



#639 Oct 2025



JUG

Publication of the
Northern California
Contest Club

NCCC

55 years of
contesting
excellence

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<https://nccc.cc/meetings.html>

ZOOM Tue 14 Oct

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President's Report

David West, KO6M



Here we are, CQP Month! Still what I consider one of NCCC's biggest events. I know it's not fully a Northern California Contest Club contest, I know there are a whole pack of volunteers lead by Dean, N6DE. However it's the one contest that we seem to all engage in and have fun in.

Dean and his crew have made sure the contest hasn't become stagnant. We see that every time he presents to us. For instance, the challenges that they have created make it more than just a get on the air and collect QSOs but we have Time challenges for those that have limited amounts of time to be on the air. We have the POTA Challenge that is for those of us that are getting out on an expedition style adventure. We have the Video Challenge that in some cases helps cross our ham hobby with creativity hobbies. We have the Sunday Challenge which allows us to use a new callsign and be fresh on the air in our own competition. Any way you look at it there are PLENTY of opportunities to do great in CQP this year! I hope to hear you on the air!

Last month we had a great in person gathering/meeting in Los Altos. Over 40 of us (possibly closer to 50) gathered at Patriot Corner and had a wonderful BBQ inspired meeting. While of course there was nothing official said, I still consider it a meeting. Several of you had wonderful ideas or tips for me, I thank you for that. My wife asked me what he best part was and to me the best part of the in-person gatherings is that



you all get to see each other in person and have so many different conversations. It felt so energetic at the park. Thank you all for being there. Thank you to our anonymous (many of you know who it is) member who sponsored about half of the food cost. The catering location, Jackies Place in San Jose, was his idea. A great choice I might add and I look forward to going there again.

A short note about Dues: Thank you to those that have paid their dues for this season. For those that may have let it slipped their mind, Please take a moment to do so. You can reach out to Nian at treasurer.nccc@gmail.com or myself dwest24@gmail.com if you need help. I know MP and PayPal can be tricky sometimes.

Focus Contests. While I think every contest is important and I would like you to submit points for NCCC every time, I understand there are other clubs that you may participate in and they have their own focus contests. We, the board, are proud to announce that the following contest are our chosen Focus Contests this season:

- **ARRL 10 meter contest**
- **CQ WPX RTTY contest**
- **CQ WPX SSB contest**
- **CQ WPX CW contest**

Yes, they may be the ones we typically use. 10M is still a busy band these days, let's cherish it while we can. The WPX contests favor the West Coast a little more than others.

That's it from me this go round, lastly, get on the air and have fun! KB!

The 2025 CQP Has Arrived!

<h1 style="margin: 0; color: white;">California QSO Party</h1>		
	60th Running Of The CQP! 1600 UTC October 4, 2025 to 2200 UTC October 5, 2025 <small>CQP 2025 Begins:</small> 21 : 21 : 24 : 36 <small>Days Hrs Mins Secs</small>	

Fun Challenges

https://cqp.org/pdf/CQP2025_Fun_Contest_Challenges.pdf

Time Challenges

- 6-hour
- 12-hour
- 18-hour
- 24-hour champions
- POTA Challenge
- Video Challenge

plus CA stations may operate with a second call sign on Sunday and be “fresh meat” doubling the fun for both themselves and for the non-CA stations chasing.



Upcoming State/Province QSO Parties

Thanks to WA7BNM

<https://contestcalendar.com/stateparties.php>

All the rest for 2025

State/Province	Dates/Times
CQP	4 Oct 1600Z to 5 Oct 2200Z
Nevada	11 Oct 0300Z to 12 Oct 2100Z
Arizona	11 Oct 1600Z to 12 Oct 0500Z
Pennsylvania	11 Oct 1600Z to 12 Oct 0400Z 12 Oct 1300Z to 2200Z
South Dakota	11 Oct 1800Z to 12 Oct 1800Z
New York	18 Oct 1400Z to 19 Oct 0200Z
Illinois	19 Oct 1700Z to 20 Oct 0100Z

Larger Contests on the Horizon

CQ WW DX – SSB	25 Oct 0000Z to 26 Oct 2359Z
Makrothen RRTTY	11 Oct 0000Z-0800Z, 1600Z-2400Z 12 Oct 0800Z-1600Z
Oceania DX – CW	11 Oct 0600Z to 12 Oct 0600Z
JARTS WW RTTY	18 Oct 0000Z to 19 Oct 2400Z
ARRL Sweepstakes – CW	1 Nov 2100Z to 3 Nov 0300Z
JIDX Phone	8 Nov 0700Z to 9 Nov 1300Z
ARRL Sweepstakes – SSB	15 Nov 2100Z to 17 Nov 0300Z
NA Sprint – SSB	23 Nov 0000Z to 0400Z
CQ WW DX – CW	29 Nov 0000Z to 30 Nov 2359Z
ARRL 160	5 Dec 2200Z to 7 Dec 1600Z
ARRL 10	13 Dec 0000Z to 14 Dec 2359Z
RAC Winter	27 Dec 0000Z to 2359Z



Weekly CW (1 hr) Events

ID	DAY	UTC	EXCH	WPM	SPONSOR
SST	Fri	2000 - 2100	Name+SPC	<20	K1USN
	Mon	0000 - 0100			
MST	Mon	1300 - 1400	Name+QSO#	20-25	ICWC
	Mon	1900 - 2000			
	Tue	0300 - 0400			
CWT	Wed	1300 - 1400	Name+CWO# or Name+SPC	20-> ∞	CWops
	Wed	1900 - 2000			
	Thu	0300 - 0400			
	Thu	0700 - 0800			

Thursday FT4 NCCC Sprint

The Northern California Club is again pleased to sponsor our weekly FT4 Sprint, aka FT4NS (NCCC Sprint). This contest is held every Friday UTC between 0100Z and 0130Z (Thursday evening in North America). Non-North American stations are welcome to participate. No logs are necessary; please submit your score to 3830scores.com using the "NCCC FT4 Sprint" template. FT4 NS Sprint Rules are posted at: <https://www.ncccsprint.com/ns.html> See you on the screen! Frequencies: 1839, 3575, 7047.5 (also 7080), 14080, 21140, 28180, 50318.



Fall Picnic Photos

Bob Wilson, N6TV

A handful of photos from N6TV, NCCC's Star Photographer. Visit

<https://photos.app.goo.gl/y26dnfUHK8EmsKMD6>
to view the entire album





“Americans on Everest”

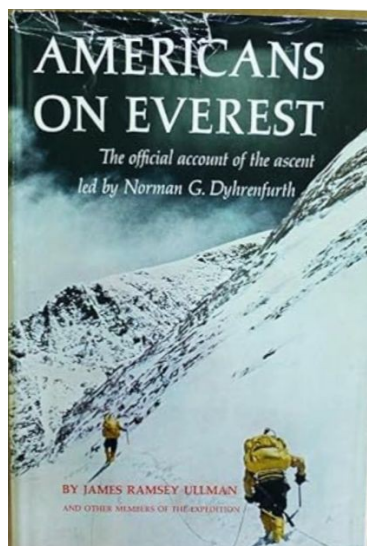
James Ramsey Ullman

J B. Lippincott & Co, Philadelphia and New York, 1964

A book review by:

Bill Haddon, N6ZFO/4

In previous JUGs I’ve published reviews of fiction and non-fiction books that mention ham radio in some way. “Americans on Everest” authored by team member James Ramsey Ullman was published in 1964. Figure 1. The American team included a communications expert, Mr. Allen C. Auten. W0DI.



Mt. Everest was identified as the highest point on Earth in 1852. The mountain was named Everest in honor of Sir George Everest, the British Surveyor-General of India. The author notes, humorously, that we are lucky that “Sir George’s surname was not Jones, Brown, or Smith-Tewksbury.”¹

In Britain the interest in summiting Everest was long-standing. The task had fallen primarily to George Leigh Mallory, the noted British climber who attempted Everest three times in the 1920’s. When asked why Mallory replied simply: “Because it’s there.” George Mallory and his climbing partner Andrew Irvine lost their lives while descending from a summit attempt in 1924. While it is possible that Mallory and Irvine reached the summit, the consensus is that they did not. Mallory’s body, when found many years later, provided no clues about his and Irvine’s reaching or, more likely, failing to reach the summit of Mt. Everest.

On the ninth British Expedition to Everest, New Zealander Edmund Hillary and Nepalese Sherpa Tenzing Norgay reached the summit on May 29, 1953, incredibly just four days before the coronation of Queen Elizabeth II.²

Climbers approaching Mt. Everest will experience the stunning view of Figure 2, showing Everest (29,032 ft.) and the nearby peaks Lhotse (27,940 ft.) and Nuptse (25,791 ft.). The U.S. team’s initial goal to climb all three was discarded as the demands of the ascent and excessive use of oxygen overwhelmed the group’s resources.

Mountain climbing was not a major interest in the U.S., perhaps because our tallest peak, Mt. McKinley (Denali) is a much lesser challenge than the Himalayan mountains. However, the successful British effort inspired Colorado climber Norton G. Dyhrenfurth to organize a U.S.–based climbing team of forty-one members, including Sherpas, starting in 1960.

Permission was obtained from the Nepalese government, leaving the team with a \$186,000 fundraising project, equivalent to \$1.9M in 2025, to be raised quickly.

When Norman Dyhrenfurth was asked “why are you doing this?” his answer, reflecting Mallory’s famous comment was ... “because it’s STILL there.”

Fig 2. Picture of Mt. Everest, Mt. Lhotse and Mt. Nuptse



Fundraising was challenging. The first funding break was a \$2,500 donation from Life Magazine which funded some initial expenses. The lack of interest in the U.S. prompted Dyhrenfurth to compare the fundraising effort to “passing a tin cup in Grand Central Park.” Eventually, the National Geographic Foundation committed \$115,000 on the condition that scientific experiments would be undertaken. Eight of the climbers held PhD degrees or were PhD candidates in various fields. Two team members were medical doctors. The expedition obtained IRS 501 (c) (3) status so that donations could be deducted from taxes.

Dyhrenfurth understood the value of communication, both within the expedition and to the anxious outside world. As noted, the communication expert on the team was Allen C. Auten, W0DI, an Amateur Extra licensee and an expert climber as well. Notably, Auten, although a practiced climber, did not have the aspiration or the ability to summit the mountain.³ Figure 3 shows the US members of the climbing team. W0DI is in the front row, 2nd from the left, wearing glasses and with arms folded. There was a single fatality among the U.S. members of the team, John E. Breitenbach, to whom the book is dedicated.

The expedition purchased a Collins KWM-2 transceiver as the principal communications radio for the base station, supplemented by multiple hand-held 27 MHz. CB radios that would be carried by hiking team members. Figure 4 shows team members assembling a vertical antenna at one of the base camps.

After considerable debate, SSB was chosen over CW as the principal communication mode, despite the additional weight of the transmitter. Use of SSB would allow other team members to communicate. The assigned call was 9N1ME (“Mount Everest”).⁴ Power was supplied by a 12-volt gas generator, which was used to charge a 12V NiCad battery. Among many uses, it supplied the KWM-2 directly. The battery was used to cover the possibility of a generator breakdown. In fact, on the final return to Katmandu the generator’s gas supply couldn’t be found. W0DI noted “when the time came, the gasoline for the generator was missing. The [radio] schedule was held, using only the storage-battery power. And by talking fast, we did get our message through.” The radio struggles were thus not unlike those we experience in radio contest operations.

Six of the forty-one team members reached the summit of Everest. The KWM-2 base radio allowed team members to communicate with fellow climbers, with family members in Katmandu and with the press. The group made the decision to withhold the names of the first ascendants, Whittaker and Gombu, so as to not compromise the achievement of the other’s subsequent efforts. Eventually this resolve crumbled, and the initial ascent was announced, via

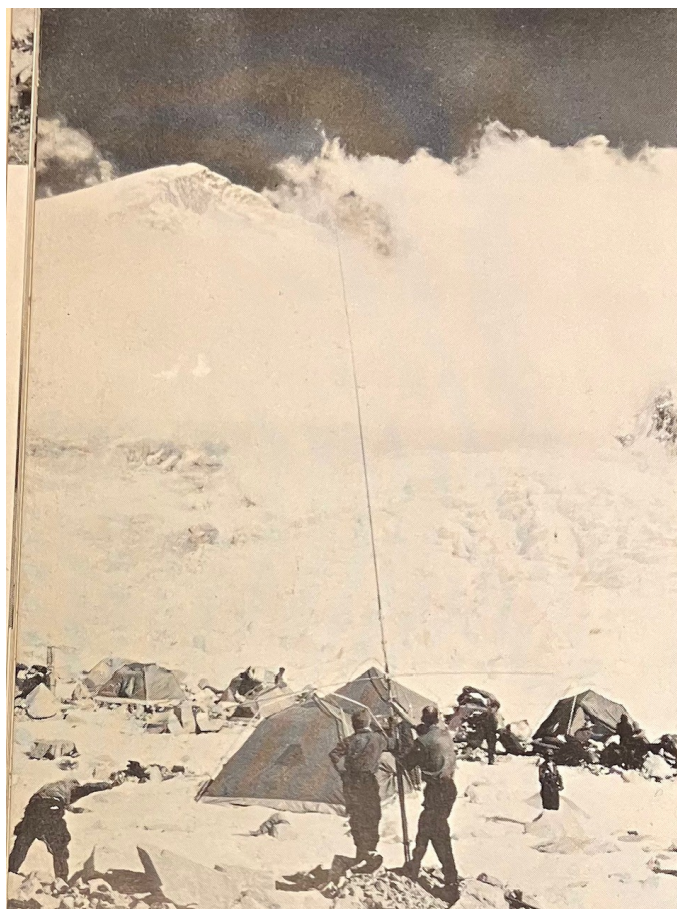


Fig 4. Radio Mast for 9N1ME being assembled.



the KWM-2, to anxious family and the press in Katmandu.

U. S. President John F. Kennedy presented the National Geographic Society's Hubbard medal to the team. The next two Hubbard medals were awarded seven years later to six of our lunar astronauts.

Those wishing to read this compelling story can buy a copy of the 429-page book for as little as \$5.00. A copy autographed by about ten of the participants in the Dyhrenfurth expedition may be available for around \$750 and a copy signed by Whittaker is about \$500. Some libraries will have a copy of the book.

Notes:

1. The standard measure of mountain height is height above sea level, and Mt. Everest meets this definition narrowly among five peaks in the Himalaya. Its measured altitude is 29,032 feet. The nearest competitor, also in the Himalaya, is K2 at 28,250 ft. Everest, however, is not the tallest mountain if one uses an alternate definition, namely the distance between the summit and the base of the mountain. Mauna Kea on Oahu meets that criterion with its base lying far under the Pacific ocean surface.
2. Queen Elizabeth's coronation took place on June 2, 1953 just four days after Edmund Hillary and Tenzing Norgay's success in reaching the Everest summit. Queen Elizabeth had an intense interest in hiking and climbing, and she encouraged the knighting of the two climbers. However, there was controversy—Sherpa Norgay was not initially knighted. The world's climbers revolted and the British eventually corrected their mistake.
3. An astronomy colleague in Lake County found it on the book discard shelf of the Lake County CA Library in 2017. I attempted to contact W0DI, who, in his mid-90's, was still listed on QRZ.com with a Wheat Ridge, CO address. We enlisted the help of W0ETT among others, to contact him, but without success. W0DI became a Silent Key in 2119 at ninety-six years of age.
4. 9N1EE (Everest Expedition) was the assigned call, but in later writing, partly by Allen C. Auten, the call is given as 9N1ME. There were two additional call signs used by others associated with the expedition: 9N1DD (Donald Duck) and 9N1MM (Mickey Mouse) For some further information see https://lungtaworld.tripod.com/Ham_Radio.htm This page is authored by Ian Wollen, who was a 4S7 (Ceylon) in 1964. Mr. Wollen is an author. https://115698.ag-sites.net/index.htm#:~:text=Ian%20Woollen%20is%20a%20writer%20who%20has,%20*Split%20Lip*%20*%20*The%20Mid-American%20Review*



Whiskey Six Tango

CQP Expeditioning --- “Nothing Like It”

Steve Mosconi, K6KS

I had just finished watching the most recent NCCC meeting with Dean’s CQP presentation on YouTube. The question was asked as to why some CQP operators chose to use 1x1 call signs for CQP. I don’t know about others but here are my reasons. I’ve been a ham since 1969. I didn’t get into contesting until 2010 when I decided to give CQP a try. I think that I was getting tired of Field Day.

After giving CQP a try for a couple of years, I wondered what it would be like to be part of a team effort. I had always done Field Day as a 1-Bravo station, preferring to take on the challenge by myself. In 2012, I saw that a group of hams were going to do a CQP Expedition to Trinity County, not too far from my home in Anderson. I contacted Rick Huisman, N6DQ (SK), who appeared to be the team leader, and asked him if I could visit them during the last hours of CQP to see what a multi-station CQP Expedition looked like. He said, “Sure!” I didn’t know Rick at that time but he sure made me feel like I’d be more than welcome at their expedition site.

After making my own contacts in CQP, I drove up to Lewiston, CA, and found them in a cute little cottage. See:

<https://lewistonvalleymotel.com/> <https://lewistonvalleymotel.com/guest-cottage>

They had crammed 6 stations into this little cottage. They were using 2 hex beams with 3 stations sharing each one. I got to see my first triplexers, first band pass filters, and my first coax stubs. All of their stations were connected via computer cables. It was overwhelming and awesome at the same time. They made close to 3000 contacts that year.

And, they used the call sign Whiskey Six Tango.

Fast forward to 2020. I had just signed up to operate CQP again from home in Shasta County, and I was looking at the results for CQP 2019. The two hams who had operated from Trinity County that year had made only 77 contacts total, and Trinity County was the least represented county that year. I started to wonder about doing a CQP Expedition to Trinity County. I shared some e-mails with Dean N6DE and then decided I definitely was going to do CQP from Trinity County. Not knowing the county very well, I decided to use the same Guest Cottage that Rick and his team had used.

To honor Rick and his team, I wanted to use the call sign W6T. It meant a lot to me to be able to use the same call sign in the same cottage that they had been in. It was a lot of work and I had a lot of fun. I think that the cottage shrank from the time Rick and his team were there. I couldn’t believe how they had 6 stations operating there.

I have done expeditions to Trinity County in CQP again in 2021, 2022 and 2023. In 2023, I teamed up with Kole KM6BDN to try a great county-line spot, covering both Shasta and Trinity Counties, at 4850 feet with a nice down-slope to the east. Dean (again) helped us a lot with that. It was my first time doing CQP, or any contest, in a multi-operator environment. In each of those years operating from Trinity County, I’ve used W6T.

I had to back out of what would have been a 3-man effort to the same county-line spot in 2024. Victor N6DVS



and Kole used that site again with great success. And, yet again, they used W6T.

I think that some op's from other states recognize that W6T represents Trinity County so I've wanted to keep using that call sign. And, I think of Rick and his team, including Joanna K6YL, Kristen K6WX, David AA6XV, Andreas NN6U, and Rhona K6RHO every year during CQP. Their offer to let this new contesteer watch them in action led me to an incredible path where I am now trying to share with others.

The current plan for CQP 2025 is for me to join Victor on the county-line site. We've invited Michael K6MLF and his son Steve K6ETA to join us in a Multi-Single effort. This is going to be interesting. Victor and I have each done CQP from Trinity County for 4 years. Victor has been on CW and I have been on SSB. This will be the first time that we've operated together. I am really looking forward to it.

I have really enjoyed doing CQP from a rare county. It is really a thrill to get on the air and know that everyone outside of California is hunting for you. If you live close to a rare county, consider operating from there as an Expedition station.

So, for those of you who are doing multi-op expeditions, keep inviting other hams to join you as part of the team or to at least visit your site and see what you are doing. I am so grateful to Rick and the others for sharing their expedition experience with me.

73 Steve K6KS

Whiskey Six Tango – *from Trinity and Shasta Counties*



The Lumber Yard

Awards and Kudos for NCCC Members



Yet another for the Dynamic Duo at the Oakley Superstation



Radio-Travel

“99 Countries” by Air – 66 by Passport **Tom McShane, NW6P**



When people ask me how many countries I’ve visited, I usually pause and ask them which list they mean. If it’s the United Nations list, my answer is 66. If it’s the ham radio list, then the number is 99. Both are accurate – but they measure very different journeys.

As DXers know, our “countries” aren’t necessarily countries at all. They’re “entities” as defined by the DX Century Club (DXCC). The ARRL’s DXCC list currently recognizes 342 entities worldwide.¹ These include not just sovereign nations but territories, possessions, and islands that qualify under the DXCC rules.

I also belong to a travel club that uses this list but makes one key adjustment: they drop any entity with no permanent human population. That rules out places like Bouvet Island and Heard Island, two legendary locations in the DXing world.

Bouvet Island, a dependency of Norway, lies in the South Atlantic between South America and Antarctica. It is uninhabited and covered in ice, though occasional scientific expeditions have landed there.² Heard Island, administered by Australia, sits in the Indian Ocean between Australia and Africa. It, too, has no permanent human residents – only seals and penguins for company.³

In practical terms, this means I’ve visited 99 “radio countries,” but only 66 of those line up with the UN’s definition of a country. The gap highlights the different ways we count.

Now, how many hams have actually managed to work all of the DXCC entities? Exact numbers are hard to pin down, but DX standings published online show that only a few hundred amateurs worldwide have ever claimed totals at or near the maximum.⁴ In other words, it’s a very exclusive group.

Meanwhile, how many world travelers have set foot in every UN-recognized country? According to NomadMania, as of 2019, only 47 people had officially completed visits to all 193 UN member states.⁵ Other sources suggest the total number today is still in the low hundreds.⁶ Again, an elite club.

My own logbook is nearly complete: I have managed to contact every DXCC entity except one – North Korea. That remains the missing piece. On the travel side, my tally is 66 UN countries, which leaves plenty of ground still to cover.

The contrast between these two lists fascinates me. One is about geography and government, the other about propagation and persistence. With a radio, I can reach islands I will never step foot on, countries that are politically closed, or rocks in the middle of the ocean with no airport, no hotel, and no human residents.

So when I say I’ve “visited” 99 ham radio countries, I mean I’ve done it on the air. When I say I’ve visited 66 UN countries, I mean with a passport in my pocket and boots on the ground. Both ways of counting matter. Both are true. And both, I think, tell us something about the power of connection – whether through a contact logged at 2 a.m. during a rare DXpedition, or by shaking hands in a foreign marketplace.



Someday I may fill in that last blank space in the log. Until then, it's a good reminder that the world is bigger than any list, and that there's always one more contact – one more country, one more story – waiting out there.

Notes

1: ARRL "DXCC Current Entity List." ARRL 2024.

www.arrl.org/files/file/DXCC/2016%20DXCC%20Current.pdf

2: "Bouvet Island." Wikipedia. Last modified Sept. 2025. https://en.wikipedia.org/wiki/Bouvet_Island

3: "Heard Island and McDonald Islands." Australian Antarctic Division.

<https://www.awe.gov.au/environment/antarctic/heard-island>

4: "DXCC Standings by Entity." DXMaps. Accessed Sept. 2025. <https://www.dxmaps.com/dxccstandings.html>

5: NomadMania. "People Who Have Visited Every Country."

<https://nomadmania.com/people-who-visited-every-country/>

6: "How Many People Have Been to Every Country in the World?" Reddit r/solotravel thread, July 2024.

<https://www.reddit.com/r/solotravel/comments/1erxskb/>



Editor Notes



The SFI continues in the 150 to 190 range, reaching 198 for awhile. Kp has remained around 1 to 3. Nothing our sensors can see on the sun suggest major changes so conditions look promising for CQP.

The continuous signal on 7260 sending “AAAA...” [or “NNNN...” if you're left-handed] is still there as the JUG went to press. It's quite strong here in Sparks.

Be sure to check out N6TV's full album of Picnic photos. File size for JUG limited the number included.

HV Farads For Sale

Planning to shunt-load a tower? Build a big tube amp? Design a QRO phasing network? Then check this list of vacuum variable and high-voltage (a.k.a. doorknob) capacitors. Prices are VERY reasonable and all proceeds go to Garry Shapiro, NI6T, who is very ill. Photos available on request. Please contact me off-list.

Gary NA6O gwj@me.com

Vacuum Variables, \$100 ea

Jennings GCS-100-7.5S 5-100 pF, 7500 V. Small gear on end of shaft

Jennings USLS-465-5DI542, 5-465 pF, 5 kV at max cap.

Jennings USL-500, 7-500 pF, bare shaft.

Jennings USL-500, 7-500 pF, with full gear train with limit switches, 24 VDC motor, and 15-pin connector. Very nice assembly! \$120 for this one.

High-Voltage Ceramic Doorknobs \$5 ea

4ea Sprague 500p 20kV doorknob

5ea 100p 5kV N750 doorknob

2ea 1500p 20kV N4700 doorknob

1ea 200p 7.5kV doorknob

1ea Sprague 715C .011 6kV doorknob

Other High-Voltage Capacitors \$1 ea

5ea 1500p 6kV disc ceramic

8ea 3300p 3kV disc ceramic

3ea 4700p 4kV disc ceramic

1ea .002 10kV disc ceramic

1ea Sprague Vitamin Q .005 6.5kV cylindrical, glass

1ea Plastic Cap Corp HG70-502 .005 7kV cylindrical, glass

2ea Sangamo type A2 600p 2500 WVDC flat transmitting mica



About NCCC

Officers and Directors, 2023-2024 Contest Season

President: David West, [KO6M](#)
Vice-President/Contest Chairman: **VACANT**
Secretary: Victor Denisov, [N6DVS](#)
Treasurer: Nian Li, [WU6P](#)
Past President: David Jaffe, WD6T
Director: Jim Brown, [K9YC](#)
Director: Jeff Stai, [WK6I](#)
Director: Ed Radlo, [AJ6V](#)

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Awards Chair: Gary Johnson, [NA6O](#)
California QSO Party Chair: Dean Wood, [N6DE](#)
QSL Mgr [[K6ZM](#)]: **VACANT**
QSL Mgr [[K6CQP/N6CQP/W6CQP](#)]: [Dean Wood](#), N6DE
NAQP Teams: **VACANT**
NA CW Sprint Teams: Bob Vallio, [W6RGG](#)
NCCC Email Reflector Admin: Phil Verinsky, [W6PK](#)
Worked All CA Counties Award: Fred Jensen, [K6DGW](#)
Photographer: Bob Wilson, N6TV

NCCC Thursday Night Contesting

NCCC Sprint: Tom Hutton, [N3ZZ](#)
NS CW Ladder: Bill Haddon, [N6ZFO](#)
NS RTTY Sprint/Ladder: Ed Radlo, [AJ6V](#)

Communications

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Webinars: Bill Fehring, [W9KKN](#)
Membership: Gary Johnson, [NA6O](#)/Ian Parker, [W6TCP](#)

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NCCC Membership Information

If you wish to join NCCC, please fill out an application for membership, which will be read and voted upon at our monthly meeting. To join, you must reside within club territory which is defined as everything in California north of the Tehachapi's up to the Oregon state line, and part of northwestern Nevada (anything within our ARRL 175-mile radius circle centered at 10 miles north of Auburn on Highway 49).

Life Memberships

Life memberships are \$250.00 Contact secretary.nccc@gmail.com. Members who have reached 80 years of age have and been an NCCC member for 20 or more years are eligible for Honorary Life Membership ("80/20 Rule"). Contact secretary.nccc@gmail.com

JUG Articles Wanted!

Please consider submitting an article! The preferred format is plain, unformatted ASCII text MS Word (.doc/.docx) are acceptable, Pictures should be as high a resolution as available. Please do not spend time formatting your submittal, the templates will re-format everything. Send your material to k6dgwnv@gmail.com

Northern California Contest Club Reflector—Guidelines

The NCCC email reflector is devoted to the discussion of contesting. Topics include contests, station building, dxpeditions, technical questions, contesting questions, amateur radio equipment wants/sales, score posting, amateur radio meetings/ conventions, and membership achievements. Postings may not include personal attacks, politics, or off-subject posts. Such postings will be considered a violation of the Guidelines

Find NCCC on Social Media

Facebook: "Northern California Contest Club"

Twitter: "NCCCKB"



NCCC Lands' End Store

We are pleased to announce that the new NCCC Land's End store is online! You can choose from an array of shirts, jackets, and hats and apply your choice of custom-embroidered NCCC logos: A plain one, or one that also says Fifty Years. And, you can personalize your item by adding your name and/or call sign. The store is open 24/7 and items are shipped directly to you. No more waiting for everyone else to make up their minds on a group purchase.

<https://business.landsend.com/store/nccc/> or from the NCCC website: <http://nccc.ccc/members/lestore.html>

Thanks to W6TCP for helping to set this up. Instructions for purchases from Lands' End NCCC Store

1. Go to <https://business.landsend.com/store/nccc/>
2. Click on Men's or Women's link, then choose item(s)
3. Pick color, enter quantity of each size you want to order.
4. Click Apply Logos and Personalizations. This will display the logo choices. Try them out. It will show you what they look like on your chosen fabric color.
5. Select a location for logo (left side, right side, back, etc)
6. Click Apply Logo.
7. Optionally, click Add Personalization to add your name or call sign (\$8.00, 10 character limit)
8. Click Add to Bag and Continue Shopping or.



Northern California Contest Club

Excellence In Amateur Radio Contesting

K4 HIGH-PERFORMANCE DIRECT SAMPLING SDR



A direct-sampling SDR you'll love to use

Our new K4 transceiver harnesses advanced signal processing while retaining the best aspects of the K3S and P3. It features a 7" touch display, plus a rich set of dedicated controls. Per-VFO transmit metering makes split mode foolproof. Band-stacking registers and per-receiver settings are versatile and intuitive. Control usage information is just one tap away thanks to a built-in help system.

Modular, hybrid architecture adapts to your needs

The basic K4 covers 160-6 m, with dual receive on the same or different bands. The K4D adds diversity receive, with a full set of band-pass filters for the second receiver. (Thanks to direct RF sampling, there's no need for crystal filters in either the K4 or K4D.) The K4HD adds a dual superhet module for extreme-signal environments. Any K4 model can be upgraded to the next level, and future enhancements—such as a planned internal VHF/UHF module—can be added as needed.

Single or dual panadapter, plus a high-resolution tuning aid

The main panadapter can be set up as single or dual. Separate from the main panadapter is our per-receiver *mini-pan* tuning aid, with a resampled bandwidth as narrow as +/- 1 kHz. You can turn it on by tapping either receiver's S-meter or by tapping on a signal of interest, then easily auto-spot or fine tune to the signal.

Comprehensive I/O, plus full remote control

The K4's rear panel includes all the analog and digital I/O you'll ever need. All K-line accessories are supported, including amps, ATUs, and our K-Pod controller. The Video output can mirror the K4 screen or display a high-res Panadapter only screen. Via Ethernet, the K4 can be 100% remote controlled from a PC, notebook, tablet, or even another K4, with panadapter data included in all remote displays. Work the world from anywhere—in style!

K4 KEY FEATURES

Optimized for ease of use

Modular, upgradeable design

7" color screen with touch and mouse control

ATU with 10:1+ range, 3 antenna jacks

Up to 5 receive antenna sources

Full remote control via Ethernet



The K4 interfaces seamlessly with the KPA500 and KPA1500 amplifiers

'The performance of their products is only eclipsed by their service and support. Truly amazing!' Joe - W1GO



For complete features and specifications visit elecraft.com • 831-763-4211

Start Secure Check out. Account creation and credit card required.

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***Free Shipping and Fast Delivery!**



IC-9700 | All Mode Tri-Band Transceiver

• VHF/UHF/1.2GHz • Direct Sampling Now Enters the VHF/UHF Arena • 4.3" Touch Screen Color TFT LCD • Real-Time, High-Speed Spectrum Scope & Waterfall Display • Smooth Satellite Operation



IC-718 | HF Transceiver

• 160-10M** • 100W • 12V operation • Simple to use • CW Keyer Built-in • One touch band switching • Direct frequency input • VOX Built-in • Band stacking register • IF shift • 101 memories



IC-V3500 | 144MHz FM Mobile

• 65W of Power for Long Range Communications • 4.5 Watts Loud & Clear Audio • Modern White Display & Simple Operation • Weather Channel Receive & Alert Function



IC-7851 | HF/50MHz Transceiver

• 1.2kHz "Optimum" roofing filter • New local oscillator design • Improved phase noise • Improved spectrum scope • Dual scope function • Enhanced mouse operation for spectrum scope



IC-705 | HF/50/144/430 MHz All Mode Transceiver

• RF Direct Sampling • Real-Time Spectrum Scope and Waterfall Display • Large Color Touch Screen • Supports QRP/QRPp • Bluetooth® and Wireless LAN Built-in



IC-2300H | VHF FM Transceiver

• 65W RF Output Power • 4.5W Audio Output • MIL-STD 810 G Specifications • 207 alphanumeric Memory Channels • Built-in CTCSS/DTCS Encode/Decode • DMS



IC-7300 | HF/50MHz Transceiver

• RF Direct Sampling System • New "IP+" Function • Class Leading RMDR and Phase Noise Characteristics • 15 Discrete Band-Pass Filters • Built-In Automatic Antenna Tuner



IC-7100 | All Mode Transceiver

• HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions

IC-V86 | VHF 7W HT

• 7W Output Power Plus New Antenna Provides 1.5 Times More Coverage • More Audio, 1500 mW Audio Output • IP54 & MIL-STD 810G-Rugged Design Against Dust & Water • 19 Hours of Long Lasting Battery Life • 200 Memory Channels, 1 Call Channel & 6 Scan Edges



IC-7610 | HF/50 MHz All Mode Transceiver

• Large 7-inch color display with high resolution real-time spectrum scope and waterfall • Independent direct sampling receivers capable of receiving two bands/two modes simultaneously



IC-2730A | VHF/UHF Dual Band Transceiver

• VHF/UHF, UHF/UHF simultaneous receive • 50 watts of output on VHF and UHF • Optional VS-3 Bluetooth® headset • Easy-to-See large white backlight LCD • Controller attachment to the main Unit



IC-T10 | Rugged 144/430 MHz Dual Band

• Disaster Ready - Excellent Fit for Your Emergency Bag • Loud Audio - New Speaker Design • Long Battery Life - Up to 11 Hours • FM Broadcast & Weather Channels



IC-R8600 | Wideband SDR Receiver

• 10 kHz to 3 GHz Super Wideband Coverage • Real-time Spectrum Scope w/Waterfall Function • Remote Control Function through IP Network or USB Cable • Decodes Digital Incl P25, NXDN™, D-STAR • SD Card Slot for Receiver Recorder



ID-5100A Deluxe VHF/UHF Dual Band Digital Transceiver

• Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch

ID-52A | VHF/UHF D-STAR Portable

• Bluetooth® Communication • Simultaneous Reception in V/V, U/U, V/U and DV/DV • Enriched D-STAR® Features Including the Terminal Mode/Access Point Mode • UHF (225-374.995MHz) Air Band Reception



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FTDX101MP | 200W HF/50MHz Transceiver

- Hybrid SDR Configuration • Unparalleled 70 dB Max. Attenuation VC-Tune • New Generation Scope Display 3DSS • ABI (Active Band Indicator) & MPVD (Multi-Purpose VFO Outer Dial) • PC Remote Control Software to Expand the Operating Range • Includes External Power With Matching Front Speaker



FT-710 Aess | HF/50MHz 100W SDR Transceiver

- Unmatched SDR Receiving Performance • Band Pass Filters Dedicated for the Amateur Bands • High Res 4.3-inch TFT Color Touch Display • AESS: Acoustic Enhanced Speaker System with SP-40 For High-Fidelity Audio • Built-in High Speed Auto Antenna Tuner



FTM-400XD | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band



FTDX10 | HF/50MHz 100 W SDR Transceiver

- Narrow Band and Direct Sampling SDR • Down Conversion, 9MHz IF Roofing Filters Produce Excellent Shape Factor • 5" Full-Color Touch Panel w/3D Spectrum Stream • High Speed Auto Antenna Tuner • Microphone Amplifier w/3-Stage Parametric Equalizer • Remote Operation w/optional LAN Unit (SCU-LAN10)



FT-891 | HF+50 MHz All Mode Mobile Transceiver

- Stable 100 Watt Output • 32-Bit IF DSP • Large Dot Matrix LCD Display with Quick Spectrum Scope • USB Port Allows Connection to a PC with a Single Cable • CAT Control, PTT/RTTY Control



FT-70DR C4FM/FM 144/430MHz Xcvr

- System Fusion Compatible • Large Front Speaker delivers 700 mW of Loud Audio Output • Automatic Mode Select detects C4FM or Fm Analog and Switches Accordingly • Huge 1,105 Channel Memory Capacity • External DC Jack for DC Supply and Battery Charging



FT-991A | HF/VHF/UHF All Mode Transceiver

- Real-time Spectrum Scope with Automatic Scope Control • Multi-color waterfall display • State of the art 32-bit Digital Signal Processing System • 3kHz Roofing Filter for enhanced performance • 3.5 inch Full Color TFT USB Capable • Internal Automatic Antenna Tuner • High Accuracy TCXO



FTM-300DR | C4FM/FM 144/430MHz Dual Band

- 50W Output Power • Real Dual Band Operation • Full Color TFT Display • Band Scope • Built-in Bluetooth • WIRES-X Portable Digital Mode/Mod Node with HRI-200



FT-5DR C4FM/FM 144/430 MHz Dual Band

- High-Res Full-Color Touch Screen TFT LCD Display • Easy Hands-Free Operation w/Built-in Bluetooth® Unit • Built-in High Precision GPS Antenna • 1200/9600bps APRS Data Communications • Supports Simultaneous C4FM Digital • Micro SD Card Slot



FTDX101D | HF + 6M Transceiver

- Narrow Band SDR & Direct Sampling SDR • Crystal Roofing Filters Phenomenal Multi-Signal Receiving Characteristics • Unparalleled - 70dB Maximum Attenuation VC-Tune • 15 Separate (HAM 10 + GEN 5) Powerful Band Pass Filters • New Generation Scope Displays 3-Dimensional Spectrum Stream



FT-2980R | Heavy-Duty 80W 2M FM Transceiver

- 80 watts of RF power • Large 6 digit backlit LCD display for excellent visibility • 200 memory channels for serious users



FT-6SR | 144/430 MHz Transceiver

- Compact Commercial Grade Rugged Design • Large Front Speaker Delivers 1W of Powerful Clear Audio • 5 Watts of Reliable RF Power Within a compact Body • 3.5-Hour Rapid Charger Included • Large White LED Flashlight, Alarm and Quick Home Channel Access



FTM-200DR | C4FM/FM 144/430MHz Dual Band

- 1200/9600bps APRS® Data Communications • 2" High-Res Full-Color TFT Display • High-Speed Band Scope • Advanced C4FM Digital Mode • Voice Recording Function for TX/RX



FTM-6000R | 50W VHF/UHF Mobile Transceiver

- All New User Operating Interface-E20-III (Easy to Operate-III) • Robust Speaker Delivers 3W of Clear, Crisp Receive Audio • Detachable Front Panel Can Be Mounted in Multiple Positions • Supports Optional Bluetooth® Wireless Operation Using the SSM-BT10 or a Commercially Available Bluetooth® Headset



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