



# Newsletter

Winter 1997

Steve Thomas, N6ST, Editor

Northern California DX Foundation

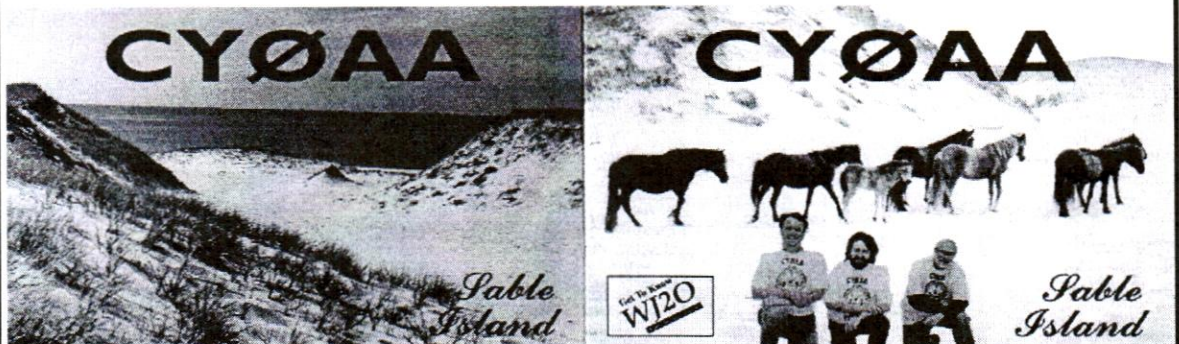
## THE SHAKLEE CHALLENGE ANSWERED

by Jack Troster, W6ISQ

Last April, Lee Shaklee, W6BH, one of the founders of the NCDXF, issued a challenge to DXers: Lee would match dollar-for-dollar any amount contributed to NCDXF by DXers up to a total of \$10,000. You answered with a crashing five and nine plus as your contributions matched Lee's in under three months! That is a wonderful achievement. We appreciate your help and participation.

That \$20,000 total is important because that is the amount which NCDXF has dedicated to the forthcoming DXpedition to Heard Island. This is the largest grant ever given by NCDXF and Lee's offer to match gifts arrived just in time. And you answered the call. So, when you work VKØIR you may thank Lee, and thank all those DXers out there who made it possible to help finance this DXpedition and, of course, thank yourselves.

### THANK YOU!



# NCDXF/IARU BEACON TRANSMISSION SCHEDULE

As of January 9, 1997

Jack Troster, W6ISQ and Bob Fabry, N6EK

This table gives the minute and second within each hour of the start of the first transmission of each of the new five-band beacons on each frequency. Transmissions currently being sent are indicated in bold. Each transmission is repeated every three minutes. A transmission consists of the callsign of the beacon sent at 22 words per minute followed by four one-second dashes. The callsign and the first dash are sent at 100 watts. The remaining dashes are sent at 10 watts, 1 watt and 0.1 watts. The actual starting time of each transmission is approximately twenty milliseconds after the nominal time due to the keying delay of the transmitter. Equipment used at each beacon site includes a Kenwood TS-50 transceiver, a Cushcraft R-5 vertical antenna, a Trimble Navigation Accutime GPS receiver, and a controller built by the NCDXF. For more information, contact the Northern California DX Foundation, Post Office Box 2368, Stanford, CA 94309 USA.

Slot	Country	Call	Frequency					Operator	Status
			14.100	18.110	21.150	24.930	28.200		
1	United Nations	4U1UN	00:00	00:10	00:20	00:30	00:40	UNRC	On the air, temporary antenna
2	Canada	VE8AT	00:10	00:20	00:30	00:40	00:50	RAC	On the air, temporary site
3	USA*	W6WX	00:20	00:30	00:40	00:50	01:00	NCDXF	On the air
4	Hawaii*	KH6WO	00:30	00:40	00:50	01:00	01:10	UHRC	On the air, temporary site
5	New Zealand	ZL6B	00:40	00:50	01:00	01:10	01:20	NZART	In New Zealand
6	Australia	VK6RBP	00:50	01:00	01:10	01:20	01:30	WIA	Shipped
7	Japan*	JA2IGY	01:00	01:10	01:20	01:30	01:40	JARL	On the air
8	Heard Island*	VKØIR	01:10	01:20	01:30	01:40	01:50	VKØIR	On the air in January 1997 only
9	China	BY...	01:20	01:30	01:40	01:50	02:00	CRSA	Locating site
10	Sri Lanka	4S7B	01:30	01:40	01:50	02:00	02:10	RSSL	In Sri Lanka
11	South Africa	ZS6DN	01:40	01:50	02:00	02:10	02:20	ZS6DN	On the air
12	Kenya	5Z4B	01:50	02:00	02:10	02:20	02:30	RSK	On the air
13	Israel	4X6TU	02:00	02:10	02:20	02:30	02:40	U Tel Aviv	On the air
14	Finland	OH2B	02:10	02:20	02:30	02:40	02:50	U Helsinki	On the air
15	Madeira	CS3B	02:20	02:30	02:40	02:50	00:00	ARRM	On the air
16	Argentina	LU4AA	02:30	02:40	02:50	00:00	00:10	RCA	On the air
17	Peru	OA4B	02:40	02:50	00:00	00:10	00:20	RCP	Ready to ship
18	Venezuela	YV5B	02:50	00:00	00:10	00:20	00:30	RCV	On the air

\*Notes: The W6WX and KH6WO beacons are not yet licensed for 18.110 and 24.930 MHz operation. The JA2IGY beacon is currently licensed only for 14.100 MHz operation. The VKØIR beacon is using the time slot which will eventually be used by a Russian beacon.

**LIBYA**

TRIPOLI • ASSAKR RADIO CLUB

# 5A1A

YAESU

Designed for World by DXer



Bob Vallio, W6RGG, accepting Award from FOC for the Northern California DX Foundation at a meeting in the United Kingdom.

# NORTHERN CALIFORNIA DX FOUNDATION

P.O. Box 2368  
Stanford, CA 94309-2368

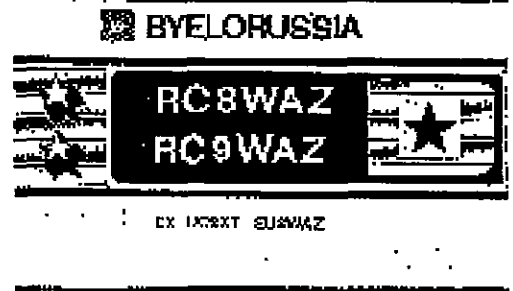
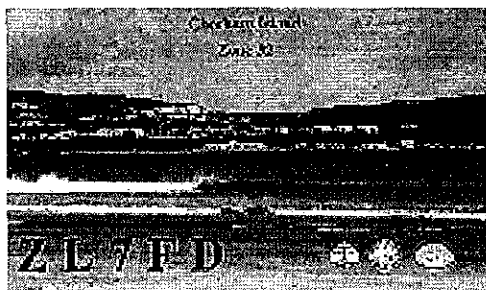
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## UPDATE ON THE HEARD ISLAND DXPEDITION

Robert W. Schmieder KK6EK

A milestone in the preparations for the 1997 Heard Island DXpedition was reached on Oct. 10, when the second of two 20-ft. containers of gear was shipped from Oakland to Reunion Island, the departure point for the expedition. The gear includes complete life support for 20 persons for the three-week stay on Heard Island, plus all the equipment for five complete radio operating on all HF bands, RTTY, and amateur satellite.

Preparations for the expedition have been in high gear for most of the past year. Following the 1995 attempt, which resulted in financial disaster for the team, the project was reorganized, and the team enlarged to 20 radio operators in order to reduce the cost per person. Additional equipment, procedures, and travel arrangements were included to ensure safety and success.

The team has been essentially intact since it was formed in January, 1996. Currently it includes: EA8AFJ, HB9AHL, KØIR, K4UEE, K9AJ, KK6EK, N6EK, N6MZ, NP4IW, OE9AMJ, ON6NT, ON6TT, PA3DUU, RA3AUU, VK2JDM, W8FMG, WØGJ, WA3YVN, and 9VIYC. During the last weekend in September, part of the team assembled in the SF Bay area for a training and checkout session, during which they erected one of the shelters, set up the galley and sleeping equipment, and operated a radio station.

The gear includes four shelters 12x24 ft. each for sleeping, eating, meeting, operating satellite radio, and storage. There are two additional shelters 8x8 ft. for two HF stations each. The radios are Yaesu FT1000MP, with ETO 81β linears. The antennas are mostly monobanders and tribanders, including WARC bands. In total, the team has shipped 56 antennas, of which some are four-square vertical arrays for 160, 80, and 40 m. The reason for so many antennas is the have spares in case the wind destroys some of them.

The team will log using a CT-network. Every day the

logs will be uploaded via AMSAT to a central site for posting on the Web. Anyone will be able to enter basic information about a QSO, and receive confirmation that the QSO is in the log. We will not send out e-QSLs or pre-emptive printed QSLs as was done on the Easter Island (XRØY/Z) expedition.

The team will assemble on Reunion Island during the last week of December. On Jan. 3, 1997, they will leave aboard the 300-ft. French vessel Marion Dufresne for a 10-day sail to Crozet and then Heard Island. If weather permits, the equipment will be put on the island by helicopter; if not, it will be landed by boat. The stations will come on the air on or before Jan. 15, 1997, using the callsign VKØIR. The NCDXF 5-band HF beacon will be set to transmit continuously during the stay.

The total budget for the expedition is \$320K. Almost 2/3 of this cost is transportation to Heard Island, which is remote from any normal shipping lanes. The balance of the budget is required for special gear and services, such as the shelters, food, fuel, and transportation of the equipment. An example of the high cost of this operation is the charge for shipping and storing the containers of gear, more than \$20K. As of this writing (mid-October 1996), about \$260K has been raised or is guaranteed, leaving about \$60K yet to be obtained.

This project has been developed with the following principles foremost: (1) safety of the participants; (2) reliability of schedule and radio operations; (3) advancement of the art and science of DXing and DXpeditioning. To that end, we have opted for a large team, reliable (albeit expensive) transportation, and considerable backup gear and plans. We believe that there is no way this expedition can fail, short of a major environmental disaster. We also believe that to make less investment would seriously compromise one of the principles listed above.

The most complete set of information about the expedition is available on the Web pages, accessible at:

<http://www.ccnnet.com/~cordell/HI>

All donations are listed on the Sponsors page, accessible from /HI/scoping/HI97\_sponsors.html. The web pages also contain answers to Frequently

Asked Questions, such as

'Why are we doing this at the bottom of the sunspot cycle?'

and 'Why does this cost so much?'

There are also drawings of the campsite, lists of equipment, plans for handling all aspects of the project, and biographies of the participants.

Donations are gratefully accepted at four locations:

Heard Island DXpedition  
 c/o Bob Allphin, K4UEE  
 4235 Blackland Dr  
 Marietta, GA 30067 USA  
 (Preferred U.S. site for donations under \$100)

Heard Island DXpedition  
 c/o Peter Casier, ON6TT  
 Oude Heerbaan 30B-9230  
 Wetteren, Belgium  
 (Preferred European site for donations under \$100)

Northern California DX Foundation  
 c/o Bruce Butler, W6OSP  
 P.O. Box 608  
 Menlo Park, CA 94026-0608  
 (Preferred site for donations over \$100)

Cordell Expeditions  
 c/o Bob Schmieder, KK6EK  
 4295 Walnut Blvd  
 Walnut Creek, CA 94596  
 (Any donations)

Donations are not at risk. The expedition team is taking all financial responsibility until the expedition is completed. Should the project fail due to other than an Act of God, the donors monies will be returned.

The Heard Island DXpedition team is committed to carrying out this operation in an exemplary manner. This project represents the most difficult and complicated DXpedition ever attempted. What we learn through this project will aid others in carrying out operations in the field safely and reliably, and will serve as a guide for those to follow. We hope you will enjoy and support this expedition and will say "I helped make it happen."



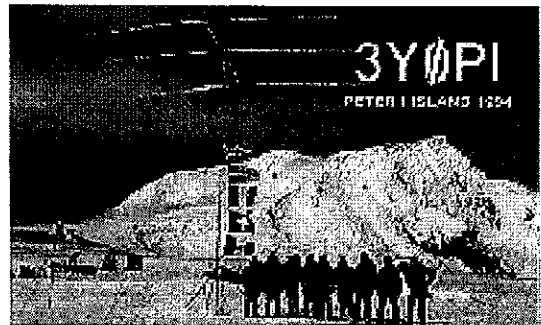
# ARRL COLVIN GRANT TO HEARD ISLAND DXPEDITION

December 5, 1996

The ARRL Colvin Award Grants Committee has authorized a grant of \$5,000 to the 1997 Heard Island DXpedition. The DXpedition team hopes to activate this rarely visited, remote location in January 1997.

The Colvin Award is conferred by the American Radio Relay League in the form of grants in support of Amateur Radio projects that promote international goodwill in the field of DX (long-distance communication). It is funded by income from an endowment established by the late Lloyd Colvin, W6KG.

The Heard Island grant is the second Colvin Award to be bestowed by the ARRL. The first was made earlier in 1996 to the organizers of the World Radiosport Team Championship.



ON6HE



BELGIUM



# YOUR MONEY

by Bruce Butler, W6OSP  
Treasurer NCDXF

Yes the NCDXF board treats each contributor as someone who has entrusted their money to us to support in one way or the other DXpeditions or DX activities by amateurs around the world. Each request is weighed in a number of ways and I will leave that to be covered by others. My job is to properly deposit all funds invest the funds in conservative investments do the State and Federal Taxes and finally to report to the board on a quarterly basis our income and out-flow along with expenses by categories and of course our dollar balances.

When you make a donation in the normal manner IE: through our regular mail drop in Stanford, Ca. It along with any other mail is picked up by board member Dave Leeson, W6NL (formerly W6QHS) or his wife Barbara K6BL (formerly KK6QM), Dave and Barbara separate out the envelopes containing donations and once a week will send those up to me in Napa. When I receive the checks, and in some cases cash, I make up a deposit slip and these go to the bank. Any Visa or Master Card donations are electronically processed from my home to the bank. I usually do this late in the evening so as to not tie up a phone line. While our bank charges us nothing for checking privileges Visa does charge us 3.75% for funds processed through them. Visa has however been a valuable assistance to us as it allows both domestic but particularly foreign amateurs to easily send us funds without the exchange rate problems we had experienced in the past. Nearly 30% of our contributions come by way of credit cards. If anyone orders a pin, rubber stamp or roll of stamps then I send the request to our new Secretary, NW6P, Tom McShane, who promptly puts it in the mail

Once the money is handled at my end then I mail off to Dick Dievendorf, K6KR, the application or in some other manner a verification of the money donated and for whom. Dick computer inputs this to properly reflect on our records the donation and updates the mailing label which indicates the last year you have contributed. In the case of a new contributor Dick will also mail the certificate and in some cases the most current

newsletter. This job was done for many years by Lou K6TMB who while still on the board is taking a much deserved vacation from this demanding activity

The board strives to spend as little as possible annually that is not directly related to DX activity. There is some G&A which is attributable to long distance fax and computer related expenses. Our largest major expense is the printing of the newsletter and the cost to mail it. The annual cost of producing and mailing our bi-annual newsletter to U. S. amateurs is approximately \$4 and of course the overseas mailings are quite a bit higher. As these newsletters can not be forwarded it is quite important that you notify the foundation of any address change

You might question why we have so many different people doing related functions? The primary reason is to spread the work load. All of us are 100% volunteers Work parties to mail the newsletter happen twice a year for three or four hours at W6DU's house. Others involve themselves in following different expeditions to make sure that we get sample QSL cards and the video or slides promised us for our library. The actual curator of the slides and videos is Ron Steiner K6KEO who catalogs them mails them and in some cases sends follow up letter's to late returnees.

Other areas of revenue generation to the foundation has been grants and bequests. Lee Shaklee's matching grant of \$10,000 this year and John Downing in the past are but two examples of monies received in this manner. Our past deceased director K6UD Stan Kaisel left a large portion of his radio equipment to the foundation which was liquidated and added to our funds. A number of contributors have indicated that their wills have bequests to the foundation to help us go forward with our efforts. All of these avenues will help the foundation to continue to provide funding assistance for DX related activities. The upcoming Heard Island endeavor for example was granted \$20,000 the largest single donation given in the foundation's history

After almost 25 years the foundation continues strong. As we march into another sunspot cycle and toward DXCC 2000 none of us knows what DXing will be. What the board members of the foundation do know is that as long as DX is an amateur radio past time the foundation will be here ready to work with that next expedition.

## HEAVY HITTERS

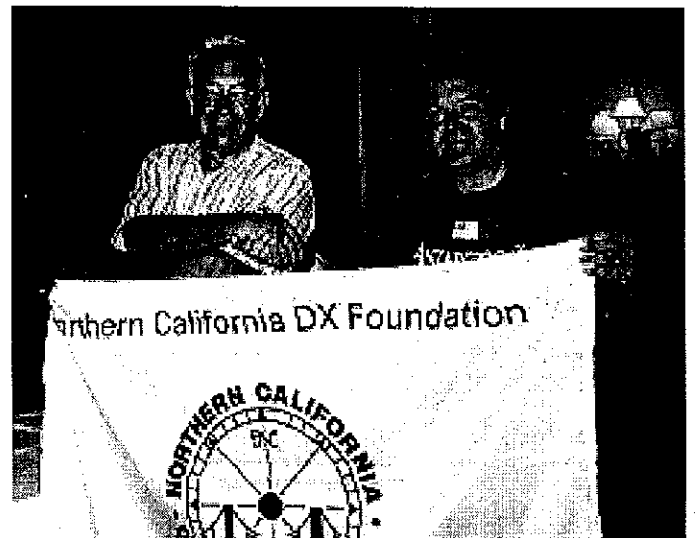
by Dick Dievendorf, K6KR.

Here are the NCDXF members that have contributed greater than \$100 in 1996. We sincerely thank each and every one of you for your generous support. Some of the callsigns shown are the "old" call of members who have, since they contributed, changed to new callsigns using the U.S. "vanity" call sign program. If you have changed your callsign, please let the NCDCF know so we can keep our records up-to-date.

AA6IR, AA7VB, AB4JI, AB6NB, AB6ZV, AH9B, BV4JB, LADX Group, DL2VPO, DL8CM, DL9SC, EA8TK, HB9DX, JA3APV, JA3BKP, JH2CYU, JM1CMA, KØIR, KØJUH, K2MM, K2PLF, K3ZO, K4DTT, K6ANP, K6DC, K6ITL, K6KR, K6MA, K6PU, K6RK, K6SQL, K6TMB, K8CFU, K8EJ, K8GG, K8MFO, KG6WU, KI6T, KI6WF, KP4AM, LA7XB, N1CYA, N6HR, N6XI, N7NG, N8CEO, NE8Q, NW6P, OHØXX, OH5NQ, VE3MR, WØCD, WØYK, W1KSZ, W4RIM, W4WJ, W5AWT, W5ZPA, W6BH, W6DU, W6ISQ, W6JZH, W6OAT, W6OSP, W6RR, W6SYL, W6SZN, W6TGI, W6WKE, W6YA, W7HUY, W8MEP, W8UVZ, WA2HZR, WA4VQD, WA6HXM, WA7NIN, WA8LLY, WB6IRC, WB6UOM and WK6E.



This picture, taken during the Dayton Hamvention, shows Toly, UT3UY receiving a \$2,000 check for the 5A1A operation. L to R W6RGG, UT3UY, K6ANP and W6OSP. W6OAT, in the foreground is busy selling WRTC T-shirts.



Above: W6OSP presenting NCDXF banner to XE1L



## YOUR FOUNDATION ON THE INTERNET

by Dick Dievendorf, K6KR

The Northern California DX Foundation is on the Internet! We have established a "World Wide Web" site at

<http://www.ncdxf.org>

Our World Wide Web site is hosted by Akorn Access, an internet provider in Georgia. Akorn's president, Bill Fisher, KM9P, has made it very easy for us to establish a quality Internet site.

Here's what you can find now on the NCDXF Web Site:

- A brief introduction to the NCDXF's mission and background.
- Information on how to join NCDXF.
- Information on how to renew your NCDXF membership.
- Membership services, including "online" change of address, "online" change of callsign, and information about available membership supplies.
- Up-to-date status table of the NCDXF/IARU beacon program, showing which beacons are operational, and their scheduled transmission times and frequencies.
- A list of all the slide and VHS video programs in the NCDXF library.
- Hypertext links to other sites of interest to DXers, including propagation data, DX news, QSL info, callbook databases, and other data of interest to DXers.
- A site-wide "full text search" capability.

We plan to add more items in the near future, so check the site often. We hope to make the NCDXF Web Site a valuable resource to our members.

We welcome your suggestions; please use the feedback form on the web site.

Dick Dievendorff, K6KR, e-mail  
"webmaster@ncdxf.org"

## CYØAA DXPEDITION REPORT

by Ken Scheper, WA8JOC

After the completion of the CYØAA DXpedition here is the breakdown of the band/mode counts:

	TOTAL	SSB	CW	Other		
160 Meters	583		36	547		
75/80 Meters	495		252	243		
40 Meters	2506		343	2163		
30 Meters	1646		—	1646		
20 Meters	6926	3454		3288	RTTY	184
17 Meters	1126		612	514		
15 Meters	718		601	117		
12 Meters	366		150	216		
10 Meters	609		549	60		
6 Meters	926		741	185		
2 Meters	30		20	8	EME	2
TOTAL	15931	6758		8987		186

Please note that 819 JAs are included in QSO totals

We had just received our QSLs last Tuesday, and of 10 boxes of QSLs we have received, three boxes are already in the mails. I have number 4 here and am working on it as I write this. It shouldn't be more than 2 weeks before we're current.

We were told we had the first EME QSOs from CYØ, and the first CYØ to EH8 six meter QSOs. Please notice the 819 JA's. CYØ is number four on the wanted list there!

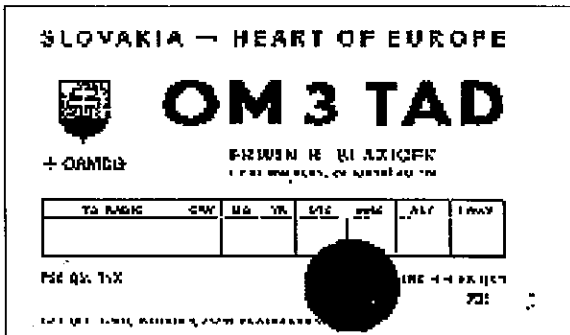
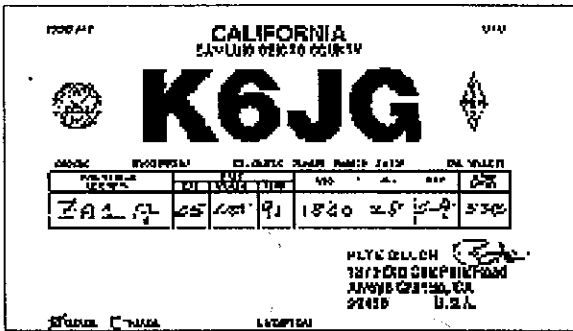
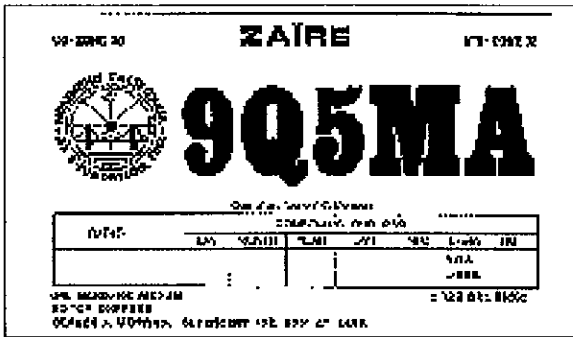
The most recent operation (WA4DAN/CYØ, etc.) did 25k QSOs during their stay, which amounts to about 5k per operator. We did 16k QSOs, also about 5k per operator, and we covered more frequencies! We feel that our efforts were well directed, even on six meters. Many HF guys came up to work us on a RARE six meter island!



Our QSLs are FIRST CLASS!! Ask W6OSP and K6ANS, they should have theirs by now, it is a double faced picture card with TWO different covers. I think this sort of QSL card is rare, if not unique - see the front page of this Newsletter.

We hereby express our gratitude to the NCDXF Board for their support. We especially appreciate the efforts of W6RGG to carry the colors into battle for us too! And all of us hope that in your eyes WE DONE GOOD!

PLEASE let me know what you hear...we think we put a BUNCH of the West Coast guys in the log! Hope the West Coast operators are happy campers now!



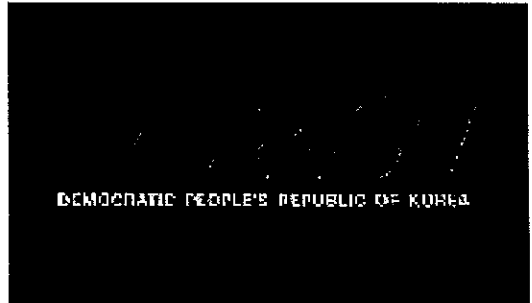
DXCC NEWS RELEASE

# XYØRR STATUS UPDATE

In 1991, the DXCC Desk accredited the XYØRR operation that the operators claimed had taken place from Myanmar. That accreditation was based on evidence that the operators had made legal entry into the country, and possessed operating permission from the government of Myanmar.

Recently obtained information has called this evidence into question. An investigation has disclosed no record in Myanmar of the operators having entered the country on the day and at the place shown in the XYØRR documentation. Additional facts have come to light that do not support the claims made in that documentation.

If the accreditation decision regarding XYØRR were to be made today, the operation would not be accredited based on presently available information. However, technical difficulties prevent removal of DXCC credits for this operation. DXCC participants whose credit for Myanmar is based on a contact with XYØRR are encouraged to make a replacement contact for their own personal satisfaction.



## Kermadec Islands ZL8RI DXpedition

by Al Hernandez, WA3YVN

Raoul Island located half-way between New Zealand and Tonga in the Pacific's volcanic "ring of fire" is the Northern most island in the Kermadec Islands Group. It is a bewitched Pacific paradise which has captured the imagination of many would-be DXpeditioners luring some to its shores over the past twenty years. But the island's volcanic core that vents with alarming frequency resulting in earthquakes and eruptions has sounded a caution alarm with the New Zealand Government severely restricting the number of permits that are granted for non-government activities on the island.

Those DXers who are fortunate enough to receive permission to land and operate from Raoul Island are faced with a three to four day journey through the stormy Pacific. The inclement weather often encountered in this region has adversely affected some recent expeditions - in one case wrecking the expeditioners'



ship leaving them stranded on the island for several weeks.

The May 1996 ZL8RI Kermadec expedition was more fortunate than some past expeditions. We ran into a ferocious storm one day after departing from Napier, New Zealand. For three days our 80-foot sailing ship the "EVOHE" rolled and heaved violently as if to remind us

that we too had to pay the price. But as if by an act of kindness to the DX fraternity the weather began to improve twelve hours before arrival and by the time we sighted Raoul Island the seas had calmed down enough to allow landing of all equipment and personnel on schedule.

The first Zodiac went ashore at approximately 2000 UTC on May 3, 1996. Landing and transporting all equipment to the field site two



miles away took all of the first day — it was winter there and got dark by 1730 local time.

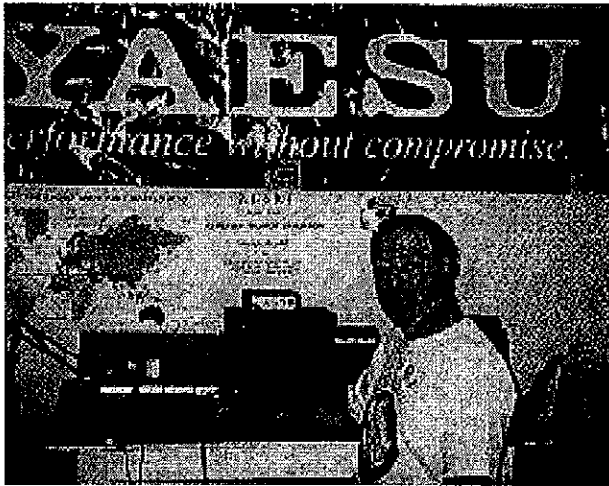
Setting up proceeded well into the night and next day. We made the decision to wait until most of the antennas and stations were in place before starting the operation. The entire team worked very efficiently without distractions and at 0400 UTC, May 5, 1996 we commenced operations with four complete stations on the air.

The expedition team consisting of Ken, ZL2HU (Leader); Lee, ZL2AL; Chris, ZL2DX; Ron, ZL2TT; Peter, ZL3GQ; Bin, JA3EMU and AL, WA3YVN (ZL3AH) continued to enjoy good weather and good fortunes until May 11th when a strong Gale damaged the 160m antennas and the next day when one of the two diesel generators failed and could not be repaired. However the weather cleared up just in time to allow the team to pack and load all gear

back on the ship for an on schedule departure May 14, 1996 at 0100 UTC.

Once again the weather remained good for one day but as the weather reports came in we knew that we better have our last meal of the trip. For the next three days the 80-foot ship seem to be dwarfed by the towering waves in the Pacific ... and after we lost one of the two engines we began to have some doubts as to whether or not the ship was going to make it back to New Zealand under its own power. However, we did make it back under sail with a little engine power and a lot of wind power. Take my word for it, there is nothing better than redundant propulsion systems even if it takes a little longer to get there.

QSO Statistics



We were active on all HF bands (160m - 10m) and primary modes (CW, SSB and RTTY). The team made 34,000 QSOs including 1,439 on RTTY and 303 on 160m with the following break down by continent and mode:

	NA	SA	EUASIA	AFRICA
OCEANIA				
SSB	10,150	180	1,780	5,560
CW	6,800	60	1,770	5,100
RTTY	560	2	80	780

The above data shows a QSO split by of 54.6% SSB, 41.2% CW and 4.2% RTTY.

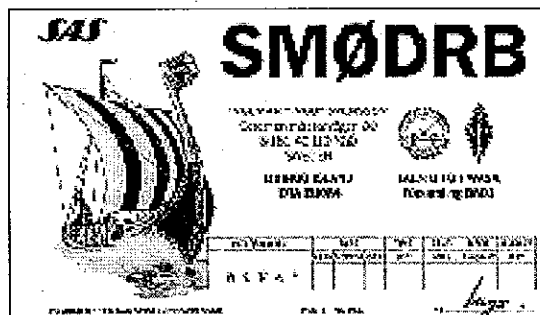
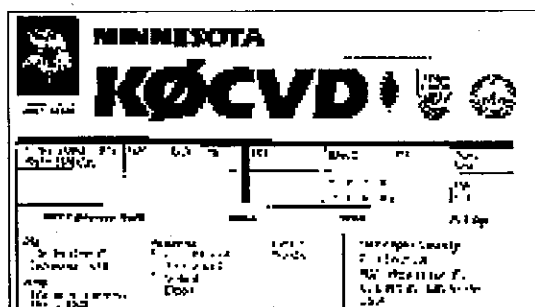
The feedback that I have received from the DX community indicates that ZL8RI was a successful expedition. Personally, I enjoyed the company of the entire expedition team and the warm hospitality that they and their families extended me in New Zealand. All QSLs were handled directly by Ken Holdom, ZL2HU with the help from the other New Zealand team members. QSL cards began to come out at the end of July and we expect all cards to be mailed by the end of September.

Primary Equipment and Final Remarks

This expedition would not have been possible without the support of many equipment manufacturers. The primary equipment consisted of Yaesu radios and linear amplifiers; Nagara, Cushcraft, The Radio Works Super Delta Loop and K9AY 160/80 Expedition Antenna; Timewave DSP filters; LinkPlus LinkMate Lincomplex units; ZJ Electronics low band accessories and Heil Sound boom sets.

My sincere thanks go to NCDXF, INDEXA, the world wide DX community and the many clubs, foundations, DX News letters and equipment manufacturers that helped make this expedition possible by providing much needed finances, equipment and expert advise to the expedition team. It is with utmost respect that I say thank you. For me the Kermadec dream is now a reality and I can finally say "Been there....Done That !"





ZB2/DK6AS



## WORLD RADIOSPORT TEAM CHAMPIONSHIP REPORT

On July 13-14, 1996 the Northern California Contest Club sponsored the World Radiosport Team Championships or WRTC-96. This event brought together 52 2-person teams of competitors plus two demonstration teams all of whom operated from stations that were as much the same as it is possible to do in a locale such as the San Francisco Bay area. The competitors came from 40 countries and the judges were from 10 countries.

A vast majority of the stations used were the home stations of local hams. A station selection committee screened many, many potential stations before making the final selections. Even after the selection, their job wasn't done. Some of the stations selected had problems that had to be solved before the contest. This included installation of several 40 meter wire dipoles and solving noise problems. The competitors were limited to 100 watts with a tri-bander at about 50 feet and a wire dipole for 40 meters. There was a rule prohibiting a competitor from telling the stations they worked who they were. The callsigns used, W6A through W6Z and K6A through K6Z were, among other reasons, intended to level the playing field and conceal the identities of the operators.

During the week proceeding the contest, the judges, referees, competitors and others had the opportunity to attend many special events and tours. In addition the competitors and judges met to make sure there was complete understanding of all the rules.

During the course of the contest there was a judge or referee at each stations for the entire contest. In addition, the entire contest was tape recorded at each station. Computer logging was required and the completed logs were had to be turned in to the attending official within 10 minutes of the completion of the contest. The judges worked overnight to process all the logs and determine the final scores

of all teams. At an awards banquet Sunday evening at the Stanford University faculty club, the top three teams were award Olympic-style metals.

The WRTC committee will send out QSL cards via the Bureau for all contacts made. There is no need or desire for stations to request QSL cards or respond to cards received. There was special QSL design work by N6TV.

The operating officers for WRTC-96 were Bob Ferrero, W6RJ; Bruce Sawyer, then AA6KX (now N6NT), Bob Cox, K3EST, now??); Dave Leeson, then W6QHS, now W6NL; Rusty Epps, W6OAT; Dick Dievendorf, then AA6MC, now K6KR; Andy Faber, AE6Y; and Bob Vallio, W6RGG. There were many committee members and staff involved with turning the event into a great success.

The WRTC committee hereby thanks all sponsors including the Northern California DX Foundation, Shell Oil Company, Ham Radio Outlet, CQ Magazine, American Radio Relay League, Yaesu, ICOM and WJET-TV for their generous support. WJET filmed the event and has produced a video that will be available soon.

The WRTC-96 program included incentives for stations to work the WRTC competitors. These included special WRTC playing cards for working all 52 stations (334 stations earned them), WRTC Tee-shirts for being among the top scorers (303 stations earned one), and letter openers for working at least ten QSOs (1399 stations qualified for one). In addition 17 stations qualified for special WRTC-96 plaques.

NOTE: Portions of one competitor's log were lost. These QSOs are not included in the following list

**PLAQUE WINNERS:**

Plaque:	Winner	QSOs	Plaque Donated By:
Worldwide (No SF)	KD6WW	383	Radio Amateurs of/du Canada, Inc.
Africa	ZD8Z	54	Andy Faber, AE6Y
Asia	JA7FTR	116	Morioka Contest and DX Association
Oceania	AH6NB	62	Carl Cook, AI6V
South America	PY7ZZ	91	Radio Club Quilmes in memory of Jorge H. Bozzo, LU8DQ

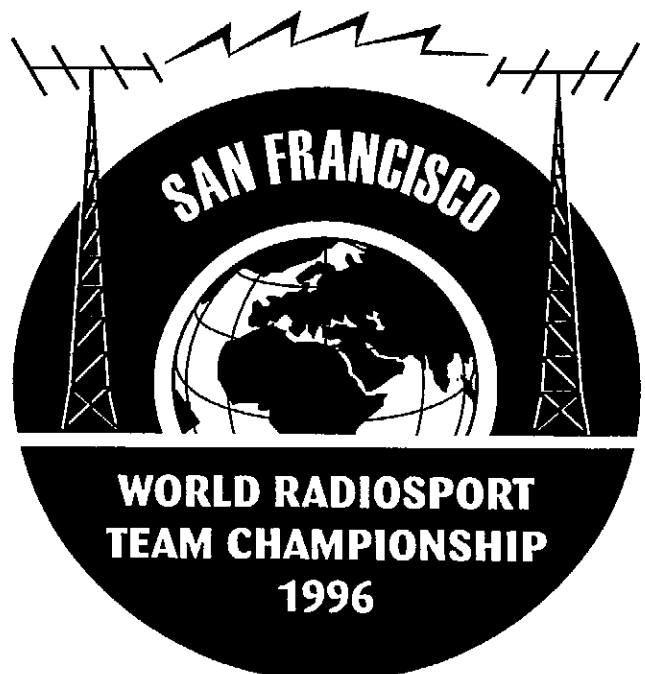
Canada	VE6WQ	254	Northern California Contest Club
ITU Zone 6	WW7Q	299	WRTC-90 (Seattle) Organizing Committee
(Bay area)	W6QHS	390	Dick Dievendorf, AA6MC
ITU Zone 7	N5RZ	373	Bill Hider, N3RR
ITU Zone 8	K8CX	299	Frankford Radio Club
ITU Zone 11	P4ØZ	107	Dennis Motschenbacher, AA7VB
ITU Zone 18	SM3EVR	61	Rhein-Ruhr DX Association
ITU Zone 27	GIØKOW	70	Steve Thomas, N6ST
ITU Zone 28	DL4NAC	52	A.R.I. - Italy
ITU Zone 29	LYØHQ	31	Southern California Contest Club
ITU Zone 37	CT8T	11	Lew Sayre, N7AVK
ITU Zone 45	JA7SN*	106	Western Washington DX Club
	JA5DQH*	106	

\*Tie

**PLAYING CARD WINNERS**

("Grand Slam" for working all 52 different WRTC team stations):

AA2SZ, AA2Z, AA3JU, AA4EL, AA4GA, AA4NC, AA5B, AA5BT, AA5TN, AA6AD, AA6G, AA6KX, AA6WJ, AA6XX, AA6Z, AA7BG, AA7KF, AA7NO, AA7NX, AA7UC, AA7UN, AA7YH, AA8AV, AA8HZ, AA8OT, AB1U, AB5SE, AB6FO, AB7E, AC1O, AD6A, AD8J, AE2T, AE5H, AE6Y, AG7J, AI2C, AI6V, JAØQNJ, JA5DQH, JA7FTR, JA7SN, JEØUXR, KØBJ, KØDEQ, KØFX, KØGT, KØKX, KØLUZ, KØMT, KØRF, KØVZR, K1BG, K1CC, K1EA, K1HTV, K1IU, K1ST, K1ZM, K1ZX, K1ZZ, K2DM, K2NJ, K2POF, K2PS, K2SX, K2TW, K2UVG, K3ANS, K3BHX, K3JGJ, K3JT, K3LR, K3WW, K4JYO, K4KQ, K4PI, K5GN, K5MC, K5NA, K5YAA, K6ATV, K6KM, K6LQA, K6PU, K6TMB, K6UA, K7DZ, K7FD, K7FR, K7HBN, K7JYE, K7LJ, K7LR, K7NPN, K7QQ, K7UP, K7ZA, K8CX, K8GL, K8MBH, K8MFO, K8MR, K8YSE,



K9AJ, K9BG, K9JF, K9LJN, K9MMS, K9WA, K9ZO, KAØGGI, KA9FOX, KB1H, KB2R, KB2WJY, KB9S, KCØGM, KC1F, KC3M, KC7MFP, KC8BCS, KD6PUD, KD6WW, KD9CN, KEØOL, KE3Q, KFØH, KF2O, KF8TM, KF8VW, KF9FU, KG4W, KG6VI, KG9N, KI3L, KI7Y, KJ5YF, KJ7TH, KJ7VP, KK5SY, KK6XN, KL7Y, KM4XV, KM5G, KM5H, KQ2M, KR2Q, KT5X, KU2Q, KVØQ, KX2A, KX3Y, NØABA, NØAT, NØBB, NØDH, NØIMH, NØST, N2AU, N2MAU, N3BGV, N3II, N3SL, N4CC, N4KW, N4MM, N4NO, N4TY, N4ZC, N4ZR, N4ZTT, N5DO, N5ET, N5FA, N5HRG, N5KM, N5NMX, N5QDE, N5RZ, N6CMF, N6EK, N6IP, N6MA, N6ND, N6RZ, N6ST, N6TU, N6VR, N6YK, N6ZS, N7AVK, N7IRR, N7TT, N7TZW, N7UA, N8AA, N8AAT, N8ATR, N8BJQ, N8LXS, N8RR, N9AG, N9XX, NA5S, ND5S, NE9Z, NF9V, NI6T, NL7HP, NS8T, NU8Z, NZ9Z, VA3DX, VC6JO, VC7SBO, VE3HX, VE3IAY, VE3KP, VE3KZ, VE3OM, VE3RM, VE3VFR, VE3XN, VE4YU, VE5SF, VE6EX, VE6JY, VE6WQ, VE7CFD, VE7FJE, VE7FSF, VY1RAC, WØAIH, WØAW, WØIZ, WØWT, W1AW, W1BIH, W1GD, W1GG, W1KM, W1RM, W1WEF, W1XT, W2UE, W2VJN, W3GH, W3GRW, W3NJ, W4MLA, W4MPY, W4MYA, W4NL, W5ASP, W5EHM, W5FO, W5GN, W5LT, W5NN, W5PLN, W5QZ, W6/VE7AHA, W6BIP, W6BSY, W6CF, W6CYX, W6EEN, W6GO, W6ISQ, W6MVW, W6OA, W6OAT, W6OTC, W6QHS, W6RGG, W6RJ, W6TEX, W6YHM, W6YLL, W7LZP, W7MB, W7OM, W7QN, W7SE, W7TCI, W7XA, W7YS, W7ZRC, W8CAR, W8ERD, W8JGU, W9CF, W9KNI, W9OP, W9PL, W9VA, W9ZR, WAØRJY, WA1FCN, WA1UJU, WA4QDM, WA5DTK, WA5SXU, WA5TOS, WA6CTA, WA7BAY, WA7LNV, WA7UVJ, WA8LLY, WA8SWM, WBØO, WB2YQH, WB5B, WB6CUA, WB6GFJ, WB6RZK, WB7DHC, WD4AHZ, WD5K, WF5E, WJ6O, WL7KY, WM2C, WR6R, WS4E, WS7I, WT2O, WU4G, WV5S, WWØE, WW3V, WW7Q, XE1/AA6RX.

There isn't enough room here to show all the winners. To see a complete list go to <http://www.contesting.com/wrtc96.html>



## PROGRAM NOTES

Ron Steiner, K6KEO

There seems to be a growing number of people who are not returning the material when they or their club are finished with it. This means I have to write a letter requesting the return of the material. In two instances it took two letters to finally get the video's back. This not only makes unnecessary work for me, it is unfair to other clubs, who may be waiting for a particular video. If I should fail to deliver requested material to a club in time for their meeting, I'm sure that I would hear about it.

As long as I'm on my "soapbox," there's one other item. Occasionally with the return of a video, there is a letter or note criticizing the quality or content of a particular video. I realize that not all of the video's are of the same caliber, but let's not lose sight of the fact, that the persons producing these video's are not Cecil D. DeMille or Steven Spielberg. They put forth their best effort, and without them there would be no slide and video library.

Thanks to Harvey Laidman, N6HL and the Southern California DX Club, we have a fine new video titled: "Mission to Jordan." It's 43 minutes and covers the joint Israeli/Jordanian DXpedition, JY74Z, to Mt. Nebo in Jordan in July of 1995.

Happy Holidays and the best of luck in the Heard Island pileups.



## SLIDE SHOWS AND VIDEOS

Clubs borrowing materials are responsible for postage in both directions. The amount can be learned from the postage on the package when it comes to you, and is usually about \$3.00. Please give the name of your club, the day of the month you meet, and more than one choice of programs in case there is great demand for the item you want. Please return all material promptly, so it will be available for others.

Request should be mailed to: Ron Steiner, K6KEO, 3154 Dominic Dr., Castro Valley, CA 94546

### We have the following slide shows available:

1. Kingman Reef and Palmyra Is. Expedition of 1974. (148 slides).
2. K5YY Africa of 1978. (62 slides).
3. The Colvins on Easter, Galapagos, San Andreas, etc., 1984. (140 slides).
4. W6REC & ZLIAMO on Kermadec, 1984. (58 slides).
5. AH0C (Saipan), CQWV Contest Operation, 1983, by WA6VEF & N66BT. (82 slides).
6. 1985, Clipperton Expedition. (191 slides).
7. Ponape Is., by N6HR, travelogue. (81 slides).
8. Pribilof Is. operation of 1982. (48 slides).
9. Midway, by NA6T & KD7P. 1985. (120 slides).
10. Anarclica, Arctowski, Palmer, Peter I, Macquarie stns., (101 slides).
11. VR6, Pitcairn, Mar./Apr., 1979, by ZL1AMO & ZLIADI. (51 slides).
12. SM0AGD 1982 Pacific DXped, 1982. (150 slides).
13. 9U5NT, Burundi, by ON5NT, 1983. (57 slides).
14. TYAI, Benin, by ON5NT, 1981. (61 slides).
15. VK3DCU/2, Lord Howe Is., by K2UO, 1980. (52 slides).
16. 3A, Monaco, by F6EYS & F6HIX of 1984. (43 slides).
17. 5X5, Uganda, by DJ6SI of 1985. (115 slides).
18. Market Reef, July 1983, PA0GAM/OH2/OJ0. (100 slides).
19. KX6DS, Marshall Is., 1986. (34 slides).
20. Andorra, by DL1HBT, DL3HAH, DL5BAD, DL4BBO, DL4BAH, 1986. (50 sl).
21. 1986, Clipperton, by W6SZN, W6OAT, A16V, N7NG, W6RGG. (176 slides).
22. Peter I Is., 3Y by LA1EE & LA2GV, 1987. (127 slides).
23. KP2N, 1986, CQWV DX CW Contest. (55 slides).
24. OF0MA, Market Reef, 1987, SM5AQD, GM3YOR, OH0NA, G4EDG, G4JVG. (28 slides).
25. Abu Ali, A15AA, by DJ6SI, 1988. (65 slides).
26. XX9CW, by DK7PE, 1986. (16 slides).
27. 1988, Palmyra, by K9AJ, KP2A, WA2MOE, W0RLX, F6EXV, JA5DQH. (30 min).
28. 1988, Kingman Reef, by the above operators. (98 slides, 28 min).
29. 1988, 4U, KC4, VK9Y, VK9X, and 9V1, by W7SW. (73 slides).
30. Banabals., T33JS, T308 & T27, by KN8AJ/VK9NS. (80 slides, 80 min).
31. XF4L, by XE1L, XE1OH, XE1XA, OH2BH, OH2BU, JH4RHF, W6RGG & N7NG. (40 min).
32. Publishing The DX Bulletin, by Chod Harris (24 min).
33. Rotuma, 1988 slides, by W6SZN. (73 min).
34. 4J1FS, MV Is., 1989, with Finn, Soviet & American DXers, by K7JA. (16 min).
35. ZS8MI, Marion Is., by Peter Sykora, ZS8PT. (60 min).
36. V63-KC6-P29, Micronesia/Melanesia, 1989, by KQ1F & K1XM. (20 min).
37. YL DXped to Wallis Is., June 1989, by NM7N, N7HAT, N4DDK, KA0MX. (20 min).
38. A51JS, Bhutan, by VK9NS, Jim Smith. (60 min).
39. HC8X, Galapagos, by KQ1F. (34 min).
40. Faroe Is., May 1991, by N6HR. (28 min).
41. Palmyra Is., KP6AZ, 1963, by W6FAY. (c 1 hour).
42. VK9WV-VK9NLW, Wallis Is., Oct 1992, by Jim Smith, VK9NS. (38 min).
43. S2-Bangladesh, 1992, by Jim Smith, VK9NS. (26 min).
44. Christmas Is., 1992, VK9XN-VK9XM, by W5KNE. (50 min).
45. Jarvis, KH5, 1992, by WA6AUJ. (45 min).
46. Kingman Reef, 1993, by N9NS, VE5RA, N0AFW, OZ1LFG, PA3DZN, PA0ERA. (60 min).
47. Palmyra, 1993, by G0LMX, HB9AHL, NH6UY, HDB9AEE, W7KNT, G3KHZ. (32 min).
48. Mellish Reef, 1993, by VK4CRR, G3WGV, K5VT, V73C, WA4DAN, VK2BJLK, VK2BEX & P29DX. (25 min).

### We have the following VHS programs:

1. XU1SS (plus BV0YL & BV0JA). (about 35 min).
2. 7J1RL, Expedition of 1976 & 1978, (includes ZK9ZR, Mellish Reef).
3. VK9ZR, Expedition of 1978, (plus Ogasawara, 1978).
4. Frankford Radio Club ARRL phone parody, (plus JH7YFL WWCW).
5. JF1IS17J1, Expedition to Okino Torishima of 1979. (25 min).
6. Australian travelogue, Climbing Big Ben, Heard Island. (55 min).
7. Ham Radio In The South Cooks Is., by ZK1CA & ZK1CT. (70 min).
8. VR6 by ZL1AMO & ZL1ADI, copy of above slides by Jim Hurt, WGeo College & W4VWA.
9. Looking Up In Rio Linda, 1986, by W6GO/K6HHD. (45 min).
10. Revillagigedo, XF4DX, of 1987, Produced by WA8MAZ. (15 min).
11. North Texas Contest Club, towers and contesters, by K5TCK. (45 min).
12. It Started With A Broken Fence - JH3DPB's Tall Tower Tale. (15 min).
13. Pile-Up Busters, by W8TN, AB0I & N0FVG. (10 min & usually sent with #12).
14. FGW2QM/FS, French St. Martin, DXing Senior Style - Another wrinkle to DXing.
15. 1984 Laccadive Is. DXped, VU7WCY, plus 1983 VK0HI from TV. (about 60 min).
16. The K8UA contest station story. (25 min).
17. HK0TUDXped of 1983, Malpelo. (25 min with audio tape translation by K6BZMC).
18. The Ship That Shouldn't Have - VK0JS Heard Is. DXpedition. (90 min).
19. The New World Of Amateur Radio. (28 min)

20. S0RASD, The Western Sahara Story, 1987, by the Lynx Group. (37 min).
21. Auckland Is., 1988, by ZL1AMO, ZL1BQD, N7NG. (60 min).
22. Dr. Owen Gariot's first talk to hams about the Space Shuttle.
23. Russian Ham Radio Tour by WA6WWD, Oct. 1986. (45 min).
24. 3Y DXpedition, 1987, copy of slides by Jim Hurt, West GA College & W4VWA. (40 min).
25. Peter I, 1987, video from JA7ARW.
26. 1979 Spratty Is. DXpedition, by K4SMX, K1MM, VK2BJL, N2OO, N4WWW & KP2A.
27. 1988 Malj Vysoiskij Is., OH2BH, UZ3AU, OH5NZ, UR2AR, OH2RF, UW3AX. (23 min).
28. 3W8DX & 3W8CW by HA5WA, HA5PP, HA5BBC, Nov. 1988, Produced by W4BRE.
29. Aruba, P40V, CQWV Test 1988. (12 Min).
30. A Message From Barny Goldwater, K7UGA. (12 min).
31. Navassa of 1988, by N2EDF, K2SG, KE4VU, KD2NT, N4GNR, KT2Q & W3GH. (38 min).
32. Rhodes, SV5, by N2OO & SV0AA, April 1989. (40 min).
33. N0IZ/KH1, Howland Is., 1988, by N01Z, 7J3AAB, TR8JLD, VK9NS & VK9NL. (20 min).
34. Boeing ARC at the Electronic Convention and Great Wall Of China. (audiotape for VHS, 30 min).
35. KC Club DXpedition to Tonganoxie Is., a spoof. (30 min).
36. Tuvalu, 1989, by K6EDV & AL1AMO. (27 min).
37. Visalia Convention of 1990, recorded by W6NLG. (2 hours).
38. Rotuma, 1988, copy of the slide show by Jim Hurt, WGC & Henry Owen, W4VWA. (73 min).
39. XW8CW & XW8DX, 1989, by HA5PP & HA5WA, Produced by W4BRE. (27 min).
40. XU8CW & XU8DX, 1990, by HA5PP & HA5VE, Produced by W4BRE. (25 min).
41. All China Amateur Radio Direction Finding Competition, plus BY1PK. (32 min).
42. ZS8MI, by ZS8PT, partial copy of the slide show. (40 min).
43. Jim Smith, A51JS, visits the Bay Area, videotaped by WA6BXY. (80 min).
44. R9ZF/NN7A, NN7D & W7YS, August 1989, Lake Teletskoye, Siberia. (30 min).
45. VU7, Laccadive Is., 1984. (65 min).
46. VU4, Andaman Is., 1987, by Combator Radio Club. (30 min).
47. 3Y5X Expedition, 1989, Video by JF1IST. (In Japanese, good photography, 35 min).
48. VR6TC speaks to the Turlock ARC, 1/8/91, VHS by K6IMN. (125 min).
49. 1990 World Radiosport Team Championships in Seattle. (25 min).
50. ICOM's More Than Radios, The Legacy We Leave To The Young. (25 mins+).
51. T33R-T33T, Banaba, Nov. 1990, SM7PKK, TF3CV & OH1RY. (22 min).
52. This Is ATV, by Western Washington AT Society & Seeing Is Believing, by AEA. (47 min).
53. New Horizon: South Pacific Adventure, by AA6LF. (55 min).
54. YB3ASQ: Indonesian Stations and Sightseeing, by W7TSQ. (25 min).
55. XF4L of 1989, by JH4RHF, XE1OH, XE1XA, OH1BH, W6RGG, XE1L, OH2BU & N7NG. (25 min).
56. ET2A, by W4IBB, Jack Reeves, May 1991. (12 min).
57. IS0XV, by UW3R, etal, July 1990. (35 min or a 2 hour version, your choice).
58. Jarvis 1990, from K3NA & KN3T. (35 min).
59. 3C0CW, Annobon, 1991, by the Ganorka Club of Spain. (20 min).
60. Araucaria DX Group, Brazil, Contest Station and Operators. (30 min).
61. 9L1US, by Dave Heil, KBMN, ed. by Jim Hurt, West GA. College & W4VWA. (45 min).
62. Dave Heil, KBMN visits Finland, edited by Jim Hurt & Henry Owen, W4VWA. (35 min).
63. Penguin Is., 1990, from a slide show by N7NG, Wayne Mills, produced by MoBre. (15 min).
64. P.9JV, 1990, Spirit Of Victory, Radio Team Finland, produced by WA7LNNW. (48 min).
65. Empire Of The Air: The Men Who Made Radio, recorded by K1GYB. (110 mins.).
66. Contest Night Live, by the Kansas City DX Club. (30 min).
67. DXing Kansas City Style, by the Kansas City Club. (30 min).
68. VP8ANT/G3CW, Adelaide Is., Antarctica. (45 min).
69. H44, May 1991, by G3WVG, G3IXT & G3SXW. (12 min).
70. VP2EOH, Anguilla Is., by Northern Ohio DXA, 1992. (29 min).
71. T32T, Christmas Is., WPX SSB Test, Mar. 1990, narrated by VP2ML & video by JH1LBR.
72. VP8SSI, South Sandwich, 1992. (26 min).
73. More About Radios, Zman Productions, (How To Get Started In Amateur Radio). (28 min).
74. Navassa Is., Jan. 1992, by WA4DAN, AA4VK, N07O, KW2P & AA4NC. (25 min).
75. Getting Started In DXing, by CQ Communications, Inc.. (52 min).
76. The Radio Ham, starring Tony Hancock, english comedy. (26 min).
77. Project Irma: The DX Truth-O-Meter, Northern Cal. DX Convention, 1993. (25 min).
78. ZL9DX, Auckland Is., by ZL1OK, ZL1AVC, ZL2TPY, JH4RHF & JR4DLW. (28 min).
79. CV0DXX, Aug. 1989, Sable Island by the Breton DX Group. (18 min).
80. V63-KC6-P29, by KQ1F & K1XM, slide copy by Jim Hurt & Harry Owen, W4VWA. (25 min).
81. Deseccho, KP5, 1992/3, with KW2P, N07G, WA4DAN, W0RJU & AA4VK. (28 min).
82. E35X, Eritrea, May 31 - June 10, 1993, by LA6VM, LA1EE, JF1IST, LA9DL & LA7XK. (17 min).
83. AH1A, Howland Is., 1993, by ON6TT, W0RLX, K0AJ, W0CP, K0EU, W9IXX, K4UEE, F6EXV & G4LJF. (2 hrs).
84. 9G1AA, Ghana, by PA3AVW, PA3FUE, PA3FUE, P:A3ERA, PA3DEW & PA0TUK. (55 min).
85. 9M0S, Spratty Islands, 1993, N7NG, WA6AUJ, OH6DO, JA5DQH, OH1NYP, 9V1YW, 9M2FK, OH2MAK and OH2BH. (30 min).
86. Journey to Peter I, 1994. (30 min).
87. ZD9SXW, Tristan da Cunha, 1944, by G3SXW. (18 min).
88. Last Voice From Kuwait, 9K2DZ. (25 min).
89. Malj Vysoiskij Island, 4J1FM/4J1FV, October 1992, by AH0Wex4J1FM. (43 min)
90. 3C0GD, Annobon, 1989 & LA8PV. (20 min)
91. IA0KM & HV4NAC. (30 min)
92. H44IO, South Pacific DX-pedition, by DL7IO ex DL7VTM. (46 min)
93. The Congo, TN4U & TN2M, 1995, by DL7IO ex DL7VTM (40 min)
94. 3V8BB, 1994 (17 min)
95. Mission to Jordan, The joint Israeli/Jordanian DX-pedition, JY74Z, in July of 1995. (43 min)
96. The Kermadecs DX Adventure, ZL8RI - DX AT ITS BEST (30 min)

# 1997 Contribution

The Northern California DX Foundation relies heavily upon the generosity of its members to fund various projects. We urge each member to consider making an annual contribution of \$25 U.S. or its equivalent in foreign currency or IRCs. However, we do not wish to exclude anyone from the Foundation for financial reasons. If \$25 is not within your budget, then please give what other amount you can. Naturally, we welcome contributions in excess of \$25! The NCDXF is an organization as described in Section 501(c)(3) of the Internal Revenue Code and all contributions are tax-deductible to the extent permitted by law for U. S. taxpayers.



Name: \_\_\_\_\_ Callsign: \_\_\_\_\_

New member       Renewal

Address: \_\_\_\_\_ Contribution: \$100   
 \_\_\_\_\_ \$50   
 \_\_\_\_\_ \$25   
 \_\_\_\_\_ Other

Total enclosed or charged (contribution plus supplies) _____
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Stanford, CA 94309-2368 USA      Please charge my:       VISA       MASTERCARD       My Check is enclosed  
 Expiration Date: \_\_\_\_\_      Card Number: \_\_\_\_\_

Please also send me the following Foundation supplies:	NCDXF Pin	\$6.00 ea.	_____	quantity
	Roll of NCDXF Labels	\$6.00 ea.	_____	
	NCDXF Rubber Stamp	\$6.00 ea.	_____	

Signature: \_\_\_\_\_  
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Please use this form or a copy when sending a contribution or ordering supplies

Northern California DX Foundation  
 P.O. Box 2368  
 Stanford, CA 94309-2368 USA

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Address Correction Requested



James A. Maxwell, W6CF 4/24/94  
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