

# WEST COAST DX Bulletin

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March 12, 1974 11-74

Mt. ATHOS Full details are not available as yet but Martin, OH2BH, plans a full scale Mt. Athos effort next month. Preliminary exploration of the possibilities were covered when Martin traveled to Greece some weeks back. More on this should be surfacing shortly.

BAJA NUEVO/SERRA BANK SM2AGD was due to open from Baja Nuevo this past weekend and then will be planning a stay at Serrana Bank starting around this Thursday, Mar. 14th and running until Sunday, March 17th. All these dates are subject to some changes due to conditions but those were the scheduled dates. Frequencies will be:

SSB	3795kc	7095kc	14195kc	21295kc	28595kc
CW	25kc inside the low end of each band....plus or minus.				

QSL manager for this effort will be SM3CXS. QSL with sae/IRCs or sase. Eric says that the two efforts will cost will in excess of a thousand dollars, much of this for transportation, and anyone who may wish to help will be welcomed.

PALMYRA/KINGMAN No new developments on this one though planning still going ahead. For those who have been scanning their atlas for some information, W3CDL passes along some background .....

Kingman Reef in the Central Pacific is at the north end of the Line Islands. 6°N and 162°W, 920 miles south of Honolulu. Triangular in shape, 9 miles by 5 miles, enclosing a deep lagoon.

Discovered in 1798 and annexed by the United States in 1922. Between 1934 and 1938 used as an experimental aviation station.

Our fading memory also seems to recall that there was a naval air station there during WW II.

GRAND CAYMAN The West Palm Beach group which had been aiming for Grand Turks/Caicos could not get any housing reservations for the coming weekend of ARRL CW action and have scratched their plans for Caicos/VP5. Instead they will activate ZF1AL from Grand Cayman with WA4SVH leading the charge and WB4TAF, K4VC, K4LDR and W4BRB all jumping in to help. All available bands will be worked including 160m. QSLs for this ZF1AL effort will go to WA4SVH....sase, etc.

SIKKIM Clyde, W6KNH, says that he and Venkat are still waiting developments there in the south slopes of the Himalayas and all they can do at present is to be patient. Should things prove favorable within the next couple of months, Clyde is ready to fly to New Delhi to join again with Venkat. Clyde says that there has been little encouraging word of late and any possible A55 activity must await the coronation. Both W6KNH and VU2KV are anxious to go and are daily checking the conditions hoping for some favorable developments. Clyde, W6KNH, advises that he was sold out of IRCs within four days after he made the announcement of the availability and reluctantly has had to return orders. He asks that no more be sent him until he announces a new supply.



SUNSPOT LOUIE No new sunspot activity has been noted since the last report. The last spots of any significance disappeared about Feb 24th and no new ones have shown since then.

It has been possible to make observations most days and there just is not enough sunspot action to hope for improved band conditions. The lower frequencies generally are the most reliable but there are still some brief openings on twenty and fifteen. Once in awhile ten will show something and generally on a north-south path. Early mornings are producing some openings, 7mc showing good action a couple of hours before dawn. At this point, don't give up hope. Keep checking the bands and once in awhile you will find something to keep hoping over...

There are some days when the band seems to give up the struggle. Around Feb 23rd twenty just laid down. The openings are getting shorter but they are there. The sunspot count for December was a mean of 24.2 sunspots. The high of 68 sunspots was on December 26th. During the ARRL 160mtr test early in December, the sunspot count was 7 on December 8th and 8 sunspots on December 9th. For the 10mtr test in mid-December the count was 17 sunspots on December 15th and 26 sunspots on December 16th. There were no sunspots in the period of December 4th to 7th and in the period from December 29th to 31st.

The predicted SSN for March is 24, for April 23 and for May 22 average number of spots. The predictions do indicate the slow decline as the cycle heads for the bottom. But keep hoping, Sunspots will rise again!! Positively!!

SILENT KEYS Ray Thomas, W7III and ex-W6BHH, passed away last week in Reno Nevada. A long time member of the Northern California DX Club, Ray had been troubled with a heart condition in recent years.

W7IIZ, Marvin Wines, who turned out a multitude of QSL cards through his printing service became a Silent Key in February. His son has announced that the QSL printing business will be discontinued with the death of W7IIZ.

CONTEST SCORES WA9UCE/6 passes along some contest totals that Jim gleaned from on the air contacts. These are for the ARRL Phone excitement..

W3AU	4,410,000	multi/multi	WB5DTX	1,825,000	multi/multi
K2PV	3,760,000	multi/multi	W6PAA	1,580,000	multi/multi
K6SEN	3,400,000	multi/multi	W6ONV	1,534,000	multi/multi
W6MAR	1,980,000	multi/multi			
WA6IQM	879,000	multi/single	W3GM	2,000,000+	(multi/multi)
K6AHV	1,570,422	single/single			(we think )

SUDAN ST2SA has been heard on the air in recent weeks and this would indicate that he has had his license restored. Letters to some West Coast amateurs last month had indicated that this was expected. Sid says to watch for him in the Western Reaches via the longpath and around 14002kc when the bands open.

It is possible that ST2SA will go to London later this year for some graduate work and eventually he will be the resident in ophthalmology in the hospital at Khartoum.

QSL MANAGERS DIRECTORY 1974 Edition plus three quarterly supplements. \$5.95 postpaid. The short route to QSLs. The revived QSL Managers Directory should be ready to go by the end of March...

DX Publications 7632 Woodland Lane Fair Oaks, Calif. 95628

QSL CARDS...SPECIAL 1000 QSL Cards postpaid to you for \$9.00. You supply your own format or use one of our special set-ups.

John Schroeder W7JJ 12719 East Park Street Moritos, Calif. 90701



ARRL DX ADVISORY COMMITTEE Prior to the ARRL Board Meetings there are committee reports prepared for submission to the full Board of Directors. We have gotten a copy of the report made on the activities of the DXAC Committee and it is reproduced below...not all the verbiage is included from the report but those areas which are listed under actions taken, not taken or under study are direct quotations from the DXAC report.

This report was made in December 1973 and in preparation for the January meeting of the ARRL Board of Directors. If there are any items which may start you to percolate, remember that this report was prior to the Board Meeting and check on any developments since then. The following is a direct extract from the report.

Items Passed by the DXAC and Current Status

1. Pins to be issued (expenses paid by applicant) to indicate current country total. Due to previous denial by Board on similar proposal, this item must be presented to the Board for approval.
2. A plaque to be issued (expenses paid by the applicant) to those with all current countries confirmed. This item is being held in abeyance pending action by the Board on the above item.
3. Delete Tibet (AC4) from the country list. This item is only now being presented to the HQ Awards Committee for action.
4. Accept all contacts made during the recent Mellish Reef DXpedition under the calls VK9JW and VK4FJ/Mellish. This item was given to the DXAC for study and our conclusion is only now being offered to the HQ Awards Committee.

Items Discussed and Defeated by the DXAC

1. HQ to issue a C.W. only DXCC.
2. HQ to issue activity endorsements (SSTV, RTTY, Mobile, etc) to affix to the basic DXCC certificate when an applicant confirms at least 100 countries on that particular mode/activity.
3. A relaxation of Rule 9 (the mileage someone can move and maintain his DXCC total) was defeated.
4. Countries which are not active during a ten year period would become temporarily deleted until they become active again. This would affect Honor Roll positions.

Items Requiring Further DXAC Study

1. A 160mtr operating award was approved by the DXAC in 1972. However, the details were never worked out. HQ has responded somewhat negatively on this point. A subcommittee will be selected during early 1974 to come up with a workable award which will be proposed to HQ.
2. A review of the country list based on current criteria. This would result in a large number (twenty to forty countries) of deletions which would not be replaced by additions. A new criteria is needed which would keep the number of countries relatively constant while providing for the acceptance of all countries under this criteria. This item will also have a subcommittee during 1974.
3. The elimination of Phone DXAC continues to get considerable DXAC attention. A DXAC vote in November 1973 indicated that a majority still favors this move. A letter is being prepared which states our position. It will be sent to all those who wrote the DXAC indicating their opposition. Further

(More...next page)



12 March 1974

ARRL DXAC...(cont'd)

comments will be solicited. A final DXAC position will be offered to the Board for its July 1974 meeting.

/s/ Ted M. Marks WA2FQG  
Chairman DXAC

If you have any feelings on this report, you can write to the ARRL DX Advisory Committee in Newington. ARRL Hqtrs will forward copies of your letter to all members of the committee.

If you are curious on what happened when this report was submitted to the ARRL Board of Directors, you might check Page 87 of the March QST. There will be noted that W1QV, Robert Chapman, as Liaison to the DXAC presented a report. A check of the minutes will show some action in Minute 12,...and a quick scan of the balance of the minutes did not reveal anything though it is possible that something may be buried somewhere.

Incidentally, Minute 12 concerned issuing pins for those reaching the 200 and 300 mark in DXCC. The motion was defeated, 6 votes in favor, 8 opposed.

SHORTLY NOTED Last week we did get the abbreviated edition into the mails. It was not the time when we were filled with bounce and ambition. But things straightened out by the first of the week. What hurt most was that we had done all the preparatory work on Red Eyed Louie...about six hours of work...and then could not get the energy to finish things. This week we are trying harder...

K6SE/2 is thinking of another Caribbean effort in October or thereabouts this year. John QSLs everything whether you send one or not. He made WAS from FG0AFA and only missed on Alaska when he was at PJ8.

A TI9NA was reported a week or so back. This would seem to be Cocos Slim....though there is an effort aimed for the coming WPX weekend at the end of the month. Also, that JX7AX who said he was on Franz Josef would seem to be Arctic Slim. Most of the LA stations seem to doubt this one. While in the far Pacific BV1PCZ showed on Feb 20th...14030/0000Z. Said his name was Wei...19 years old and living near Taipei. CW seems to be the favorite of Slim and his cousins....

A8A-A8Z has been assigned to Liberia. There has been some concern expressed that too much advanced publicity might upset plans...and delicate negotiating...for some rare DXpeditions. Poses a problem.....some look real good but may only appear in the coming months in oblique references. Hold the sheet sideways to read....

DK2SC, JA1WSA and OH1VR were guests at the March meeting of the Northern California DX Club. And over in the Great Interior Valley, a Sacramento group is forming a local DX Club....and will meet to discuss things at W6KYA, John Minke's QTH, on March 21st...6230 Rio Bonito, Carmichael. Incidentally, this is immediately adjacent to the land where a much argued Governor's Mansion is going to be built. How would you like the state governor looking over the fence at your tower and beams....and you employed by the state!!

VK0DM was on from McQuarie last week...14275kc...0800Z. 3B6CF has signed up for another year on Agalega. Jackie has had problems with the relay in the FTDX400 Fusing. You might look for him on the SEANET...14320/1200Z.

Over in the SP-DX Club...SP9PT is the Foreign Secretary and Awards Manager for this Polish DX Group. Information on the SP-DX Award can be obtained from SP9PT whose address is: Wojciech Klosok, SP9PT, Slawikow 9b/52, 44-200 Rybnik, Poland. The Annual SP-DX Contest will be the first week-end of April....CW only and you only work the SP stations. If you like Awards, there are a number which will be assisted by this upcoming SP-DX Test..



REPORTS FROM RED EYED LOUIE

Tempt me no more; for I have known the DXers hour....

AFRICA...CW

CR6AL	14025/2150/Feb	26e	VQ9R	14021/1700/Feb	23e	3B8DG	14032/1810/Feb	21m
FR7AX	14012/1750/Feb	22m	ZE8JJ	14040/1920/Feb	26e	5Z4JX	14045/1930/Feb	26e
EA9EU	14037/2010/Mar	1m	TZ2A	14004/1905/Feb	26m	9J2BL	14027/2155/Mar	1e

ASIA...CW

BV1PCZ	14030/0000/Feb	20e?	JD1YAH	14047/0015/Feb	24hs	VU2GW	14013/1425/Feb	24m
HS3AJJ	14020/1340/Mar	2e	JH1BNC	14029/2315/Mar	4m	VU2LB	14071/1425/Feb	20m
HS4AGN	14004/1650/Feb	23e	UI8FAS	14004/1405/Feb	24m	XW8ET	14015/1325/Feb	20m
JA8JO	14035/0010/Mar	1m	UL7GAA	14020/1410/Mar	2e			

EUROPE...CW

CT2BM	14016/1950/Feb	26m	HV3SJ	14065/1130/Feb	26e	UG6EA	14040/1500/Feb	25hs
DM5YSO	14036/1955/Mar	2e	IS6SNL	14050/1755/Feb	27e	UG6AD	21025/1310/Feb	25hs
EI5C	14045/1750/Feb	27e	IS6FPH	21025/1350/Feb	25hs	UQ2HO	14035/1500/Feb	25hs
FC9VN	14107/2130/Feb	20m	OY1R	14043/1340/Mar	3m	YK3AAO	14041/1535/Feb	27w
GM3CSM	14046/1855/Feb	26e	UB5FAO	14023/1310/Feb	23e	YO7DO	14018/1640/Mar	3e

ELSEWHERE...CW

FG7AH	14035/1135/Feb	27e	KG4FX	14020/2340/Feb	20m	VP2MV	14055/0010/Feb	21m
FM7WH	14009/1820/Mar	3e	PJ2NR	14028/1945/Feb	25e	VP9CB	14045/2200/Feb	26e
FY7AM	14010/1525/Mar	1w	PJ7VL	21027/1900/Mar	3e	8P6AE	14027/2320/Mar	1m
HR1KS	14038/1710/Mar	3m	OX3MP	14047/1825/Feb	26e	8P6BU	14027/2040/Mar	1e

AFRICA...SSB

A2CCY	14210/2020/Feb	27e	CR7GJ	14215/2030/Feb	25e	VQ9M	14212/2010/Feb	25e
CN8BD	14212/1830/Feb	27e	CT3AB	14222/2145/Feb	26e	VQ9R	14208/2130/Mar	1e
CN8BO	14214/1930/Mar	4e	EL1G	14240/1835/Feb	27e	XT2AA	14265/2100/Mar	1e
CR3AH	14215/2200/Feb	25m	ET3USE	14203/1850/Feb	27e	XT2AL	14259/2220/Mar	3m
CR2WB	14219/0100/Feb	23w	ST2SA	14320/1400/Feb	26hs	ZD7FT	21327/2225/Feb	25m
CR4BS	14211/2120/Feb	28e	TR8MC	21342/1915/Mar	1e	ZD7SD	14204/2320/Feb	19m
CR5SP	21321/1710/Mar	2e	TR8DG	14203/2140/Feb	24m	5V4AH	14213/2130/Mar	1e
CR6AM	14214/2205/Feb	28e	TR8SS	14223/2045/Feb	20m	7P8AY	21410/1630/Mar	5e
CR6JO	14205/2210/Feb	28e	VQ9BP	21320/1910/Mar	1e	9G1AR	14215/1910/Feb	24m
CR6OR	21355/1920/Mar	1e	VQ9MC	14239/1920/Feb	24m	9G1DU	14271/2155/Feb	26e
CR6HU	14220/2300/Mar	1m	TU2EF	14201/2335/Feb	19w	9J2FC	14211/2150/Feb	24m
						9L1JM	14237/2150/Feb	24m

ASIA...SSB

A7XA	14215/1140/Feb	23e	JF1XID	14226/1520/Mar	4e	UL7LEZ	14231/1300/Feb	20m
HS2AJQ	14207/0045/Feb	21m	OD5FD	14235/2005/Mar	1e	VS9MB	14160/1500/Feb	23hs
HZ1AB	14205/1630/Mar	3w	WK9CAE	14205/1225/Mar	4e	9M2DQ	14208/0005/Feb	26m
JD1YAH	14214/0030/Mar	1w	UK9AAN	14222/1930/Mar	5e	9M2GV	14245/1415/Feb	21m

ELSEWHERE...SSB

CX4AF	14210/2135/Feb	26e	HK0BKX	21400/1615/Mar	5e	VP2VBH	14220/2300/Feb	20w
CE3IF	21322/1955/Feb	25e	HR1RF	28607/2245/Feb	24m	VP2MAW	14215/1240/Feb	28e
FG7TD	14205/2130/Feb	26e	KG6RA	14295/1500/Feb	23hs	VP2DM	14245/1250/Mar	1e
FG7XL	21365/1800/Feb	26w	KH6HDB	21365/2330/Feb	24m	VP7BC	14207/1425/Feb	25m
FO0DK	14278/0205/Mar	3w	LU7DJ	28640/2120/Feb	24e	VR6TC	21347/2345/Feb	24w
FY7MF	14212/0120/Feb	24w	KS6EZ	14232/0550/Feb	22m	VS5LH	14190/1505/Feb	25w
FY7AQ	14221/2330/Feb	19m	P29DV	21320/2110/Feb	27w	VK9XX	14253/1415/Feb	20w
FY7AF	14212/0125/Feb	23w	P29FV	14265/0625/Mar	3w	VX2AB	14204/1430/Feb	27e
HC2YL	14269/2325/Feb	23w	P29UC	14208/2055/Feb	21w	ZF1BR	14213/1230/Feb	28e
HC1WW	14332/1705/Feb	26w	PJ8/PJ7	14232/0335/Feb	21w	5W1AB	21281/2330/Feb	21w
HI8EAG	14225/2005/Feb	26e	PY3AGM	28585/2115/Feb	24e	WW1AU	14250/0330/Feb	21w
HI8LAW	14332/1850/Feb	27w	TI8PE	21354/1930/Feb	26w	8R1CB	14208/2134/Feb	26e
HK0BKX	14204/1610/Mar	1e	VK8KK	21342/2330/Feb	26w	9M8SDA	14225/0020/Feb	26m



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MORE RED EYED LOULE.....

EUROPE...SSB

CT2AK	21321/1700/Mar	2e	UK6GKW	14223/1350/Feb	28e	VK6MK	14219/1250/Mar	1e
CM2DGO	14202/1530/Feb	27e	UK5FAB	14245/1540/Mar	1e	ZB2BL	14205/2135/Feb	25m
OECHJK	14216/1850/Feb	26e	UK1LAD	14205/1220/Mar	4e	3A2CP	14215/1335/Feb	20m
UK6APA	14223/1350/Feb	28e	UW6NQ	14209/1320/Feb	20m	9Y4BU	14221/2320/Mar	1m

FORTY/EIGHTY DESK

GR7JO	7003/0435/Mar	3m	LA5NM	7006/0315/Feb	19w	VK2ED	7002/2010/Mar	3e#
DUGED	7002/1510/Feb	20w	LU6EF	7004/0115/Feb	26w	VK3MR	7001/2055/Mar	3e#
EA7CL	7002/2250/Feb	27w	LZ1KSP	7001/1425/Feb	26w	VK5FM	7033/1200/Feb	27e
EA8BF	7002/0415/Mar	5w	LU5HFI	7011/0245/Mar	4e	VP7NP	7023/0355/Mar	4e
EL2DO	7015/2325/Mar	1m	OA2NCD	700 /0035/Feb	1e	VR1AA	7031/0710/Feb	23m
FG7AM	7006/0240/Mar	4e	PY2ASS	703 /0445/Feb	23w	XW3BP	7002/1510/Feb	21w
FP8CT	7007/2200/Feb	27m	PY7AMX	7010/2310/Feb	27w	YV4OW	7032/0510/Feb	28w
HK0BKX	7006/0145/Feb	26e	SV1CH	7002/2150/Feb	26e	YN4CBL	7038/0300/Feb	27w
HS1EE	7006/1510/Feb	19w	TG9CD	7007/0210/Mar	5w	YU4AUL	7005/2230/Feb	27m
I0ER	7016/2310/Feb	27w	UK6SA	7003/0000/Feb	28e	ZE7JJ	7006/0440/Mar	3m
JD1YAH	7009/1400/Feb	20w	UK5EAB	7027/1430/Feb	26w#	ZC4FI	7003/2255/Feb	24m
JY9GR	7004/2230/Feb	27w	UV0EN	701 /1400/Feb	21w	K9/6Y5	7023/0325/Mar	4e
KH6GB	7031/1210/Feb	28e	VK7GK	7007/1115/Feb	28m			
CF3BDE	3534/0540/Mar	1w	KV4FC	3794/0940/Feb	28w	ZF1AO	3787/0345/Mar	6w
GR3WB	3795/0600/Mar	5w	KZ5PW	3785/0730/Feb	28w	ZS6DW	3778/0400/Always	
EL7F	3806/0700/Mar	1w	OA4OS	3789/0450/Feb	27w	6Y5RS	3804/0940/Feb	28w
F3NB	3532/0630/Mar	6w	ON4UN	3796/0615/Mar	5w	6Y5ED	3778/0300/Mar	6w
HC8GI	3805/0500/Feb	22w	TI2BEV	3531/0400/Feb	25w	6W8DY	3778/0330/Mar	6w
HI8LC	3790/0430/Feb	23w	TI2WD	3785/0505/Mar	5w	7P8AD	3855/0330/Mar	3m
HI8LPN	3795/0440/Feb	23w	TG9GI	3802/0510/Feb	22m	9L1JT	3806/0700/Mar	1w
HP1AH	3803/0615/Feb	24w	VR1AA	3778/0710/Mar	5w			
KS6DH	3781/0630/Feb	28w	ZK1CW	3790/1030/Feb	23e			
KX6GS	3806/0700/Mar	1w	ZF1VW	3525/0445/Mar	1w			

4U1ITU 1829/0535/Feb 25e

[ e = eastern states m = middle states w = western reaches hs = thailand etc  
[ all times in gmt/uct # = longpath ??? = Taipei Slim..... ]

KHMER REPUBLIC A new call should be heard out of Phnom Penh soon, and XU1DX will be the newly authorized signal. This will be a club station at the American Embassy similar to the set-up at the Embassy in Saigon. Actually the call sign and the authorization has already been received but an administrative error had to be corrected. Don Riebhof probably will be heard frequently from this one and Don says that it would seem that he will be there for a long time to come...possibly a year or better.

XU1AA QSLs John Troster, W6ISQ, who operated from XU1AA during the Q Test last Fall has advised that he has forwarded his log to W1YRC. John was there with Chester Lunsford and Don Riebhoff for the test and ran up some 4600 QSOs. W6ISQ said that he had been sending out some of the XU1AA QSLs for the period in question but recently has become entangled in a esoteric snail project on the San Francisco Peninsula and decided to send everything to W1YRC.

John Van Lear, YB0AAB etc., has also decided to send all the logs he has to W1YRC in an effort to cut down some of the various routes for XU1AA QSLs. John believes that the efforts of Don Riebhoff, who has been in Phnom Penh for some months now,.... and the efforts of Vong may get some of the QSL questions cleared up. John, YB0AAB, notes that he has received logs only for a 30 day period since June of 1973. He advises those thirsting for a XU1AA QSL to go via W1YRC.



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## CALENDAR

OGASAWARA	JD1ACH active from March 30th...April 7th. JD1YAH also there across the CQ WPX Test.
BAJA NUEVO	SM2AGD there until this Tuesday.....March 12th, the onto
SERRANA BANK	SM2AGD due to open there March 14th for about three days.
BANGLADESH	OH3HM delayed in trip....should be there this week.
AFRICA	W7LFA at a number of spots this month.....
SIKKIM	Clyde and Venkat still waiting for developments....hope!!
PALMYRA/KINGMAN REEF	Couple of groups looking for activity this summer...
COCOS	Activity planned at TI9-Cocos during WPX Test...
GRAND CAYMAN	West Palm Beach to galvanize ZF1AL in ARRL DX CW go-round.
ARRL DX CW TEST	This week-end....March 16-17th.
CQ WW WPX TEST	Last weekend of March....March 30-31st.
IARE PHONE TEST	March 23-31st...
DAYONTA HAMVENTION	April 26-28th at the Dayton Hara Arena...

CONTEST DXING...JOY! JOY! Everyone wants to go on a DXpedition...what red-blooded American amateurs has not trembled at the thought of standing there with shoulders squared, the band in absolute control and rattling through the pile-ups as the whole world fights to work him at that exotic spot. One worthy went south into the Caribbean area for the ARRL CW Test...and you will note that we did not say just where. Anyhow...

A miserable power leak developed from the power lines that ran right up and down the beach in front of their operating position. In the middle of the night, desperate to do something to eliminate the noise from the power leak, our DXpeditioner waded out into the ocean where the vertical antenna had been mounted. Trying to struggle with the antenna, he fell into the sewage disposal hole, antenna and everything. Leaped out, installed the antenna in a new spot and went to take a shower. Discovered same water used for shower, drinking and everything else. Arrived back home with a virulent bacterial infection in both ear canals, a strep throat, infected sinus...and a general idea that he had felt better at one time. While he drags himself back from the depths, his friends call up to demand why he did not work them during the contest so that they could get the counters and multipliers that they had been promised.

Anyone who might consider heading out on a DXpedition might learn a bit from this. First, check the local swimming holes....

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	HALLICRAFTERS SR500/a.c \$250.00	RME 4350 rcvr \$125.00	TMC GPR \$195.00
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Need some gear for the contests? Write Madison Electronics and ask for quotes....

Max W5GJ

Don K5AAD

Mary W5MBB

Dave WA5ZNY

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