

# DXer

N O R T H E R N  
C A L I F O R N I A  
D X C L U B



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## Editor's Choice

One thing we can always count on - change. We have had another change. Due to a change at my workplace, I have had to resign as a club director. Ron Panton, W6VG, has stepped forward to assist in the leadership of the club. Ron has given many years of service to the club and probably is more attuned to the NCDXC than I am. He will do a great job as always. I will continue as DXer editor as long as I can. My present schedule has been working evenings, Tuesday through Saturday. This sure messes up getting to the Friday night meetings and the first day of contests!

We had a great turn out for the August 14th General Meeting. While not exactly a subject impacting ham radio (unless your tower comes down), the EARTHQUAKES presentation by Dr. Bob Uhrhammer, WB6VEX, was very interesting and kept everyone's attention. There were lots of pertinent questions. If you didn't make it, you missed a good program. We had more people present for this meeting than we did the elections! The September meeting will be great, too, as Hillar is returning to give us another presentation on his travels to Iceland. In October, Mike Mraz, N6MZ, will present a program regarding his recent participation on the ZK1XXP operation.

Marilyn, N6VAW, is doing a great job with lining up interesting programs. Please support her and the club by attending the general meetings.

President Dick Letrich, W6KM, and Convention Chairman, George Allan, W6YD, promise the 1999 convention will be the best ever! I believe it, with the enthusiasm of both gentlemen we can't go wrong. Everyone needs to support the convention committee in any way they can.

Conditions are getting better! I worked my first European (this cycle) on 15 meters SSB with my dipole and a hundred watts.

Maybe attendance at the meetings will get better with improving propagation. My personal opinion is that the club membership should try to consider a different night for the meetings. I encourage you to voice your opinions to me or any of the club officers. Every other DX club I have belonged to had greater turnouts and participation by holding the meetings during the week. Also, activities such as raffles or competitions at the meetings should be looked at.

This month's issue has a great piece on the recent HA expedition to Mongolia. Garry, N16T, was one of the lucky ones to work the group on 160 meters and has been corresponding with one of the expedition members. Thanks to Garry for sharing this information with us.

I want to thank Don, AA6W, for taking on the printing and mailing of the DXer. He is doing a great job interfacing with the Vasona Copy Tech Center to get the monthly issues out in a timely manner. The owner of the print company even came to my house to pick up the copy for the August issue!

—73 de Dave, K7JJ

## WELCOME!

NEW ASSOCIATE MEMBER:

**Andreas Junge AD6FQ**  
Extra class

**September 11, 1998**

**NCDXC General Meeting  
Program**

**Hillar Raamat, N6HR  
"TF Revisited"**

**Palo Alto Golf Course  
Attitude Adjustment @ 1800  
Supper @ 1900  
Meeting follows Supper**

**Take Embarcadero exit from  
101, go east approximately 1/2  
mile and turn left into the drive  
between golf course and airport.  
Talk in assistance on club  
repeater, W6TI/R, on 147.360 +  
600 Khz.**

September 1998

## President's Comments

N O R T H E R N

C A L I F O R N I A

D X C L U B

**Club Officers:**

President: Dick Letrich, W6KM  
 Vice Pres: Marilyn Bagshaw, N6VAW  
 Secretary: Jerry Bliss, K6III  
 Treasurer: Ted Park, K6XN  
 Director: Chuck Patterson, K6RK  
 Director: Chuck Vaughn, AA6G  
 Director: Ron Panton, W6VG

**The DXer:**

Editor: Dave Earnest, K7JJ  
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<http://www.ncdxc.org>

DX Ladder: Dave Bernstein, AA6YQ

9-Band Award: John Brand, K6WC

Contests: Doug Westover, W6JD

California Award: Rubin Hughes, WA6AHF

Historian/archivist: Ron Panton, W6VG

Records Manager: Ron Panton, W6VG

Publications Mgr: Ron Panton, W6VG

**Club Repeater, W6TI/R**

Frequency/offset: 147.36 MHz, +

Trustee: Bob Vallio, W6RGG

Comm. Chairman: Eric Swarz, WA6HHQ

Club simplex: 147.54 MHz (suggested)

Thurs. Net QTR: 8 pm local time.

Net Manager: Randy Wright, W6CUA

DX News: Dave Pugatch, KI6WF

Propagation: Al Lotze, W6RQ

Swap Shop: Ben Deovlet, W6FDU

QSL Information: Mac McHenry, W6BSY

**W6TI DX Bulletins:**

W6TI Station Trustee Bob Vallio, W6RGG, transmits DX information at 0200 UT every Monday (Sunday evening local time) on both 7.016 and 14.002 MHz.

**Club address:** Box 608  
 Menlo Park, CA  
 94026-0608

*The DXer* is published monthly by the Northern California DX Club and sent to all club members. Unless otherwise noted, NCDXC permits re-use of any article in this publication—provided The DXer and the article's author are credited.

If you did not renew your membership this may be your last DXer, Check the check book, if you didn't renew maybe you just don't care. The renewal list is quite good very few failed to get the message when they got the envelope as a reminder. We are supposed to be mature adults and we are not going to hold your hand and get on our knees to beg you to rejoin. If you don't feel that #1 belonging to the worlds best DX club is not worth the dues, maybe your not real DXer material. #2 Maybe you don't feel that the DXer Cub Bulletin alone is worth the price of admission, maybe that's because you have never donated your time or effort to work for a nonprofit club and all you want is gimme gimme gimme. #3 You have lost interest in real Ham Radio and all you want to do is contest for a few hours now and then and you think you are a real DXer. Whatever your reason its up to you. This club is for REAL DXers and that's the direction that we are going to point it. Membership is the back bone of the club and quite frankly its not done by large membership numbers but by those that take an active interest and part in the club. Showing up for meetings is taking an active interest in the club.....See ya at the next meeting



I hope that those that went to the August meeting had as much fun as I did. Our program brought out many that had not made a meeting in quite some time and that was great! VP Marilyn N6VAW, has been rounding up a list of great DX topics for future meetings. The exception of not being a DX Meeting of course will be that our December meeting will be a family meeting with the theme of Christmas and entertainment. I promise that you will want to pencil this one in right away so that you wont miss it. December 10th and it is on a Thursday night. This is the one that you will want to bring your wife, girl friend, buddy's, kids and grand kids to! As soon as the details are worked out you will be the first to know, but drop everything and mark up that calendar right now. You know this is a DX Club and not a social club. It seems that many want it to be anything but a DX club. We can and do enjoy the social aspect of the NCDXC but our main goal was in the beginning to share the thrill of DX'n. To this end that is the primary reason for our existence. When someone says "I don't go because the food is too expensive or that the program did not sound good or that its out of my way, etc." They miss the point. I have been a pretty active member for nearly 21 years and I don't go for any of those reasons. I go because I get to meet eye ball to eye ball with my fellow DXers and often exchange chats about what I have worked on the bands, about some of the new gear out. True the sun spots have not made their magic as expected but maybe we are missing the boat? Lets get busy and actually get on the air and DX more. We offer as a club the California Award, its really sought after by real DX and if we need to talk about it or inform those that we work on the air that we are proud members of the NORTHERN CALIFORNIA DX CLUB and that we will "QSL to them so that they can work for the Award" or many will never learn about it. We need to get out there and promote that we are members of the Worlds First Incorporated DX Club. Hey we have been around since October of 1946, and we are damn proud of it!

*73, Dick Letrich - W6KM  
 President, NCDXC*

## General Meeting

NCDXC general meeting of August was held Friday, August 14, 1998 at the Palo Alto Golf Club. After the usual libation period, small talk, dinner, the business meeting was called to order by president Dick Letrich, W6KM at 8:05 P.M. Guests were introduced and the resignation of board member Dave Earnest, K7JJ, was announced. But Dave will continue (we hope!) as editor of the DXer. The appointment of Ron Panton, W6VG to fill the board vacancy followed. The associate membership of Andreas Junge AD6FQ was approved by the members. Welcome Andreas, extra class associate.. The reports of the treasurer and secretary were voted to be approved as printed in the DXer. George Allan W6YD was introduced as the chairman of the 1999 DX convention in Fresno. George announced that the pre-registration price would be \$60, and on-site would be \$65. KA6C noted that many members were/could be, receiving their DXer via E mail and maybe a list of such members could be made. Dave Earnest and Ron Panton have been working on such a list, but it means members must make their wishes known to address label maker, W6VG. (preferably by E mail, w6vg@aol.com) The large group of members were treated to a lively, knowledgeable talk on seismology by Dr. Bob Uhrhammer, WB6VEX. Bob certainly knows and loves his subject. No slides, just talked, very interesting facts about quakes. Too much to mention here. I know the attending members enjoyed every minute of Bob's presentation. Bob has doctorates in too many fields to remember. Meeting adjourned at 9:45 P.M.

Ron Panton, W6VG, acting secretary.

### International DX Convention

Fresno, CA April 9-11, 1999

Room Reservations, \$83.00

209 268-1000 M-F 9-5PM

<http://www.amateur-radio.org/ncdxc>

Pre.-Registration via: Gordon, W6NW

### Belt Buckle

I have been asked by several over the last couple of years, "Where did you get your belt buckle with your call sign on it." So I would like to share this information with you if you should want to order one. I first found out about this company from an ad in the WORLD RADIO. The name of the company is CURIOSITY SALES / LAKE REGION AWARDS, 211 Main Street, Norway, Maine 04268, they have an 800 number and it is 800/426-4561. The belt style that I ordered was #242 of solid brass to fit a 1 3/4" belt and the cost was a fair \$12.95 plus shipping. They have other styles and sizes so you may want to call or write to them for further information. I sure like mine and of course I am as proud of my call as can be.

GUD DX es 73. Dick W6KM

## Treasurer's Report



Ted Park, K6XN. Treasurer.

Treasurer's report not available this month.

### Meeting Night Comments

Hello Dave, this note is in response to your request in the Dixer about comments regarding meeting night. I have stated my reasons before about changing the meeting night and was around for the vote taken some time ago in which the Friday night had the most individual votes. However, the total votes for a different day exceeded the Friday vote. Friday is a getaway day for many with weekend activities. Some are returning from job assignments or have late deadlines to meet. Additionally, meeting on a night other than Friday it is easier to secure restaurant locations if we decide to move the meeting around for our distant members. Traffic conditions on Friday seem to be getting worse. I think the board should review and decide which would be the best interest of club and take action. A phone call poll could be organized to get further input and would be of little cost to the club.

Yes, I am biased towards another date other than Friday because I like to attend meetings and it is getting to be more of a chore to make the Friday night date. I urge others to think of the advantages of meeting on a night other than Friday. However, if Friday becomes the night of choice I will still attempt to make as many meetings as possible.

Bill de W6TEX sk ..

*(So far, Bill is the only member who has voiced an opinion regarding meeting nights. I favor a different night, as well, to free up the weekend, which in my opinion includes Friday. I think the BoD should consider a change of nights and venue for our meetings.....  
tnx, Dave K7JJ)*

## HA Expedition to Mongolia (thanks to Garry, NI6T, for the QSP)

JU1HA/JT1X

On May 18th when flight SU-132 took off from the airport of Budapest, our adventure to JT had finally begun...

The idea for the expedition was found by Laci HA0HW and Sanyi HA7VK many years ago after Sanyi had returned from Cambodia. Years later the visit of the Mongolian Prime Minister to Budapest had given us the opportunity to establish the relationship and to set up the basis for the expedition. Our team was formed in early 1998 and consisted of Laci HA0HW, Zoli HA1AG, Tamas HA4GDO, Geza HA4XG, Laci HA6NL, Gabor HA7SK and Sanyi HA7VK.

In February 98 we attempted to get in touch with the Mongolian radioamateur clubs and their national organization (MRSF) several times. As we were told later in Mongolia these letters were not received since the Internet is not

really reliable in that part of the world. After numerous attempts we asked H.E. Mr. Bela Torocsik, the Hungarian Ambassador to Mongolia to contact the relevant Mongolian authorities. After several fax and email messages we found we could get a license, which included all the conditions of operating an amateur radio station in Mongolia. By this time we had most of our equipment sent to Mongolia and the 7 plane tickets had to be paid earlier as well. Seeing the license fee we were shocked - it was almost 1200 USD instead of the foretold 18 USD...

On the same day we received a letter from the Mongolian Radiosport Federation where they informed us that in 1998 it was not possible to give a license to us. The very next day we received another e-mail with the description of the application process... Having a license issued to us by the Departement of Commnications for the Ministry of Development we departed from Budapest on 18th of May. Our equipment was packed into 11 boxes and weighed 300 kgs.

After a transfer in Moscow and a refueling stop in Novossibirsk we arrived in Ulan-Baatar on Tuesday morning at 10 o'clock local time. Aeroflot provided us a great amount of help with the flight arrangements and with customs in Budapest. In Ulan-Bataar the customs officer took a scared look at the pile of boxes and the long list of mysterious equipment types and serial numbers and decided to let us enter immediately.

Our QTH was in the heart of Ulan-Baatar (UB), right on the main street, 150m from the building of the Mongolian Parliament. UB is 1350m ASL, located in a deep valley surrounded by 2500-2800m hills blocking the low angles up to 10-13 degs. The soil is extremely dry rocky sand.

The small diplomatic group greeted us very warmly and gave us tremendous assistance during our entire stay. We immediately started to install the antennas, first the giant Titanex lowband vertical. I can still recall the face of the gardener when he first saw the antenna erected in the middle of his garden. The HY-Gain DB1217 duo-bander was assembled in about an hour and mounted on a 6m long waterpipe. After some trapeze artists work we put this on top of the guesthouse's roof at 12m height. HA0HW's 40m vertical was mounted on a chimney at 10m height as well. A 80m, 40m backup-dipoles were installed as well as a backup triband WARC vertical made by HA4XG. HA7VK installed cable extenders to the logper Yagis. By the evening we had the following antennas: 6-30 MHz logper Yagi at 25m, 13-30 MHz logper Yagi at 25m, HyGain DB1217 for 12 and 17m, Titanex V160E for 160,80,40m; 1/4wl vertical for 40m, WARC-GP for 30-17-12m and dipoles for 80 and 40m at 25m height.

We had no rotator for the DB1217 so someone had to take a ladder and climb the top of the guesthouse and turn the antenna himself. The guards on the neighbouring construction site were well entertained when right after sunrise he saw someone running out from the guesthouse like crazy climbing the ladder, balancing on the roof and rotating the antenna by hand.

The same evening the first QSO was made (JA2KTK) on 20m CW. The pile-ups were immense especially on the WARC bands, the last 10 rate often exceeded 300. The propagation didn't let us smile up - most stations were copied just over the noise level. In addition we had severe local interference, which made copying callsigns almost impossible. We installed some more additional antennas, the linears and all three stations could have operated continuously on any of the open bands if we hadn't had been jammed. We sadly noticed that certain radioamateurs (mainly the members of the JT1JA (Mongolian Japanese Radioclub) questioned the validity of our license issued by the relevant Ministry. On the evening of May 20th they asked us to immediately stop operating and set up a meeting. Although it was not clear for us how could a citizen question the validity of the license issued by a government body but after being interfered for a day we decided to give it a try.

At the first meeting where HA1AG, HA4GDO and HA7VK represented our team and JT1CO, JT1BV the locals, we couldn't get an agreement but after more discussions both groups understood the root of the problems and agreed to make a compromise: our expedition will stop using the JU prefix, which aimed to reserve for natives and change it to something else. On May 22 we finally got our new license as JT1X. To boarden the expedition objectives we invited two young Mongolian radioamateurs - JT1CJ and JT1CM - into the team. Except at the sunset/sunrise peaks the signal levels were much below our expectations. The propagation was very poor compared to the weeks prior to our departure. The reception was made even more difficult by the static and man-made noise. The man made noise came mainly from the improperly maintained powerlines which were almost excusevily air-wires. On windy nights we could see many insulators and wire connections and

*go to next page*

arcng in the neighborhood. The static was unbearable on the lower bands.

In order to cope with the noise we built several receiving antennas: low-dipoles, EWEs, finally a 150m long Beverage antenna right across the garden. In the final days of our operation with all the antennas and radials the garden looked like a scenerio for a war movie.

We set up a time schedule for the stations. We had 4 hour shifts and every op had to do 3 shifts a day. The schedules were arranged by HA0HW and HA6NL who besides operating 30 and 40 CW served as our cook. He did great in both: some operators gained 2-3 kg's (4-6 lbs) during our stay.

On May 29 we took a day "off" and went to a National Park near Ulan Baatar. The area is famous for the rock formations and dinosaur fossiles found there. The landscape was extremely beautiful and due to the fresh air we felt really hungry at the end of the day.

On RTTY we used NI6T's fine-tuned PK232. Unfortunately we missed some good openings during the first week due to the QRT-periods therefore we had less time for RTTY on the second week. The Italian team did a very good job in RTTY in April - the demand was much less then expected for RTTY QSOs. Most of the sked requests came from South America.

The last QSO was made on June 2 on 40m with OK1KSF.

After 10 days of operation we ended up with 23143 QSO's with the following breakdown:

Band	CW	RTTY	SSB	Band totals
160	67	0	0	67
80	461	0	31	492
40	2566	0	148	2714
30	3713	0	0	3713
20	6274	323	2190	8787
17	3351	0	1311	4662
15	1804	0	613	2417
12	207	0	11	218
10	27	0	0	218
Mode totals	18508	323	4311	23143

During the CQ WPX CW contest we made 2351 QSOs and the claimed score is 3.6 million points.

After clarifying some misunderstandings on both sides we established good relationships with some local radioamateurs - Khos JT1CD and May JT1CM - along with Mr. Ganbataar who is the president of the Mongolian Radiosport Federation and the Mongolian Telecom. Our host H.E. Mr. Bela Torocsik, the Hungarian Ambassador to Mongolia held a dinner for us and the MRSF and ministry officers. This evening we had the opportunity to introduce our station and technology to our guests. We were honored by the invitation of Mr Ganbataar to a dinner in an exclusive hotel near to Ulan-Bataar. Our hosts arranged a very nice evening for us: traditional Mongolian dishes were served and dances were performed.

Besides the amateur radio operation we tried to see as much as possible of the country. The crew members who didn't have shifts spent most of their time exploring the city (besides constructing lowband receiving antennas). It was funny to see them leaving in the morning in heavy coats and then T-shirts in the afternoon. The weather often went to the extremes: on the first day we got sunburnt while we ere putting up the antennas and a week later the flowers in the garden were covered by frost and it was snowing for an hour or so. We experienced a famous Mongolian sandstorm: the wind starts to breeze in minutes and blows the fine sand and dust. The once shiny tubes of the Titanex verticals were polished up by the sand and lost their shine completely in the two weeks.

On the last evening our team visited Khos JT1CD at his QTH where we experienced the traditoinal Mongolian hospitality. Hopefully we can establish relationship on other fields like ARDF or HST contests as well.

The last hours were spent packing and repacking. Tuesday morning we found ourselves at the airport again where we could shock some security officers with our boxes again. The flight back took much longer this time - we had a 19 hour wait in Moscow, which we spent with creating plans about for next DX-pedition ...

With this expedition we wanted to commemorate those who started this great hobby in Hungary early in this century and the 70th anniversary of the Hungarian Radioamateur Society and to raise the profile of the Hungarian Radioamateurs.

### In Computer Heaven

**The management is from Intel  
The design and construction is done by Apple  
The marketing is done by Microsoft  
IBM provides the support  
Gateway determines the pricing**

### In Computer Hell

**The management is from Apple  
Microsoft does design and construction  
IBM handles the marketing  
The support is from Gateway  
Intel sets the price**

QST de W1AW ARRL Bulletin 55 ARLB055 >  
 From ARRL Headquarters Newington CT August 7, 1998  
 To all radio amateurs  
 SB QST ARL ARLB055 ARLB055  
 FCC's streamlining proposals due out soon.

The ARRL has learned that the FCC very likely will release its anxiously awaited "streamlined" Part 97 Amateur Service proposals sometime during the week of August 10. The document, part of the Commission's 1998 Biennial Regulatory Review, was adopted July 29, but it's undergoing some last-minute tweaking prior to public release. Editorial fine tuning like this following FCC adoption of a document is part of the normal process and not considered unusual.

Details of the FCC's license restructuring or Morse code testing proposals still are not available. The Notice of Proposed Rule making (NPRM) will carry WT Docket No. 98-143. It's expected that the FCC will use the NPRM to respond to some outstanding amateur rules-related petitions, including RM-9196, which proposed changes in the administration of CW tests to handicapped individuals. The ARRL will release details of the NPRM via a W1AW bulletin and on the ARRLWeb (<http://www.arrl.org>) as soon as the information is available. It's expected that the FCC will post the complete set of proposals on its Web site, <http://www.fcc.gov>.

Word is that the FCC will provide an extended period—something longer than the typical 30 days—for the amateur community to voice its comments on the proposals, and additional time also will be provided for reply comments. The ARRL released its own Amateur Radio licensing restructuring plan last month.

*Check your September 1998 QST for more information on the ARRL licensing proposal, as well as FCC NPRM news.....Editor*

Charter Members

- |                  |            |
|------------------|------------|
| 1. Bud Walton    | W6AED s.k. |
| 2. Jack Holmes   | W6BUY      |
| 3. Mario Chirone | W6DUB      |
| 4. Charles Henry | W6EJA s.k. |
| 5. Phil Caldera  | W6IKQ s.k. |
| 6. Reg Tibbetts  | W6ITH s.k. |
| 7. Bud Downey    | W6QLH s.k. |
| 8. Horace Greer  | W6TI s.k.  |
| 9. Elvin Feige   | W6TT       |
| 10. Ray Brennan  | W6UPV s.k. |

Life Members

- |                      |            |
|----------------------|------------|
| 1. Ron Panton        | W6VG       |
| 2. William Winnegar  | N6UW s.k.  |
| 3. William Vwtte     | K6TXR s.k. |
| 4. Joel Gambord      | KT6J       |
| 5. Iris Colvin       | W6QL s.k.  |
| 6. Llyod Colvin      | W6KG s.k.  |
| 7. Larry Bloom       | KD6XY      |
| 8. Jack Troster      | W6ISQ      |
| 9. Ron Hill          | K6UR       |
| 10. Chuck Patterson  | K6RK       |
| 11. Norman Brooks    | K6FO       |
| 12. Gordon Girton    | W6NW       |
| 13. Eric Edberg      | W6DU s.k.  |
| 14. Dick Letich      | W6KM       |
| 15. R.C. Smithwick   | W6JZU      |
| 16. Len Gerald       | K6ANP      |
| 17. Louis Beudet     | K6TMB      |
| 18. Bob Thompson     | K6SSJ s.k. |
| 19. Walter Johnson   | W6MZQ      |
| 20. Hal Godfrey      | N6AN       |
| 21. Jim Knochenhauer | K6ITL      |
| 22. Dick Le Massena  | W6KH       |
| 23. Ted Algren       | KA6W       |
| 24. Gene Pera        | W6DOT s.k. |
| 25. R.W. Johnson     | W6MUE s.k. |
| 26. Preston Hotz     | K6WD       |
| 27. E.D. Stephenson  | W6MKM      |
| 28. Roger Melen      | WB6JXU     |
| 29. William Stevens  | W6ZM s.k.  |
| 30. Stan Kuhl        | K6MA       |
| 31. Robert Wilson    | NQ6X       |
| 32. Rich Carbine     | W6UDS      |
| 33. Lee Williams     | K6IME      |
| 34. Sam Canter       | W6TSQ s.k. |
| 35. Glenn Koropp     | W6YFW s.k. |
| 36. Gerald Griffin   | K6MD       |
| 37. Louese Bloom     | KA6ING     |
| 38. Davic Pugatch    | K16WF      |
| 39. Vincent Chinn    | W6EE       |
| 40. John Brand       | K6WC       |
| 41. Frank Holst      | W6ZKM      |
| 42. George           | K16CG      |

73 Gordon, W6NW

In Computer Heaven:

The management is from Intel,  
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In Computer Hell:

The management is from Apple,  
 Microsoft does design and construction,  
 IBM handles the marketing,  
 The support is from Gateway,  
 Intel sets the price.

**Dave's Nostalgia Page**



**DX4BRD/S**

"I wonder if Gus ever operated from here?"

*Remember this Collins Ad from the 1960's? This was good stuff. Gus did all this neat stuff without computers, satellites and a big organization. I still need Glorioso!.....Editor*



**WELCOME HOME, GUS!**

**EXPEDITION:** Gus Browning, W4BPD • **NUMBER OF CONTACTS:** Over 200,000 • **PARTIAL LIST OF COUNTRIES:** Monaco, 3A2BW • Seychelle Is., VQ9HB • Seychelle Is., VQ9A • Assumption Is., VQ9A/AN • Comolodo Is., VQ9C • Aldabra Is., VQ9AA • Mobile at Sea, VQ9A/MM • Aldabra Is., VQ9A/7 • Chagos Is., VQ9A/8C • Diego Is., VQ9A/8C • Rwanda, Africa, 9U5BH • Burundi, Africa, 9U5ZZ • South Africa, ZS6IF/ • Swaziland, Africa, ZS6IF/7 • Basutland, Africa, ZS6IF/8 • South Africa, ZS10U • Tristan Da Cunha, ZD9AM • Bouvet Island, LH4C • Durbin, So. Africa, ZS5JY • French Somaliland, FL5A • Reunion Is., FR7ZC • Reunion Is., FR7ZI • Comoro Is., FH8CE • Comoro Is., 5R8CE/FH8 • Tromcka Is., FR7ZC/T • Europa Is., FR7ZC/E • Gliricewes Is., FR7ZC/G • Juan De Nova Is., FR7ZC/J • Aden, VS9AAA • Kuzaran Is., VS9KDV • Yemen, W4BPD/4W1 • Bhutan, AC5A • Tibet, AC5A/4 • Sikkim, AC3PT • Nepal, 9N1MM • Afghanistan, YA1A • Aden, VS9ASS • Bhutan, AC7A • Kenya, VQ9HRR • Malagasy Republic, 5R8CM • Mauritius, VQ8A1 • Yemen, MP4QAR/4W1 • Laos, XW8AW • Peoples Republic of China, XW8AW/BY • Kuria Muria, VS9HAA • **EQUIPMENT:** Collins S-Line: 325-3 Transmitter, 75S-3 Receiver, 30L-1 Linear Amplifier, CC-2 Carrying Cases for each, PM-2 AC and MP-1 power supplies.

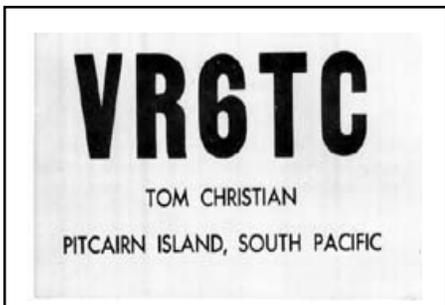


See Gus' equipment at your next ARRL division convention.



**W6HUQ/MM & Tom, VR6TC**  
(now K7JJ)

Aboard USNS Watertown, while visiting Pitcairn, Sept. 1970



**Needed - your nostalgic items. Photos, stories, etc., anything you would like to share with us. Messiest ham shack, most efficient station layout, wierdest home made antenna - whatever.**

