



Fresno Amateur Radio Club Newsletter August 2010 Volume 72, Issue 8

Our next meeting will be August 13 at 7:00 PM. The program will be on antenna tuners. Meeting place: Cedar Lanes Bowl—Cedar and Shields Aves. Come to the meeting and enjoy the camaraderie with your fellow hams.



# The Prez Sez

## FARC General Meetings

Are held the 2nd Friday of each month, 7 p.m. at Cedar Lanes unless otherwise noted.

### 2010 FARC BOARD MEETING DATES

1st Tuesday of each month  
Woodward Park Library at  
Champlain and Perrin.

## FARC Nets

Morning Drive Time Net:  
Weekday mornings-7:30—  
8:00 a.m.

W6TO/R 146.940

### Tech Net:

Wednesdays @ 7:00 pm

W6TO/R 146.940

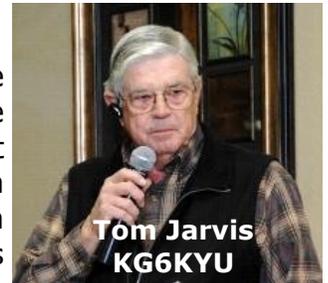
### FARC Net:

Sundays @ 7:00 pm

W6TO/R 146.940

CQ ,CQ

Our Summer Picnic will be over by the time Skip hits the email (use to be hits the streets). I know some members won gift cards to Starbucks, look them up and get a free cup of coffee. A big thank you to Ken and Gwynne Holden for always making this a great day.



Tom Jarvis  
KG6KYU

Dan Pruitt, AE6SX, our San Valley Section Manger has been doing a great job this past year. He gives a lot of his time for our weekly reports on our Sunday night net. Dan also is on top of keeping us informed on what going on at ARRL. As most of you know Dan is involved with other groups in Ham Radio. I Just wanted to say THANKS Dan for a job well done.

We have elections coming up in October. Maybe it's time for you to join the Board of Directors. We are always looking for new faces and especially new ideas on how to keep FARC the number one Radio Club in Fresno. So throw your name in the pot and get elected.

*(continued on page 3)*

## **Fresno Amateur Radio Club**

### **FARC BOARD OF DIRECTORS**

FARC Officers:

Tom Jarvis, Pres. - KG6KYU	<a href="mailto:kg6kyu@w6to.com">kg6kyu@w6to.com</a>	(559) 916-2445	12/2011
Craig Carter V.P. —K6QI	<a href="mailto:k6qi@w6to.com">k6qi@w6to.com</a>	(559) 284-1722	12/2011
Jim Erbe, Sectry - WA6NIF	<a href="mailto:wa6nif@w6to.com">wa6nif@w6to.com</a>	(559) 222-7524	12/2011
Ron Hunt, Treas - N6MTS	<a href="mailto:n6mts@w6to.com">n6mts@w6to.com</a>	(559) 289-8514	12/2010

Board Members:

Aaron Lusk, K6USY	<a href="mailto:k6usy@w6to.com">k6usy@w6to.com</a>	(559) 301-1022	12/2010
John McGraw, AE6QR	No E-Mail	(559) 255-2349	12/2010
Ken Holden, —WA6OIB	<a href="mailto:wa6oib@w6to.com">wa6oib@w6to.com</a>	(559) 323-6753	12/2010
Charles McConnell, W6DPD	<a href="mailto:w6dpd@w6to.com">w6dpd@w6to.com</a>	(559) 431-2038	12/2010
Dave Smith, W6TE	<a href="mailto:w6te@w6to.com">w6te@w6to.com</a>	(559) 323-6095	12/2011
Joseph Capell, W0PJD	<a href="mailto:W0PJD@me.com">W0PJD@me.com</a>	(559) 225-3582	12/2011
Jack Baker, AC6LT	<a href="mailto:ac6lt@CVIP.net">ac6lt@CVIP.net</a>	(559) 297-4311	12/2010

Mark your calendars for every Thursday, for the lunch gathering at the *Silver Dollar Hofbrau* at the corner of Hwy 41 and Shaw. It starts at 12 noon and there is a table reserved in the back room.

Also every Monday and Saturday at the *Country Waffles* at Blackstone and Dakota starting at 7am.

Lastly, Breakfast every Tuesday at *Yosemite Falls Cafe* at Blackstone and Shaw starting at 8am.



**Support our advertisers in SKIP. They support us not only in revenue for the club but they also allow us space on the counters and shelves for copies of SKIP and other club announcements.**

Please send items for SKIP to  
Editor Dave Smith W6TE.  
[w6te@msn.com](mailto:w6te@msn.com)  
559 323-6095

### **Amateur Radio Event Calendar**

<u>Date</u>	<u>Event</u>	<u>Date</u>	<u>Event</u>
Aug 3	FARC BOD	Sept 4-5	EME Contest 2.3 Ghz & up
Aug 6	CARP General Meeting	Sept 7	FARC BOD
Aug 7-8	ARRL UHF Contest	Sept 10	FARC General Meeting
Aug 7-8	10-10 Summer QSO Party	Sept 11-13	ARRL VHF QSO Party
Aug 7-8	North American QSO Party	Sept 17	SJVARS General Meeting
Aug 13	FARC General Meeting	Sept 17-19	ARRL SW Division Hamfest
Aug 14	Amateur Radio Exams	Sept 18	CARP SWAP Meet
Aug 15	ARRL Aug Rookie Roundup	Sept 19-20	QCWA QSO Party
Aug 20	SJVARS General Meeting	Sept 20	North American Sprint
Aug 24	QCWA Luncheon	Sept 28	QCWA Luncheon

**Fresno Amateur Radio Club**

August Program: Antenna tuners. The myth and fantasy. With show and tell stuff. No video stuff required.

September Program: DX stuff. Getting a video from Charles to show about sorta recent DX. Lame tips from me and whoever else I can rope in for the upcoming Fall and Winter DX season.

October Program: TBD (In fact I may not be able to make this meeting. Heading up to Portland for a few days. Not sure of the dates yet.)

73 Craig K6QI  
[k6qi@yahoo.com](mailto:k6qi@yahoo.com)  
[www.k6qi.org](http://www.k6qi.org)

*(The Prez Sez continued)*

This is early, but remember the FARC swap meet is in November, start getting your things ready.

Our Skip is getting bigger and better with each issue. This takes a lot of time and thought putting it together each month. We have a Skip that we can be very proud of. The next time you see Dave, W6TE, tell him how much we appreciate all of his hard work.

73, Tom



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**Thanks to Richard Pack, KE6SHL, for providing many of the photographs included in SKIP.**

No Membership Attendance award for July.



## Local Amateur Radio Repeaters

<u>Organization</u>	<u>Call Sign</u>	<u>Frequency</u>	<u>Offset</u>	<u>PL</u>
AARC	WB6QDN	146.610	-	NONE
CARP	K6ARP	147.675	-	141.3
CARP	N6JXL	224.380	-	141.3
CARP	K6ARP	444.725	-	141.3
CARP	NI6M	440.350	+	141.3
CONDOR	WB6BRU	224.900	-	156.7
FARC	W6TO	146.940	-	NONE
FARC	W6TO	223.940	-	NONE
FARC	W6TO	444.200	-	NONE
FRESNO	N6MTS	145.230	-	141.3
KINGS ARC	KA6Q	145.110	-	100.0
KJ6KO	KJ6JO	927.6625/902.0125	-	146.2
MADERA ARC	W6WGZ	147.180	+	146.2
MADERA ARC	W6WGZ	441.175	-	146.2
QCWA	WQ6CWA	146.850	-	141.3
QCWA	WQ6CWA	443.250	+	107.2
RACES	N6HEW	147.150	+	141.3
SJVARs	KE6JZ	146.820	-	141.3
TURLOCK ARC	W6BXN	147.030	+	100.0
WA6NIF	WA6NIF	444.100	+	100.0
WIN/SYSTEM	K6JSI	146.790	-	100.0

### **Birthdays:**

Joe Cardoza WB6JQC Aug 5  
 Ken Holden WA6OIB Aug 6  
 Troy Ford KI6ZOY Aug 10  
 William Holland KF6VBZ Aug 20

### **Anniversaries:**

Red and Pat Stillman W6AE Aug 9  
 Ted & Norma Miller W6TLM Aug 26  
 Troy & Anita Ford KI6ZOY & KI6ZOZ Aug 23

## FARC FIELD DAY 2010



Marshall, WA6PRE (sitting) and Dave, KA6VTA

**Fresno Amateur Radio Club**

**Amateur of the Month Duane Lutz KI6QEL, by Joe Capel W0PJD**

If you tune to any of the club repeaters on a weekday morning between 7:30 and 8:00 AM, you would hear Ben, WB6GBS and Duane, KI6QEL giving road condition summaries, sunspot reports and a club events calendar.

Duane Lutz, KI6QEL is our ham bio this month. He is a Fresno native. He attended McLane, graduating in 1973 and then a few years at Fresno City College. He worked in photography and photo labs for a Fresno company initially, then the Fresno Police Department photographing crime scenes for 13 years. Thereafter, staying with municipal agencies, he worked for the Fresno Fire Department in supplies and services til 2004. A mishap sidelined him for a while but not he is working for Fresno Produce in computer support. Before that, he worked as a bus driver for special education students.

He has always been interested in radio. There always seemed to be a scanner or citizen band radio working around him, but it wasn't til a few years ago, after listening to 2 meter OSO's that he finally contacted Ted Miller, W6TLM with interest in getting a ham license. Ted informed him, to his delight, that Morse

code was no longer necessary. The rest is history. He earned a technician class ticket in May, 2008 and upgraded to general in February 2010 after attending the club 's general class license course at Northwest Church.

His favorite aspect of ham radio includes discovering high frequency and long distance QSO's, antenna construction and hidden transmitter hunts.

In addition to the morning drive net, for which he was introduced as the "mystery" net control operator this last Spring, he and his wife of 26 years, Karen, were the 2010 Field Day Saturday evening barbecue chefs.



**VISIT W6TO.COM**

**THE DX CORNER by Charles McConnell W6DPD**

If you want help with DX, you can contact the local members of the Central California DX Club for some assistance. Charles W6DPD 431-2038, Perry K6XJ 299-2802, or Jim WS6X 292-8353 can give you advice. The big thing about finding DX is to tune the bands. Check out the Central California DX Club Web page at <http://www.ccdxc.org> for information and useful links.



The local DX'ers meet on the first Saturday of the month for breakfast at Carrow's, 4280 N. Blackstone in Fresno. The group gathers between 0700 and 0800. All are welcome.

Check out [www.spaceweather.com](http://www.spaceweather.com) and [www.solarcycle24.com](http://www.solarcycle24.com) for information on the solar cycle. The higher the solar flux and the lower the A and K Indices, the better the band conditions. The sun is not cooperating by providing sunspots at this time; there are lots of blank days.

October 10, 2010, should be the date for new entities for the DXCC list as some of the Netherlands Antilles become independent or their status changes within the Dutch government. There probably will be 2 deletions and up to 4 additions.

In 2011, people in the southern Sudan will vote on whether to become independent from Sudan. If the vote is for independence, Southern Sudan could return to the DXCC List.

The address of the Sixth District QSL Bureau is P. O. Box 970, Fairfax CA 94978-0970. You can send up to 10 address labels and \$0.70 for each envelope to the address above. They will put 1 unit of First Class postage on the envelope.

Postage rates around the world are constantly changing. To see current rates go to [http://www.qsl.net/w9ol/IRC\\_Chart.htm](http://www.qsl.net/w9ol/IRC_Chart.htm) where you can find the current postal rates for most of the countries of the world. IRCs can be ordered online from the US Post Office.

If you don't get a DX Bulletin and you belong to ARRL, you should register on the members only web page and check the box for the ARRL DX Bulletin. This one is emailed each Thursday. Or you can go to the ARRL web page in the News/ Bulletin section and view the bulletins there. You can also read the OPDX Bulletin or the 425 DX Bulletin on the web. Search OP DX Bulletin or 425 DX Bulletin to get the URL. You can subscribe to the Daily DX, Weekly DX or QRZ DX too. These bulletins will keep you informed of DX operations and QSL information.

- The following operations are scheduled:
- Afghanistan T6TL and T6JC Oct 2010 to May 2011
  - Bahrain A92IO now through August 2011
  - Wake Island KH9/WA2YUN now through 2010
  - Djibouti J28AA now for at least a year
  - Djibouti J28JV soon for at least a year, maybe 2
  - Lebanon OD5/DL6SN now to December 2010
  - South Shetlands DT8A now to February 2011
  - Angola D2CQ February 2010 for a few years.
  - Aves Island YV0A early 2010??
  - Marion Island ZS8M May, 15 2010 to April 2011
  - Burkina Faso July 15 to August 10, 2010
  - Rwanda 9X0TL July 21 to September 2010
  - Egypt SU/HA3JB September to November 2010
  - St. Maarten PJ7 beginning October 10, 2010
  - Sable Island CY0 October 22 to November 1, 2010
  - Greenland OX October 20 to October 30, 2010
  - Botswana A2 October 21 to November 4, 2010
  - Senegal F5NFV.6W Oct 25 to Nov 1, 2010
  - Kermadec ZL8X November 19 to December 5, 2010
  - Jarvis Is N5E Scheduled for Nov 17 to Dec 1, 2010
  - Juan Fernandez XR0ZN postponed the end of 2010
  - Spratly Islands DX0DX Jan 6 to Jan 24, 2011
  - South Orkney Islands VP8O Jan 27 to Feb 8, 2011
  - Jan Mayen JX July 4 to July 14, 2011

Watch the DX Bulletins for up to date information. As the time for the operation is at hand, watch the DX Summit ([www.dxsummit.fi](http://www.dxsummit.fi)) for listings. There are a number of state QSO parties each year. Check the contest corral in QST or the ARRL web page. State QSO parties are a good place to collect states for your Worked All States award. ARRL Log Book of the World now supports the Worked All States Award.

Good luck, tune the dial, and listen.

FRESNO ENCOMM ARES/RACES by Dan Pruitt AE6SX

Summer! Growing up it was always the time for change, new schools new friends and new geography! EmComm is no different. The State and County Budgets felt the crunch and the recourse is 'Volunteers', so we have been cultivating our served agency contacts and we have a full schedule through next year. After action reports on Field Day were surprising, both pro and con. Keeping an eye on training and finding some continuity in the world keeps us in a hurried state most of the time.



San Joaquin Valley now has 2 very capable Coordinators splitting the Section in 2, North and South. The SEC position is still vacant however we are fortunate to have 2 effective EmComm Managers. Fresno is in the Southern District and this is Fire Season! This should allow us more informed planning and awareness. We'll keep you up to date on the happenings in the South.

The FCC reacted comparatively fast in creating a Report & Order allowing limited disaster drill participation by employees. Taking effect 30 days after being posted in the Federal Register, no waivers will be required.

An interest in Amateur Radio by served agencies has increased the demand on our resources. This, in turn, has required that we ensure our personnel are trained for their role. A calendar for next year is already being authored. Served agencies are looking to us for training and as a unilateral resource for each other. The Salvation Army has requested a Technician License Class. Some Fresno CERT volunteers have decided to get licenses. This may be due to the Chief Instructor, having paid us a visit over Field Day. In any event CERT and Amateur EmComm could and should be a collaborative effort.

ARRL is doing an "Out with the old and in with the New!". We are aware of the new Ad-

vanced EmComm Course. Now, registration is closed for the Level One ARECC and that program is to be retired and reinvented as the Basic EmComm Course, promised in December. This is good as the old program was off-site and the new will all be done within the New Website. This evolution will be welcomed.

I have had the chance to see how some other groups are doing training. The Served agencies are becoming more flexible and even the FCC has allowed room to drill and train. We have to focus on what FEMA, DHS, and Public Safety teaches and conform to their needs. When I was in the retail business, if you didn't do what the customer wanted, or have what they needed, well you didn't have customers! Our product is EmComm and we can't be of service, if it is not what the Served Agency requires. We will do regular classes and increase our commitment.

Field Day, Murphy sure is sneaky. We did a lot of new installs, they worked. We did some digital last year but this year, we upgraded the digital program and found it would not key the xmtrs. We didn't test it before FD. So starting now, we are going to do 'hands on radio' on a regular basis to test and maintain the SATERN EOC in a better state of readiness, not just for events. We also need to be able to train new people at a moments notice.

73 de Dan AE6SX

**NET:** Monday 1930 hrs local on 147.150+, PL 141.3

**Monthly:** meetings, the 4th Thursday of each Month  
Salvation Army Citadel, 1854 N. Fulton 1900 hrs

**EmComm and Coffee:** 0830 hrs, 3rd Friday  
Yosemite Falls Cafe on Blackstone and Shaw

**Web:** [www.fresnoares.com](http://www.fresnoares.com) or [www.fresno-races.net](http://www.fresno-races.net). You can contact us directly at [info@fresnoares.com](mailto:info@fresnoares.com)

**Fresno Amateur Radio Club**

**FARC FIELD DAY 2010 PINE RIDGE SCHOOL**



**4087 km on 2m (The history of first VHF contact between W and KH6 in 1957)**

**West Coast to Hawaii on 144 Mc.!  
W6NLZ and KH6UK Shatter  
2-Meter Record**

On July 8, at 2130 PST [1957], W6NLZ listened, as he had nightly for more than 9 months, for the 144-Mc test by KH6UK, 2600 miles away at Kahuku, on the Island of Oahu. The signal was in there!

The 5-minute transmission seemed hours long. How could a miracle like this be expected to last through 5 minutes? But it did, and much longer. W6NLZ replied at the appointed time, shaking with excitement, and the 7-year 1400-mile record was broken by a margin beyond most 2-meter men's fondest dreams.

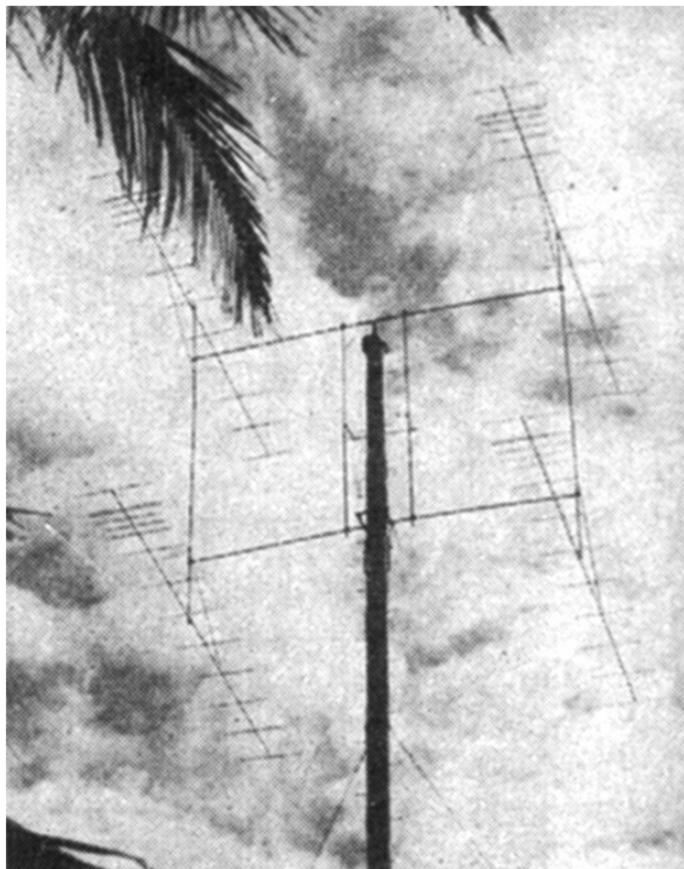
Both stations run kilowatt rigs. The antenna at W6NLZ is a 24-foot Yagi, 35 feet above a fine location at Palos Verdes Estates, with a clear view out over the Pacific. KH6UK has a large multiple-Yagi array. Signals were good c.w. copy, and when W6NLZ concluded his telephone call to W1HDQ at 0150 EST, KH6UK was still riding through. Tape recordings were made by both participants. More details next month!

**QST August 1957**

**The World Above 50 Mc. Conducted by Edward P. Tilton, W1HDQ**

BEYOND - THE - HORIZON work on 5 meters as early as 1926 - the discovery of tropospheric bending in 1934 - sporadic-E DX in 1935 - auroral propagation in 1937 - world wide DX on 50 M.c. in 1946 - tropospheric propagation on 144 Mc at distances beyond 1000 miles in 1950 - aurora work on 220 Mc. in 1954 - these are some of the high spots in vhf. history that can be seen in retrospect by leafing through a QST file. They and other v.h.f. firsts came about, in many instances, because hams were willing to try things that more learned people would have said were impossible.

Practically every known form of long-distance vhf, propagation was first discovered in this way, often by accident. The important factor was a willingness on the part of hams to *try anything!* The for-



**The array that turned the trick at KH6UK is made up of four Gonset "Big Berthas" spaced two wavelengths each way, mounted on an 80-foot pole. Location: Kahuku, on the northern tip of the Island of Oahu.**

mula still works, and no better example has ever turned up than the feat that we reported in brief last-minute fashion last month: two-way communication on 144 Mc across more than 2500 miles of Pacific Ocean. Nobody in his right mind would have given it a chance!

John Chambers, W6NLZ, and Ralph Thomas, KH6UK, first worked on 14-Mc. c.w. on October 20, 1956. From that day on they made regular tests on 144 Mc. From early November to July 8, these averaged better than six per week - all without the slightest indication of signal either way on the higher frequency. For several months the tests had been the same: a short QSO on 14.095 and then a 5-minute test on 144.000 Mc by KH6UK. Results were always the same - nil.

But the true ham never gives up. The tests started after the best of the fall inversions had passed, and the period did not include the king of all the meteor showers, the August Perseids. The summer inversion season and the Perseids shower held out two admittedly forlorn hopes.



**Ralph E. Thomas, KH6UK, cuts a tape for use in his automatic keyer. At the far left of the picture is seen the 1 kW rig with a pair of 4-125A's in the final, that has served both W2UK and KH6UK on 144 Mc. Receiver, center, is an SX-88, with a W2AZL 417-A converter for 144 Mc. Note prized QSLs from W6NLZ and W6NTC in the speaker grille. (source DL-QTC 12/1958 tnx 1VR)**

The evening of July 8 [1957], the inversion layer was clearly visible over the curving coastline from W6NLZ's escarpment location, 910 feet above sea level at Palos Verdes Estates, at the southern end of Santa Monica Bay. It was a long way to Hawaii, to be sure, but at least the West Coast end looked good. Weather information indicated that a highly stable inversion had been building up for several days. At Kahuku, on the northern tip of the Island of Oahu, the afternoon of July 8 was

like any other summer day in Hawaii. Nothing showed that tonight would be any different from the more than 200 others when the 144-Mc tests had been made. Tommy had given up listening on 2 long ago. The transmitters of RCA Communications filled the band with birdies, and he had seldom heard any 2-meter signals, anyway. But the transmitting tests still were made, and the W2AZL converter and SX-88 were ready to go, if anything happened.

The 2130 PDT sked was like all the rest: the exchange on 14.095, and the transmission on 144.000. But this time, as soon as W6NLZ got his 75A3 on frequency with the 417A converter - there was KH6UK! "Can it be? Is somebody pulling my leg? Am I getting it, feed-through? Am I dreaming?" All these and other thoughts raced through John's mind and then came a wait that seemed an eternity, while the automatic transmission from KH6UK droned on. *Would the guy never stand by?*

No hurry about turning the thing off, Tommy thought, and the test ran on for some seven minutes before he heard W6NLZ calling him frantically on 14.095. Then came the quick change, the breathless moments, the fumbling sending, as two old c.w. hands who ragchew easily at 40 w.p.m. fell all over themselves in a rush of buck fever that is familiar to any ham who has tottered on the brink of a really big break. But the two-way worked - and good!

Signal reports were exchanged, and a few fumbling attempts at felicitation, and then on to see what else could be done while the rare opportunity still held. Tape recordings made at KH6UK tell the story. A period of birdies from the RCA transmitters, and then after some delay, a rather halting c.w. sig calling. A slow (this time) "QRZ de KH6UK" is followed by a call from W6NTC.

Would this be someone a few miles east of W6NLZ, ready to claim the record, now that John had done the heavy spadework?

## **FARC SWAP MEET IS IN NOVEMBER**

Tommy replied with mixed feelings - and then learned that W6NTC is Mrs. W6NLZ, who was called in to run the rig while John placed a telephone call to W1HDQ.

The W6NTC - KH6UK QSO was still going on as John passed along the hot news over the land-line at 0150 EDT, to your very sleepy conductor. But it was the last QSO over the 2540-mile circuit. Though John called several of the local 2 meter fraternity, none could be found at home with the necessary combination of gear, antenna and location to grab the plum that was waiting to be picked. KH6UK stayed on, calling CQ for three hours, but nothing more was heard but the RCAC birdies, and no other reports have been received of reception of Tommy's signal on the West Coast.

How did it come about? The evidence points toward tropospheric propagation. Tape recordings from both participants show the signal to be essentially steady, with only the slow, typical tropospheric fade. There are no bursts; no wild excursions in signal strength that would almost certainly characterize meteoric or ionospheric reflections. The locations at each end are close to ideal, and the equipment the best obtainable. KH6UK uses the old W2TJK rig with 1 kW. to a pair of 4-125As. The antenna is 4 long Yagis in box formation, with 2-wavelength spacing each way, 80 feet above ground. W6NLZ runs 1 kW to a modified KWS-1, feeding a 24-foot Yagi 35 feet above a location where height above ground is of substantially no importance. His view out over the Pacific and northward along the curve of Santa Monica Bay is incomparable.

But other hams have good locations and fine equipment, and not a few are good operators. W6NLZ and KH6UK have earned undying fame in the annals of amateur radio because they had all the technical wherewithal - plus a willingness to try something that gave every indication of being a lost cause before they started, and to keep on trying it, again and again, in the face of almost certain failure! The job is just started, however. The feat of July 8 showed that it can be done. It remains, now, to show how it came about, and to determine how often it might happen again. Does working across

the Pacific mean that a QSO across the Atlantic is within the realm of possibility? Can equal distances be worked over land areas? We won't know until we try!

**QST September 1957**



**The 2540-mile 2-meter QSO across the Pacific did not "just happen." There were superb stations, big antennas and capable operators at both ends. Above, left, John and Maureen Chambers, W6NLZ and W6NTC, smile happily over their DX record. Transmitter (in front of John) is modified KWS-1, that runs 1 kW on s.s.b. and c.w. on 144 Mc and lower bands. Receiver just visible between the operators is a 75A3, used with a crystal- controlled 417A (acorn tube, ed.) converter on 144 Mc. Communicator serves for local work on voice. The Chambers station comes as close to being "all-band" as any you're likely to see, there being facilities ready for all low frequency bands, plus 50, 144, 220, 432, 1215 and higher microwave assignments. Location, Palos Verdes Estates, is 910 feet above sea level, overlooking the Pacific.**

## KH6HME—W6 Two Meter Ducting—July 2010

**07/24/2010**

**1124** (local) KH6 beacon coming in strong at DM14cp, Larry K6HLH, DM14

**07/25/2020**

**1234** (local) Beacon 5-2-9 w/qsb into CM95ra Mike W6WE

**7/27/2010**

**0905** (local) Hearing the Hawaii 2m beacon S1 in CM98 oq. 100mi+ inland! 73 de KJ6KO

**1119** (local) I think the furthest inland the Hawaiian station has been heard is back in 1995 when I worked KH6HME on 144 MHz from 8000' Peavine Mtn in DM09. That's over 200 miles inland and at the time was 12 miles sort of the all time record at the time which was to the coast of Mexico. 73s de Tim - K7XC - DM09nm...

**1520** (local) Paul is on the air right now. Not many people to work him. S3 here on

SSB. He shuts the beacon off while he is on the air and operates on the beacon freq. KJ6KO CM98

**1541** (local) Paul is here in the Sacramento Valley (at 2241Z) with a S-5 signal strength... Pleasing 59 report...KJ6KO CM98

**1555** (local) Also strong in the San Fernando Valley @ 1555. de N8DEZ DM04

**7/28/10**

**1335** (local) Beacon again today at S1 max. Never heard Paul's voice yesterday. W6WE CM95

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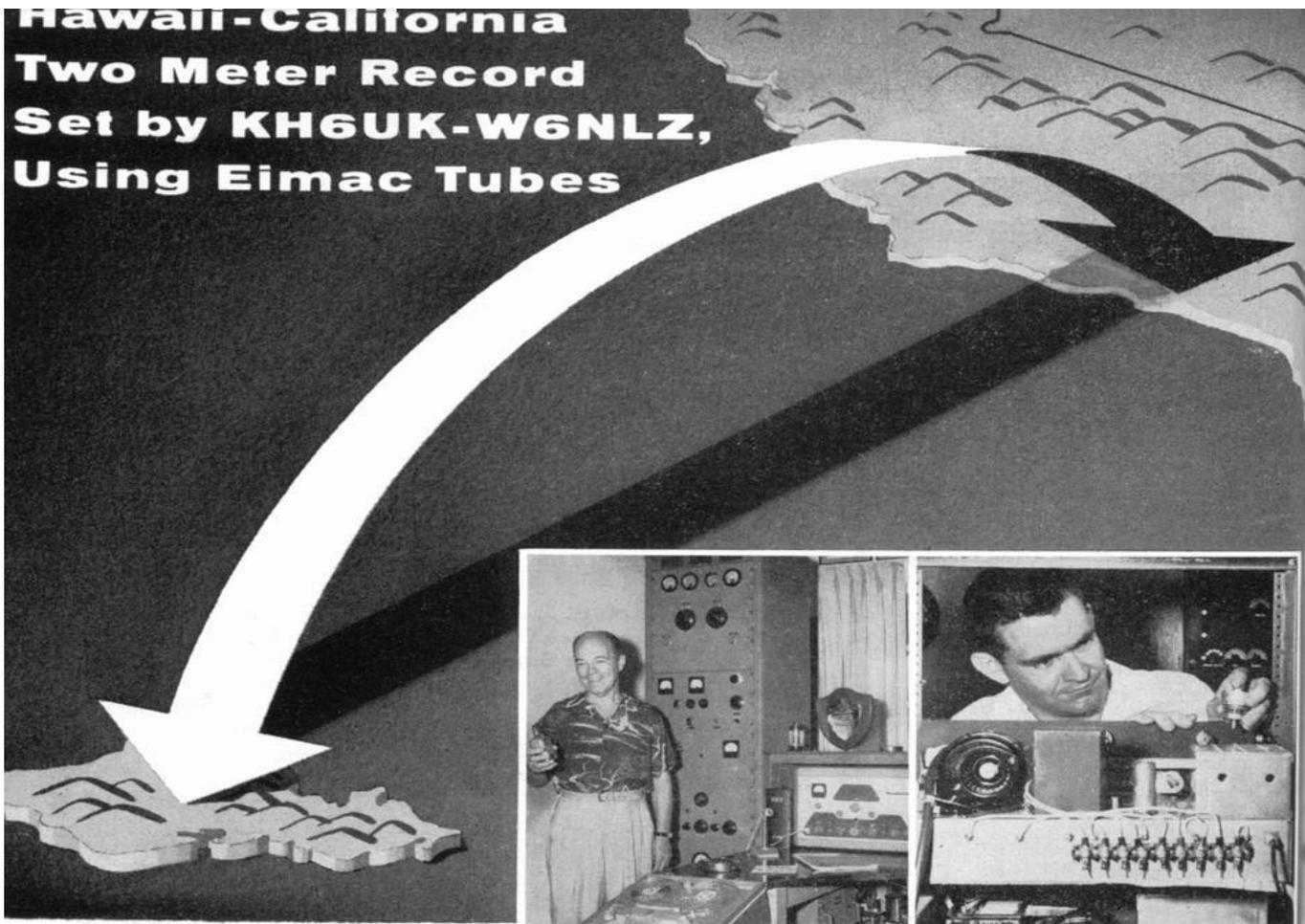
Courtesy of Dave Hartzell, AF6KD, here's three YouTube audio and video recordings of the KH6HME beacons and an FM repeater in Hawaii: [\(1\)](#), [\(2\)](#) and [\(3\)](#). Dave and Gorin, AD6IW, were in CM87, Skyline Blvd, San Me-teo using a TS-2000 and a small Log Periodic antenna. These are from this past weeks opening between HI and CA.

### NEW WORLD RECORD 10 GHz SSB: 2696 Km

On July 10, 2010 at 10:46 AM UTC, a new distance record on 10 GHz SSB has been established between the island of Sal Cape Verde and Portugal in the southern part of the expedition "Hyperatlantica 2010.



**Hawaii-California  
Two Meter Record  
Set by KH6UK-W6NLZ,  
Using Eimac Tubes**



Ralph Thomas KH6UK



John Chambers W6NLZ

On July 8, 1957, Ralph Thomas KH6UK and John Chambers W6NLZ spanned the Pacific from Southern California to Oahu, T.H. on two meters. At 9:33 PM PDST, the first signals came through. Two-way CW contact was established at 10:11 PM PDST, and the last signal faded out at approximately 10:50 PM PDST.\* To W6NLZ and KH6UK goes the distinction of being the first amateurs to cover such a vast distance on two meters . . . a matter of some 2558 air miles. Of significance is the fact that both KH6UK

and W6NLZ used Eimac tubes in their two meter final amplifiers . . . KH6UK running a pair of 4-125A's and W6NLZ employing a pair of 4X250B's, with inputs in both cases approximately one KW. The 120 amateur radio operators at Eimac salute KH6UK and W6NLZ on their achievement and are proud that Eimac tubes were again used in a communications first.

\*On August 18, KH6UK and W6NLZ repeated their record-breaking contact.

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**4-125A CW**  
Typical Operation

Plate volts . . . . . 3000 Volts DC  
Screen volts . . . . . 350 Volts DC  
Plate current . . . . . .167 Amps DC

**4X250B CW**  
Typical Operation

Plate volts . . . . . 2000 Volts DC  
Screen volts . . . . . 250 Volts DC  
Plate current . . . . . .250 Amps DC

## **KH6UK - W6NLZ REPEAT ON 144 MC**

The record 144-Mc, contact of July 8 between KH6UK and W6NLZ was repeated Aug. 18 [1957], under quite similar conditions. Tests made by KH6UK for other West Coast stations were first heard by W6NLZ at 2000 PST. Two-way communication was held from 2050 to 2114, and the signal remained audible until 2127.

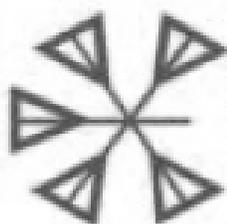
Most of W6NLZ's reception was weaker than during the first QSO. After some minutes of very low signal level at the start, reception improved so that the two-way portion was solid, though never reaching the peaks that marked the first success. KH6UK, on the other hand, recorded clearer reception of W6NLZ than during the July contact, probably the result of less interference from the hf. transmitters of RCA Communications, whose antennas are close by the big array at KH6UK.

When signals were at their best, W6NLZ tried his 144 Mc s.s.b. A tape recording received from KH6UK shows the signal at the threshold of voice readability at this time.

How were these contacts made? Evidence from the Los Angeles Weather Bureau, and scientific opinion gathered by your conductor while attending the URSI General Assembly at Boulder, Cob., point definitely to tropospheric propagation. While the 2540 mile path is some 25 percent longer than any previous proven reception of signals at 100 Mc or higher, some authorities on tropospheric propagation over ocean paths are of the opinion that the new record is far from unbeatable.

One well-known scientist expressed the opinion that conditions favorable to very long-distance work exist frequently in the Doldrums belt. He does not rule out the possibility of 144 Mc, work with Europe, even across the frequently turbulent North Atlantic.

**QST December 1957**



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## 2010 ARRL International DX Contest (CW) SJV Section

#	Call	Score	QSOs	Mult	Class	Power	1-Band	Club
1	AF6EV	330,990	603	187	S	B		NCCC
2	K6YK	245,895	491	169	S	C		
3	W6SX	176,076	408	146	S	C		NCCC
4	K6LE	91,512	247	124	SA			NCCC
5	N6ZM	82,008	278	102	S	C		NCCC
6	N3RC	47,430	184	93	S	B		NCCC
7	K6CSL	33,654	153	79	S	B		NCCC
8	AK7G	33,408	199	58	S		20	
9	K6GGO	22,356	114	69	S	B		
10	K6MI	19,890	106	65	S	A		NCCC
11	K6MEE	19,176	126	68	S	B		
12	W6UR	11,352	96	44	S	B		
13	N2NS	3,450	51	23	SA			NCCC

K6MI is the high scorer in the Single Operator QRP class for the SJV Section.  
 N2NS is the high scorer in the Single Operator Assisted class for the SJV Section.



**K6MYC's new 6 Meter vertically polarized EME array (4 X 6M7MYC2).**

**Mike put this monster array up by himself (with the help of the tilt-over tower).**



**Fresno Amateur Radio Club**

One of my friends was telling me about his new antenna. He may be onto something here, as he has great results.

Rig: ICOM IC-756PROII @ 100 Watts  
Antenna: Phased GAP verticals spinning at 400 rpm, driven by a GE washing machine motor in the spin cycle using bicycle chains, in phase driven by the K6NA auger drive RF wavefront synchronizer. de K6MI

It's time to register your California County for the 2010 [California QSO Party](#):

Dates: October 2-3, 2010

Time: 1600Z October 2 to 2200Z October 3

[Click here for the 2010 Rules](#):

61 Days and counting.....

73,  
John, K6MM  
Bob, N6TV

For those of you presently using or those considering installing a G5RV antenna, take a look at the [ZS6BKW](#) antenna. It is a modified G5RV with slightly different dimensions which result in better SWR & bandwidth characteristics than the G5RV. It even performs well on 6 Meters.

73 de Rich - K1HTV

I was talking to a local ham last nite on the FARC repeater [W6TO/R], and we got to talking about CW. He's learning CW, and enjoying it. He does two things: he sends to tape recorder so that he can hear his keying, and clean up his sending. He also checks into 7114 KHz. That is a frequency promoted by SKCC-the Straight Key Century Club-where Elmer's listen for slow senders, and help them with their CW. It is a great thing. I am a member of SKCC [#4898]; this chap joined SKCC

not too long ago, and is # 9xxx-boy membership has sure grown!

SKCC also has a website, and [here it is](#).

Yeah, while the FCC said the Morse Code test was no longer required, I have heard more and more get onto CW, and that is great! Speed does not matter. I know a bunch of hams who are very comfortable at 15-18 WPM [I am one of them] and that is just fine.

If I have not said this before, I will say it now. In the old days, ARRL called it "copying by mill" which meant using a typewriter to copy CW. Well, it is even easier now, having a laptop set to a word processing program and copying by mill- it only takes a few seconds to learn, and it is fun.

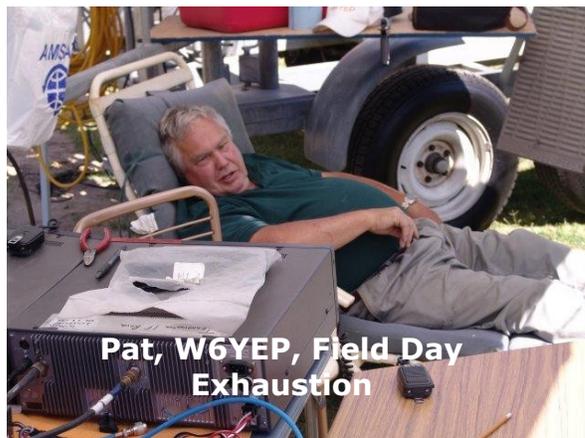
I got an email the other day that said "no trees were destroyed in this email, but a lot of electrons are discombobulated". Stuart WB6VRJ

As you know, I turned 73 this 21st. I was telling my wife, Phyllis, that does have special meaning. In ham speak, it means "Best regards".

Then I told her I could hardly wait until my 88th birthday. Why is that? She asked.

I answered, because then it means love and kisses!

QRT de Stuart WB6VRJ



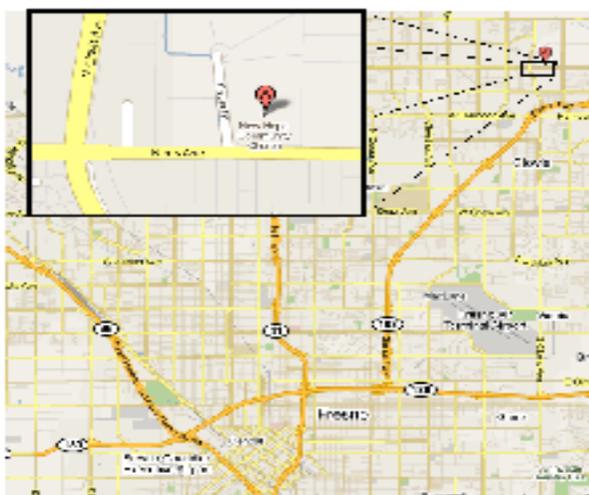
**Pat, W6YEP, Field Day Exhaustion**

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**Clovis, CA**

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444.725 + 141.3  
440.350 + 141.3



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Clovis Amateur Radio Pioneers

**Saturday**

**September 18, 2010**

**8:00 am to 11:00 am**

Looking for a ham radio, antenna, electronics part or piece of test equipment? You may be able to find it here!

Come on out and join us for a morning of buying, selling and story telling!

Coffee & Donuts  
will be available for purchase

**ADMISSION:**

Free for public  
Gates open at 8:00 am

**SELLING?** Cost is \$10.00 per space.  
A sellers space consists of two parking stalls (adjacent/tandem) providing room for a vehicle and table space.

Seller/Vendor Setup Starts at 7:30 am.

For more information: [info@k6arp.org](mailto:info@k6arp.org) — [www.k6arp.org](http://www.k6arp.org) — 559-492-7675

**Fresno Amateur Radio Club**

On 7/27/2010 9:21 PM, Geoffrey Way wrote: I recently had trouble using an IRC at a local branch Post Office when posting a QSL reply to a DX station I'd worked in a contest.

They told me that they "couldn't process" my IRC.

So I took the transaction to the Main branch downtown, and the clerk took it without a word before I even opened my mouth, and he said, "You're all set!" That was about 2 weeks ago.

Then I was on my way to another town today, and tried the IRC transaction at the ONLY Post Office in that town. At first, they were all stumped, but didn't give up or refuse me. One of the clerks eventually identified the transaction successfully, stating it falls under the "Non-Postal Money Order" category. The head clerk said she'd never had one presented to her from outside the US in all 28 years of her service... They had all SOLD IRC's of course, though.

Anyone ever have difficulties with getting local branches to accept IRC's? Do they have the right to refuse the transaction if they have computerized operations? Has anyone ever succeeded in putting an outbound article with an IRC in their curbside mailbox? I haven't bothered to try it yet, given the resistance at the local branch...

---

Hi, Here in the jungle (Brazil), its pretty difficult to exchange IRCs. Only a few post offices in main cities do that, only them sell it as well, at abusive prices. Guys in local offices usually haven't ever seen an IRC, some of them only heard about it.

The dilemma is that if stations send me green-stamps", most likely some jerk will find it out and will intercept the letter. If stations send me IRC, its a PITA to exchange them.

Not easy being a qsl manager in such a country. 73, Felipe - PY1NB

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Effective August 3, 2009, the Postal Service™ is revising Mailing Standards of the United States Postal Service, International Mail Manual (IMM®) section 381.3b to codify that international reply coupons purchased in foreign countries are exchangeable at U.S. Post Office™ facilities toward the purchase of postage stamps and embossed stamped envelopes at \$0.98 per coupon.

Consistent with Article 13 of the Universal Postal Union (UPU) Convention and Article RL142.3 of the UPU Letter Post Regulations, inbound international reply coupon service allows customers in member countries of the UPU to prepay for a reply sent by mail by purchasing reply coupons that are exchangeable for U.S. postage stamps. The regulation provides that one coupon is exchangeable for a stamp or stamps representing the minimum postage of an unregistered airmail letter, regardless of the country destination.

For this purpose, and in order to satisfy the UPU requirement, the equivalent exchange value is that of a 1- ounce First-Class Mail International™ letter, which is currently priced at \$0.98.

We will incorporate this revision into the next printed version of the IMM and into the monthly update of the online IMM, which is available via Postal Explorer® at <http://pe.usps.com>.

Mailing Standards, Pricing, 7-16-09  
73, Pete N4ZR

## 2010 AMATEUR RADIO EXAMS

UNLICENSED THRU EXTRA CLASS  
Sponsored By the FRESNO Volunteer Exam (VE) TEAM  
And The  
FRESNO AMATEUR RADIO CLUB, INC.  
AMERICAN RADIO RELAY LEAGUE

Exams for all Amateur license classes will be conducted on the following dates in Fresno California. All exams are given on Saturday and begin at 9:30 AM.

**Aug 14                      Nov 13**

LOCATION: ....Bonaventure Mobile Home Park, 1724 Minnewawa Ave Clovis CA 93612-2545. Exams are held in the community room.

DIRECTIONS: From Highway 99 South of Fresno, exit Clovis Ave. Go north to Shaw and turn left on Shaw to Minnewawa. Turn right on Minnewawa and then left to the Mobile Home Park.. From Highway 41 or Highway 99 North of Fresno, take Shaw Ave. exit, turn right (East), to Minnewawa Ave and turn left. Then turn left into the Mobile Home Park.

Theory exams are multiple choice. Priority mail is used to send paperwork to ARRL, who sends data to FCC via electronic mail, thus assuring the fastest possible service on new licenses, which typically arrive in about two weeks.

BRING. Two ID's, one with photo. Taxpayer ID Number (Social Security Number), or FCC Registration Number (preferred). Fee \$15.00 per test session. Bring Exact change. **Original** and **copy of Amateur License** if upgrading. Talk in on 146.94 repeater.

Walk in's only, no pre-registration.

More Info?? Contact Charles, (559) 431-2038

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Activities and Events**

**Aug 3rd Board Meeting  
Aug 13th FARC Club  
Meeting**

2010 Fresno Amateur Radio Club Application	
Name _____	Date _____
Address _____	State ____ Zip _____
Home Phone _____	Business Phone _____
Occupation _____	Birth Date _____
Spouses Name _____	Anniversary Date _____
License Class _____	First Year Licensed _____
Email Address _____	
I am interested in serving on one of the committees. Please contact me with more details. _____	
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