The DX Bulletin

Issue 61 October 27,1980

HOT NEWS? CALL THE DX BULLETIN: 203-871-6251; LEAVE A MESSAGE!

PROPAGATION FORECAST: Oct. 27, High Normal; Oct. 28, Above Normal; Oct. 29, High Normal; Oct. 30, High/Low Normal; Oct. 31, Low Normal; Nov. 1, 2, Low Normal; Nov. 3, High/Low Normal; Nov. 4, 5, High Normal; Nov. 6, Low Normal; Nov. 7, Below Normal; Nov. 8, 9, High/Low Normal. TNX N4XX.

PUBLISHER'S NOTICE: This publication will still be the lowest-priced of its kind available, but the subscription price is going up: \$35.00/year overseas airmail and \$26.00 U.S., Canada, and Mexico. New prices are effective November 15, 1980. All present subscribers may extend their subscriptions for up to two years at the current rates anytime through November 15.

Let it be known that the extra money will not be getting into any pants in Vernon; the United States Postal Service has officially announced that airmail rates will increase on January 1, 1981, to 40 cents per half ounce...a 29 percent increase!!! It is generally accepted that domestic rates will increase to 20 cents per ounce, a mere 33 percent jump, sometime shortly after the first of the year. It does make one wonder what happened to President Jimmuh's "7 percent guidelines."

This is the first price increase since publishing began here almost 15 months ago; we held out as long as possible, shopping for paper and services and cutting corners wherever possible. It is frustrating that the extra money which subscribers will have to pay will go to support the New Ghrysler Gorporation the U.S. government instead of for some worthwhile purpose, like The DX Bulletin.

MONTHLY DX COLUMNS of two major amateur magazines will change shortly as new authors take over; following closely on the heels of CQ, which signed on free-agent WA6AUD for the 1981 season, 73 and QST magazines will have new DX columnists around the first of next year. Neither has yet determined who the new columnists will be, but both KIJX (of QST) and KITN (of 73) have resigned due to increased pressures elsewhere.

CQ WORLDWIDE CONTEST ENTRIES should be mailed to:

Phone
Bob Cox, K3EST
5801 Huntland Drive
Temple Hills, MD 20031

CW Larry Brockman, N6AR 7164 Rock Ridge Terrace Canoga Park, CA 91307

UGANDA appeared unexpectedly on the bands Oct. 17 in the form of Carl Henson, WB4ZNH/5X and Martha Henson, WN4FVU/5X; they have been operating phone only (although will honor requests for two-way CW contacts) on 10, 15, 1nd 20 Meters, working split on the (cont'd)

The DX Bulletin is a weekly publication devoted to news of interest to DXers worldwide. The DX Bulletin is affiliated with no other publication or organization and is independently published by DXers, for DXers. Yearly subscription rates are \$22 US, VE and XE, \$30 all others (air mail). Address all correspondence to The DX Bulletin, 306 Vernon Avenue, Vernon, CT 06066 USA.

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usual DXing frequencies, around 21290, 14200 and 28600. They have two rigs as well as licenses. QSLs go to:

for WB4ZNH/5X:

for WN4FVU/5X:

Bob Smith, K4PHE 549 Southwind Drive Lilburn, GA 30247 Bill Barr, N4NX 305 Alpine Drive Roswell, GA 30075

Uganda is still recovering from eight years of economic disaster under Idi Amin; the country is scheduled to hold elections on December 10, after postponing them from the original date of September 30. The populace originally saw the elections as a way out of the recent miseries, but as the two opposing "parties" debate how the elections are to be held unrest has been escalating again.

LIBYA appeared again on Oct. 20 as G3JKI/5A worked with F6CYL once again; he has been worked in all parts of North America, on 10, 15 and 20 Meters SSB, mainly in the 1300-1600Z time range.

TURKEY:

ARRL WIAW DX Bulletin, Oct. 9:

"All hams are urged to not send anything related to amateur radio to Turkey until further notice."

ARRL WIAW DX Bulletin, Oct. 16:

"When sending mail to an amateur in Turkey, make no mention of callsigns or amateur radio on the envelope."

ABU AIL...more word from J28AZ, who is presently in France signing FØEDI. He confirms the callsign J2ØAA, and he, K6LPL, and F6ATQ will spend three or four days at the light-house beginning Dec. 5; all bands, phone and cw. Listen for them signing J2ØAA/MM enroute Dec. 3 or 4.

CHINA: an article will appear in QST early next year, detailing the visit of W6AM, K2BPR, WA6BGE and W6GC (TDXB, Issue 56). The Chinese encouraged discussions about amateur radio, and the U.S. hams who visited felt they made a positive contribution to future BY operations. On October 22, the U.S. and China signed a four-year, multi-billion dollar grain deal, to the delight of American agriculturalists.

FERNANDO DE NORONHA final word from KB4IT is that all is GO for the operation by him and Carlos, PY7OD beginning November 2; they encountered some difficulty but finally obtained all the necessary permits for landing, operating, tower erection, etc. PYØZDX and PYØOD will use two TS82OS transceivers with external VFOs, mostly split on the usual DXing spots. Try 7175 and 3770 on phone, with them listening in the U.S. bands.

FRED LAUN, HS1ABD/K3ZO is settled in Bogota, Colombia, and intends to do plenty of smoking this season, but it will be under someone else's call sign until about December, as it takes about two months for an HK license to be approved. Fred is also looking for a hacienda, as he is scheduled to be in Colombia until about May of 1984. Bogota is high, at 8700 feet ASL.

Fred regrets he was not able to provide more HSIABD contacts on 40 and 80 Meters...his work schedules just did not coincide properly with the band open times, and he had local noise problems as well. He says HSIWR will have a 40 Meter beam up sometime this winter, and will try 80 also, but there's noise there, too. Maybe HSIALP will be able to make the grade with a half-sloper Fred diagrammed for him, but that will be on phone only.

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HS1AMI/28584/01C/14

HS1AMS/28575/00C/22

HZ 1AB/14020/04C/10

UF6VAA/14225/04C/15

UF6FEK/28041/17E/17

UG6AI/14224/05W/15

BANDPASS: Call/Freq./UTC (plus West, Central, East coast report)/Day of Month

BANDPASS: Call/Freq.	174 31250/ 08/15 9VI	eal, East coast report)	
Low Bands	KG6RT/7001/11E/12	TI2CC/7094/01C/12	VP2EA/3508/23E/12
CE5BBN/7016/00E/13	KG6RT/3501/11C/15	UK6LAZ/7005/15W/13	VS5RP/3507/14W/16
CM7KR/7013/03E/15	N4ADJ/	UK9CAE/7004/14W/13	3D2FJ/7015/11E/9
HB9AHA/7005/05W/12	KH2/1803/14W/12	UAØQWP/7010/11E/14	4U1UN/7003/00E/17
HBØBNB/7012/04W/10	W4UY/	UK2PCR/7010/02E/15	4X6AG/7011/02E/17
HC2HM/7004/02E/17	PJ7/7018/02E/15	UK2BAS/7006/02E/17	DF5FM/
HK#BKX/7003/05C/13	PT7EJ/7007/00E/12	UQ2GFM/7004/05W/12	5NØ/7007/23E/8
HKØBKX/7002/00E/14	PZ9AB/3513/05W/12	UQ2PQ/7006/00E/16	5N2ØDOG/3503/02E/14
HM3LR/7011/14C/8	SL2ZZU/7006/15W/12	U050GK/7003/04E/17	5N2ØDOG/7014/01E/14
JA30NB/1810/14W/12	W6KG/	UF6FDR/7003/15W/13	5W1BZ/3508/11E/11
JR IPNX/7002/10E/10	SV9/7005/23E/13	UH8HAB/7005/02E/14	6Y5DA/3802/05E/10
J6LB/7205/10E/10	TG9XGV/3507/00E/16	VK7AE/3513/12C/11	9Y4VU/7005/01E/11
KC6ZR/3795/14W/17	TI5EWL/3795/05E/10	VK6HD/7004/23E/12	
Africa	DJ IUS/	TR8WR/28508/17E/22	3B8CF/21026/18C/15
CN2AQ/14039/06C/14	ST3/28036/13E/17	TU2JJ/14198/03E/13	3B8CF/28037/14E/12
CN2AQ/28039/11E/10	K5LBU/	TU2JJ/14203/00W/17	5H3PA/28501/18E/12
CN2AQ/28038/11E/15	STØ/28750/12E/16	VQ9RS/21295/17E/12	5N2@RMJ/28507/14C/18
CN8MC/28509/17E/16	SU1AL/14265/04E/15	VQ9RS/21355/18C/12	5T5CJ/21011/17E/11
CT3AF/21277/23E/16	SU1BA/21268/22E/14	ZD7GV/14030/01C/15	5V7HL/21290/22C/15
C5ACA/21292/04C/14	SU1AL/28024/18E/12	ZD8KG/28575/21C/13	5Z4RT/14201/21E/11
D4CBC/14202/03W/12	TJ1CK/21275/22W/12	ZE6JC/28554/17E/16	5Z4YV/28027/12E/17
D4CBC/14203/04E/12	TL8WH/14340/05C/12	ZE6JL/28554/17E/16	6W8AA/28750/14E/14
EASPP/14034/06C/14	TL8WH/21387/21C/13	ZS3LK/21304/21E/16	6W8AR/28751/12E/17
EA8QP/21028/23E/14	TL8WH/28524/20C/12	ZS3DX/28038/19C/14	7X2BK/28566/12E/15
EC8BP/21011/01E/17	TL8WH/28525/11E/13	3B6CD/14202/13C/13	8Q7AV/28750/13E/14
EC9AQ/21024/01E/14	TL8JM/28001/16E/18	3B8DZ/14223/04W/10	9G1RF/21337/00E/16
EA9GN/21010/21E/16	TR8IG/28016/20E/12	3B8DB/14025/03C/13	9J2WS/21055/05C/14
EL2AM/14203/00W/17	TR8DX/21291/21C/13	3B8DB/14024/03C/15	9J2KL/28025/14E/12
FH80M/14201/04C/10	TR8PQ/28007/17C/12	WAIYIG/	9X5MH/21274/21C/10
J28CC/28575/11E/13	TR8IG/28011/22W/12	3B8/21355/17E/12	9X5AB/28645/21E/10
Asia	HZ1HZ/28015/18W/10	UL7NW/14202/03C/14	VS6CZ/28037/13E/12
AP2MQ/28639/14C/13	HZ1AB/28501/12E/21	UL7NW/14207/02W/15	VS6DD/28550/23C/13
ZP2ZR/28751/12E/17	JT1AAF/14035/01W/12	UK7PAL/21023/01C/15	VS6IC/28580/00E/21
A4XHI/21032/19E/11	JT1BG/28565/23C/12	UL7BAM/28507/13E/13	VS6DD/28555/00C/22
A4XIU/21287/17E/11	JT1AN/28575/00C/14	UL7PDU/28526/12E/13	VU2BBJ/14224/12C/12
A4XIH/21284/21E/14	JY4NA/14246/03E/12	UL7GBD/28505/14E/22	VU2RAK/14220/20E/12
A4XIH/28038/18E/10	JY4CB/14221/05C/13	UH8BAF/14037/02E/12	VU2KMK/14029/12E/13
A4XIU/28526/20E/14	JY5AZ/28592/11E/13	UH8EAD/28026/14E/12	VU2RQ/14030/01C/13
A7XD/28750/13E/16	OD5LX/14012/03E/14	UH8HCM/28573/13C/13	VU2CK/14209/02C/14
A7XD/28750/12E/23	OD5AT/14275/05C/16	RH8EAA/28505/14E/22	VU2BEJ/14219/02C/14
A6AZA/21296/18W/12	OD5MR/28582/17C/12	UJ8BQ/14035/02C/13	VU2BX/14213/13C/15
A9XDA/14207/03E/13	OD5MR/28570/15C/14	UJ8BQ/14215/02C/14	VU2RQ/14030/12W/17
EP2TY/28506/12E/13	TA1TAT/21035/17E/12	UJ8BQ/14030/03C/15	VU2HI/21258/18W/12
HM2GS/21250/01E/12	TA2TAT/21039/12C/16	UK8LAA/14216/03W/15	VU2BBJ/28742/15C/13
HL9KE/28538/23C/13	TA4A/28522/17E/15	UK8LAA/14215/04C/15	YBØPG/14224/12E/10
HMØU/28529/02C/14	TA4A/28522/13E/16	UK8BAA/21014/16E/11	YBØBVG/14250/10E/13
HM2JD/28578/02C/14	UD6DKW/14015/04C/9	UI8AMA/14060/11E/12	YBØPG/14211/12E/13
HM1JJ/28031/23E/14	UD6DKW/14028/02C/14	UI8LBA/14017/02C/14	YBØBES/14250/10E/15
HM1JD/28538/00E/15	UF6VAA/14290/04W/10	UM8NAG/14008/02E/17	YC2BLI/14205/12W/15
HS 1AMS/14219/11C/10	UF6VA/14037/22E/14	UM8NAP/21019/02C/16	YBØWR/14210/15C/15
	************************	TO 10 MD 7 / 20 E 1/ / 12 E / 10	VDAUD /20528 / 16F / 13

UM8MDZ/28514/12E/18

VS5SS/28610/13C/13

VS6DD/14210/14C/12

More...

YBØWR/28528/16E/13

YC1BSA/28530/15E/13

More Asia	9K2FS/14208/23W/14	9M2GZ/14206/11C/13	9V10I/14242/11E/12
4S7CF/14203/12W/13	9K2EW/14226/02W/15	9M2GZ/14225/15C/13	9V10I/14240/14W/13
4S7CF/14230/12C/14	9K2EW/14243/22C/16	9M2MW/14250/10E/15	9V1RI/28549/00E/16
4S7EA/14207/00E/16	9K2EW/28583/14C/10	9M8PW/14250/10E/13	9V10I/28550/00E/21
4X6AS/28656/15W/12	WB1GDQ/	9M6BE/28579/23E/16	34101/20330/00E/21
4Z4XI/28597/11E/22	9K2/28526/14E/16	9N1MM/14211/12E/13	
5B4IT/21293/20E/11	9K2DR/28750/13E/16	9V1UL/14204/11C/10	
5B4JP/28007/13E/17	9M2GB/14215/12E/12	9V1UL/14218/12W/13	
Europe	HV3SJ/21299/20E/12	OY9R/28750/13E/14	TF3SA/28054/21E/12
CT2DG/28577/17E/16	HV3SJ/28596/18E/12	W6KG/	TF3YH/28750/14E/13
C31SJ/14265/06E/14	HV3SJ/28595/22C/13	SV9/21278/17W/12	TF31RA/28554/14E/18
C31PS/14024/23E/17	ISØUSU/28574/14C/12	W6KG/	UR2QD/28547/15E/14
C3 IUN/28577/15E/18	ISØVMB/28510/18E/18	SV9/21281/20C/13	ZB2E0/14010/23E/17
EA6BH/14062/22E/14	JWØEM/14014/20E/12	SVØAW/21366/18C/14	ZB2GR/28701/18E/12
EA6DE/28550/14E/19	LX1ML/14009/22E/11	SVØAW/28510/16W/12	ZB2GR/28703/14E/14
FC2CI/28612/18E/15	LX1AG/14008/22E/14	SVØAM/28615/15C/13	3AØPN/14009/21E/13
FC2CI/28615/17E/16	OX3AX/14023/21E/11	SVØAX/28566/18E/21	4U1ITU/28006/12E/13
GD4BEG/28024/16E/17	OX3AX/14025/23C/16	TF5TP/14031/17E/12	
GU4EON/28580/17E/19	OY3H/28035/18E/12	TF8YH/14214/14W/12	9H1FG/28608/13E/14
HBØBNB/28028/18W/10	OY9R/28630/20E/13	TF3SV/21309/21C/16	9H1GC/28731/14E/14 9H1FX/28750/13E/16
Oceania	F08GH/14225/08E/13	VK9NC/14215/10C/10	3D2ER/14067/05C/14
A35JL/14285/06C/16	KG6RN/28537/22E/10	VK9ZG/14203/12C/11	3D2CM/14223/10C/12
C21BS/28565/01E/17	KG6RL/28630/21E/13	VK9ZG/14208/15W/11	3D2CM/14223/10C/12
WB2GXY/	AEØL/	VK9ZG/14244/12C/12	3D2FJ/21026/03W/11
DU2/14019/12E/13	KH2/28043/23E/10	VK9ZG/14215/15W/12	3D2FJ/2102b/03W/11
LP4KK/	P29RY/14223/10E/14	VK9NL/14239/10E/14	3D2FJ/28034/23C/11
DU2/21025/17E/11	P29LB/14291/10E/15	VK9ZG/14220/10E/15	3D2ER/28016/00E/12
DU 1POP/28560/00E/17	P29LB/14309/10E/16	VK9NC/21007/14C/11	3D2MK/28025/23E/14
KP4KK/	P29NRL/28516/00E/16	VK9NC/21010/01E/16	3D2MK/28024/02C/15
DU2/28025/23E/20	T3AT/14005/10E/15	VK9ZG/28885/00E/10	5W1AU/14265/04C/10
FK8CW/14207/12W/17	T3AC/28025/23C/10	VK9NC/28017/00C/12	5W1BZ/28018/21C/11
FO8HA/14034/05C/11	T3AC/28025/23C/11	VK9NC/28010/01C/16	
Elsewhere	FP8HL/28562/17C/19	KG4KK/14202/04C/10	YS10/28051/14E/13
CE9AH/14258/07C/11	K7CA/	LU3ZY/14210/11C/18	ZP5NW/28030/12E/11
CE9AH/21345/00E/14	HC1/28518/17E/14	OA4AWD/28021/14C/12	3ZØMB/14030/01C/13
CE9AH/21345/01W/14	HC2SL/28029/14C/11	PJ2ILR/14043/03C/15	4U IUN/2 1024/2 1C/9
CE9AH/21345/01E/15	HC1QRC/28017/00E/17	PAØFM/	4U 1UN/28028/22C/14
CE9AH/21345/02C/16	HC8GI/28550/20E/11	PJ3,28506/19E/21	8P6NC/14231/12E/12
CE9AG/21345/01E/17	HH2V/28570/21W/11	TI2WR/28041/02C/15	
CE9AK/28550/18E/11	HI3AMG/21040/02E/14	VP2EA/21026/22C/11	8P6MZ/28520/22C/12
	HI8CQ/28570/19E/21	VP2EA/28026/19C/11	9Y4GH/14059/00E/12
	HKØBKX/28020/20C/12	VP2MPB/21380/20W/11	9Y4NP/14216/06W/12
	HKØBKX/28020/19C/13	VP2MO/28590/20E/12	MATI BANDDIGG 5 11
· · · · · · · · · · · · · · · · · · ·	KC4AAA/14258/09C/12	VP8AI/21010/01E/13	MAIL BANDPASS Fridays phone hotline anytime

TO THE DX BULLETIN: I don't know how you do it, but I will take advantage of you by extending my subscription for up to two years at the present rates, before they go up November 15. I also promise to file a complaint at my local post office about the poor service and the obscene postal rate increases upcoming. My money is enclosed.

Name:		OF the Salacontinue pro-magging apparate	Call		
Country or ZIP	CODE	Amount	enclosed	\$	

LIBERIA has authorized Six Meter operation for "the purpose of studying long distance propagation." Authorized frequencies are 50-54 MHz.

9U5AV QSLs expected in the mails not before December 1, from K5VT.

Colorado DX Net meets 28550, 2330Z Mon-Sat, until next spring.

<u>VS6DD</u> <u>daily</u>, 28555 at 2330Z with help from W7 stations. A7XD on 7085 and 3790, 02-04Z.

PYØRA and PYØSA rumored preparing for P and P Rocks operation Dec. 12-14.

YKIAA on a "list" by OD5FB almost daily, 14216 at 1450Z. JD1ALU on 15 SSB, Ogasawara.

DX-to-DX net by DK20C M-W-F, 28750 at 1200Z; two stations from each U.S. area plus VEs after others have signed in, please. Plenty good DX.

ON5TV going to Rwanda to sign 9X after Dec. 1, for five years.

K4II on vacation, was at KH6, then KS6, followed by JA, VK, ZL, and FO8 Dec. 6.

C9MB is bogus. So is VU5CK Laccadives. JT1AN nightly 28575/0000Z; inaudible East Coast.

J6LIR to be on in CQ WW Phone; QSL to WB6FCR. OH2AP/OJØ cards just now out from June opns.

PROPAGATION (Thanks KH6BZF)

W4FRU writer:

Date	Flux	Alpha	<u>K</u>	
10/1-1	0/9	missing		
10/10	233	12	3	
10/11	242	34	3	
10/12	259	11	3	
10/13	257	7	1	
10/14	252	7	2	
10/15	238	16	1	
10/16	216	3	1	
10/17	203	5	1	
10/18	202	19	3	
10/19	204	12	2	
10/20	202	5	n/a	

Look for 5NØDOG on 75 and 80 Meters daily starting about 0400; if no propagation or Dave has noise problems, he will move to 40 and then 20 Meters. Dave will be on 160 soon.

ZD7HH advises he hears 75 Meter signals very well lbout 0600 but has called without success; he uses a trap dipole and about 100 watts. His external VFO for the Yaesu will be there shortly. He intends operation above 3800 and on 40 later.

ZD7HH plans an operation from ZD9 Tristan de Cunha early in 1981 if he has enough money; W4FRU is working on the logistics and more will be in these pages shortly about this.

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CALENDAR

Uganda ON NOW; this issue

Libya ON NOW G3JKI/5A; this issue

YASME W6KG/SV9 and W6QL/SV9 on NOW; SV5 next month; Issue 60

Congo Still looking for TN8AJ anytime; Issue 59

Guinea 3X Still looking per rumors Issue 58 T3 Tarawa By W9GW, Oct. 22-28; Issue 58

E. Carolines KC6s ZR and Yc, Oct. 22-29; Issue 58 Leichtenstein HBØBOE by DJ9ZB Oct. 24-28; Issue 60

Tuvalu T2 By JA7SGV group, Oct. 28-30

Tuvalu T2 By W9GW, Oct. 29-Nov. 5, T2AAD; Issue 58

S. Cooks ZKl By PAØGMM, Oct. 26-28; Issue 60

Somalia 600DX possible again end of Oct; Issue 58

Sri Lanka Now to Oct. 30; Issue 58

Macao CR9B now to Oct. 30; Issues 52 and 58
Niue ZK2 By PAØGMM, Oct. 29-Nov. 4; Issue 60

SAble Is. VELAI/a either last weekend fo Oct. or last of Nov.; Issue 56

Marshall Is. KC6ZR/KX6 and KC6YC/KX6, Oct. 29-Nov. 1; Issue 58

W. Samoa 5Wl By PAØGMM starts Nov. 5; Issue 60

Fijis 3D2 By PAØGMM starts Nov. 6 (through 11); Issue 60

Fernando d. N. Nov. 2-7; this issue

Tonga By PAØGMM Nov. 12-16; Issue 60

Tonga Starts Nov. 25 by DL1VU and OE6BVG; Issue 58

A. Samoa KH8 By PAØGMM Nov. 17-20; Issue 60

Wallis FW8 by DL1VU and OE6BVG starts Dec. 15; Issue 58

Abu Ail Dec. 5; this issue

Heard Island January, 1981, by P29JS and others; Issue 56

THANKS TO ...

W4FRU, WA8JOC, HP1XRK, WØBA, KU4J, KH6BZF, N6AHU, W2HXF, WB6FCR, KA1JE, W1NG, W2LX, W4LYV, K3ZO, KB4IT, W6AM, WØEAN, K8CJX, AB2N, W1DQH, W1FZ, W4VQ, AA4NC, WA2HZR, K4XL, WA4QLL, K4JST, W30DJ, W1UN, A11Q, K2OLG, WA2PHA, K3MRT, WA3DMH, K6IR, AD8J, WA3DVO, K3KP, W2HAZ, WA3DVO, W1MLG, KØCVD, WB2SZM, W1NW, K4NV, WB3GPR, WA1JGK, XE1NI, WØYBV, WDØGML, W5DUI, KØPCG, WA8SXQ, WB9YXY, W5CPI, WDØEIF, W9QWM, W5OSJ, WB8ZRL, KAØE, WØBW, K1RH, N4AXR, W5YH, KK5I, W6BUY, N7NG, AE6U, KB8KW, WA7OBH, K7ABV, K6SX, AK3F,

ICBM UPDATE: W2PV said 7 elements on a 38-foot boom would have plenty gain but poor front-to-back and, of, course, he was right. Those darned Texans are S7 off the back, but the Europeans are 20 dB over 9, so what the heck. The Ham-IV didn't last long trying to turn it, and a change of U-bolts was required. Why, oh why, supply a rotor with cheap hardware when, for another couple of dollars, hardened or stainless hardware could just as easily be provided??? It never fails to amaze me what manufacturers will do for the sake of profit in the case of antennas and towers, which are pains in the neck to upgrade, when we all would be glad to pay a few extra bucks for good hardware to begin with. I still think that NO ONE at CDE, Hy-Gain, etc, has ever climbed up and down a tower to fix something which should have been right when it left the factory.

We picked up a used S-Line for the contest season but the transmitter absolutely refuses to neutralize on 10 Meters, the band of preference here. Looks like the TS-520S will have to do for the CQ Phone, and more workbench work for the 32S3, not to mention new final and driver tubes...have you priced vacuum tubes lately? It sure is fun being a BIG GUN, isn't it?