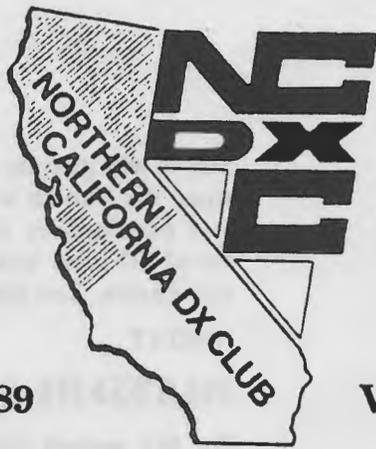


THE



DXer

December 1989

VOL XLII - NUMBER 12

Nakhi chevan



*Vagomo
Korabekstaya*

NORTHER CALIFORNIA DX CLUB, INC

The NCDXC DXer

December 1989

VOL XLII - NUMBER 12

December Events

Dec 8 - NCDXC Meeting Los Altos.

Dec 9 - Arrl 10M Contest.

Jan 12 - NCDXC Meeting Palo Alto.

Meeting Notice: Friday the 8th will be the next meeting of the NCDXC. **The meeting has been moved to the Royal Palace restaurant in Los Altos** (see following articles). The meeting will start with no host cocktails at 6:00 PM. Sit down dinner will be served promptly at 7:30, with our program and business meeting getting underway about 8:45. The outstanding program is described in the next article.

DECEMBER MEETING

Wow, do we ever have a treat in store for us at the December NCDXC meeting! As you all know, we decided not to have a club Christmas party this year. Nonetheless, the Board still wanted to have a special meeting with a holiday flavor where it would be fun to treat spouses and significant others to a nice evening out. Well, we've got it in spades!

Many of you know Greg Jenkins, N6GJ, as one of the operators from the 1985 FO0XX DXpedition to Clipperton Island. Well, in addition to amateur radio, Greg has a real passion for sports and photography. Greg, along with his wife, Olympic Gold Medalist Peggy Flemming Jenkins, helped conceive and produce a spectacular program entitled the "Caress Symphony of Sports" which was featured on ABC's Wide World of Sports and which has been shown locally on several of the PBS stations. The Symphony is a beautifully photographed, daring and innovative synthesis of Olympic and world class gymnasts and figure skaters performing to classical and contemporary music. It's show business, dance, acrobatics, balance and strength filmed at Vail, Colorado.

Greg has agreed to edit the TV version of the Symphony specially for us, and to supplement the video with his own 35mm slides of what went on "behind the cameras." Not only does Greg's program promise to be beautiful and entertaining, but

also it will give us a first hand opportunity to learn what it's like to work with the personalities, egos and peculiarities of some of the world's most talented athletes and performers. Bring your family and guests. You don't want to miss this one.

W6OAT

JILTED BY HARRY'S...

For the second time in 60 days, the NCDXC has been jilted by Harry's Hofbrau in Palo Alto. On Wednesday, November 22, W6OAT received a call from the manager of Harry's saying that they had "accidentally" booked a wedding party on December 8th, and that we'd have to go elsewhere for our meeting. This, by the way, was the very same manager who, after "forgetting" to put us on the schedule for the October meeting (because the East Palo Alto Police Department wanted to meet there that night), called Rusty and told him that she herself had personally reserved the second Friday of each month for the rest of the year for the NCDXC. As she explained, "it's a new catering staff..." As Rusty learned upon questioning her, "It's a paying wedding party" What can we say but...

.... HELLO BY (as in China BY)

Ever try to book a dinner meeting for 75 to 100 folks on a Friday night two weeks before Christmas? It ain't easy!! Nonetheless, Gary Kwong, manager of the Royal Palace restaurant in Los Altos could not have been more gracious or accommodating for us. If Harry's Hofbrau doesn't want us, the Royal Palace certainly does. In fact, not only does Gary want our December meeting, he said he hopes to put on such a show for us that we'll schedule all our regular meetings next year at the Royal Palace.

Here's the menu Gary has proposed for our December 8th soiree: Spring rolls and pot stickers as appetizers followed by eight precious diced winter melon soup, Peking duck, crispy fried chicken, stir fried prawns with broccoli, Mongolian beef, sweet and sour pork, rock cod with sweet and sour sauce, and young-chow fried rice all topped off by coconut pie for dessert. Total price, tax and tip included, will be \$19 per person. We'll have our own private dining room upstairs and our own private bar. Knowing DXers, Gary says the bar tender will be "in residence" from about 6:00 p.m., so feel free to come early! Sit down dinner will be served promptly at 7:30, with our program and business meeting getting underway about 8:45. NCDXC will

write the restaurant a single check for the meal. This means we'll need to collect the dinner price from each of you. We'll set up a table somewhere in the room where we can settle all the financial accounts, so be sure to pay your regards (cash or check) to el Treasurer before dinner gets underway.

The Royal Palace is located at 4320 El Camino Real in Los Altos, at the intersection of El Camino Real and Los Altos Avenue. That puts it on the west side of El Camino exactly 0.3 miles north of San Antonio Road or 1.8 miles south of Page Mill Road/Oregon Expressway for those of you who relate everything to exits off the 101 or 280 freeways. Call the restaurant at (415) 941-8818 for directions if you still get lost. Chopsticks ready!!

W6OAT

Visalia

1990 International DX Convention April 6, 7, 8 (the first weekend in April). Pre-registration is \$40.00 made payable to:

International DX Convention
c/o Don Bostrom, N6IC
4447 Atoll Ave.
Sherman Oaks, CA 91423

Deadline for Pre-registration is March 23. Late registration is \$45.00.

Gary Pesselt, WB6PSY for the SCDXC

de KE6ZE

The holiday season is upon us. May the Bureau mail bring you new countries, your propagation be favorable and may Santa bring you that new piece of gear you "need". The DXer staff and your Board of Directors wish you all a merry Christmas and happy and prosperous New Year.

In this month's DXer is a pullout for yet another DX activity. Steve, WC6I and Morris, N6DJM have provided a map and lists for USSR Oblast chasing. Working different Oblasts is becoming a popular activity and this information should make the task easier for us all. Also in this issue Larry, KD6XY has also provided an update of the DX ladder. Those of you on the ladder update your status and those of you not listed send Larry a list of your standings. It gives those of us off the bottom something to shoot at.

This is the last DXer for a while that your current editor will be preparing. Activities at work and taking a class in the evenings have finally caught up to the amount of time available. This has been an enjoyable year and a half and I have found the job to be immensely rewarding.

One of the not trivial things that make the DXer's editor job easier is the help of two DXer staff members. Maybe some of you folks have noticed that Martin, KB6BW and Ron, W6VG are listed in the credits column. Well, Martin keeps the club roster data base and runs a last minute up-to-date copy of mailing labels for the DXer and Ron takes the camera ready DXer, makes up the outside cover, gets the 300 or so copies printed and then labels, stamps and posts the DXers. Without the help of these two guys, the DXer just wouldn't make it out.

Regards, Dave

Position Available

Short hours, make friends around the world, gain new respect down at Harry's, contribute more to NCDXC membership than dues. Take on the NCDXC editor's job.

The editor's job for the DXer is pretty much a real editing job. With all of you readers contributing there are more than enough articles for each month's issue. The only writing the editor does is the calendar, meeting introduction and the editor's column. The NCDXC pays a typist to key in all the material that is not received on computer disk or via packet. With the help of KB6BW, W6VG and a typist the DXer can be taken care of in one to two evenings a month. A replacement editor has not been found. If you have a personal computer at home or work and can spare 1-2 evenings a month then please give Rusty, W6OAT a call. You will find the job to be quite rewarding.

RUSTY'S RAMBLINGS

I want to use this month's Ramblings column to talk about two local lawsuits which involve amateur radio. Underlying each is a principle which I believe to be of paramount importance to our avocation, and of particular interest to DXers.

The first case involves our own Uncle Vern, W6ERS. Vern filed his lawsuit after the City of Burlingame denied him a permit to erect an antenna atop a 51-foot crank up tower. I'm skipping lots of the details here, but in substance, the judge ruled the City had failed to make the "reasonable

accommodation" for amateur radio required by PRB-1 and sent the matter back to the City Council for further work. The City thereafter folded and decided to issue Vern the permit he had applied for over a year ago.

While this sounds like a nice victory, it belies the fact that Vern has incurred over \$25,000 in legal fees just to get Burlingame to do that which it was supposed to do in the first place. Vern asked the court to award him reimbursement for his attorney's fees, but the judge denied his request saying instead that each side should bear its own costs. Vern now must decide whether to write off the twenty five grand or to appeal the judge's denial.

Look where this brings us. Joe Ham applies for a permit to put up an antenna. City denies it. Joe and City go to court. Joe spends \$25,000; City spends virtually nothing (because it is represented by the City Attorney whose salary already is paid by the local taxpayers). Joe wins, so City issues the permit and has no further monetary risk.

It won't take long for cities to realize that this process essentially is an "all to win, nothing to lose" proposition for them. If they don't want antennas within their borders, they can use simple economics to frustrate the mandate of PRB-1. Most hams can't, or won't, spend the money needed for a court challenge given the other demands in their lives. So, the tactic becomes one of denying the permit request initially, and if the ham is willing to pay the cost of getting a court order, then issuing it! Amateur radio becomes a rich man's hobby. In the future, who's going to be there to answer Donald Trump's CQ?

The second case involves Jim Rich, WD6CJB, who lives in Foster City. Jim's case, like Vern's, has many aspects which I'm not going to touch on here because I want to concentrate only on the issue of CC&Rs (i.e., Covenants, Conditions and Restrictions) which is at the heart of this controversy.

About the time the land on which the present-day City of Foster City sits was being dredged up out of the Bay mud, the developer placed deed restrictions on every parcel of property destined to be used for single-family residential housing. These restrictions prohibit the use of any type of outdoor antennas which will not fit under the eaves of the houses. Thus, there are today virtually no outdoor antennas of any sort in all of Foster City.

Jim wants to erect a 54-foot crank up tower with a small tribander on top. His neighbors have sued for an injunction and damages, citing his application to the City for a use permit as proof that he intends to violate the antenna restriction clause of the CC&Rs.

PRB-1 preempts only laws and ordinances enacted by state and local governments. Normally, it would not apply to purely private contractual matters like CC&Rs. The issue in Jim's case, then, is whether or not the CC&Rs in Foster City are so pervasive as to be a substitute for a municipal zoning ordinance rather than being just a private contract. If the court rules in Jim's favor, PRB-1 probably can be used to invalidate the antenna prohibition in the CC&Rs. Otherwise, subdivisions or even entire cities can effectively exclude HF DXing by prohibiting outdoor antennas.

How serious is the CC&R issue? In a survey conducted by Wayne Overbeck, N6NB, in which he studied the CC&Rs of 23 new housing developments in California, Colorado and Texas, Wayne found restrictions on antennas in 21 of them. Are DXers to be banished only to older neighborhoods which don't have CC&Rs? What about our need to get younger people involved in amateur radio? These are the very people likely to be trying to purchase their first homes in new subdivisions -- all of which will prohibit antennas! The implications for our hobby are ominous.

So, what's this all mean? Personally, I think it means that Vern and Jim are fighting as much for us as they are for themselves. The outcomes of their cases are likely to establish precedents which will help shape the future of amateur radio. Neither Vern nor Jim is independently wealthy -- they can't wage these battles all on their own. They need our help and they need our money. If you wish to lend a hand, please get out your checkbook and write generous donations to Vernon Howard, W6ERS (733 Plymouth Way, Burlingame, CA 94010) and to James E. Rich, WD6CJB (768 Crane Avenue, Foster City, CA 94404). Let's do our part to help them win these two important cases.

73, Rusty

NCDXC Meeting

There was no BOD meeting in November, due to the absence of both our president and vice president.

The November, 1989 regular meeting of the NCDXC was held at Harry's Hofbrau in Palo Alto. Jerry, W8MEP presided, in Rusty's and Larry's absence.

Raffle prizes were double the normal because there was no raffle at the picnic due to poor attendance. We hope to have a report on the picnic by Steve, W6MKM, in the near future. After the raffle, Jerry opened the meeting.

Items:

1. A first reading was held for Stacy "Ace" Jansen, N3AHA, age 26 of San Jose. "Ace" is employed by the U.S. Air Force as an electrical engineer, was first licensed in 1978 as WB3LLX and now holds an extra class license. He is being sponsored by W6CF and W6ISQ.

2. A second readings, affirmative, was held for KB6NLO.

3. The membership voted to reinstate W6CYX, W6EMD and K6DR.

4. Guests at the meeting were John, KA6LWC; Ralph, K6ZA; Jan, K6BZS and N6BOV (lost name in QRM).

5. An update was given to W6CF's prognostications on new DXCC countries; apparently, the DXAC will vote on a whole list of possible new ones on Nov. 15. The list includes: Frederick Reef, Conway Reef, Banaba Island, Marquesas, Austral Islands, Tatoosh Is. (Washington!) and Guemas Island (also in Washington - what ever happened to the Puyallup Indian Reservations?).

6. The main event was the slide presentation by Ted harris, N6IIU, on Hurricane Hugo damage and disaster communications on Montserrat. He also had a few slides of the Loma Prieta Quake's damage in San Francisco and some shots of the Red Cross operations there and in Watsonville. It was a fine presentation, with some pretty dramatic pictures of the results of Ma Nature's wrath.

7. Lou, K6TMB, confirmed the dates of the XW'8 upcoming DXpedition and said they would also attempt Spratly. Bob, K4UVT, gave contest info.

8. Dave, W6QHS, handed out his yearly calendars during the pre-meeting fellowship hour.

9. Jerry closed the meeting at approximately 2130.
*Respectfully submitted, Dave Barton, AF6S,
Secretary NCDXC*

Treasurer's Report

Nov 1 to Nov 30, 1989

Northern California DX Club DXer

Checking Account Activity

October 1989 E.O.M. Balance	\$7,453.89
Deposits from Dues	\$227.00
Other Receipts	
\$342.00	
Subtotal	\$8,022.89
Accounts Payable	<u>\$965.37</u>
Current November 1989 E.O.M. Balance	\$7,057.52

Savings Account Status

Bank of America as of 10/18/89	\$12,355.00
Includes QSL Reserves	
American Savings as of 9/23/89	\$8,194.68
One year C.D. @ 8.65% matures 7/24/90	

Stan Kuhl, K6MA, NCDXC Treasurer

Interference

There is a repeater operating only fifteen kcs below our repeater on 147.345, as some of you know. It is located at about 300' in the eastern foothills of San Jose and runs about one watt. Our repeater of course bothers its users. I have been in contact with the owner and he has told me that he has taken several steps to minimize interference to the DX repeater. He has reduced power, cut the deviation to only 3 kcs, discourages its use for general rag chewing (he uses it mainly for experimentation, he told me), and usually turns it off at night. I have had very few complaints about it since these steps were taken. I will continue to work with him to minimize mutual problems are are bound to arise with only fifteen kcs separation.

de Smitty, W6JZU

Repeater Use and Abuse

Rusty, W6OAT, recently received a letter from an NCDXC member expressing his views on repeater use (or mis-use!). A few of his comments are excerpted here:

The repeater is my pet complaint. It's difficult for any repeater user to "cast stones," but it might be time for the NCDXC leadership to say something, i.e. sanction, members who simply are chit-chatting on the repeater, or who seize every opportunity to needlessly orchestrate any announcement, or to "broadcast" that they've just put the cat outdoors. I can well understand why a growing number of members are "going packet" and it seems it's simply not because it's a better or a more efficient way to capture DX. Might I suggest that if the

NCDXC leaders choose to sanction -- and I am proposing that they do -- then it be done as a discrete "slap on the wrist" ... perhaps a phone call or a note to the member. None of us are repeater policemen or should be, but enough is enough. Perhaps in this vein, an announcement or request could be placed in *The DXer* stating what the repeater is to be used for and what it is not to be used for. It could be that all of us need to be reminded annually.

Packet Network Q&A

By Dave Barton, AF6S

The DX Packet Spotting Network is, without any doubt, a great boon to DXing, yet many club members aren't on packet yet. This article is for those who have been holding back; those who are not quite ready yet to make the leap. The reasons could be that you (a) aren't convinced it'll do much for you, (b) just haven't taken the time to find out about it (c) did find out, but are unimpressed, (d) are reluctant to allow yet another new technology to unsettle your life (as SSB and 2m FM did in earlier times), or (e) are on a limited ham equipment budget. Let me answer a few of the questions a DXer might ask about the network; mostly what it does and how one uses it and what equipment is needed, not how it works. Let's put it in Q&A form.

Q. What **advantages** does it have compared to a voice repeater, such as W6TI?

A. 1. You can make a DX announcement *immediately*, without waiting for the current traffic to clear.

2. You can see any number of *previous* DX announcements, including call, frequency and other information, *even if your equipment was not on when the announcements were made.*

Q. Does it have any **disadvantages**, compared to a voice repeater.

A. Yes, a big one: *you have to be in the ham shack to see the information.* You can't monitor while you're out in the yard (well, maybe with the right equipment, but let's keep it simple).

Q. It seems that there are many **more announcements on packet** than on voice. Are packet people holding out on us?

A. No, and I see three reasons for the large number packet announcements: (a) many packet users are not members of NCDXC, (b) many are beginners, so you see a lot of HA's, VK's, etc. listed that club members would be embarrassed to announce on W6TI and (c) with the best intentions, you sim-

ply forget to make an announcement by the time you notice that the all-too-common ragchew on W6TI is over.

Q. Is the packet network is **bringing new hams into DXing?**

A. *Without any doubt;* "packet-rat" VHFers who never dreamed they would be interested in HF (or 6m) DX are learning about it, and becoming interested in it, by monitoring the network.

Q. Is DX packet use **limited to DX announcements?**

A. *No, that just the start.* As the network control software is continually upgraded, new services keep coming "on-line". Some of the other information available now: WWV reports, QSL info, last time and frequency a given DX call was reported, bulletins, general information announcements, MUF predictions, sunrise and sunset times at any DX location and personal messages.

Q. You can send **personal messages** to others on the network?

A. *Yes, and the recipient doesn't have to be around at the time.* The next time he or she "connects", a screen prompt will show the subject of the message and who it is from.

Q. What if you just want to pass a **quick comment** to someone else who is currently connected? Must you go through the formality of putting together a message?

A. For that, you use "talk" mode. You just type *talk* followed by his or her callsign and your comment. The comment, along with your identification, will appear on that person's screen (you enter ID info only one, the first time you "connect").

Q. **Do I need a computer**, to use packet?

A. No, and if you have a PC in your shack, there are better duties for it than monitoring packet. What you need is an "RS232" (dumb) terminal.

Q. **What's a TNC?**

A. Well, it stands for Terminal Node Controller, but to you and me its a small box you buy that you hook up between the terminal and a 2m radio. Some multi-mode, full-featured TNCs are quite expensive, but an entirely adequate TNC for the DX network can be bought for about \$120 (brand new, built and tested).

Q. Do I need to be "**computer literate**" to use packet?

A. No, not as a user. You do need to learn some command words in order to make the TNC and the *Northern California DX Club DXer*

packet network do what you want. These are explained in your TNC's manual and in K6LLK's free "Packet Cluster User's Manual". One example: to see the five most recent DX announcements, you type *show/dx*. It's not at all difficult and you can start simple and learn shortcuts, etc. later.

Q. Should I use a **separate 2m radio** and antenna for packet?

A. *Yes*, because you will want to monitor both packet and W6TI simultaneously. However, any 2m FM radio will do, so you can dust off that old crystal-controlled relic in your junk box.

Q. What kind of **2m antenna** do I need?

A. Packet is unforgiving of multi-path distortion. By all means, try a simple vertical first, but if you have multi-path problems, you may need to put the packet rig on a beam with a rotator.

Q. **Who spent all the time and money** to make this possible?

A. Several NCDXC members have contributed, but here in the South Bay area, *John, K6LLK's effort stands far above the rest*. He has several thousands of dollars and a huge amount of his time invested in the system, which is free for all to use, in the best ham radio tradition.

Q. **What connection** is there between the packet DX net and NCDXC?

A. None, except that some of the hams who provide and use the service are NCDXC members. The club's own resources, financial or other, have never been involved in the packet system.

Q. **Is packet fun?** Do you use it a lot?

A. I can't answer for packet in general, because I have only used the DX Spotting Network, but in that context, *I like it a lot and now can't imagine doing without it*. I use it every day, frequently for club purposes, sometimes just as another way to chat.

Connecticut DX Association Award

The Connecticut DX Association (CTDXA) is offering a new "Worked CTDXA Award." This certificate is available to all licensed radio amateurs and short wave listeners, worldwide. DX operators (non-Americans) are eligible for this certificate by contacting at least three (3) CTDXA members. US amateurs are eligible by contacting a minimum of five (5) members. SWL's need only provide call-sign, time, date, mode, and frequency of five (5) CTDXA QSOs heard.

"Our club is well recognized in the United States and in many countries worldwide, said Frank Cooper, W3NV, charter member of CTDXA and ARRL DXCC honor-roll member currently with 313 countries confirmed. 'We want to encourage working DX and share the fun of our hobby to all interested hams.' Another CTDXA member, Don Search, W3AZD, an ARRL DXCC Administrator adds, 'the growing enjoyment of achieving DXCC is apparent. I process more DXCC certificates today than ever before. The Connecticut DX Award is a natural addition to the avid DX chaser's shack.'"

To apply for the Worked CTDXA Award, send a log extract to Richard Moris, KB1LE, 46 Collins Road, Bristol, CT 06010, (203) 583-2849. Award is \$1 state-side, three IRCs, DX. Send SASE to KB1LE for complete members list. (All modes accepted. Repeater contacts not valid. There is no time restriction on when QSOs are/were made.)

From: Connecticut DX Association
Peter Budnik/KB1HY/President
40 Bartlett Street
Plainville, CT 06062

Cells Haywire in EM Field?

Electromagnetic fields may interfere with the electrical chit-chat between cells in the body--and cooperate with carcinogens to disrupt normal regulation of cell growth and promote cancer development, says W. Ross Adey of Loma Linda (Calif.) University. By studying the way cells "whisper together" using electrical messages, Adey and his co-workers are trying to explain why some studies link certain types of cancer to electromagnetic exposure (SN: 2/14/87, p. 107). Because the signals passed between cells are essential for regulating cell growth, altering these signals may result in the out-of-control growth of cancer, says Adey.

Across the thin membranes surrounding cells is an electrical gradient called the membrane potential. With a strength of about 0.1 volt (the equivalent of 200,000 volts per inch), the membrane potential acts as an electrical barrier against the outward and inward flow of signals. Receptors on cell surfaces are thus needed to facilitate message transfer across membranes. In addition, says Adey, the "little fluid gutters" between cells have their own electrical gradients. Based on his own studies and those of other researchers, Adey concludes that these electrical gradients may be

changed by certain powerline and microwave fields. The negatively charged surface receptors that permit day-to-day signal transfer are sensitive to minute changes in both electrical and chemical signals, says Adey.

Changes caused by electromagnetic fields are not themselves the first step in cancer, says Adey, who uses the standard initiation-promotion model of cancer to explain how the fields and chemical carcinogens may work together. He says that carcinogens probably serve as initiators by damaging cellular DNA, but that disorganized cell growth in tumor formation is prompted by later events--which include exposure to electromagnetic fields. According to Adey, the Loma Linda research takes a different approach to cancer formation by studying "atomic rather than molecular levels of tissue organization and physical rather than chemical processes."

Science News, Vol. 133, via NT6G

India Convention

National Institute of Amateur Radio
Regd. Office 5-B, P.S. Nagar, Hyderabad-500 457,
India

Tel No. (0842) 227287 - Telex No. 04256444 P C O

The National Institute of Amateur Radio holds annual National convention every year on the 2nd Saturday and Sunday in the month of February.

The forthcoming convention will be held at NIAR premises at Hyderabad, India, on the 10th and 11th of February 1990.

You and your partner are specially invited to attend/participate in the National Convention/Seminar.

At this convention/seminar advanced techniques in Amateur Radio and DX forum will be discussed. Amateur volunteers who have participated in DXpedition/Relief work organised during natural calamities like cyclones/flood/earthquakes, etc., will be honoured. Distinguished foreign visitors and those reading papers will also be honoured.

N.I.A.R. will arrange accommodation in 5 or 3 star hotels on concessional tariff to the foreign visitors attending the convention. N.I.A.R. will also provide free transport to and fro to Air Port as well as to the convention site besides organising a free one day city travel tour.

At the convention foreign visitors will be given a special attention and care by N.I.A.R.

There is no delegate fee to the visiting foreigner hams and their families and will be treated as honoured guest.

Hyderabad is a historically important city in South India with a population of 3 millions. It is also capital of a state known as Andhra Pradesh, with a population of 60 millions who speak a language known as Telugu. People in Hyderabad speak English, Urdu, Hindi as well. The city has grown industrially and is being developed as tourist centre. There are several foreigners visiting Hyderabad regularly either on business or tour, etc. The largest size Budha statue is being erected in a big natural lake situated in the heart of the city and is major attraction to the tourists. Hyderabad has several international standard hotels/guest houses and other tourist facilities. N.I.A.R., HQ and some Amateurs in Hyderabad city are also members of International Travel Host Scheme as such visiting foreign Amateurs can be accommodated by them as well if sufficient advance notice is available.

Hyderabad is well connected by Air/Train from Bombay, Delhi, Madras and Calcutta International Airports.

You are requested to indicate well in advance your travel programme to make necessary arrangements.

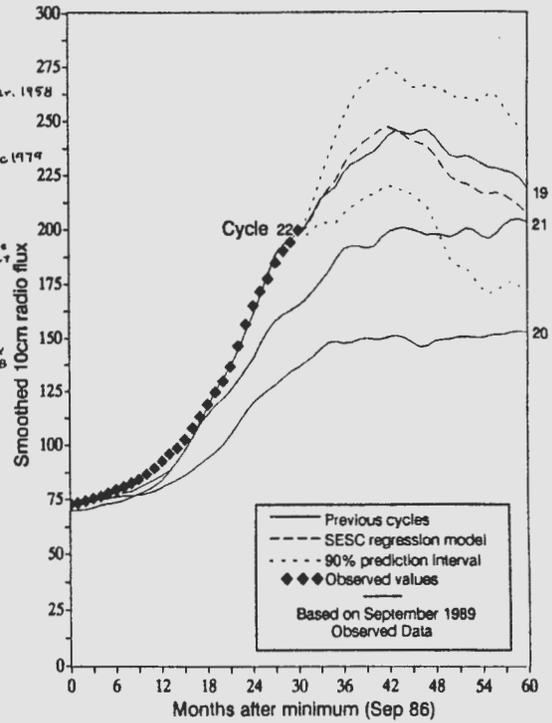
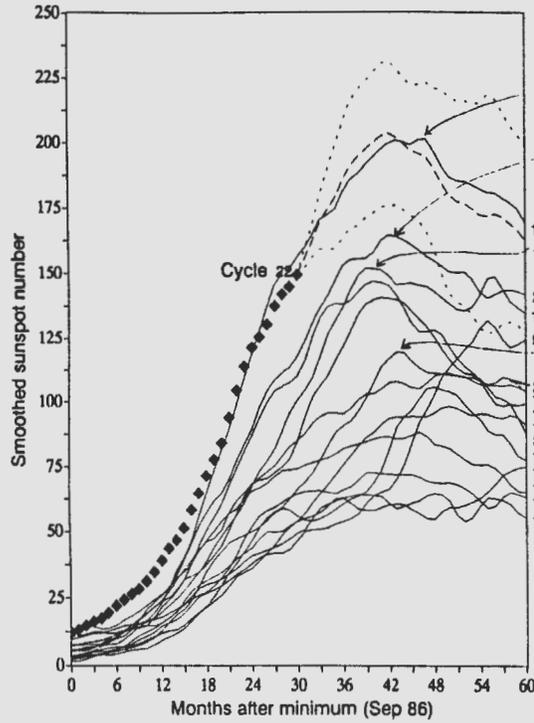
/s/ (Mrs. Bharathi Prasad), VU2RBI
I/C International Relations, N.I.A.R.



Current information on the Cycle

Rise of Solar Cycle 22 Compared to Previous Cycles

Courtesy Al, W6RQ



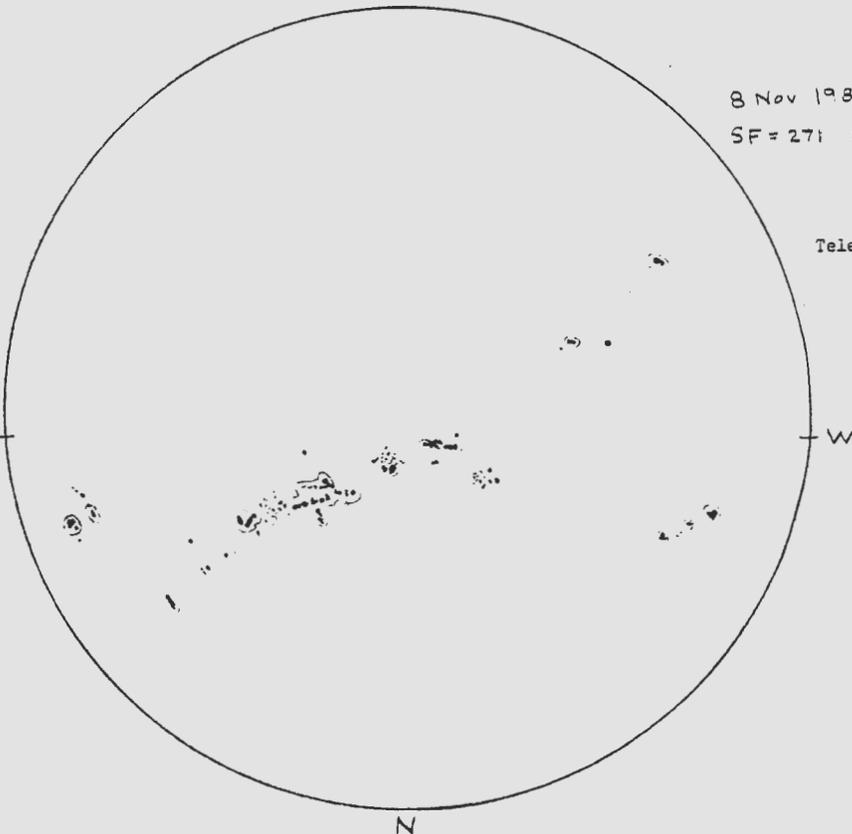
NOAA/SEL October 1989

S

8 Nov 1989 2250 UT
SF = 271 a = 14 k = 3

Sunspot sketch by Al Lotze, W6RQ

Telescope: 3½" Questar, full-aperture sun filter, 50X eyepiece.



Canada About to Sign Major Land Agreement With Eskimos

By PAUL LEWIS

Special to The New York Times

OTTAWA — The future inhabitants of Nunavut are preparing for a bonanza.

Within the next few months, representatives of the roughly 19,000 Eskimos who inhabit Canada's eastern Arctic are expected to sign an agreement with the Government giving them legal title to 136,000 square miles of Arctic land, limited rights over a further 1.5 million square miles and about \$700 million during the next 15 years or so.

By 1991 they hope to split Canada's vast Northwest Territories in half, establishing a form of limited self-government for themselves in the inhospitable lands they are acquiring, which stretch from Hudson's Bay to the top of the polar archipelago.

Nunavut, or 'Our Land'

This will be Nunavut — "Our Land" in the language of the Eastern Arctic Eskimos, or the Inuit as they call themselves. The Eskimos want to set up their own directly elected regional government in Nunavut with a measure of control over such matters as mining, wildlife conservation, education, housing and welfare. All inhabitants of the region would be able to vote. But in practice the Eskimos would control the government, since they greatly outnumber the roughly 2,000 to 3,000 non-Eskimos who live in Nunavut.

Canada's coming land-and-cash deal with the Eskimos is the last major settlement the federal Government is making with the country's half-million indigenous people in an effort to settle conflicting land claims, promote national unity and open up the country's vast north for economic development.

The biggest groups of peoples indigenous to Canada include the Yukon Indians; the Eskimos of the Western Arctic, who call themselves the Inuvialuit and who are closely related to the Eastern Arctic Eskimos; the Dene and Metis Indians of the Mackenzie Valley, and the Cree Indian groups in Quebec.

When recent settlements with all the indigenous groups are taken into account, Canada's original inhabitants are acquiring full or partial control over 40 percent of the country's land mass as well as some \$1.5 billion in compensation for surrendering any other future territorial claims.

To Define Everybody's Rights

"This is probably the largest property transfer without bloodshed in history," said Richard Van Loon, a senior official at the Ministry of Indian and Northern Affairs.

The Eskimos have been holding on-again-off-again talks with the Canadian Government on land rights and self-government for more than a decade. Negotiations started in 1976 but quickly broke off as a result of disagreements among the Eskimos. They were revived briefly in the late 1970's but quickly collapsed a second time. The present round began in earnest in 1980.

"The fundamental aim is to define



The New York Times/Aug. 20, 1989

Nunavut is the proposed self-governing jurisdiction for Indians and Eskimos in the eastern Arctic region of Canada.

everybody's rights once and for all and create a secure environment for business," Mr. Van Loon said.

The Canadian federal authorities did not always see things that way. In 1969 Prime Minister Pierre Elliott Trudeau sought to limit the land rights of indigenous peoples, offering to respect past treaties signed with Indian tribes but refusing to recognize any inherent "aboriginal claim" to the lands they roamed before the Europeans came.

The Nishga Indians of British Columbia, a small tribe, sued, and in 1973 Canada's Supreme Court forced a change in policy by ruling that claims exist, but without saying what they are.

"The Indians know they have something, but they have to negotiate what it is with the Government," Geoffrey Lester, a Canadian lawyer helping the Eskimos with their claim, said in an interview on the Nishga precedent for the Eskimo negotiations.

But the Eskimos and many Canadian experts say an eastern Arctic land settlement will reinforce Canada's claim to sovereignty over the disputed Arctic waters of the famous Northwest Passage linking the Atlantic and Pacific Oceans.

Public Works Projects

Public works projects have speeded the talks. In 1975, for example, Quebec's provincial Governments, anxious to begin a big hydroelectric project on land claimed by Indians, signed an agreement with its Cree Indians and Eskimos, and with the small Naskapi tribe, defining their land rights and awarding them \$228 million in compensation for surrendering all other traditional rights and claims.

Other negotiations moved more slowly, with the Indians often reluctant to surrender undefined rights in return for a cash payment and demanding forms of self-government unacceptable to Ottawa.

But last year the Inuvialuit and the Dene and Metis reached agreements of

principle with the Government over land rights that allowed three major energy corporations, Esso, Shell and Gulf, to push ahead with their \$10 billion Delta project to pipe natural gas down from the Mackenzie Delta and the Beaufort Sea.

So far the Tungavik Federation of Nunavut, the organization representing the eastern Arctic Eskimos, has borrowed \$22 million from the Canadian Government to finance its long negotiations with the Government over the creation of Nunavut. "When we sign, we will have to pay that back from our compensation," Donat Milurto, the Federation president, said.

So far the Eskimos have signed 22 partial agreements with the Government, which among other things give them a strong say in the development of their Arctic region and the preservation of its wildlife, as well as the right to royalty payments on minerals extracted from under the snow and ice.

But exploitation of the region's proven oil and gas reserves is not economic at current prices. So the Eskimos plan to invest the roughly \$700 million they should receive in compensation and use the income to finance other economic development plans, including aid for Arctic hunters.

The idea of this particular plan is to increase the supply of "country food," as the Eskimos call the raw caribou, seal and walrus meat they have long eaten, which is much cheaper than imported food in the northern settlements. The techniques include better wildlife management and conservation and the provision of snowmobiles, guns and shelters for hunters.

A new Country?
via W6ITH

HONOR ROLL			DXCC			5 BAND DXCC				
CALL	-MIX	PH. CW.	-MIX	PH. CW.	-10m	15m	20m	40m	80m	
KP6A			274							
AA6AD			271	181	252	109	176	258	54	
W6AED/7			325				100	100		
W6AEO			241							
WA6AHF	312		335			100	100	100	100	
K6GAM			288	272	180	153	205	248	40	
N6AN	313		334	285	281	217	278	298	172	
K6AMP			316	199	211	133	144	199	110	
KA6BIM			196	190	59	108	131	141	33	
W6BJH	311		327	192	282	120	117	187	117	
WA6BSS			280	280	2	125	155	229	49	
W6BSY	315	313	358	351						
KB6BW			251	2		89	89	151	26	
K6BWX			225	1	224					
W6CF	315		342	294	185	204	239	306	178	
K6CN			260	253	158					
W6CTL			316	1	245	142	129	313	88	
WB6CUA			321	294	280	100	100	100	95	
W6D			172	89	147	33	70	136	67	
K6DC	315		359							
W6DD			126							
W6DPD			300	300						
K6DR			248							
K6DT	312	307	340	320	293	229	251	328	153	
W6DU	312		331	282	302	212	237	302	152	
NQ6E			240		207	116	127	196	136	
WD6EKR			294			154	218	275	72	
WD6EKR/M			233			79	187	145	2	
W6ERS	319		349							
W6ETR					237					
WB6EXW			303			100	100	100	50	
W6FAH			286	165		170	189	266	141	
K6FD			271							
W6FGD			323	258	273					
K6FO			277	185	239	134	164	235	125	
KB6G			253		229					
KD6GC			175							
KG6GF			281			70	120	210	256	
WB6GFPJ			101	300	70	161	192	246	105	
N6GG			301							
W6GO	312	311	326	325	307	257	286	313	242	
K5GOE			303	290		182	100	100	100	
WA6HAT			311		243					
K6HHD			312	308	23	204	174	221	42	
K6HNZ				290		209	242	254	125	
N6HR	308		329	315		100	100	100	100	
W6HXW		323	323							
WC6I			275			139	155	210	149	
W1ICU		316	335							
K4II	312		339	303	336	197	243	322	248	
W6ISQ	315	312	348	331	207	157	189	219	122	
W6JD			317	213	292			182		
N6JM			290	278	234	196	221	255	119	
W6JRY	306		321							
N6JV	310		321	167	300	100	100	100	100	
W6JZU	312		328			75	115	255	22	
W6KG	314		352	290	108	161	193	210	169	
W6KH	320		358							
K6KLY			206			145	86	105	72	
W6KNH	319	319	339	339						
W6KOE		313	332							
W6KQK			310	295	287	243	278	299	152	
K6KQN			265	260						
NB6L			311	212	162	100	93	186	40	
WA8LLY			215	182	150	127	135	159	51	
K6LM	316	312	321	316	309	100	100	100	100	
K6LQA	312		330							
W6LQC	313	312	330	330						
WX6H			308	308	21	145	135	167	65	
K6MA	319	311	348	322	290	200	200	300	165	
W8MEP			278							
W6MUR	313		357							
W6MZ	315		333							
W6NA				271		140	190	251	192	
W6NKR			289							

HONOR ROLL			DXCC			5 BAND DXCC				
CALL	-MIX	PH. CW.	-MIX	PH. CW.	-10m	15m	20m	40m	80m	
W6NLG	316		316	306	100	100	100	100	26	
K6NM			300	200	191	100	135	258	152	
W6NPY			316	200	265	200	200	200	178	
WA6O			217			88	50	123	2	
N6OC			303	300						
WA6OEY			227			71	60	170	20	
N6OJ			316	275	105				8	
K6OJO	312	311	328	327		187	250	309	17	
W6OMR	313		332	318					12	
W6OSP			300							
WB6OTB			271							
K6OZL			332			100	100	100	100	
K6PBT			216	191	115	111	133	145	61	
K6PKO			308	301		270	175	185	97	
K6PU	316	311	344	325	250	200	200	300	200	
AG6Q			303	289	168	100	100	100	100	
KB6Q			294							
W6QDE			281	138	243					
W6QL	315		337	263	69	114	161	201	111	
N6QR	310		313			100	100	100	100	
N6RC			213							
W6RJ	316		345			100	100	100	100	
K6RK	314		326	312	289	100	100	100	100	
K6RQ	317		354			91	182	285	126	
N6RR			289			116	210	176	129	
K6RUW			270	242	120	100	100	100		
DJ6RX	315		336			215	271	303	227	
AF6S			312		301	247	262	286	192	
K6SIK			279	274	130	150	170	255	125	
N6ST	315		320	297	235	171	207	284	126	
W6SYL					220				50	
W6TC	320	318	332		318	200	200	200	200	
W6TER			269							
K6THB			301	295	235	235	240	290	142	
WA6TOO			251			58	84	167	6	
W6TPH			272	238	187	141	181	172	110	
W6TUI			275	274		109	125	187	125	
AE6U			304		276	200	200	200	200	
K6UD	308		318	306	207	240	244	244	176	
WB6UOM			300							
W6UR			264	159	158					
K4UVT			287	208	97	31	70	275	53	
AJ6V			309	219	257	139	162	249	133	
KD6VS			304						62	
K6WD	312		325		272	100	100	100	100	
WB6WKH			300	100	100	100	100	100	63	
KB6WL			219	211	153	120	166	185	83	
K6WR	321	321	351	351		100	100	100	100	
KK6X			281	227	255					
NG6X			250							
W7XA			325			277	298	309	174	
K6XM			267	209	222	163	179	246	144	
W6XP	317	317	333	333					68	
K6XT	312		327		160	100	100	100	100	
KD6XY			303	287	50	121	136	223	7	
RR7Y			301	271	267	149	184	249	142	
W6YVK				251		160	198	173	56	
AA6Z			283						42	
W6ZKM		311		333		100	100	100	100	
K6ZM	315		345	311	261	100	100	100	100	
W6ZM	315	315	356	351		130	142	317	52	
WB6ZUC			317		303	178	244	265	152	
K6ZX			309		287				105	

5 BAND WAZ										WPX			5 BAND WAZ										WPX		
CALL	MIX	PH.	CW.	-10m	15m	20m	40m	80m	-MIX-	-PH.	-CW.	CALL	MIX	PH.	CW.	-10m	15m	20m	40m	80m	-MIX-	-PH.	-CW.		
AA6AD	40											K6WB	40	40											
WA6AHF		40										K6XH	40												
N6AN	40	40	40									K6XT	40	40											
K6ANP			40									KD6XY	40	40	24	28	34	37	6	2					
KA6BIM	39											KR7Y	40										1,526		
W6BJH	40											W6YVK	40										659		
WA6BSS		40										AA6Z	40												
KB6BW	40											W6ZKM		40											
W6CF	40	40							893			K6ZM	40	40											
WB6CUA	40	40		40	40	40	32	24				W6ZM	40	40											
WW6D	33											K6ZX	40												
W6DPD	40	40																							
K6DT	40	40							1,416																
NQ6E	40			30	33	40	38	33	600																
WD6EKR/M		40																							
W6ERS	40																								
W6ETR			40																						
W6FAH		40																							
K6FO			40																						
WB6GFJ	40	40							837																
N6GG	40																								
W6GO	40	40		40	40	40	40	40																	
K5GOE	40	40							1,037	947															
WA6HAT	40																								
K6HHD	40																								
K6HNZ	40																								
N6HR	40								863																
WC6I	39			32	37	40	37	26																	
W1ICU	40																								
W6ISQ	40	40							869																
W6JD	40																								
N6JM	40			35	39	39	28	20	1,742																
N6JV	40								2,162														2,135		
W6JZU	40	40																							
W6KG	40	40							911																
W6KNH	40	40																							
W6KOE	40	40																							
W6KQK	40	40																							
K6KQN	40	40																							
NB6L	40																								
K6LQA	40																								
W6LQC		40																					939		
WX6M	40																								
K6MA	40	40																							
W6NKR	40																								
W6NLG	40	40							450	450															
K6NM	40																								
W6NPY	40																								
N6OC	40																								
WA6OEY	40																								
N6OJ	40																								
K6OJO	40	40																							
W6OMR	40	40																							
K6PBT	40																								
K6PKO	40	40				40				850															
W6QL	40	40																							
N6QR	40	40																							
W6RJ	40	40																							
K6RK	40	40																							
N6RR	40																								
DJ6RX	40			40	40	40	40	40																	
AF6S	39																								
K6SIK	40	40	40	39	40	40	40	38																	
N6ST	40	40																							
W6TC	40		40	40	40	40	40	37																	
K6TMB	40	40	38	38	38	40	26	28																	
WA6TOO	20																								
W6TUI		40		30	33	40	29	26																	
AE6U	40																								
K6UD	40																								
WB6UOH	40																								
AJ6V	40																								
K6WD	40																								
WB6WKM	40	40																							
KE6WL	39	38																							

**THE NORTHERN CALIFORNIA DX CLUB,
INC., PO BOX 608, MENLO PARK, CA 94026**

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 Trustee: Bob Vallio, W6RGG
 Repeater Chairman:

W6JZU
 eq.: 147.54 Mhz
 NIGHT NET
 at 8:00 PM local time.
 : Ralph Hunt, AG6Q

, KN6J
 ze, W6RQ
 Dorse, K4UVT

Bottom, KD6AZ

Ben Deovlet, W6FDU

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Campbell, CA, 95008
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Do You Remember This Fellow?

Note the artists call sign.
 From a 1925 issue of QST, via W6CF