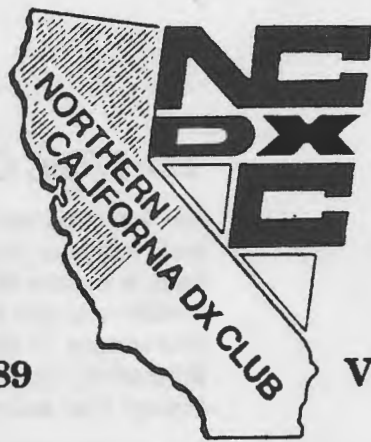


THE



DXer

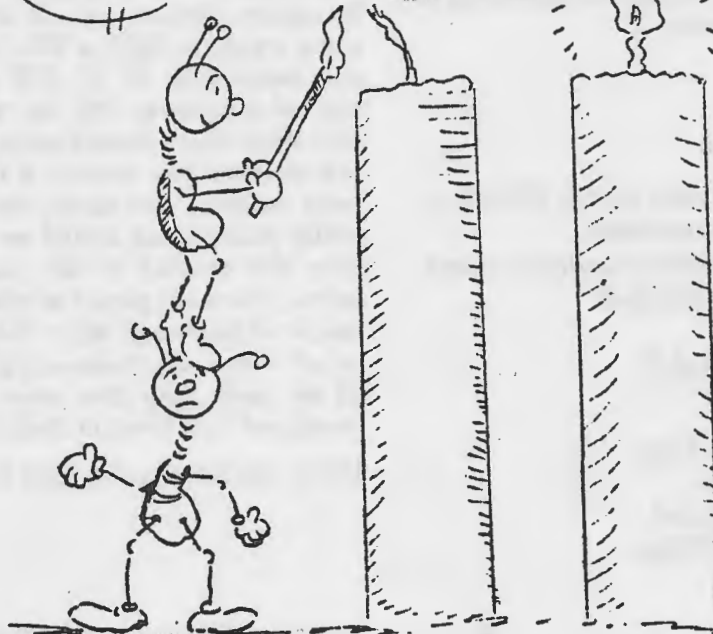
OCTOBER 1989

VOL XLII - NUMBER 10

THE DX'ER

OCTOBER 1948

SECOND
ANNIVERSARY



NORTHERN CALIFORNIA DX CLUB INC

The NCDXC DXer

OCTOBER 1989

VOL XLII - NUMBER 10

October Events

- Oct 7,8 - California QSO party.
- Oct 13 - NCDXC Meeting Palo Alto.
- Oct 14 - 1000Z VK/ZLOceania CW Contest.
- Oct 15 - NCDXC Picnic, Coyote Point.
- Oct 15 - 0700Z RSGB 21 Mhz CW Contest.
- Oct 27 - CQ WW DX SSB Contest.
- Oct 28 - Deadline for November DXer.
- Oct 31 - US returns to Standard Time.
- Nov 4 - ARRL SS CW Contest.
- Nov 10 - NCDXC Meeting Palo Alto.
- Nov 18 Arrl SS Phone Contest.
- Nov 25 - CQ WW CW Contest.

Meeting Notice: Friday the 13th will be the next regular meeting of the NCDXC. The meeting will start with dinner around 6:00 PM Friday afternoon. The evening's speaker will start at 8:15. The speaker will be Bob Vallio, W6RGG. Bob will tell us about his XF4L operation. Also, Martti Laine, OH2BH says he will bring logs and cards for this operation to the meeting.

Sunday the 15th of October will be the next irregular meeting of the NCDXC. This is the annual NCDXC picnic. The event will take place at Coyote Point. There is an article elsewhere in the DXer describing the picnic.

Inside

Inside this month's DXer is:

- The latest DX ladder, courtesy Larry, KD6XY.
- The NCDXC picnic announcement.
- A portion of the Bouvet operation announcement.
- All the other usual good DXer stuff.

Hear 'bout ole Billy Bob?

DXer Billy Bob Lee, ran
Four gallons with massive Yagi;
through pileups he cut
with surprising ease, but
Next door hung his stuffed Effigy.

anon.

October 1989

The DXer, October 1948

We have certainly come a long ways since this club was born just two years ago this month. It has been a source of deep gratification to the original founders to see the steady rise in interest, the fine attendance at the meetings and the over all good fellowship that has prevailed during these past twenty four months.

In order to have a club 'Strictly from DX', there has to be some business conducted. However dull it may seem. But, this has been held to an absolute minimum and will continued to do so in the future.

Since it's inception the club has tried to help out all the members in gathering more DX stations to add to their totals. Sometimes by telephone or by word of mouth at the local radio stores. However we have grown geographically that some phone calls would necessitate placing long distance calls to acquaint some of the members of what DX was coming through. That was when the idea of a small news magazine was evolved by your board of directors at a special meeting at the home of W6WB in San Francisco. After that meeting we have tried to present all the information as received from the members in one small magazine.

The help from all the gang has been very much appreciated and it is your good work and efforts that are translated into the DX-er each month.

A thought in passing. Although we are all hot for new countries and a lot of the gang are way up there, lets occasionally give a thought to some of the European stations which are just busting their arms trying to QSO a W6. Believe it or not there are many ON, F, G, GW etc that have never worked a postwar W6. So, we might just suggest that when there doesn't seem to be any new ones on the air that you answer a CQ W6 sometime. We have on hand two cards, one from a F8 who was really pleased. He stated we were his FIRST, and only W6 contact in 20 years. Incredible as it seems, there are plenty of others. Just think back a couple of years ago when the bands opened up and we all were most anxious to get a G, GW, ON, F, FI, EI etc card. Lets give some of the boys a reverse break and help them in their DX too.

W6PB - Editor October 1948 DXer

de KE6ZE

Another past view this time from the NCDXC's Second Anniversary in October 1948. Interesting to see that the DXer was started to communicate current DX activity. The DXer hasn't been used as a DX activity reporter in a while. Hopefully, you readers think it contains articles about DX, DXers and DXing in general. The activity reports are mostly in some form or other on two meters now.

The closing comments about Europeans needing W6 on 20 meters seems incredible given today's conditions and equipment. Time certainly has its effects, makes you wonder what will be the changes in 40 years from now?

Your editor gets a number of things that aren't always sent out do DX clubs in general. In this month's DXer is a reproduction of one of those things. Read with enjoyment the announcement of *one* of the Bouvet operations announcement.

Your editor has refrained from judgmental comments about most of the items published in the DXer. But, this is just too much to resist. What is it about this hobby that generates so many giant egos? Egos that waste incredible amounts of time, money, and energy on duplicate DXpeditions to the same high demand location. Three planned DXpeditions to Bouvet in a 2-3 month window after a 10 year absence of any operations! Two trips to Heard island at close to the same time! Seems like there are lots of low activity "countries" that could use the attention of these folks and their bulging pocket books. Beats me if I can figure it out.....

Regards, Dave

RUSTY'S RAMBLINGS

"I might have overspent the budget." W6MKM's words surely will send a chill through NCDXC Board members, particularly Treasurer K6MA, but as our erstwhile Picnic Chairman, Steve's words can only be good news for those of you who plan to attend the annual NCDXC picnic on Sunday, October 15. Steve is overspending on drinks (beer, wine and soft drinks), charcoal and prizes--the things that YOU are going to take advantage of if you are there! Steve's plan is to recoup any excess costs by having a White Elephant auction, so help us out by bringing some of that "valuable" junk you've had stashed away and donating it to the cause. The Coyote Point

picnic area opens at 9:00 a.m., and a few of the real diehards intend to be first in line to greet the park rangers! Come early and stay late. This looks like it's going to be a great affair. See the article elsewhere in The DXer for all the picnic specifics, and use the W6TI repeater for talk-in if you aren't sure where the park is or if you get lost!

Well...what a memorable meeting we had September 8th. By now, I suspect most of you know that Harry's Hofbrau in Palo Alto "forgot" to schedule us on their calendar for that night, so they had no choice but to book in a much larger group for the evening in place of the NCDXC! Anyway, they did try to salvage their error by sending us to Harry's Mountain View location, and the MV folks really made a valiant effort to accommodate us. Unfortunately, the MV meeting room was just too small for what turned out to be one of our best-attended meetings in ages! Nonetheless, DXers once again proved what they can do in the face of adversity, and the evening seemed to end on a real upbeat note with several folks commenting that they though this was one of our better meetings and that they really got a chance to talk to some of their fellow DXers. I guess they did since they were practically sitting in each other's laps! My thanks to all of you for your patience that evening, and particularly to those of you who were early arrivals at Palo Alto and who helped direct the rest of us to Mountain View. Incidentally, the manager of Harry's Palo Alto called me the next week and apologized profusely. She assured me that it all had been a big mistake, that they DO want our business, and that definitely we're on their calendar for the second Friday of each month for the foreseeable future.

While on the subject of meetings, DO NOT mistakenly think the club picnic on Sunday, October 15 is replacing our regular meeting on Friday, October 13. The picnic is in addition to the meeting. And the meeting promises to be a really fun presentation from W6RGG on their very successful XF4L DXpedition to Socorro, the main island in Mexico's Islas Revillagigedo. Bob had been close to Socorro before--only a few hundred meters away--while enroute to Clipperton Island in both 1985 and 1986, so come hear what it's like to actually set foot on that hunk of rock which looks desolate from offshore. That rock, by the way, while maybe not rare to us in W6-land, ranked as number 21 on Europe's "most needed" list according to The DX Bulletin's 1988 survey.

If this issue of The DXer reaches you before October 7, don't forget that the NCDXC is hosting the DX Forum at the Pacific Division Convention that morning. Starting time is 11:00 a.m. Come on down and help us explain the wonders of DXing to the multitudes. Who knows, we might just find our next crop of club members sitting out there in the audience.

Good DXing de Rusty, W6OAT

NCDXC Board Meeting

This meeting of the NCDXC Board was held at Ron, W6VG's home.

Items:

1. The idea that it might not be necessary to send a copy of the By-Laws and Procedures Manual to all new members was discussed, with the thought of saving part of the considerable cost. The sense of the board was that it would be acceptable to make a copy available to any member requesting one, possibly with a charge to cover the printing and mailing cost. Rusty asked Dave Barton, AF6S, to study the manual and determine how many changes would be required to accomplish this change.
2. The board voted to disburse \$200 to Steve, W6MKM, for out-of-pocket expenses associated with the club picnic.
3. Complaints concerning operations of the W6TI repeater, both technical and procedural, were discussed in some detail, but no specific action was taken except that Rusty agreed to ask the repeater committee to try to identify the source of recent intermod problems.
4. Rusty confirmed that he and Jim, W6CF will represent the NCDXC at the ARRL Pacific Division convention, moderating the DX forum.
5. The search for a new editor for the DXer was discussed, with Gerry, W8MEP agreeing to approach some members on a list of prospects in his possession.
6. The board discussed (again) the negative attitudes of some members toward packet, but no action seemed called for and none was taken.

Respectfully submitted, Dave Barton, AF6S, secretary

Treasurer's Report

August 1 to 31, 1989

Checking Acct. Activity

July 89 EOM Balance	\$3846.20
Deposits from Dues	\$2384.00
Other Receipts	\$ 727.50
Subtotal	\$6271.15
Accounts Payable	\$ 686.55
Aug EOM Balance	\$6271.15

Savings

B of A 8/21/89	\$11516.99
Includes QSL reserve	
American Svgs 7/24/89	\$ 8061.79
One year CD, 8.65% matures 7/24/90	

September 1 to 30, 1989

Checking Acct. Activity

July 89 EOM Balance	\$6271.15
Deposits from Dues	\$2212.00
Other Receipts	\$ 122.00
Subtotal	\$8605.15
Accounts Payable	\$1089.86
Aug EOM Balance	\$7515.29

Savings

B of A 9/21/89	\$11570.98
Includes QSL reserve	
American Svgs 9/23/89	\$ 8194.68
One year CD, 8.65% matures 7/24/90	

Stan Kuhl, K6MA, NCDXC Treasurer

NCDXC Meeting

The September, 1989 meeting of the NCDXC was held at Harry's Hofbrau in Mountain View. Rusty, W6OAT presided.

Items:

1. KN6J showed slides of his (and Jim Smith's) recent Pacific island expedition, principally to Banaba Island. Between his fine photographs and humorous monologue, the presentation was a

success, enjoyably describing the places, people, incidents, station setups, etc.

2. There were many visitors, quite a few DX ones. A probably incomplete list: KA6YKG (Dave, from Danville), K6SMH (Jerry, a member, who has been living in England for many years), DH9NAR (Johannes), DG8NDB (Birgit, Johannes' XYL), DJ0UJ (alias TA2BK, Bahri), W6RMN (Don), OH2BH (Martti, spending the summer in Merced), KE6FV (Steve), WA6JCD (Bruce) and N6ITW (Craig).

3. First readings were held for:

KE6FV	Steve Stark of Cupertino
WA6JCD	Bruce Croskey of Pittsburg
N6ITW	Craig Smith of Redwood City, and
W6RMM	Don Batten of Tuburon

4. Martti Lane, OH2BH spoke briefly.

5. Bahri, TA2BK spoke about his attempts to obtain operating permission in Albania. He's still working on it, and expects success some day. He also mentioned that there is some awareness of amateur radio within Albania, with some people learning Morse code, etc. as well as some small diplomatic and commercial openings to the West but that we should not expect quick changes.

6. Jim, W6CF gave his latest prognostications on the DXAC and his opinion about K5UR's statement (which some called unsupportable, others worse) at the Dayton Hamvention.

Respectfully submitted, Dave Barton, AF6S, secretary

Murphy's Law

Here is a list of postulates, laws, observations, etc., that apply to hobbists of all sorts, whether it's airplanes, ham radio, or other projects that you build. I hope you enjoy them.

Boob's law – You'll always find a tool in the last place you look.

Rap's inanimate reproduction law – If you take something apart and put it back together again enough times, you will eventually have two of them.

Golub's 2nd law of homebuilding – A carelessly planned homebuilding project takes three times

longer than expected to complete; a carefully planned one takes only twice as long.

Horner's five thumb postulate – Experience varies directly with material ruined.

Brauch's observation – If all you have is a hammer, then everything looks like a nail.

Brombergs law of tool use – When the need arises, the tool or object closest to you becomes a hammer.

The roman rule – The one who says that it can't be done, should not interrupt the one who is doing it.

The 90-90 rule – The first 90% of a project takes 10% of the time, and the last 10% takes 90% of the time.

Eng's principle – The easier it is to do, the harder it is to change.

Schmidt's law – If you fiddle with a thing long enough, it will break.

Bungey's 1st law – The nut won't go on until you utter the magic word.

Bungey's 2nd law – When you're about to use the magic word, there will be children present.

Law of the search – The first place to look for a dropped part is the last place you expect to find it.

Ringwald's law of workbench geometry – A horizontal surface will soon be piled up.

Naeser's law – You can make it foolproof, but you cannot make it dxxx foolproof.

Wethern's law of suspended judgement – Assumption is the mother of all screw-ups.

Femo's law of homebuilding – If you drop something, it will never hit the ground.

Prissy's rule – If you don't know what you're doing, do it neatly.

Teleco's 2nd law – There are two kinds of tape, the one that won't stay on, and the one that won't come off.

Jaffe's precept – There are some things that are impossible to do, but it is impossible to know what they are.

Beaches law – No two identical parts are alike.

The first rule of intelligent tinkering – Save all parts.

The Atlantic Flyer Magazine, 1/88, via Dave, KE6ZE

Evidence of a 'Plume' in Indian Ocean

A great plume of molten rock, rising from deep in the earth, created the Indian Ocean by pushing India, Antarctica, Australia and Africa aside, according to a scenario devised by British and Canadian researchers.

They studied earlier work by French geophysicists, the chemistry of rock extracted by others from drill holes in the ocean floor and from submarine ridges, and volcanic remnants on the surrounding continents.

Their reconstruction is the latest application of the "plume" theory, advanced in 1971, which attributes movements of the earth's surface in part to plumes of semimolten rock rising under the earth's crust and pushing it apart.

The new work centers on Kerguelen and Heard Islands in the southern Indian Ocean.

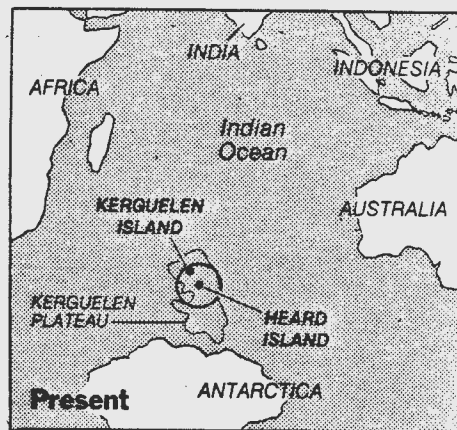
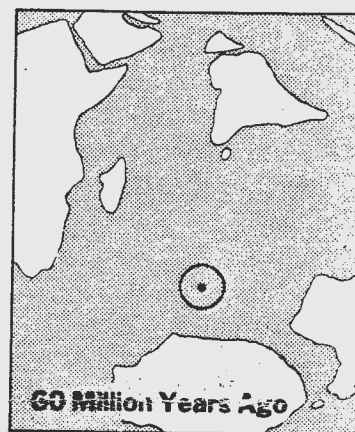
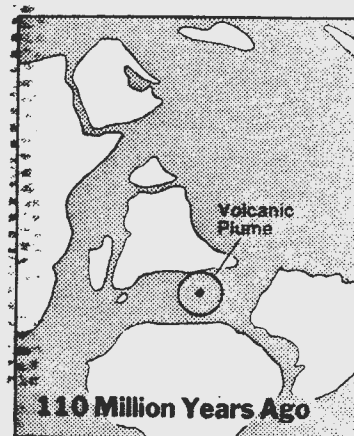
Using a computer-derived reconstruction of how the Indian Ocean grew, the scientists show India and Africa breaking loose from Antarctica 110 million years ago. By the time Antarctica and Australia separated, 60 million years ago, India was already far on its way toward collision with Asia.

They have found evidence that the asthenosphere, or semimolten region, under the floor of the Indian Ocean has been contaminated chemically from a plume under the submarine plateau from which Kerguelen and Heard Islands rise.

Similar contamination from a hypothetical plume under Iceland has been reported from the North Atlantic, but it is less widespread.

The research, reported last month in the journal *Nature*, was conducted by scientists at the Universities of Durham, Leicester and Royal Holloway and New Bedford College in Britain and the University of Waterloo in Ontario.

Science Watch Article, The NY Times, 5/30/89, via John, W6ISQ



A theory suggests that a volcanic plume under what is now Heard Island helped form the Indian Ocean.

Fluke Multimeters

An interesting item I recently ran across. This is an untested and unproven change. Proceed at your own risk - Ed.

I recently purchased a Fluke model 75 multimeter. This is a middle-of-the-line model in their autoranging handheld DVM series. It differs from the top-of-the-line model 77 by being about \$30-\$40 cheaper and by lacking the model 77's "touch hold" feature that allows the meter to latch a measurement after you remove the test probes. (The model 77 is also specified to have slightly better accuracy).

A friend in the lab here has a model 77, so on a hunch I decided to compare the PC layouts. Sure enough, there was one jumper that occupied different positions in the two models. When I moved the jumper on my model 75, I discovered to my delight that it had gained the touch-hold feature of the model 77!

The change is quite easy to make.

1. Turn the unit over and remove the four screws holding the case together. Remove the case top and set it aside.
2. Remove the 15A fuse at the bottom of the PC board to reveal a single screw that holds the PC board to the bottom of the case. Remove the screw and take out the PC board.
3. Holding the PC board with the display at the top, examine the components just above the function switch. Just to the right of the calibration pot is a resistor, and just to the right of that is what looks like another resistor but is actually a jumper (it has the color code of a 0-ohm resistor!) In the model 75, the jumper occupies the second and third holes of a set of three holes, counting from the left. Unsolder one end of the jumper from the third hole and move it to the first hole.
4. Reassemble the unit, taking care to ensure that the function switch knob shaft position lines up with the switch on the PC board before screwing the cover back on.

To enable the touch-hold feature, hold down the button in the center of the function switch as you turn the meter on. To disable touch-hold, turn the meter off momentarily. (The instruction manual provided with the model 75 also covers the 77).

From an electronic news source, original author not credited. via KE6ZE

Over the Horizon Radar

One possible countermeasure to stealth aircraft is over-the-horizon backscatter radar, in which radio waves from ground transmitters bounce off the ionosphere down on their targets and back again by the same path to the receivers. The radar's long wavelengths are relatively undeterred by such passive stealth techniques as smooth shaping and absorbent materials.

Unlike conventional line-of-sight radars, OTH sensors can detect airborne targets anywhere from the ionosphere to the surface of land or sea. The challenge is to distinguish target returns from those of the clutter, which may derive from the ground, sea, or unstable ionosphere.

The Pentagon is building an OTH network that will cover up to 1800 mi (2900 km) from the U.S. coasts. The first unit, in Maine, was built by General Electric Co., Fairfield, Conn., and ran its first extensive tests last year.

Each radar transmitter site can send 1 megawatt of frequency-modulated continuous wave energy at angles from 6 to 30 degrees, to track targets within a 500-mi. sector ranging from 500 to 1800 miles away. The Maine unit covers the East Coast from Cuba to Greenland and as far away as Iceland. The radar's footprint is moved throughout its overall coverage by adjusting the frequency, variable from 5 to 28 megahertz.

Despite the long wavelengths, measured in tens of meters, tracking is accurate enough to identify individual commercial aircraft from their planned flight routes, according to Colonel Jack Lennox, the Air Force deputy OTH program manager at Hanscomb Air Force Base in Massachusetts.

From January to March, the Air Force tested the OTH radar's effectiveness against small targets, with 29 presentations of shortened AQM-34s--remotely piloted vehicles that fly up to 400 knots (740 kilometers per hour) airspeed. Lennox said in November that analysis of the tests was not yet complete, "but from a test perspective, we considered it very successful."

The ionosphere reflects radar transmissions and returns them in varying degrees. This makes the radar a challenge to operate reliably. Around

sunrise and sunset, when some of the ionosphere's characteristics change, the radar frequency must be altered as often as every 10 minutes, Lennox said. The Air Force is developing an improved algorithm to track targets and is making the receiver antenna on its West Coast installation 8000 feet (2400 meters) long for greater sensitivity. The Maine unit's receiver is some 5000 ft long and uses 28 VAX computers (from 780s to 8600s) for signal and data processing. The radar functions employ some 350 000 lines of executable software code.

IEEE Spectrum, January 1989, via NT6G

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

The *DXer* is the bulletin of the NCDXC and is published monthly for the benefit of its members. Permission to use any portion of this publication is hereby granted, provided credit is given to the *DXer*.

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NCDXC REPEATER W6T1R
 Output 147.36 Mhz, Input 147.96 Mhz
 Trustee: Bob Vallio, W6RGG

Repeater Committee Chairman:
 Smitty Smithwick, W6JZU
 Suggested simplex freq.: 147.54 Mhz

NCDXC THURSDAY NIGHT NET
 On W6T1R Thursday at 8:00 PM local time.

Operations Manager: Ralph Hunt, AG6Q

DX News: Bob Artigo, KN6J

Propagation: Al Lotze, W6RQ

Contest News: Bob Dorse, K4UVT

Westlink: Dave Bottom, KD6AZ

Swap Shop: Ben Deovlet, W6FDU

933 Robin Lane
 Campbell, CA, 95008
 408/374-0372

QSL Information: Mac McHenry, W6BSY

October 1989

NCDXC DX BULLETIN BROADCASTS

Trustee: Bob Vallio, W6RGG

W6TI, the NCDXC memorial station broadcasts DX bulletins each Sunday at 1800 PST (Monday 0200 UTC) on or about 7.015 Mhz and 14.002 MHz.



I understand you are a contestor, Gary, Gary?

HONOR ROLL		DXCC			5 BAND DXCC				
CALL	-MIX PH. CW.	-MIX PH. CW.	-MIX PH. CW.	-10m	15m	20m	40m	80m	
KF6A		274							
A6AD		271	181	252	109	176	258	54	
W6AED/7		325			100	100			
W6ABO		241							
WA6AHF	312	335			100	100	100	100	
KG6AH		263	253	136	95	163	238	36 23	
N6AN	313	334	285	281	217	278	298	172 116	
K6ANP		316	199	211	133	144	199	110 105	
N6AUS		258							
KA6BIM		196	190	59	108	131	141	33 8	
W6BJH	311	327	192	282	120	117	187	117 100	
WA6BSS		280	280	2	125	155	229	49 14	
W6BSY	315 313	358	351						
KB6BW		251	2		89	89	151	26 2	
K6BWV		225	1	224					
W6CF	315	342	294	185	204	239	306	178 138	
K6CN		260	253	158					
W6CTL		316	1	245	142	129	313	88 11	
WB6CUA		321	294	280	100	100	100	100 95	
WV6D		172	89	147	33	70	136	67 26	
K6DC	315	359							
W6DD		126							
W6DPD		300	300						
K6DR		248							
K6DT	312 307	340	320	293	229	251	328	153 121	
W6DU		329	276	300	207	223	299	149 101	
NQ6E		240	207		116	127	196	136 118	
WD6EKR		294			154	218	275	72 71	
WD6EKR/H		233			79	187	145	2 2	
W6ERS	315	345							
W6ETR			237						
WB6EXW		303			100	100	100	50 11	
WV6F		264	260	124	135	133	170	36 33	
W6FAH		286	165		170	189	266	141 138	
K6FD		271							
Y6FGD		323	258	273					
X6FO		277	185	239	134	164	235	125 102	
KB6G		253	229						
KD6GC		175							
KG6GF		281			70	120	210	256 124	
WB6GFJ		101	300	70	161	192	246	105 50	
N6GG		301							
W6GO	312 311	326	325	307	257	286	313	242 206	
K5GOE		303	290		182	100	100	100 87	
AE6H		208	100	100					
WA6HAT		311	243						
K6HHD		312	308	23	204	174	221	42 40	
K6HNZ			290		209	242	254	125 107	
N6HR	308	329	315		100	100	100	100 100	
W6HXW	323		323						
WC6I		275			139	155	210	149 57	
W1ICU	316		335						
K4II	312	339	303	336	197	243	322	248 162	
W6ISQ	315 312	348	331	207	157	189	219	122 110	
W6JD		317	213	292			182		
N6JH		290	278	234	196	221	255	119 86	
W6JRY	306	321							
N6JV	310	321	167	300	100	100	100	100 100	
W6JZU	312	328			75	115	255	22 12	
W6KG	314	352	290	108	161	193	210	169 105	
W6KH	320	358							
K6KLY			206		145	86	105	72 38	
W6KNH	319 319	339	339						
W6KOE	313		332						
W6KQK		310	295	287	243	278	299	152 118	
K6KQN		265	260						
NB6L		311	212	162	100	93	186	40 19	
WA8LLY		215	182	150	127	135	159	51 16	
K6LM	316 312 307	321	316	309	100	100	100	100 100	
Y6LOA	312	330							
Y6LQC	313 312	330	330						
WX6M		308	308	21	145	135	167	65 44	
K6MA	319 311	348	322	290	200	200	300	165 121	
W8MEP		278							
W6MUR	313	357							
W6MZ	315	333							

HONOR ROLL		DXCC			5 BAND DXCC				
CALL	-MIX PH. CW.	-MIX PH. CW.	-MIX PH. CW.	-10m	15m	20m	40m	80m	
W6NA				271	140	190	251	192 109	
W6NKR				289					
W6NLG	316	316	306	100	100	100	26	6	
K6NM		300	200	191	100	135	258	152 34	
W6NPY		316	200	265	200	200	200	178 139	
WA6O		217			88	50	123	2 16	
N6OC		303	300						
WA6OEY		227			71	60	170	20 8	
N6OJ		316	275	105					
K6OJO	312 311	328	327		187	250	309	17 12	
W6OMR	313	332	318						
W6OSP		300							
WB6OTB		271							
WB6OTC		284							
K6OZL		332			100	100	100	100 100	
K6PBT		216	191	115	111	133	145	61 15	
K6PKO		308	301		270	175	185	97 112	
K6PU	316 311	344	325	250	200	200	300	200 100	
AG6Q		303	289	168	100	100	100	100 100	
KB6Q		294							
W6QDE		281	138	243					
W6QL	315	337	263	69	114	161	201	111 103	
N6QR	310	313			100	100	100	100 100	
N6RC		213							
W6RJ	316	345			100	100	100	100 100	
K6RK	314	326	312	289	100	100	100	100 100	
K6RQ	317	354			91	182	285	126 71	
N6RR		289			116	210	176	129 88	
K6RUW		270	242	120	100	100	100		
DJ6RX	315	336			215	271	303	227 185	
AF6S		312		301	247	262	286	192 128	
K6SIK		279	274	130	150	170	255	125 117	
N6ST	315	320	297	235	171	207	284	126 50	
W6SYL			220						
W6TC	320	318	332	318	200	200	200	200 157	
W6TER		269							
K6TMB		301	295	235	235	240	290	142 117	
WA6TOO		251			58	84	167	6 6	
W6TPH		272	238	187	141	181	172	110 100	
W6TUI		275	274		109	125	187	125 116	
AE6U		304		276	200	200	200	200 140	
K6UD	308	318	306	207	240	244	244	176 147	
WB6UOM			300						
W6UR		264	159	158					
K4UVT		287	208	97	31	70	275	53 7	
AJ6V		308	216	256	135	160	247	133 62	
W6VQD		320	319	1	134	157	282	104 106	
KD6VS		304							
K6WD	312	325		272	100	100	100	100 65	
WB6WKM		300	100	100	100	100	100	100 63	
KE6WL		219	211	153	120	166	185	83 32	
K6WR	321 321	351	351		100	100	100	100 100	
KH6WT			204						
KK6X		281	227	255					
NG6X		250							
W7XA		325			277	298	309	174 137	
K6XM		267	209	222	163	179	246	144 68	
K6XN		307	300	263	131	142	237	108 137	
W6XP	317 317	333	333						
K6XT	312	327		160	100	100	100	100 65	
KD6XY		301	285	50	121	136	222	7 3	
KR7Y		301	271	267	149	184	249	142 126	
K6YK		316	280	293	241	268	296	203 102	
K6YK/M		167							
W6YVK			251		160	198	173	56 42	
AA6Z		283							
W6ZKM			333		100	100	100	100 100	
K6ZM	315	345	311	261	100	100	100	100 73	
W6ZM	315 315	356	351		130	142	317	52 111	
K8ZTT		286	276	243	175	168	237	105 70	
WB6ZUC		317		303	178	244	265	152 105	
K6ZX		309	287						

