

# WEST COAST

## DX Bulletin

+++ +++ +++ +++ +++ +++ +++ +++ +++ +++ +++ +++ +++ +++ +++ +++  
October 30, 1973 44-73

LORD HOWE Barring any possible difficulties that may develop at the last minute, the Lord Howe operation by VK4AK should open up this Friday and run until November 12th. The operation will concentrate mainly on twenty meters as being the most productive but 80/40/15mtrs will also be used. There will be operations above 14275kc to take care of the General Class licensees and others who may be lurking there. Gear will include a YAESU FT200 and FL-DX 2000 with an outboard VFO for split frequency operations. Look for VK4AK/Lord Howe on both SSB and CW QSL to VK4AK, 10 Terrace Street, Paddington, Queensland 4064, Australia.

PHOENIX ISLANDS This phone-only operation should open Thursday for three days. The announced frequencies was transceive around 21400kc and in the 14275-14300kc area. This operation will be by W6NKF who will return stateside in late November and will order QSLs at that time. QSLs for VR1PC will go to WA6KQB, 5917 Cobblestone Court, El Sobrante, Calif. 94803. The station will be active in the 0300-0400Z slot looking towards the mainland. A transceive operation, it may need some discipline.

DXPEDITIONS The VQ9=Farquhar group opened up last week, offering a lot of action prior to the CQ WW Test. It appears that there was little wind while enroute, they pattering along on the auxiliary engine. Then the twenty meter beam was blown down when they got into operations...or at least one was and the proximity of the stations gave some problems when attempts were made to work both CW and SSB on the same bands. Indicators are that they ran up a considerable total of QSOs. QSL information was to send cards to Box 193, Mahe, Seychelles Islands. Sanford Hutson, K5QHS, finally got to Juan Fernandez by the middle of last week after having to sit in Santiago for a couple of days waiting for the weather to improve and some excess water to recede. K5QHS/CEØZ was heard on the lower frequencies and also showed on the higher ones, working on ten meters also. San had to QRT before the CQ WW Test last weekend and was due back home last weekend. A M.D., he was scheduled for duty in the local hospital back home, the schedule calling for him to be home by Sunday. QSLs for K5QHS/CEØZ go to Sanford Hutson, Box 218, Broken Bow, Okla. 74728. The trip did have some unexpected expenses and some extra IRCs or other support would be appreciated. Sase or Sae/IRC with QSL.

MONACO 3A2CP was getting into the East Coast the hard way last week, working shortpath. Les says that in 11 years of operating that working into the states has been a tough one to crack. The terrain in Monaco is such that the shortpath to the States is right through the mountains and hardly conducive to loud signals and easy contacts. There have been some problems in the past with licensees driving across the border to get a better shot while still signing 3A2 and this has brought some restrictions on the issuance of licenses. Recently Les indicate that he was waiting for the longpath to open and that he would be in the 14240kc/14250kc territory most days from about 1600Z onward looking for the W/Ks and especially the Elusives Sixes and Sevens. QSLs go to WA3HUP.



SHORTLY NOTED Band conditions improved during last week and it might be noted that in the dead days of mid-October, WB4SIJ held up a light of hope. Out of the blue-grass country he called attention to the 27 day cycle....and, Son of a Gun, things did get brighter for the CQ WW Test.

The Zurich Observatory reports a mean sunspot number for August as 25.6 while the observers in the States report a mean of 25.6. It may be interesting to note that there were no sunspots recorded from August 12th to 17th and on August 31st there was a high for the month of 82.

Ten meters was open from the Western Reaches to Africa during the contest, getting away a bit from the North/South Path. W6RQ gives a bit more information on the next page.

HB0NL was on in mid-October and one of Slim's friends came up with a new bit of torture....recording a half-hour or so of the operation and then putting it back on the air. No matter how hard one tried, they could not get through. Not unless they had had a QSO previously.

G5BFH is W1DAL a bit removed from the familiar skies. OX3YY QSLs to Rinn Hoffmann, 3961 Umanak, Greenland. Most of the announced contest efforts were being heard last weekend, some in there trying for a new one and contest points at the same time. The DK4/601-Somalia station has been reported intermittently in recent weeks, once last week he was supposed to show at 14235kc/1800Z. Some say he does not have any permission or license to operate....but work him first, worry later. Also being reported as active on 15mtrs.

Those 5Y4-prefixes heard recently seem to have a connection with the Boy Scout Jamboree. A W19BSA also surfaced here in the states. WWV was sending N-6 forecast last Saturday. WB4SIJ notes that on October 18th while WWV was sending U-5 the DL0IGI beacon at 28195kc was being heard as well as ZEs. In the previous week when N6 was being reported, nothing was being heard on ten meters.

What's the point? Don't believe anything!! Take nothing for granted!!!! Get in and listen. The contact counts just the same if WWV is signing W1 or N9. At times some have indicated that 'N' means 'Normal'. Others believe it means 'No Warning' and is used when no ionosphere disturbances are in progress or expected. You can get either interpretation by reading ARRL Handbook. A few years back it was one way, now it is used to indicate 'Normal', whatever that might be.

W4UF reports some problems.....armadillos in the gardens plowing things up like some oversized armored moles. Dot says that at least a new dipole for forty brought some ruby-throated hummingbirds to brighten the scenery but that armadillo problem is something else. Just goes to show how a new antenna improves the environment and contributes to the esthetic enhancement of the neighborhood.

WB4BUQ/8R1 can be QSLed via WA6MWG...sase etc. This service is from October 8th. TA1MB was heard on twenty CW last week calling CQ. The TAs have been a bit scarce recently. Something like the 5As and 9Q5s. A 9Q5BG shows up occasionally....this one apparently working for the local posts and telegraph lash-up there. 5A does show in reports once in awhile but mostly on c.w. And when one takes a real close look at it, it shows as a probable HA-station.

The Afrikaner Net at 21355kc from 1900Z bringing up a good bit of African and other DX.

Mark your calendar for the VS-Activity day....24 hours of working all the VS6s from 1100Z on November 17th. All bands/all modes including SSTV. WB6ZUC was in Hong Kong recently to check the local scene on a tour of SEAsia. Joe is one of the local Marin QRPers, an XYL (Josephine) and a c.w. operator exclusively.

W0OL, Dick Brown, presently QRT on Formosa...involuntarily....is looking for any action which may develop in the Far Pacific. Any DXpedition, any Big Operation, Dick would like to know about the possibilities. Also, he is looking for some QSL manager chores to help along with his SWling. His address is Major Richard Brown, NAMRU-2, Box 14, APO San Francisco. There have been some hopeful rumors out of Formosa but nothing solid. If something does develop, W0OL/BV2 undoubtedly will be right there.

W6LUV/KB6 is mostly found on 15/20 and very occasionally on 75mtrs. QSLs go to the CBA except the address is 424 N. E St in Lompoc. W6TSQ had a card for HV3NA returned as a forty meter phoney....Sam says it must be 'Vatican Slim'. But what would you do when you work UR2EC? Believe them...or be suspicious? Remember the Golden Rule that never tarnishes: "Work first.... Worry later".

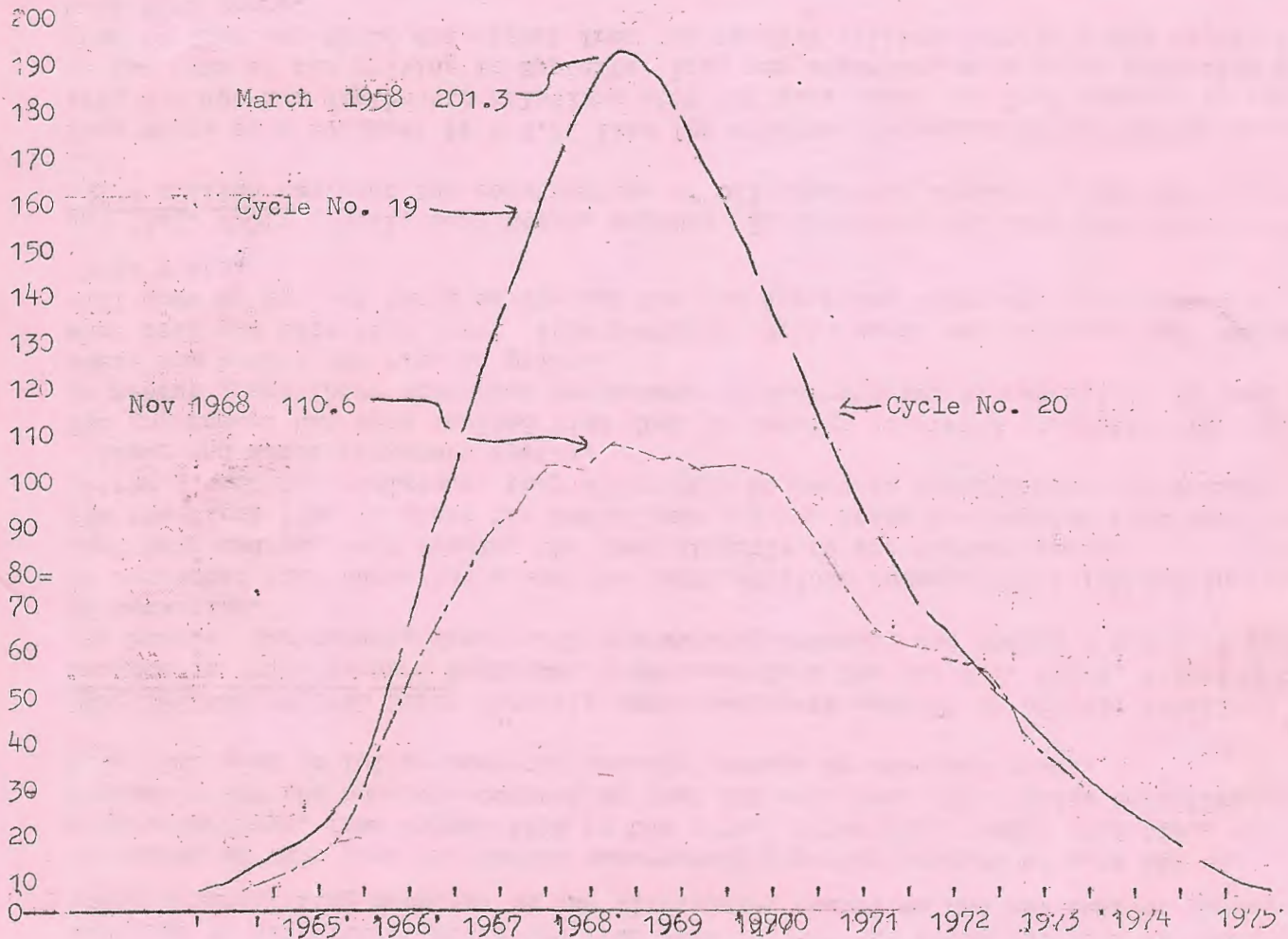


October 30, 1973

### SUNSPOT LOUIE

Somewhere along the way to the Great Days in Dxing, we are on the down part of Sunspot Cycle No. 20 and the accompanying chart may give you some idea just where we are at this time. Also shown is Cycle No. 19. Cycle No. 19 did record the highest sunspot activity for recorded times going back almost 300 years but the smoothed curve follows the classic average pattern, having a minimum to maximum period of 4.5 years and the downhill slide from Maximum-to-minimum period of 7 years. The low point of the current sunspot cycle should fall around the last quarter of 1975.

Anyhow, W8ZOK is down in the Florida Territory looking for some groupers in the Clear-water area and W6RQ, Al Lotze, steps up to toss a few thoughts around on sunspots.



Al gets very lucid and says:

1. A high frequency signal that goes more than a few miles gets there by being bounced or bent back to earth by one of the layers of the ionosphere
2. These ionosphere layers are 50-200 miles above the earth and are pretty much free electrons. When a lot of free electrons get close together, they are in a layer said to be densely ionized.
3. The more dense the ionization, the higher the radio frequency that can be bounced off the ionosphere layer...the layer works like a piece of screenwire. Depending on the size of the mesh, the longer wavelengths bounce off, the shorter ones go right through and never come back. Wavelengths as short as

(more....that away--)



## SUNSPOT LOUIE..

50mhz are infrequently reflected by the ionosphere, 145 meters just always bore right on through.

4. The density and height of the ionosphere layers is determined by the amount of ultra-violet radiation from the sun.
5. The highest frequency that will be reflected by the ionosphere varies for all practical purposes directly with the current sunspot activity.

Connection between sunspots and radio propagation was discovered in the early 1930s by Dr. Edison Pettit at the Mt. Wilson observatory. They proved a direct relationship between the smoothed sunspot numbers and the intensity of ultraviolet energy radiated by the sun. Dr. Pettit's studies were made in Cycle 16, he finding a steady increase in ultraviolet radiation from 1924 to 1928 and after the peak in 1928, he noted a paralleling decrease in the ultraviolet radiation and the sunspot number.

In August of this year the Zurich observatory reported sunspot of zero for six successive days, from August 12th to the 17th. After this dismal condition, on September 4th the sunspots counted on that day were over 200. Radio conditions at this time seem to follow more the monthly average or smoothed count.

HOPE SPRINGS ETERNAL DEPT: Recently some newspapers carried an article datelined Rangoon in which Bernard Weinraub, a correspondent for the N.Y. Times, reported that the Burmese Government, faced with a crumbling economy, was ending a ten year policy of isolation.

It was noted that Burma had eased its aloof attitude towards its neighbors in South-East Asia and was even opening the door slightly to the Western world.

For the first time in years the World Bank and the Asian Development Bank have been welcomed, and the assistance they offer will be used to rehabilitate the Burmese railway and water transport system.

The government has also invited bids from 50 foreign countries to explore for oil. In recent years there have been breakdowns in distribution of essentials in food and there has been a 50% rise in prices.

What does all this high level talk portend? Well, maybe one of these days someone will show up and put Burma on the air for the deserving DXers who have waited all these years.

And IRAQ, TOO!! Well, last month, anyhow. In September the Iraq government signed a \$117 million contract for construction of oil exporting facilities on the Persian Gulf.

This award of a contract to a U.S. firm for offshore terminals is noteworthy because Iraq has not had diplomatic relations with the U.S. since the last dispute in June 1967. At the time of the writing in September Iraq was embarking on a major expansion program to increase their oil export from two to five million barrels a day within the next five years.

Iraq is also asking for bids for a \$400 million pipeline to the Mediterranean port of Doryol.

Keep hoping.....Everything will come to him who waits.....Eventually!!

SWEDEN/40mtrs SM6DHU, often noted in the 40/80 columns, will be around 7093kc daily from about 0500Z and listening in the 7229 territory until about 0630Z.

Matt says he will be on SSB and will be looking for W/K 40mtr contacts.

W6GSV A couple of weeks back there was information in the bulletin pointing out the belief that W6GSV had become a silent key back in April. This week there was some definite confirmation out of Los Angeles when the County Clerk there supplied the name of the lawyer handling the estate.



30 Oct 73

REPORTS FROM RED EYED LOUIE

The pang of all the Contests gone, and DX yet to be...

CN8EF	14076/2055/Oct 21w	TJ1EZ	21030/1314/Oct 22e	ZE8JJ	14029/2020/Oct 22e
CR4BS	14080/0910/Oct 22e	TU2ED	14027/2100/Oct 23e	3B8CJ	14022/1825/Oct 16e
CR7IZ	14067/1815/Oct 20m	TU2DW	21039/2000/Oct 22e	3B8DX	21039/1440/Oct 23m
EA8GA	21037/1935/Oct 24e	TU2EB	21051/2200/Oct 22e	6W8EX	14065/0925/Oct 22e
FR7AI	21027/1415/Oct 23m	ZD8Z	21027/1340/Oct 23m	7Q7NB	21039/1440/Oct 23e

ASIA...CW

JT1KAA	14041/0150/Oct 18e	VS6AW	14027/2320/Oct 18e	XW8BP	14007/1400/Oct 20m
OD5LX	14041/1740/Oct 14w	VU2DX	14025/1430/Oct 19e		

EUROPE...CW

DF1SV	21067/1220/Oct 23e	LG5LG	14033/2050/Oct 18w	SK5AA	14010/1645/Oct 24w
GC2FZC	21035/1435/Oct 23m	LZ1KDP	14027/1815/Oct 20e	SP4ACG	14061/1520/Oct 23w
GM3CTS	14035/1710/Oct 19w	OE1PNW	14034/1800/Oct 16w	SP8CUU	14032/1520/Oct 15w
HA1ØØKFU	14042/1400/Oct 17e	OK5VSZ	21063/1645/Oct 18m	SV1GA	14041/1740/Oct 14w
HA1KVK	14034/1815/Oct 16w	OH2NQ	14050/1510/Oct 22w	SV1IL	21040/1220/Oct 23e
HA5DA	14055/1400/Oct 17e	OH6MM	14035/2010/Oct 19w	UB5NU	14032/1530/Oct 23w
HA7PQ	14030/1845/Oct 18w	ON4PS	14035/2030/Oct 19w	YU2CEJ	14026/1830/Oct 17w
DL1/HEØ	14026/1150/Oct 20e	ON5AX	14034/1710/Oct 16w	YU1BKL	14040/1810/Oct 17w
HBØNL	14027/1935/Oct 17e	ON8HF	21020/1820/Oct 24w		
HAØKLE	14034/1805/Oct 16w	PAØWVK	14054/1615/Oct 16w		

ASIA...CW

A35FX	14064/0530/Oct 23m	FY7AI	14039/2315/Oct 18e	VK7RY	14029/0630/Oct 18m
AX3AXX	14028/0615/Oct 23m	HC2SB	21051/1815/Oct 20m	VF8JE	14023/2210/Oct 22e
CE1DR	14055/0110/Oct 21w	OX3MP	14031/1820/Oct 18w	XQ2AD	14053/0130/Oct 21w
FM7WU	14049/2245/Oct 17e	TG9EP	14046/0115/Oct 21w	ZL1NW	14020/0630/Oct 18m
FO8DR	14016/0700/Oct 23m	VK3ADY	14035/0620/Oct 18m	ZL1AFZ	14048/0645/Oct 23m
FK8BV	14021/0900/Oct 23e	VK7CW	14013/0540/Oct 23m	4K1A	14028/0615/Oct 23m

AFRICA...SSB

A2CAY	21354/1600/Oct 20e	EL2DG	28545/1610/Oct 21e	3D6AM	21326/1640/Oct 22e
A2CCY	21261/1820/Oct 20e	EL5D	14208/2240/Oct 13m	3B6CF	21260/1630/Oct 23e
A2CEW	21290/1715/Oct 24e	EL8C	14226/2330/Oct 20e	5Z4NH	21354/1830/Oct 22e
CN8HD	21355/1915/Oct 20m	ET3JH	14320/1235/Oct 21m	5H3AP	21355/1850/Oct 22e
CN8BO	28530/1550/Oct 21e	ET3USC	21352/1610/Oct 19e	5N2AAE	21304/1710/Oct 20m
CR3RM	14194/2205/Oct 21w	TR8AF	21293/1635/Oct 24e	5U7AZ	21314/1930/Oct 17e
CR4BS	21294/1615/Oct 22e	TR8SS	21325/2015/Oct 15w	5U7BA	21297/1955/Oct 18e
CR4BS	28545/1705/Oct 20m	TU2DR	14206/2330/Oct 16e	5U7DA	21324/1945/Oct 22e
CR5AJ	21310/1900/Oct 24e	TU2EF	21355/2050/Oct 21m	5V7GE	14228/2330/Oct 14e
CR6UE	21299/1650/Oct 22e	VQ9DC	14234/125/Oct 18e	5Y4XNS	21353/1600/Oct 21e
CR6CA	14224/2315/Oct 10m	VQ9MC	21310/1745/Oct 24e	6W8DG	14233/0145/Oct 20w
CR7AF	14219/2040/Oct 20e	VQ9HCS	21310/1745/Oct 24e	6W8DY	21354/1805/Oct 20e
CR7RM	21355/1815/Oct 19e	W9/VQ9	28580/1625/Oct 21e	7X2BK	14217/1200/Oct 13e
CR7GJ	14206/1345/Oct 17e	XX6FL	14212/2135/Oct 20e	9G1AR	14210/1050/Oct 22e
EA8BD	21261/1910/Oct 21e	ZD3M	14206/2220/Oct 16e	9G1GG	21351/1615/Oct 21e
EA8IH	14292/1140/Oct 17e	ZD3M	28555/1630/Oct 21e	9J2FD	28556/1700/Oct 20m
EA8IS	21295/1700/Oct 20m	ZD7JD	14214/1835/Oct 24e	9J2WR	21334/1900/Oct 24e
EA8ID	14248/1125/Oct 23e	ZD8AB	21355/1800/Oct 17e	9X5VA	21310/1745/Oct 20e
EA8JJ	21354/1835/Oct 22e	ZE7JV	21355/1800/Oct 19e	9U5CR	21355/1745/Oct 13kv
EL7F	21297/1845/Oct 18e	ZS1RK	14209/1345/Oct 13m	XT2AA	14214/2240/Oct 19e

(e = eastern states m = middle states w = western reaches kv = virgin islands, etc)  
 (all times in gmt # = long path ??? = Slim on Cray Island again!! Son of a Gun!!! )



ASIA...SSB

A4XFD	21316/1440/Oct 17e	JY9BB	14202/2035/Oct 20e	XV5AC	14341/1410/Oct 17e
HM1BK	14207/0000/Oct 18e	MP4BIN	21280/1450/Oct 17e	ZC4ASG	21265/1535/Oct 21e
HS4AGN	14321/1245/Oct 20m	VU2MX	14205/1405/Oct 21m		

EUROPE...SSB

CT2CNE	21354/1805/Oct 20e	GB2ANT	14211/1440/Oct 21m	M1D	21278/1450/Oct 23e
CT2BG	21355/1905/Oct 21e	GC2EML	14204/1950/Oct 24e	SV1BK	14222/2010/Oct 18kv
DF2GX	14233/1110/Oct 23e	GD2HCX	21336/1920/Oct 24e	SVØMMM	21318/1530/Oct 13e
EA3JE	14212/1915/Oct 18e	HBØAIC	14209/1230/Oct 18e	UF6GAF	21350/1330/Oct 19m
EA6BG	21296/1330/Oct 22e	GD5GZ	21313/1640/Oct 24e	Y02FP	14201/1810/Oct 20w
EA6BW	21288/1330/Oct 22e	ISØRUA	14232/1220/Oct 17e	YU4XZ	21318/1335/Oct 22e
EA6BJ	21346/1705/Oct 24e	LZ2KUQ	14240/1145/Oct 22e	3A2CP	14320/1135/Oct 20e
EA6JJ	21355/1910/Oct 21e	OE1ZGA	21296/2145/Oct 22e	9H3BSJ	21360/1550/Oct 20e
FC2CI	21326/1650/Oct 23e	OE9JKI	21282/1910/Oct 18e		

ELSEWHERE...SSB

FG7TD	14220/2100/Oct 29e	PJ2CA	21316/1610/Oct 21e	WI9BSA	14299/1715/Oct 20m
FM7AA	14235/1220/Oct 19e	PJ2RR	21265/1640/Oct 22e	YJ8BL	14204/1315/Oct 22e
FG7XT	28675/1935/Oct 24w	PJ9BB	21350/1340/Oct 22e	ZK1CU	14265/0430/Oct 19w
FP8DH	21305/1550/Oct 24e	PZ1DR	21273/1940/Oct 21e	ZP5RR	14262/0050/Oct 19kv
HC8GI	21272/1630/Oct 21w	TG9VS	21300/2330/Oct 23w	ZP5KO	21301/2150/Oct 22e
HKØBKK	14203/2020/Oct 19e	TI2WX	28590/0000/Oct 15w	YS1FEA	21224/1500/Oct 20e
HKØBKK	21355/1900/Oct 24e	VK6US	14216/1425/Oct 21w	VR6TC	21355/2245/Oct 17w
K6/HKØ	14203/1220/Oct 20m	VK9ZC	14203/1400/Oct 20e	5W1AN	14215/0405/Oct 21w
W6/KB6	14245/0535/Oct 22w	VP2GBL	21292/1930/Oct 11e	6Y5ED	14202/2055/Oct 17w
KC4USP	21279/1840/Oct 17e	VP2KF	14202/1155/Oct 19e	8R1Q	14202/2225/Oct 15w
KM6DF	21373/2215/Oct 13e	VP2MQV	21267/1550/Oct 22e	8R1X	14215/2215/Oct 22e
KS6EQ	14268/1015/Oct 22e	VP5LD	21353/1645/Oct 22e		
LU1EMT	14211/2340/Oct 17e	VP8HA	14215/0200/Oct 19e		

FORTY/EIGHTY DESK

AX2BQQ	7001/1420/Oct 23w	HI7OMR	7010/0215/Oct 20w	UK4LAD	7013/1330/Oct 23w
CR7IZ	7008/0355/Oct 18e	KX6LA	7009/1450/Oct 13w	UT5AA	7006/1500/Oct 21w
CT2JAM	7016/0210/Oct 20e	KZ5JM	7163/0420/Oct 23w	VK7GK	7023/1145/Oct 16e
EL2DO	7026/0405/Oct 17w	PJ2VD	7028/0230/Oct 20w	VP2MDX	7007/0000/Oct 24e
FG7XJ	7009/0230/Oct 23e	TI2MV	7033/1140/Oct 16e	VP2ST	7005/0145/Oct 21e
FG7TG	7008/1005/Oct 20e	TU2EF	7008/0020/Oct 20e	VP2MAH	7023/0150/Oct 21e
FO8BV	7014/0430/Oct 24e	UB5UAR	7000/1500/Oct 19w	XV5AC	7078/1440/Oct 21w
GW3MPB	7006/0720/Oct 21e	UA1ZAN	7009/1500/Oct 23w	ZS5LB	7027/0430/Oct 17w
HBØNL	7001/0400/Oct 17e	UB5MOS	7003/0430/Oct 15w	8P6BU	7032/1120/Oct 18e

CT2AK	3779/0420/Oct 17e	I6BQI	3502/0110/Oct 15kv	XW8FB	3784/1345/Oct 17w
DU1EJ	3794/1400/Oct 21w	KG6SW	3807/1330/Oct 20w	YU3EU	3501/0240/Oct 22e
DK4UM	3527/0025/Oct 14kv	LZ1GU	3502/0000/Oct 14kv	ZD3Z	3797/0540/Oct 24w
F6CNI	3503/0650/Oct 21e	UAØFGM	3618/1340/Weekends	ZL1BGH	3796/1045/Oct 17e
GI3WFA	3798/0130/Oct 14kv	UK2GKW	3510/0040/Oct 14kv	ZL2BT	3797/0730/Oct 14e
GI3OQR	3781/0710/Oct 14e	VP2ST	3512/0230/Oct 21e	ZS5LB	3795/0330/Oct 22e
G3GQS	3503/0700/Oct 21e	XV5AC	3784/1330/Oct 21e	8P6AA	3511/0300/Oct 21e
HS4AGN	3784/1410/Oct 21w	YU3AVW	3503/0110/Oct 15kv		

LU/160mtrs LU5HFI now has his 1kw 160meter rig on hand and is working to get the big signal on the air.

OLYMPIA DIPLOM The DARC Olympia Diplom 72 is still available to those amateurs for working 50 or more stations that were in the 72 Olympics at Munich. PCR with 6 IRCs to Box 262, 895 Kaufbeuren, West Germany, this for contacts made in 1972. Seeing that we worked ourselves into a corner, we will list the countries bit further on....



## CALENDAR

CAMBODIA XU1AA about mid-week by W6-Group and friends.  
LORD HOWE VK4AK/Lord Howe due this Friday....  
PHOENIX ISLANDS VR1PC from this Thursday...  
LAOS The W6-group should be moving onto Bangkok this week-end  
SEANET Annual Convention...November 9/11th at the Marco Polo in Singapore.  
ARKANSAS DX MEET December 8th...at the Hilton in Ft. Smith. K5QHS/CEP will be there.  
RSGB 7mc Test Phone....November 3/4th....  
OK DX TEST CW/Phone....November 10/11th.  
CQ WW TEST CW go-round.. November 24/25th. Rest and prepare!

## OLYMPIA DIPLOM/EUROPA DIPLOM

Back a few pages we came to the end of the sheet before we could give all the information on the Olympia Diplom offered by DX-MB. We managed to get a few things right and a few wrong and some copies of the bulletin indicate that the contacts were to be made in 1872. If anyone has something like that, we'd like to hear about it. We were just starting about then.

Anyhow, for the Olympia Diplom you need contacts in 1972 and the fifty can be one each of these: AP-BY-CE-CN8-CP-CO-CT-CX-DL/DJ/DK-DM=DU-EA-EI-EL-EP-ET-FY-G-HA-HB-HBØ-HC-HH=HI=HK=HL-HP-HR-HS-HZ-I-JA-JT-JY-KP4-LA-LU-LX-LZ-OA-OE-OD-OH-OK-ON-OZ-PA-PJ-PY-PZ=SM-SP-ST-SU-SV-TA-TF-TG-TI-TJ-TL-TN-TR-TT-TY-TZ-UA-VE-VK=VP1-VP7-VP9-VS6-VU-W=XE-XU=XZ-YA-YI=YK=YN=YO=YS-YU-YV-ZA-ZP-3A-3V-3W-4S-4X-5A-5H-5R-5U-5V-5X-5Z-6W-6Y-7X-8P-9A-9G-9H-9J-9L-9M-9N-9Q-9V-9Y. Send GCR with 6IRCs or 1 U.S. dollar

The EUROPA DIPLOM needs submission of QSLs, also to DARC Europa Diplom, Box 262, 895 Kaufbeuren, West Germany. Points are given for working countries and you need 100 points....each year the value of your QSO gets a bit less and by the sixth year they receive no credit. 8 IRCs and you will be listed in the Europa Diplom Honor Roll in DARCS "CQ - DL".

The European Country list comprises: C31-CT1-CT2-DL,DM-EA-EA6-EA8=EI=F-FC-G-GC Guern-GC Pers-GD-GI=GM-GM Shet-GW-HA-HB9=HBØ-HV-I-IS-IT-JW Bear-JW-JX=LA-LX-LZ-M1-OE-OH-OHØ-OJØ-OK-ON-OY-OZ-PA-SM-SP-SV-SV Crete-SV Rhod's-TA1-TF- UA 1/2/4/6 UA2-UB5-UC-UO5-UN1-UP2-UQ2-UA Franz Josef-YO-YU-ZA-3A-4U1-9H1.

KURE QSLs A year ago there was a KH6EDY/Kure operations and many have thirsted for a QSL for that operation. During the contest last week-end KH6BZF passed along the information that all the QSLs that were able to be matched with the log have been answered and are either in the mails or on the way to the torturous routes through the bureaus. However, there were possibly up to thirty pages of the logs for this operation missing and where a card could not be matched with a lot entry, the QSLs were returned as not being in the log. QSLs for K5LTH and KH6HDB from the current activity on Kure go to WA3HUP.

MADISON ELECTRONIC SUPPLY 1508 McKinney Ave., Houston, Texas 77002 (713) 224 2668  
Nights/Weekends (713) 497 5683

## USED GEAR

COLLINS 75A4 (clean) \$345.00 75S1 \$295.00 312B4 \$200.00 75A2 \$150.00  
DRAKE R4B rcvr \$350.00 T4XB Transmitter \$375.00  
KENWOOD R599 Receiver \$300.00 T599 xmtr \$350.00 Write for New-Demo Prices...  
HEATH SB300/filters \$250.00 RME 4350 \$125.00 HALLICRAFTERS HT-37 \$150.00  
New SWAN Demo SS-100 \$699.00 less 15%....A.C. \$89.00 less 15%

All Items Guaranteed..... Shipped FOB Houston Write.....Tell Us Your Needs

Max W5GJ

Don K5AAD

Mary W5MBB

Dave WA5ZNY



