifications. Also included is an in depth discussion of the radio's features. Last on the list is "The Japan Radio Company's NRD-515: A DXers Perspective" by Kirk Allen and David Clark. This article discusses the features and use of the radio, with some practical examples of tuning around. This section on receivers, although not focused on medium wave, has some valuable tips for those medium wave DXers in the market for an excellent receiver.

The Peripheral Equipment section consists of eight articles. "Antenna Tuners: An Overview" by John R. Tow heads the list. This article describes several different types of tuners and discusses the pros and cons of each. "Constructing an Antenna Tuner with Plug-In Toroidal Cores" by Chuck Bolland talks about the construction of a "T" tuner that has plug-in coils for band selection. The next article, "Two Tuneable Pre-Amplifiers by Ameco: The PLF-2 and the TPA-1" by Jerry Strawman and John H. Bryant, is a detailed review of both pre-amplifiers. "A Close Look at Two of the Best Portable Cassette Recorders" by Fritz Mellberg, John H. Bryant and R. Charles Rippel discusses the Marantz PMD-220 and PMD-221. These are two "professional" model portable cassette recorders often used by DXers. Each type is reviewed for features and hands-on use. R. Charles Rippel provides a detailed technical review for the PMD-221, complete with measurements on tape speed, frequency response, 3rd order distortion and signal to noise. The next article, "Audio Filtering: A Variety of Approaches to Improved Audio" is by John R. Tow. This article discusses the advantages in adding an audio filter to a radio, with some suggestions on how to find the right filter. "The Autek QF-1A: An Active Audio Filter" by Jerry Strawman is a review of this commercially available audio filter. It includes specifications, schematic and response curves, as well as some hints for its use. The next article is "The Ultimate Shack Clock" by John H. Bryant. This article details the author's search for the perfect clock, and how he found the Seiko World Time Clock. The last article in this section is "The Heathkit HO-13 Hamscan: One Way to Watch Your Radio" by Jerry Strawman. This article describes the Ham-Scan unit which is attached to the Intermediate Frequency (IF) of the radio. The unit then gives the listener a picture of the radio's frequency response around the IF. There is also some discussion about how it is used to DX, and techniques used for attaching it to a receiver. With the exception of the antenna tuners, all the articles in this section are useful to the medium wave DXer.

The Computer section consists of two articles. "Miniprop2 and Lowband DXing: A Review of Two Propagation Prediction Computer Programs" is by Mitchell A. Sams. This article describes the two programs in detail, with many examples of their use, and includes several sample outputs. Also included is the information for obtaining the programs. These programs can be used by medium wave foreign DXers to get a better understanding of the conditions necessary for DX. "Writing Reception Reports Using a Personal Computer" by Jerry Berg rounds out the section. This article describes a structured approach to reception report writing with a PC that focuses on standard forms with many examples of their use. This article is a must for anyone who uses a computer to write reports.

The first Special Feature is called "DXing New Guinea" by Dr. Harold Cones, R. Charles Rippel and John H. Bryant. This article is a complete description of New Guinea history; political and weather environment; and the people of Papua New Guinea and Irian Jaya. Also included is a very detailed description of each short wave radio outlet, and pointers for hearing them. There are some detailed maps, sunrise/sunset times, as well as last minute information on the new frequency plan which took effect on September 5. It is a very thorough article for those interested in DXing New Guinea.

The second Special Feature, "Radio Southern Highlands" by Jack Bata (Station Manager) is somewhat shorter. Some pictorial information is included, as well as various details about the station's schedules and programming.

The third Special Feature is "In Progress... A Report from the Committee to Preserve Radio Verifications" by Jerry Berg. This article outlines the thrust of that ANARC committee, which has been working since late 1986, and outlines the tasks that are being done at this time. There are six pages of verifications, some very rare, from the committee's archives.

The fourth Special Feature "A Resource for Shortwave Broadcast DXers: Medium Wave DX Publications" is by John Bryant. An introductory article explains John's search for information and discusses the different types of information available from the medium wave clubs in the areas of antennas, propagation, receivers, peripheral equipment and tuning strategies. This is followed by a special edition of the IRCA Reprint list. John Bryant reviewed all the IRCA reprints and selected those to be of interest to Shortwave listeners. The results were then compiled into a special listing of reprints.

A detailed biography of each of the major authors is next, followed by a short insert about fine tuning's other DX publications.

Proceedings 1988 is available from: **fine tuning** Special Publications, c/o John H. Bryant, RRT #5, Box 14, Stillwater, OK 74074. The book has already sold out the first two printings. A third, and final printing is planned for January 1989. Enough copies to cover all orders for the book in hand on January 10 will be printed. This is the last time the book will be available, as it will be out of print after January 1989. Rush your check or Money Order for \$15 (plus \$2 shipping and handling) to John as soon as possible. This book is well worth the investment, especially if you DX both medium wave and short wave.

Next time, I'll review another couple of books that will allow you to sharpen your "DX Techniques". pb

910 ???? ?? 11/24 fair. 0724 with a promo for a game between Fairfield (or Fairview) and Newport. Slogan "Mighty 91". Calls sounded like "K-A-A-?". Any ideas? [RD-IA]

1490 ???? ?? 11/28 good in GY mess. 2038-2050 w/Arkansas State U basketball. Usually division I-AA schools don't have big radio networks... Arkansas State is in Jonesboro. Any ideas on this one? [RD-IA]

Take off your hat to the past - but your coat to the future. Welcome to the IRCA, Rick! Report often. Happy New Year to All! John.

73s

THE NIGHT BEFORE CHRISTMAS

- Ray Bauernhuber

'Twas the night before Christmas and all through the shack,
The Sony was running with a Beverage out back.
The stockings were hung by the chimney with care,
In hopes that Saint Nicholas soon would be there.
The wife was all snuggled up in the bed,
While anything BUT DX'ing danced in her head.
And with her in her kerchief and me in my cap,
I had DX'ing to do, no time for a nap!

When out on the lawn there arose such a clatter,
I sprang from my shack to see what was the matter.
Away to the window I flew like a flash,
Tore open the shutters and threw up the sash.
The Moon on the breast of the new-fallen snow,
Gave a luster of midday to objects below.
When, what to my wondering eyes should appear,
But a miniature sleigh and eight tiny reindeer.
With a little old driver so lively and quick,
I knew in a moment it must be St. Nick.

More rapid than eagles his coursers they came,
And he whistled, and shouted and called them by name;
"Now Portzer! Now Clemmer! Now Martin and Hardy!"
"On Cooper! On Evans! On Johnson and Toebe!"
To the top of the porch, to the top of the wall!
Now, DX away! DX away! DX away all!

As dry leaves that before the wild hurricane fly,
When they meet with an obstacle, mount to the sky,
So up to the housetop the DX'ers they flew
To run a new beverage; Karl Zuk was there too!

And then in a twinkle, I heard on the roof,
WSM from Nashville with ID's for proof!
As I drew in my ears and was turning around,
Down the chimney came Santa and Karl with a bound.
Santa was dressed all in fur, from his head to his foot,
Karl dressed more casually; both were covered with soot.

A bundle of receivers they had flung on their backs,
And they both looked so happy opening their sacks.
Sony's and Icom's, Realistic's and more,
Glittered like silver right there on the floor!
Antennas included a "Hot-Rod" and some loops,
Karl said there were more goodies out on the stoop!

They spoke not a word but went straight to their work,
They filled all the stockings and included a WRTH!
A Palomar Loop was placed by the tree,
Plus one year's membership in IRCA for free!
They drank their hot cocoa and ate Oreos,
Then wiggled their "ears" and rubbed on their noses,
They gave me a wink, a blink and a nod,
And up the chimney they rose!

They sprang to the sleigh, to their "team" gave a whistle,
And away they all flew like the down of a thistle.
And I heard them exclaim as they drove out of sight,
73's TO ALL...GOOD DX TONIGHT!



NANCY HARDY, EDITOR

WESTERN DX ROUNDUP

2301 PACIFIC AVE., ABERDEEN WA 98520

WDXR DEADLINES: EACH MONDAY

REPORTERS FOR THIS ISSUE:

- (DA) Doug Allen-P.O. Box 5646-Woodland Park, CO 80866
TS 430-S, 160 meter dipole, and 1000' NE-SW & 600' SE-NW
Beverages
- (WRH) Bill Hale-2160 Farm to Market-Johnson City, NY 13790
- (TRH) Tim Hall-350 G St. #F-1-Chula Vista, CA 92010
ICF-2010, Radio West loop
- (JH) Jim Hilliker-Carmel Valley, CA
Listening to boom box at work at KTOM radio
- (GL) Gary Larson-2806 Lincoln-Burbank, CA 91504
- (CM) Curtis McMenamin-2917 Georgia St.-Vallejo, CA 94591
- (SMM) Steve Mittman-2248 West 37th St.-San Pedro, CA 90732
Realistic TRF, 3' wedge; Kenwood KRC-939 AM stereo car receiver
- (MS) Mike Sanborn-DX'ing from the Stouffer Cottonwoods Resort-Scottsdale, AZ
Zenith AM-FM-TV combo
- (RW) Robert Wien-1309 Dentwood Dr.-San Jose, CA 95118
GE Superadio, GE long-range portable, SM-2

OF SPECIAL INTEREST:

- 1010 KPSP CA, Thousand Palms MM 12/5 0230-0259 new station is on, apparently on RS already. Non-stop classical music 0230-0257, then slogan/ID: "We're the all new classical KPSP, bringing the classics to all of Palm Springs." Asked for suggestions on what kind of programming listeners would like to hear. Gave a Palm Springs mailing address, but signal was surprisingly weak & I couldn't copy it. S/off 0259 said they'd return at 0900.(TRH)
- 1530 KSHY WY, Cheyenne 11/28 1946 under WCKY. Log shows D-1? (DA-CO) (Broadcasting Information Aug. 6, 1988 DXM shows them as 10000/1000 DA-2. NRC says they have relicensed to Fox Farm from Cheyenne. Has anyone heard an ID for sure? Ex-1370.--NH)
- *****
- 530 (WNHB296) CA, Los Angeles (L.A.X.) Th 12/8 1400 "Airport Radio" noted off while driving past L.A.X. Buried cable system, WYZ301, was still on. (See also below, & WYZ301 below.) (SMM-CA)
+Per phone call to C.E. Bill Jackson, WNHB296 is not a call change for KRN984, as I mistakenly believed & reported some time ago. KRN984 is a third station, located nearby, which is now defunct. Per Mr. Jackson, WNHB296 is currently 4 watts, and supposedly "equivalent" to other TIS' 10 watts. (SMM-CA)
- WYZ301 CA, Los Angeles (L.A.X.) Th 12/8 1410 per noting WNHB296 off, drove into L.A.X. to hear WYZ301 buried cable amct.: "Airport Radio reception is temporarily confined to Century Blvd. between Aviation & the entrance to the airport. We repeat, this is a temporary situation...due to an emergency power situation, Airport Radio is now broadcasting only on WYZ301, Los Angeles, radiated cable system on Century Blvd., and can be heard only between Aviation & the entrance to the airport." Signal literally gone $\frac{1}{2}$ -block away! Drove home, and could barely hear snatches on TRF! New!! (SMM-CA)
- WNFG219 CA, Anaheim (Disneyland-Anaheim Convention Center) per Bill Jackson, Asst. C.E. of the L.A.X. TIS stations, this station is not officially defunct, although it has not been on the air for nearly two years. It must operate on a share-time basis with the new Cal-Trans station KNEC996--which is less than 8 miles

WNFG219
cont'd

570 KISN UT, Salt Lake City 11/8 1740 fair-good with sports talk. (CM)
+12/4 0208 ID "Kissin 97--K-I-S-N" into song by Depeche Mode.
Ex-KLUB. (MS-AZ)

610 KVNU UT, Logan 11/29 1006 "KVNU community events" o/u KSPN. (DA-CO)

620 KCLQ CA, Hanford Tu 12/6 still using these calls, but was relaying
KUZZ-550 Bakersfield! Every few minutes a man would come on and
give a bilingual KCLQ ID on top of the KUZZ feed. Strange! (TRH)

760 (KFMB) CA, San Diego MM 11/14 0706 totally off; they were on earlier
(0340). Nothing noted, except new mega-pest XENY (ex-1270).(TRH)

900 ?WFRO? OH, Fremont 11/29 2115 briefly on top, woman gave "weather in
downtown Fremont." No ID. Any other possibilities? (DA-CO)

930 (KRTH) CA, Los Angeles MM 12/5 0310 LOUD TTs, but off later. This
was an excellent night for S. Calif. DXers--see 1070/1090/
1110/1130 below! (TRH-CA)

*KRTH#+12/5 0305 with TT sometimes on a scale. (GL-CA)
+12/5 0421 with TT strong in KSEI null over KAGI. All the S.
Calif. stations decided to take the night off, I guess! (RW)

940 KVSH NE, Valentine 11/29 1409 "KVSH state & local news." (DA-CO)

970 KJLT NE, North Platte 11/29 1305 o/u KNUU, INS news to local news.
NE #17. (DA-CO)

980 CKRM SK, Regina 11/29 in all day on NE Beverage! (DA-CO)

1000 (KOMO) WA, Seattle 11/13 0338 noted with OC. Nothing noted under. (TRH)

1020 *KCKN* NM, Roswell Tu 12/6 0503 loud TTs, then off at times. Could
hear traces of what I thought were unneeded KWIQ & much-needed
KDKA. Returned to regular programming by the end of the hour.
(TRH-CA)

1070 (KNX) CA, Los Angeles MM 12/5 OC most of the night, but off at times
leaving pest XEOBS and needed CFAX. Can't remember the last
time I caught this station off. XEPRS-1090, KRLA-1110 and
KSDO-1130 were also off!! Too bad the DX conditions were poor
tonight. (TRH-CA)

+12/5 0429 off on very rare SP with OC, totally off later. CFAX/
CKST/unID Spanish in. (RW-CA)

CFAX BC, Victoria MM 12/5 0416-0425 fair with KNX off, poor u/KNX
OC. AdCon music, female anncr. with C-Fax weather for Vancouver
Island. New, BC #16; knew I'd get 'em if KNX ever went off!(TRH)

1080 KGVY AZ, Green Valley 11/29 1857 "Bongo, Bongo, Bongo, I Don't Want
to Leave the Congo, 1947," and other BBD from another era. (DA)

KLRS CA, Santa Cruz MM 12/5 0330 poor, but steady with male anncr.
Telling of new FM-AM simulcast. Music resembled new age format.
"Colors" slogan noted also. Ex-KSCO, thanks Steve Mittman &
Robert Wien for the tip. (TRH-CA)

+12/5 0450 good o/KRLD/KWJJ with local spots, ad for David
Sanborn Show, ID on hour "KLRS, FM 99.1 and AM 1080, Santa
Cruz-San Jose," then another ID "Technicolor moonlight, on
KLRS, Colors, 99.1." Simulcasts with KLRS-FM 99.1. Ex-KSCO.(RW)

KVNI ID, Coeur d'Alene 11/29 1848 "stay tuned to KVNI" over KRLD,
then gone. ID #8. (DA-CO)

KRLD TX, Dallas Th 12/1 2225 very poor under tremendous KNX-1070
slop. Was trying for KSCO-1080 call change to KLRS, but nulling
KNX slop only produced KRLD. All news format with report at
2236 about liftoff tomorrow of Space Shuttle Atlantis possibly
being delayed. At 2238: "This just in to the KRLD studios..."
but lost to fading and KNX slop! Surfaced again 2246 with sports.
(SMM-CA)

1090 KYBG CO, Aurora-Denver 12/5 0501 good over CHEC with Sun talk
network, ID "We're KYBG, K-Big, Aurora-Denver" into UPI News.
KBOZ back on later with TT then RS at 0600. (RW-CA)

KBOZ MT, Bozeman 11/27 2000-2005 poor-fair sigs with NBC News,
local weather, ID "and now back to another hour of America's
best music on 10-90 KBOZ." New, MT #9. Local XEPRS has been
having troubles with their signal lately, and has been taking
SP's at all sorts of odd times. (TRH-CA)

(XEPRS) BCN, Rosarito Th 12/1 2220 noted off the air shortly after
local sunset while trying for KLRS-1080 (not heard). Faint
Spanish heard, but too much KRLA-1110 splash! Returned with OC
at 2332, then music a bit later. Also off MM 12/5 0320. (SMM)

+12/5 0425 totally off, KYBG/CHEC mix with KBOZ also off! (RW)

1100 KVEE CO, Grand Junction 12/4 0200 ex-KREX in like a local! Finishing EZL type music show, s/off at midnight mentioned KVEE-FM, and address at 1360 Sherwood Way. Still can't hear them in S. Calif. (MS-AZ)

1110 *KRLA* CA, Pasadena 12/5 0310 noted with OC. (GL-CA)
 (KRLA)+MM 12/5 0318 totally off at first, but had a few TTs and IDs later in the morning. Fairly rare SP leaving strong KFAB/KRCX and poor-fair KBND. (TRH-CA)

KRCX CA, Roseville MM 12/5 0320 best signal ever with female Spanish anncr., "Radio Capital" slogan, lots of IDs "Kah-ereh-ceh-equis." Promo for 12 days of Christmas special programming. (TRH-CA)

KBND OR, Bend MM 12/5 0317-0406 generally poor but faded up at times. Best of King, network ads, ID and Mutual News on the hour. (TRH)

1130 CKWX BC, Vancouver 12/4 0230 battling o/u C&W music station (KWKH??). (MS-AZ)

1190 KEX OR, Portland 11/29 2239 "Welcome to sportsline on KEX," fair under KJLA most of evening. State #35 completes states west of Mississippi. (DA-CO)

1200 KFNW ND, W. Fargo 11/29 1400 Christmas music to ID at noon! (DA)

1220 KJAN IA, Atlantic 11/29 2228 Hawkeye EKB, local Atlantic spots incl. Macintyre Tire Co. 80 watts, topping freq. IA #16. (DA-CO)

1230 KKFN SD, Sioux Falls 11/29 1620 "KKF Sports," spot on local HS EKB. My best GY DX, 532 miles. SD #17. (DA-CO)

1260 KROX MN, Crookston 11/29 2252 Crookston mayor interviewed, local news (perhaps all news station?). MN #10. (DA-CO)

1270 KDJI AZ, Holbrook 11/29 2100 HS FB, local spots, o/u WKBF. (DA-CO)

1280 WMRO IL, Aurora 11/29 2400 ID to Mutual News. IL #11. (DA-CO)

1320 KEMX UT, Salt Lake City 11/24 0600 fair-good with slogan/ID: "The music you know and the information you need...KEMX Salt Lake City, the all new 13-20." Ex-KCFX/KBUG/KCFX/KBUG/KCPX, hi. (TRH)

1330 KWKW CA, Los Angeles 11/28 2300 under both KWLO & KFH which ID'd as "KXLK 105," "So. Calif.'s classical music station." (DA-CO)
 (I thought they weren't supposed to change from KFAC until they change format to Spanish.--NH)

1320 KEMX UT, Salt Lake City 11/8 0100 coming in very poor under KGNR with lite rock music. (CM-CA) (Oops! My two little slivers of paper got reversed. This should have been before KWKW!--NH)

1400 ?KHTZ? CA, Visalia 12/5 0942 tent. with unID local spot, clear ment. "...in Visalia," TC of 17½ min. before 7, into song "Tennessee Waltz." Faded under mess. Tent call change ex-KVIS (not heard as KODS). Their signal used to dominate 1400 as KVIS, but it's taken me 2 months to hear this tentative bit! (RW-CA)

1410 KFMS NV, N. Las Vegas 11/28 2118 IDs "KFM 102 & K410 KFM." (DA-CO)

1450 KDMN CO, Buena Vista 11/28 1400 first time! ID as "Buena Vista-Salida." CO #65. (DA-CO)

KBFS SD, Belle Fourche 11/28 1509 local & Rapid City spots, many IDs. (DA-CO)

KYNT SD, Yankton 11/28 2048-2105 many local spots, promo for 60's program, Mutual News, local weather. SD #16. (DA-CO)

1460 KDON CA, Salinas 12/6 1750-1800 with no advance warning, this stn has dropped Spanish format & simulcasts 100% with CHR formatted KDON-FM on 102.5 MHz. IDs as "102 and a half, K-Don FM." Legal ID at 1759 was given by DJ as "102½, K-Don, K-D-O-N FM and AM, Salinas, Santa Cruz and the Monteyey Bay's best music mix." Back to music. This took place over the last 10 days per call to station. (JH-CA)

KENO NV, Las Vegas 11/28 2040 under R. Sensasion, weather in Las Vegas valley. NV #9. (DA-CO)

1500 KHTT CA, San Jose 11/8 0100 coming in fair with oldies music. (CM)

1540 KNGL KS, McPherson 11/28 1540 State Bank of Canton and McPherson spots. (DA-CO)

1560 KPMC CA, Bakersfield 11/28 2100 ID to CBS Monday Night Football. (DA)

1570 KPRO CA, Riverside 11/28 1600 relig. to ID & Mutual News. (DA-CO)

1600 KYRD AZ, Cottonwood 11/28 1930 s/off with SSB. (DA-CO)

KMNY CA, Pomona 11/8 0300 coming in fair with newstalk. Heard them mention "Money Radio." (CM-CA)

DX TEST:

1010 (WPYK) AL, Dora MM 12/5 0230-0300 not a trace of the NRC DX test. Really thought the code IDs would have been able to cut through on this channel. (TRH-CA)

HELP WITH AN UNID:

1600 KBEX UT, Centerville unID heard by Doug Allen (Issue 7) may have been this; their FM'er, KCGL, is on 105.5. (WRH-NY)

UNIDS:

- 930 MM 11/14 0325, MM 12/5 0407, unID Talknet station with Harvey Rubin. Nov. Talknet lists only shows three affiliates, all east of the Mississippi. Station looped E or NE. Has KAFF or KSEI added Talknet? (TRH-CA)
- 1130 W??? Memphis, TN 11/29 2110. Was I hearing things? (DA-CO)
- 1210 12/4 0300 C&W station. ID "Our music makes the difference here on (K-L-M-X?). (MS-AZ)

Happy holidays everyone! ♡

THE RIGHT STUFF

To be a DXer

by Glen Kippel

To be a successful DXer, a number of items are necessary. Some are optional, but most are absolutely essential to the hobby.

To begin with, a radio receiver is usually necessary. Unless, of course, you happen to have a very sensitive gold filling that could possibly demodulate radio waves. A communications receiver is generally considered superior to others. More than one receiver is nice to have, as one could be running into a recorder while you are hunting up another station with the other.

You will also need an antenna. Portable radios (and some others) have a built-in antenna. This has some directional effect, and rotating the radio will sometimes cause a strong station to fade out, revealing other stations. An outside antenna will give increased signal pickup and is generally necessary with a communications receiver.

A cassette or reel-to-reel recorder is a handy device to have for recording what you hear. It is especially useful to play back that ID you didn't quite make out the first time. The simplest way to connect it is across the volume control -- across the terminals that are farthest apart. If it doesn't work the first time, reverse the connections. This mode of hooking up a recorder will provide a constant level unaffected by the setting of the volume control. Use shielded cable, of course, and if you are plugging into the MIC input on the recorder, an attenuator (Radio Shack 274-300) will be necessary.

You will definitely need a few pens and a couple of spiral notebooks. Use one as a chronological list of what you hear. Write the date, time station, and programming notes and other remarks. The other notebook should be divided up by two 10 kHz channels per page, both sides of the page. This will be a listing-by-frequency of what you hear, and it will be one of the most valuable tools you will have. List the frequency, call, slogan, city, state, country, and format info, and perhaps the time you heard it.

If you want to, you could replace this notebook with a computer system -- at considerably more cost. You could go bonkers and get an AT with a megabyte of RAM and a hard disk, but a practical system would be an Atari 800XL or 130XE, disk drive and a printer. You will need a color or monochrome monitor or use a black and white TV that you don't have much other use for. I use a data manager XL for a database and it works pretty well. Synfile+ is also decent and sells for under \$35. The whole system comes in at about the same price as an IBM-compatible software package such as Dbase III.

You will need to know what those stations are out there, so a few current station listings are pretty important to have around. For foreign DX (and to a more limited extent, domestics) the World Radio TV Handbook is a must. For stations in the US and Canada, a listing such as the NRC Log or Broadcasting Yearbook is preferable as it lists all the low-powered stations that aren't covered in the WRTH. Of course since stations keep coming on the air, you will need to be a member of the IRCA to keep up with the latest developments.

Headphones are useful so you can listen to the din of 174 stations on 1400 kHz and not disturb the rest of the family. Stereo headphones may have too broad a frequency response and will give you a good deal of noise in addition to the signal you want to hear. Headsets designed especially for shortwave listening/DXing are better. Mine have been cobbled up from a Navy surplus headband and a pair of Western Electric U-1 units, the same as are in most telephones, and are the best I've ever used.

You probably will need a table to hold up the receiver, notebook, etc and a chair to hold you up. However, I started out DXing with the receiver on the floor and survived, so you could too.

Proper lighting is helpful so you can read your log, station lists, etc. If having a bright light on in the middle of the night is bothersome to the rest of the family, use a desk lamp with a low wattage bulb. Better yet, get a variable transformer (not a solid state lamp dimmer -- they generate too much interference) and plug your lamp into it. Sold in most places which cater to the TV repair industry, you could ask for a "Variac" and they would probably know what you wanted. Another technique borrowed from the aviation industry is to use a lamp with a 25 watt red bulb. The red light does not affect your night vision as much as white light. I have used these for years when mixing large concerts and other sound-reinforcement gigs and it works well.

Some snacks are helpful to keep you blood sugar up during long DX sessions, and these will be discussed in more detail in the forthcoming article, "DX Snacks".

Now to the appropriate attire for the master DXer. You will need a good heavy-weight, velour robe to keep you warm during those long late night DX sessions. Cotton flannel pajamas are also a must. Consider some comfortable, well-worn, terry cloth slippers too.

Consider getting a dog to lay on your feet and keep them warm. Remember, the best DX is in the middle of the night, in the middle of winter! And a cat to lie on your lap is nice too, provided it doesn't purr too loudly.

Now you're all equipped, what do you do first? Well, first pick a Saturday or other day that you don't have to work, and start at the bottom end of the dial and tune up, logging each station as you go. Around 10 AM to noon is a good time to do this. You will get acquainted with your local and semi-local stations and add them to your totals. Most of them will be on at night, so you will be able to recognize them and know they aren't really exotic if they happen to be really hard to hear later on.

Your next step is to tune around in the evening, say 8 to 10 pm. You will be able to hear some of the stations on what formerly were clear channels, and get to know how to recognize them. Most of these stations you will consider "pests" later on, but right now you are getting familiar with the band and building your station totals.

Next, try tuning around the band -- especially the top half of the band -- just before sunset to an hour or so after sunset. There will be some stations you will hear at this time that you just can't hear any other time, and sometimes conditions will favor a specific area one day and another the next. East-coast DXers may also be able to dig around between the 10kHz channels we have in the US and hear some high powered Europeans and North Africans. Now we're getting down to some hard-core DXing!

Once your familiarity with the band is pretty good, stay up past midnight some night -- especially a Sunday night -- and see what can be heard. Monday morning is traditionally the time some stations go off the air for maintenance -- changing tubes, sweeping Black Widow spiders out of the antenna tuning units and so on. Not as many stations go off at midnight as they did a few years ago, but the band may be somewhat less clogged up with your local and semi-local stations. This will provide opportunities to hear some otherwise unheard DX. From the east coast, US stations further west may be heard before they sign off. West coast DXers will have a better chance at logging Hawaii, Alaska, Australia, New Zealand, and the Far East.

Finally, the time just before dawn can provide some really interesting catches, as stations to the east will be signing on, then fading out, allowing stations to the west to appear.

SOME RANDOM THOUGHTS ON A LISTENING POST SET UP BY SHAWN AXELROD

Over the years I have tried various set ups to suit my listening as well as my living situation. This has ranged from my bedroom at home to my present radio room in the basement of our house. I have never come up with the perfect layout yet but I'm getting there. Now I do not want anyone to think that I am an expert at this or that what I say is written in stone. It is just some ideas that I have come up with over the years.

1- Get a comfortable chair. What ever you find to be comfortable is up to your tastes. I use an old armed tilter chair. One thing I will recommend to you is that you use a padded chair (especially if you are like me and don't have any padding HI!!). Also try to avoid chairs that have leather or vinyl seats and backs as they will make you sweat and get uncomfortable after a while.

2- If you are short on space and long on equipment try purchasing new or used a computer table or desk with a hutch. These are designed to take several pieces of equipment but are set up in such a way as to be user friendly. I am at this time using one that allows me to have my ICOM R-70 and the external speaker on the shelf that was designed for the monitor. To the side there is room for a clock and books and my tape recorder. All of this leaves the desk top clear for log books target sheets and the candy dish. Hey a guy's got to eat.

3- When placing your equipment no matter where try to keep the pieces as close to you as possible. If a piece of equipment gets put up on a high shelf the odds are it will go unused. If you use a table top receiver and it is digital read-out keep it at an angle that makes operating it and reading the numbers easy. I've always kept mine on a slant with the front 2-3 inches higher than the back. Just seems easier to get at those little buttons.

4- Have some decent lighting. In case you haven't noticed you DX during those hours that the sun is down, just going down, or just coming up so you need extra lighting. I prefer a lamp to a ceiling light because I can adjust it to shine where I want it. You don't want a glaring light or Fluorescent lights because the latter will cause noise on your radio. I have been using a lamp with a red light bulb the last while as I found it gives off a soft glow that is not hard on the eyes, but suit your self.

5- Keep a sheet of paper with your targets on it and keep it near your log sheets. You can organize these targets by frequency or by the best time to hear them. I have also gotten into the habit of taking a highliter pen and marking off the stations I have heard in my NRC logbook. That way I can look at a page in the logbook and know in a flash if I've heard that station before. Also by going through the log you might spot some stations that you thought you had but did not or stations you should have but do not. By the way if you go for the red light in the lamp don't use a yellow highliter pen as the yellow disappears(This is the voice of experience HI!!).

6- If you have your choice (you should be so lucky) of where to set up a listening post try to place it some place where you can run wires outside with ease. You may or not have a radio that needs grounding or you may at some time wish to set up an antenna outside. It is a lot easier if you are at an outside wall or if in the basement near a ready made hole in the wall. By that I mean a drier vent sump pump line etc, where the house builder has cut a hole that you could use to run wire outside. Drilling through a few inches of concrete is not a great deal of fun.Trust Me!!!!

7-Try for a place where you won't bother or be bothered by others. Now if you have children as I do there is no place they will not bother you!! On the other hand if you are in an apartment it might be better to be in the living room than in the bedroom. This is from personal experience. My wife rather have " That Stuff " in the living room than me in the bedroom with a light on at 3:00 A.M. listening while she and " The Rest Of The NORMAL People" were asleep!!! This is supposed to be a hobby not a way to get out of a marriage HI!!!

Well think about it and try what you feel is appropriate to your situation and I wish you the best of DX in a nice comfortable spot (not the tub you goof, you could ruin the radio!!)

DX Worldwide - West



PAT MARTIN
P.O. BOX 843
SEASIDE, OR 97138

Time: UTC phone (503) 861-3185

DEADLINE: TUESDAYS

Not too much to report this week, but I did get a nice report from Nick Hall-Patch from Victoria. I was able to finally get a log on Taiwan-1521 and at the same time log China broadcasting to Taiwan on 1512. So on with reports:

TRANS-PACIFIC DX ROUNDUP

- 585 U.S.S.R., Svobodnyy, 11/12 1500. Poor w/CC talk by man, then foreign service chimes. (NHP-BC)
- 666 U.S.S.R., Komsomolsk-na-Amure 11/10 1504 Classical corc. mx // 5015, fair. (NHP-BC)
- 693 JAPAN, Tokyo-JOAB 11/10 1500 Fair to good w/JOAB ID and pips, anthem and mx box s/off, some CBY splatter. (NHP-BC)
- 729 t JAPAN, Nagoya JOCK 11/19 1500 Big het here, sounded like last pip of NHK pips, w/CKLG 730 splatter mostly nulled. Traces of music after hour, but didn't sound like anthem or mx box. (NHP-BC)
- 747 JAPAN, Sapporo-JOIB 11/13 1453, fair w/man in JJ in splatter (NHP)
- 828 JAPAN, Osaka-JOBB 11/10 1440 Very good w/man and woman in JJ. Best signal this season which isn't saying very much! (NHP-BC)
- 1476 U.S.S.R., Vladivostok-11/20 1512 Nil to fair w/man in CC w/o loud hum //9480. (NHP-BC)
- 1512 P.R. CHINA, Fuzhou (Fujian Prov.), broadcast for Taiwan in CC, fair in weak fading // 4770 at 1515 on 12/9. Weaker than Taiwan-1521, but could copy enough for taped report. (PM-OR)
- 1521 TAIWAN, Broadcast for P.R. China hrd in Standard CC on 12/8, but too much KSGO-1520 to make much in signal at 1532, checked again at 1510 on 12/9, was much stronger with man in CC, then at 1515 went into alternating M and F ancrs, logged until fade out at 1546. Nice tape. // 6180. Thought I caught a "Chungyang Kuangpo Tientai" at 1529.55, but uncertain. New. Taped report sent. (PM-OR)
- 594 t JAPAN, Tokyo-JOAK-11/12 1501 Sounded like JJ talk in splatter from 600, then mx but not NHK s/off mx. Is NHK-1 running after 1500 now? No //s available at the time. (NHP-BC) (Not that I know of, except during rare times. Have heard one of the NHK nets AN one time a few years ago. PM)

THANKS TO THESE REPORTERS:

- NHP-BC NICK HALL-PATCH-1538 AMPHION STREET-VICTORIA, B.C. V8R 4Z6
Homebrew rx, ICF-2010, 3' box loop, shortwires
- PM-OR YER EDITOR
SP-600JX, 1500' East Beverage, 1400' NNW Beverage, 200' NE LW
Ground system

A DXer's TECHNICAL GUIDE

Now in its 2nd edition, this 120-page book answers questions on how receivers work, how to make them work better, what audio filters and loop antennas will do for you, how to build a beverage and phasing unit, and much more. Only \$5.50 for members, \$6.50 for nonmembers (\$2.00 extra for overseas airmail). Write IRCA, P.O. Box 21074, Seattle, WA 98111.

Richard C. Evans
Apt. 19
5104 N. Lovers Lane
Milwaukee, Wisconsin
53225

EASTERN DX FORUM

Ernest Cooper, 5 Anthony Street, Provincetown, Massachusetts 02657
508-487-9337. Here's wishing every IRCA member a wonderful Holiday season - a Merry Christmas, a Happy New Year, and to our Jewish members, I hope you had a wonderful Hannukah. It's too late to wish my NRC friends a Merry Christmas...As of this date, 12/6/88, NRC-only DXers do not know I do not have a DX set now and that I am looking for suggestions. They will soon, though...The GE Superadio is mis-named - it is certainly not Super, in my opinion. I did manage to pull in WQSI-820 (x-WZYQ) on Tuesday AM 12/6 @ 0245, in and out with WBAP and HJED, and WLX-1550, x-WMLB, on a rare twilight free of my horrendous local buzz, also on 12/6. This buzz has been bothering me here for at least six months - it usually comes on about a half hour before the street lights come on, and goes off somewhere around 2300. It is never present during my 0130-0300 DX sessions, but it does come back around 0600 for a couple of hours. The local power company is sending somebody here to try to trace the origin of this racket, and I'm hoping he's successful. DXing through it is impossible. It's worst on the low end of the dial, rendering even local WFEI-590 unlistenable. ... To WPT, what does "s/off by OM" mean? (Page 3, 840 kHz, Issue 829) And to William Wyllie, your "Star Country" on 1160 is definitely WOBN, Lakewood, NJ, which dominates here these early AMs, w/c/w music. They haven't yet replied to my report. ... WLX-1550's slogan is "Christian 1550" and were heard with a fady signal 1640-1658 when they disappeared. WFVD-NY is still on FM and so WUKQ continues on 1050; report sent to WSKQ for both WSKQ and WUKQ has also gone unanswered. This has been a horrible season so far for me, but it is always refreshing to receive the Monitor. However, conditions seem very good. Anyway, Forward - March!

Gary A. Heisey, Box 310F RD 1, Osterburg, Pennsylvania 16667

Hello. My house is up for sale and I placed sale ads in two local newspapers. So far, not one phone call from anybody even inquiring about my place. I've been unable to send in to all of the Forums, Roundups that I wanted because of cash problems and high postage. (Gary, you can send in more than one Forum at a time if you wish--rce) I plan to leave hill-billy land and move back east towards Philadelphia suburbs to find more work and hopefully an affordable place to live with quiet neighbors. I'm into stuffing, soldering, electronic circuit boards (10 years). Maybe I'll have better results finding a small company that needs extra help in this area. Resume went out to Delaware Valley Mfrs. Assn. Sunday, I heard WLWL sign/on by man wishing everyone a pleasant good evening, and good night!, then into gospel music. One of the stranger goofs but I've heard others over the years. Usually it's worse on the weekends. Shawn Axelrod, just got your letter, many thanks. I thought my unID was WPAD also. Last night I heard them again (WQXR off). Fred Sanders and Interstate Radio Net, C&W mx and..NO ID top of the hour at 0300 right into the next song. Never did hear calls that MM. (They were almost as bad when they had Larry King.) Was also checking 1000 for KTOK. No luck there either, just a C&W faded in briefly over CFRB, splash then it was gone. Condx are not the greatest here lately. Sorry Shawn, can't help you on your 920 unID, I've never heard this station. 73 GH.

Rick Evans, Apt. 19, 5104 North Lovers Lane, Milwaukee, Wisconsin 53225

Happy Holidays to everyone. Hope this time of the year finds you healthy and well. I was watching the local news a couple of nights ago when channel 12 while they were putting a local angle on the earthquake in the USSR. They interviewed a local ham about his attempts to contact the people and showed him tuning his radio. It turned out to be a Hammarlund HQ-140X. It's been years since I've heard that radio mentioned. A few weeks ago, we were discussing the DX conditions in northern Wisconsin and Minnesota. In today's Milwaukee Journal magazine section (12/11), there's an article, tongue-in-cheek, extolling the virtues of living in northern Wisconsin, above US 8 (it bisects the state, about 50 miles north of Wausau: "...Yes, a true northern Wisconsin person, I told my friends, could barely pull in radio and TV waves from the southerly reaches of the state. It's easier to tune in broadcasts from Canada..." (He also goes on to say "If you're looking for a mild winter, go to northern Wisconsin in summer".) He's talking about an area which starts about 100 miles north of where I was living last winter. Gotta run. See you in seven. 73.



Western DX Forum

★ ★ ★ ★

IRCA — The #1 Choice of the Broadcast Band DX'er

Editor: Ric Heald • 8539 Bellamy Way • Sacramento, CA 95828 USA • (916) 386-8677

DEADLINES — WEEKLY ON TUESDAY 11 DAYS PRIOR TO PUBLICATION DATE

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FRANK ADEN, JR., 5147 MORRIS HILL, #133, BOISE, ID 83706

KBOI has dropped MBS and picked up ABC 1. KGEM which dropped ABC 1 and a country format is now running a "hits" format, calling themselves "the gem of Idaho with the hits of the '40s, '50s and '60s." This is a surprise to many KGEM listeners as they were just about the only station to have the same format for the past 30 years in the Boise Valley! (Who's fulltime C&W now - did FM K.O. KGEM's format?-Rth.)

KMCL 1240 McCall and KRDR 1480 Gooding have both gone dark due to financial failure. A short article in the local newspaper reported the owners at KRDR just couldn't get enough advertisers to make the station profitable. I talked to the owner on the phone about a year ago and he sounded pretty optimistic at the time.

KKIC AM/FM are no longer listed in the local radio guide and the last time I checked they had no phone listing. One of the people I work with used to be manager of KKIC and told me the owner never pays his bills.

Anyone who would be interested in finding old magazines (electronics and misc.) might want to send a SASE to Way's Magazines Unlimited, P.O. Box 193, Seattle, WA 98111 for their information sheet.

Merry Christmas and Happy New Year and Sacramento in '89!

GLEN KIPPEL, 612 N. WEST AVE., MERCED, CA 95340

Hello again. I've had some time lately to do some DX'ing and in the past two or three months have upped my loggings from 369 to 455. A lot of those have been call changes, though.

Some news: local KYOS and KMYT (FM) has been sold, and there may be a format/call change in the offing.

A note for Jim Hall and any others trying to ID the TP on 738: Tahiti is typically poor modulation except when they s/off they crank up the French national anthem pretty loud. Try then (0930 UTC according to WRTH).

Ever try DX'ing with a 250-foot vertical? One night when doing some maintenance for KSNW (FM) I took along the RAX-1, intending to hook it up to the FM antenna transmission line on their 500-foot tower. Well, unfortunately my repairs took much longer than expected, and just before dawn I hooked on to and unused SPL transmission line that goes midway up the tower. Nothing new heard, but XEVQ 830 was pounding in. Long vertical antennas reduce the signal coming in from higher radiation angles (i.e. favoring long-skip rather than short-skip signals) and can produce some interesting DX. I once heard Peru on 854 from Sterling, CO with KOA 850 on, for example.

There was a ham in New England who lofted 1,100-foot verticals using box kites (two at the top and one in the middle). Balloons filled with hydrogen or helium work well in areas without enough wind to loft a kite. Watch out for airspace clearances or some airplane may snag your antenna! (When you can read "United States Air Force" without squinting, you know you can't raise a vertical antenna, hi. Mather's close by to me-Rth.)

An interesting idea to save the AM band is from George Yazell, an engineering consultant in Lakeland, FL. He suggests using narrow-band FM on the MW band. Any transmitter is already FM and AM modulated simultaneously. If it's an AM transmitter, it's called "carrier shift" and in an FM transmitter "AM noise." Anyway, he suggests using a first IF of 430 kHz, then multiplying by 25 times to get an IF of 10.75 MHz. A 428 kHz would give an even 10.7 MHz. The frequency response, signal-to-noise, capture ratio, etc. would be the same as the VHF "FM" band. The stations could broadcast both AM and FM simultaneously until enough receivers were available to receive the FM component. Older AM receivers could still demodulate the FM signal by tuning to one side and slope-detecting.

Another idea is to move the MW stations to an "FM2" band at 220 MHz, but that really gets into the problem of having receivers. Another idea is to use the longwave band in North America for broadcasting, as it is in Region I. But I don't see how either of these proposals would "save" AM broadcasting. 73.

ROB HARRINGTON, P.O. BOX 22202, DENVER, CO 80222

Well, 1988 is turning out to be the worst year for me and my family. I'm once again unemployed for the third time this year. I've had a total of three fulltime and five part-time jobs. Our income problems keep going up and down. I'm now delivering pizza at night and working another part-time job days through Norrell Services, Inc.

Nothing to report on the hobby of radio listening. I'm real hopeful of a good year in 1989.

Until my next report in the new year, I'll say 73.

RIC HEALD, 8539 BELLAMY WAY, SACRAMENTO, CA 95828 (916) 386-8677 1000-1300 PLT & ppd.

Howdy. Must be the mid-winter doldrums before winter officially starts, hi. Conditions have been at best, crummy. I listen to KGO on my way home from work, and noticed them fading badly last night, 12 December, something they normally don't do. Kicking on the "frog" I noticed mild aurora conditions with XEWA 540 blasting in. Went to 1030, and either KJJD is carrying Larry King or KFWO is back AN, hoping to find an old friend in the form of R. Centro, but nothing. I tend to think Larry King was on KJJD because I heard an OC when turning the loop eastward.

KPIA 710 is now running their increased night power. Much more difficult to null now, and they're back to AN. Will check on SM to see if they're still silent on their previous SP when running AN6 in the past.

I haven't seen anything in DXW, but did KRCX 1110 get a night power increase and/or pattern change. It used to be a piece-of-cake to null them and hear KRLA. Not so anymore.

Local airport 530 kHz station has cleaned up their modulation and can now clearly hear their ID, which is WNIG 247, not WNRZ. Message has also been slightly changed.

Glen, while many say AM is "dead," it's still alive and kicking in some major markets, such as San Francisco with KGO and KCBS. Of course these are talk and news stations, for music, yes, AM is washed up pretty much. Unless all these new stations are coming on with pre-paid programming, I really don't see how they can make it, unless it's an intentional tax write-off. And that's funny; 20 years ago FM was a tax write-off for the AM station! I've said it before and I'll say it again - watch for a lot of AM stations going dark and opening up the AM band for DX. I can at least hope, hi.

I'm also interested in your vertical antenna DX. We were able to do that at KSEW 1400 Sitka, AK. We had an old WWII circa National receiver at the station, and after our 2300 PLT s/off, we could switch to the 150-foot tower. We'd normally listen to Seattle while doing janitorial duties. One night another DJ who was also a DX'er and I sat down and DX'ed using the tower for the antenna and logged several DU's. I also had a vertical antenna while living briefly at a high-rise in San Francisco. I was on the 21st floor and lowered a weighted wire at night down to about the second floor. Didn't really hear anything spectacular, not to mention I was across the street from (then) KSOL (now KEST), hi.

That's it for another week. Want to wish everyone a joyous and prosperous New Year. And keep Sacramento in mind (home of the oldest, continuous daily newspaper west of the Mississippi) for your summer vacation plans as IRCA celebrates its silver anniversary. Best of DX and 73 de Rth. .

IRCA Foreign DX Reference, Volumes 23-25

You're tuning around and hear a carrier from foreign origin on a frequency (say TA on 891). You want to quickly know which countries have been heard on the frequency and what type of programming was heard. Or, you're DXing and have heard several stations from one foreign area (say Japan) and want to quickly know what other stations have been heard from that area. These are the situations the IRCA Foreign DX Reference was created for. No longer will you need to thumb through tens of back issues of "DX Monitor" to find the information you need. With the IRCA Foreign DX Reference you can quickly determine which foreign stations might on a particular frequency or where to look for more stations from a particular area.

In honor of IRCA's 25th anniversary (and because it sounded like a good idea), this year's Reference was compiled from the last three years of "DX Monitor"!

The IRCA Foreign DX Reference is a cross reference listing of all the stations reported to DXWW-W and DXWW-E during volumes 23-25 of "DX Monitor" (9/85-8/88). Three sections are available: Trans-Atlantic, Pan American, and Trans-Pacific. Each section contains a frequency listing (countries reported for each frequency) and a country listing (frequencies reported for each country) including the "DX Monitor" issue in which they were reported (volume and number). The Reference is an indispensable guide to what was reported the last three years, and where to find specific information about the receptions.

Each listing is 6 or 7 pages long. You can order any one of the three (TA, PA or TP) for \$2.00 each, or all three for \$5.00. Order your copy now before the 1988-89 season gets underway. Make checks out to IRCA and send them to: 9705 Mary N.W., Seattle, WA 98117. (phil bytheway)


RAY BRIEM SHOW --- "DX SPECIAL!"

SATURDAY, JANUARY 7, 1989--0806 UTC

ONCE AGAIN, THE AIRWAVES COME ALIVE WITH NEWS AND VIEWS FROM OUR PANEL OF DXPERTS! JOIN RAY--AND OUR GUESTS, STEVE MILLER OF RADIO WEST; STEWART MACKENZIE OF THE AMERICAN SHORTWAVE LISTENERS' CLUB; GEORGE JACOBS, WORLD-RENOWNED SHORTWAVE ENGINEERING CONSULTANT; TOM KNEITEL, EDITOR OF "POPULAR COMMUNICATIONS"; AND LARRY MAGNE, PUBLISHER OF THE "PASSPORT TO WORLD-BAND RADIO". CALL IN AND ASK QUESTIONS, OR TELL TALES ABOUT YOUR EXPERIENCES IN ANY AREA OF DXING, WHETHER IT'S LONG-WAVE, MEDIUM WAVE, SHORTWAVE, UTES, FM/TV/VHF/UHF, MICROWAVE (SORRY, NO OVENS INCLUDED!), OR SATELLITE DXING. LISTENERS FROM OUTSIDE THE LOS ANGELES AREA MAY DIAL 1-(213)-879-8255, TO JOIN IN -- JUST LET THE CONNECTION RING, UNTIL WE ANSWER--THEN, IT'S YOUR TURN TO GO ON THE AIR, WITH RAY AND THE PANEL--REMEMBER, WE WANT TO HEAR FROM YOU!! (STARTING TIMES MAY VARY--CHECK LOCAL STNS.)

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WABC- 770 kHz	WNIR-100.1 MHz	KABC- 790 kHz
WSB - 750 kHz	WISN-1130 kHz	KTAR- 620 kHz
WKOX-1200 kHz	WJNT-1180 kHz	KOH - 630 kHz
WIOD- 610 kHz	KSTP-1500 kHz	KNST- 940 kHz
WERC- 960 kHz	WPTF- 680 kHz	KFIY-1270 kHz
WJBO-1150 kHz		KTKK- 630 kHz
KPRC- 950 kHz		KZIA-FM - 101.7 MHz



**THE TRAVELERS HIGHWAY
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We still have several copies of the Traveller's Information Station and Highway Advisory-Radio Guide. This handy guide lists all sorts of info on TIS/HAR stations, including their locations, prerecorded announcements and other material. It's a must for those of you who DX on 530 and 1600 kHz, or if you're going to do a lot of travelling this summer. To obtain your copy, send a check or MO for \$10 to IRCA, P.O. Box 21074, Seattle, WA 98111.

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The IRCA is a non-profit organization devoted to the hobby of hearing distant stations on the AM Broadcast Band (510 - 1630 KHz). "DX Monitor", the official publication of the IRCA, is published 34 times a year, weekly from October to March, twice in September and April, and monthly from May to August. "DX Monitor" contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists. IRCA is a member of ANARC, the Association of North American Radio Clubs.



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Reprints of more than 400 articles from past issues of "DX Monitor" are available from the IRCA Goodie Factory. Also available is IRCA stationery and the very popular IRCA publications: "IRCA Almanac", "A DXer's Technical Guide", and the "IRCA Foreign Logs". For a complete list of available publications and their costs, send a self-addressed, stamped envelope to: IRCA Goodie Factory, P.O. Box 21074, Seattle, WA 98111.

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International Radio Club of America
P.O. Box 21074
Seattle WA 98111

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D. A. NYHOLM 19
2071 CEDAR STREET
SAN CARLOS CA 94070
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