



RF



ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. LXIII NO. 05

P.O. BOX 3454, TUSTIN, CA 92781

May 2022

The Prez Sez...

By Nicholas AF6CF



Hello!

May is the month where we start finalizing the plans for Field Day, and we believe that all is almost ready. We are scheduling planning meetings and we hope to have training in the FD operations thanks to Professor Tim N6GP. This month's speaker will talk about Satellite Ham Radio, an exciting topic for all of us earth bound individuals, so it should be really interesting and exciting. As mentioned, Field Day preparations are well under way,

with only a couple of meetings to go and with great ideas and input from everyone. The Propane Generator has proven its worth at Winter Field Day and we plan to use it again. We are debating now the food plans and how to manage the donations. We still have a few operating and help positions open, so hurry up to volunteer. The two co-chairs Tim N6TMT and I are doing work organizing the event. The Baker to Vegas race communications support was a big success, as reported at our last General meeting.

We are still waiting for the Red Cross to authorize the in-person meetings, but for the time being we are still using the Zoom system until we get the "green light" which can happen any moment, I'm told.

So, we will be really busy this year with all this and more activities. I look forward to an eyeball contact with you all at the next General Meeting.

73 DE AF6CF

NEXT GENERAL MEETING

May 20, 2022

Join us via ZOOM at 19:00 Hrs.
Current OCARC members will receive an email with instructions. Early check-in available at 18:30 Hrs. (+/-)
(We are expecting June will be in person at Red Cross + Zoom?)

Speaker:

Clint Bradford, K6LCS

Presents:

"How to Work Amateur Satellites with Your HT"

NEXT BOARD MEETING

Saturday, June 2, 2022

SPECIAL NOTICE:

During the COVID-19 pandemic All OCARC Nets will Remain Active!

See page 2.

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Monthly Events:

Membership Meetings*

Time: 7:00 PM
When: 3rd Friday of each Month

***See ZOOM announcement pg.1**

Board Meetings

February 05 at 8:15 AM

New physical location coming soon

**** Board will handle Club business by ZOOM at this time**

Club Nets (Listen for W6ZE):

10M: 28.375 ± MHz SSB

Wed- 7:30 PM - 8:30 PM

Net Control: Corey, KE6YHX

2M: 146.55 MHz Simplex FM

Wed- 8:30 PM - 9:00 PM

Net Control: Corey, KE6YHX

75M 3.883 MHz LSB

Tue @ 8:00 PM

Net Control: Corey, KE6YHX

CATALINA AMATEUR REPEATER ASSOCIATION (CARA)

147.090 MHz (+0.600 MHz) No PL

Monday - Friday

9:00AM and 9:00PM

Prg. Director. Tom W6ETC

OCARC 2022 DUES

**Membership period is:
1 January to 31 December**

Individual New or Renewal:	\$30.
Family New or Renewal:	\$45.
Teen New or Renewal:	\$15.

New Member Dues are prorated quarterly and includes a badge:
Additional Badges: \$ 3.
Use one of our interactive online forms to calculate current prices, join the club and/or order badges:

Online Forms / Dues & Badges

*\$3. plus mailing costs if applicable
Dues are subject to change without notice

Orange PD RACES assist the OPD Runners with Communications in Baker-2-Vegas Race

by Ken W6HHC

Each year (except 2020 and 2021 due to COVID), over 220 different law enforcement teams compete in a 120 mile long relay-race through the desert between Baker-Shoshone-Pahrump-Las Vegas. The **City-of-Orange RACES** team (known as **COAR**) assisted the Orange PD running team by providing five communications centers set-up by COAR RACES and mobile operators. The OPD running team finished in 16 hours and 52 minutes, to place 43rd out of the 220 running teams and third in their class (Police Departments with 150 or less sworn officers). This year, the B2V race was held on Saturday, April 9 and Sunday, April 10.

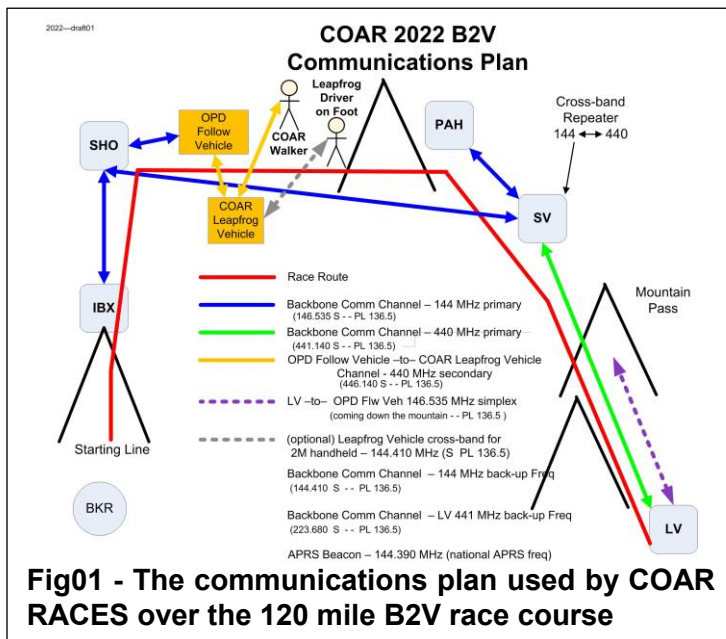


Fig01 - The communications plan used by COAR RACES over the 120 mile B2V race course



Fig02 - During the "Dry Run" equipment-testing session in the OPD parking lot.
(Note the OCARC's battery pack supplying 12V power for this station)



Fig03 - Jeff KK6YUP installs the Ham antennas on the Follow-Vehicle at Baker HS before the race. In addition to the APRS beacon on 2M, there are two more radios for 2M voice and 440 voice com. The OPD drivers are required to also provide FRS radios. The FV provides location, condition of runner, water, and food for the runner.



Fig04 - The race has started. This is a photo of the OPD runner (Team 30) through the windshield of the Follow-Vehicle .

The COAR RACES activities for the 2022 race began at least five months before this year's race began. The COAR B2V communications project required the following five phases:

- **Planning Sessions**
- **Equipment Testing & Training**
- **Equipment Set-up for the Race**
- **Staffing and Operating the B2V event**
- **Post B2V Review Sessions**

The City of Orange RACES team set up five communications centers along the B2V race course in order to provide a "communications backbone" to support the mobile units used during the race. The five communications centers were located at:

- **Ibex Pass, California**
- **Shoshone, California**
- **Pahrump, Nevada**
- **Sandy Valley Road (near Rt 160), Nevada**
- **Las Vegas, Nevada**



Fig05 - The top of the hill at IBEX Pass provides a good location for a COAR Communications Center to provide coverage for the Follow-Vehicle from before the Start Line (17 miles north of Baker) to the communications-hand-off-point to the Comm Center at Shoshone.



Fig06 - This photo taken in 2006 provides a great "feel" and terrific view of the open desert with the OPD runner (then Team #57) leading what seems to be an endless line of runners and support vehicles from the competing teams.

(Photo by Byron KC6YNG)



Fig07 - The town of Shoshone is called "gateway to Death Valley". I also call it a "one horse town" (one motel, one gas station, one restaurant, one store, and a Post Office). The COAR Comm Center here was operated by Sam W6RDS (L) and Hy KM6KQG who are standing in front of their powerful collinear antenna for 2M and 440 MHz.



Fig08 - A well-known land mark along the highway between Shoshone and Pahrump is this exposed vein of black "volcano glass". It can be spotted on the hillside from miles away.

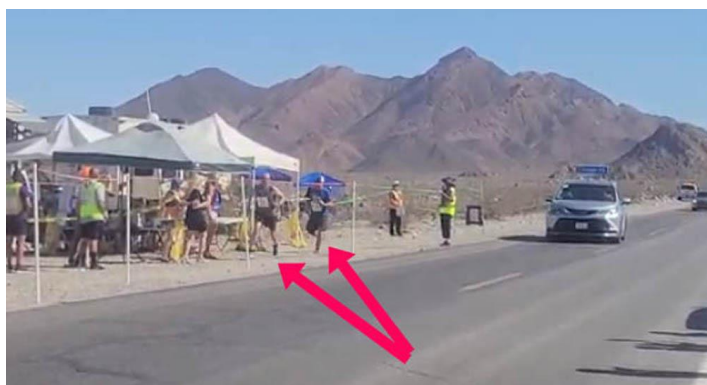


Fig09 – Here two OPD runners are at one of the course exchange-points. The runner on the left has just grabbed the baton from the incoming racer on the right. The OPD Follow-Vehicle is just a few feet behind the new runner.



Fig10 – The Comm Center in Pahrump is manned by operators Ken W6HHC (left), Bob AF6C on the computer looking at APRS and the runner times up on the internet, and Nicholas AF6CF (on right) is taking a turn on the radios. A room for OPD runners to rest is located nearby.

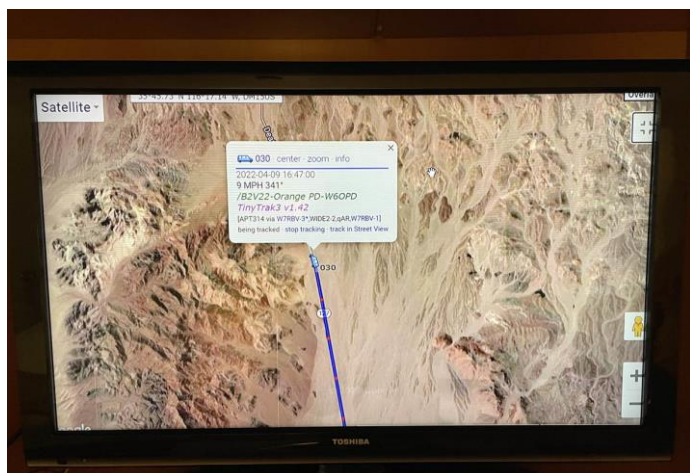


Fig11 – The APRS location beacon inside the Follow-Vehicle is tracked on the internet with an app called APRS.fi . Nicholas AF6CF was able to rewire our TV screen to provide a huge display of the computer screen using an HDMI cable.



Fig12 – On Saturday, after B2V radios are working and before the race for OPD starts, there is plenty of time to “play on radios”. Tim N6GP (R) set up an ICOM IC7000 rig & 20M EFHW antenna for CW & SSB using a portable collapsible mast to support the 20M half-wave piece of wire.



Fig13 – The heart of the COARC communication system is the cross-band repeater located on a mountain ridge at Sandy Valley Road. Mike KF6WRM uses a 440 beam pointed down to LV and a 2M collinear ant. to catch signals from the other Comm Centers on the west side of the ridge.



Fig14 – The race-course exchange-points look different at night. In this photo, the OPD runner has just grabbed the baton and is racing away. The “Catcher” is handing water to the tired runner.



Fig15 – The Communication Center at Las Vegas used a trailer in the parking lot of a hotel for the radios. A 440 MHz beam is pointed up at the cross-band repeater on the mountain ridge. Stations on the west side of the mountain transmit on 2M to hit the cross-repeater.



Fig16 – After a lot of hard work and coordination, OPD runners, family & friends gather at the Bellagio Hotel in LV for a “thank you” Brunch. COAR ham volunteers can be seen in upper-right. (courtesy of OPD Officer Phil McMullin)



Fig17 – Technology is CHANGING!!! The B2V desert used to be a “desert for cell-phone coverage”. This year, Verizon provided enough mobile Cell-Phone towers with satellite dishes (for the “back-haul”) to provide coverage at every race-checkpoint. Using these Verizon towers...the OPD team captains in Las Vegas could obtain official running times over the internet from the runner-batons, before the Follow Vehicle could report the leg-running-time to LV by ham Radio.



Fig18 - Here is a photo of one of the B2V planning meetings held at the OPD (this photo was taken back in Feb). In addition to official COAR members, the OPD effort is supported by many other ham volunteers. This year six OCARC members were involved in the race... Ken W6HHC, Nicholas AF6CF, Don KØVNJ, Scott KM6RTE, Tim N6GP. and Bob AF6C. Dan KI6X of OCARC participated in B2V Planning.

RadioActivity

May 2022

Upcoming Activities:

May

- **His Maj. King of Spain Contest:**, CW 1200 UTC Saturday May 20 through 1200 UTC Sunday May 21
- **Baltic Contest:** 2100 UTC Saturday May 21 through 0200 UTC Sunday May 22
- ***CQ World Wide WPX Contest/CW:** 0000 UTC Saturday May 28 through 2359 UTC Sunday May 29

June

- *** **ARRL International Digital Contest:** 1800 UTC June 4 through 2359 UTC Saturday June 5
- **Asia-Pacific Sprint SSB:** 1100 – 1300 UTC Saturday June 11
- ***ARRL June VHF Contest:** 1800 UTC Saturday June 11 through 0259 UTC Sunday June 13.
- **ARRL Kids Day:** 1800 UTC through 2359 UTC Saturday June 11
- **Field Day:** 1800 UTC Saturday 25 through 2100 UTC Sunday 26.

* Indicates club entries are accepted

** Indicates team entries are accepted

Note: When submitting logs for ARRL Contests indicate your club affiliation as:
"Orange County ARC"

State QSO Parties:

- **Indiana QSO Party:** 1500 UTC Saturday May 7 to 0300 UTC Sunday May 8
- **Delaware QSO Party:** 1700 UTC Saturday May 7 to 2359 UTC Sunday May 8
- **New England QSO Party:** 2000 UTC Saturday May 7 to 0500 UTC Sunday May 2 to 2359 UTC Sunday May 8
- **Arkansas QSO Party:** 1400 UTC May 21 to 0200 UTC Saturday May 22
- **Kentucky QSO Party:** 1300 UTC Saturday June 4 to 0100 UTC Sunday June 5
- **West Virginia QSO Party:** 1600 UTC Saturday June 18 to 0400 UTC Sunday June 19

Repeating Activities:

- **Phone Fry** Every Tuesday night at 0230 UTC to 0300 UTC Wednesday
- **SKCC** Weekend Sprintathon (Straight Key CW) on the first weekend of the month after the 6TH of the month.
1200 Sat. to 2359Z Sunday.
- **SKCC** Sprint (Straight Key CW) 0000Z to 0200Z on the 4th Tuesday night (USA) of the month.
- **CWops** Every Wednesday 1300 UTC to 1400 UTC 1900 UTC to 2000 UTC and Thursday 0300 UTC to 0400 UTC
- **K1USN Slow Speed Test:** (CW, 20WPM Max.) Every Friday 2000 UTC to 2100 UTC Every Sunday night at 0000 UTC to 0100 UTC Monday

OCARC Club Nets:

- **75 Meter Net:** Every Tuesday night at 8:00 pm to 8:30 pm Local Time. SSB 3.883 MHz
- **10 Meter Net:** Every Wednesday night at 7:30 pm to 8:30 pm Local Time. SSB 28.375 MHz
- **2 Meter Net:** Every Wednesday night at 8:30 pm to 9:30 pm Local Time. FM Simplex 146.55 MHz

Other Nets:

- **Net-AT-9:** Wellness & Support Monday thru Friday 9:00 am and 9:00 pm Local Time 147.090 MHz (+600 MHz), No PL

Send an email to Ron W6WG, w6wg@w6ze.org to have your favorite activity or your recent RadioActivity listed in next month's column.

**OCARC BOARD MEETING
MINUTES
2022-05-07**

Due to the waning pandemic, the fifth Board Meeting of the year was in-person, and two Board members attended via Zoom on Saturday, May 7, 2022, at Tom W6ETC's QTH in Tustin. The meeting was called to order by our president, Nicholas Haban AF6CF at 8:20 AM PDT. All ten (10) directors were present for a quorum, including the two who attended by Zoom. We had one visitor, Jim KB6TKA. There were seventeen (17) topics brought to the Board this morning, and one (1) motion carried, adjournment.



**Fig 1 – All ten (10) Board Directors were present.
Two directors attended by Zoom, and one guest in-person.**

Director Reports

Nicholas AF6CF calls for director reports.

-Treasurer: Ken W6HHC reports our income since the beginning of the year totals \$1,981. We have outflows totaling \$323, and more expected in June. We have a net increase of \$1,657 [See page 19 - editor].

-Technical: Steve N1BKB and Bob AF6C will get together to test some donated equipment.

-Membership: Bob AF6C reports we still have 90 members paid for 2022.

Old Business**•Newsletter Editors**

May: Dan KI6X

June: Steve N1BKB

July: Tom W6ETC

August: Tim G. N6GP

September: --open to volunteers--

•General Meeting Programs

May: Clint Bradford K6LCS presents: "Satellite Ham Radio"
June: Chip Margelli K7JA talks about Field Day 2022
July: --to be determined—
August: --to be determined—
September: Edison Fong WB6IQN presents: "J-Pole Antennas"

•American Red Cross Meeting Location

Dan KI6X reports our request to the American Red Cross is turned-in. We should know if we have the facilities available for in-person General Meetings in a few days.

•PayPal Account Ownership

The meeting for the transfer of the PayPal account to trustee ownership is yet to be scheduled.

•Continuation of Zoom Meetings

It is agreed to continue to include Zoom in the General Meetings.

•Old Generator Plans

Bob AF6C reports the generator maintenance is under-way, and it remains to be tested.

•Summer Field Day 2022 (budget)

-The Board discusses the items that go into the Field Day budget, and food arrangements need to be looked-into by the next Field Day Planning Meeting.

-A Field Day Planning Meeting is scheduled for Wednesday, May 25, 7:00 PM, at Tim Goeppinger N6GP's QTH in Tustin. Contact Field Day Committee Chairman Tim Millard N6TMT n6tmt@w6ze.com for location info if you plan on attending.

•Tower Base Repair

Tim N6GP reports the tower base repair should be in-progress at this time.

•Equipment Donations

-Steve N1BKB reports a Kenwood 930S transceiver and a Henry 2KD5 Amplifier are yet to be tested.

-Dan KI6X still has the items from last year to be sold. These include oscilloscopes, "Stalker" radars, a Kenwood R-600 HF receiver (needs cleaning), a Skywalker 600 Amp, an MFJ-624D phone patch, and an Acopian B48GT20 power supply.

•Ken W6HHC's Workload - Status

- 1) Managing Editor of RF Newsletter - (perhaps Tom W6ETC or Corey KE6YHX)
- 2) Converting Newsletter to PDF - Corey is willing.
- 3) Publishing RF to Website - - Dan KI6X or Corey as Historian?
- 4) Webmaster - Dan? (Ken to discuss details with Dan)
- 5) ~~Publishing RF Newsletter by e-mail to membership~~ - DONE - Secretary
- 6) ~~Responsible for group emails to membership~~ - DONE - Secretary
- 7) Drop "heavy duty" board positions after December 2022.

New Business**•Rodrigo's Meeting Report**

Nicholas AF6CF reports the informal gathering at Rodrigo's Restaurant in Tustin on Monday, April 25, went well. There was much discussion and cooperation about the coming Field Day.

•In-Person Meetings

The Board generally agrees to transition to in-person meetings.

•Equipment Donations

Nicholas AF6CF raises the topic of a tower donation that needs to be moved from a Ham's QTH. Bob AF6C, Steve N1BKB, and the other Board members discuss arrangements.

Good of the Club

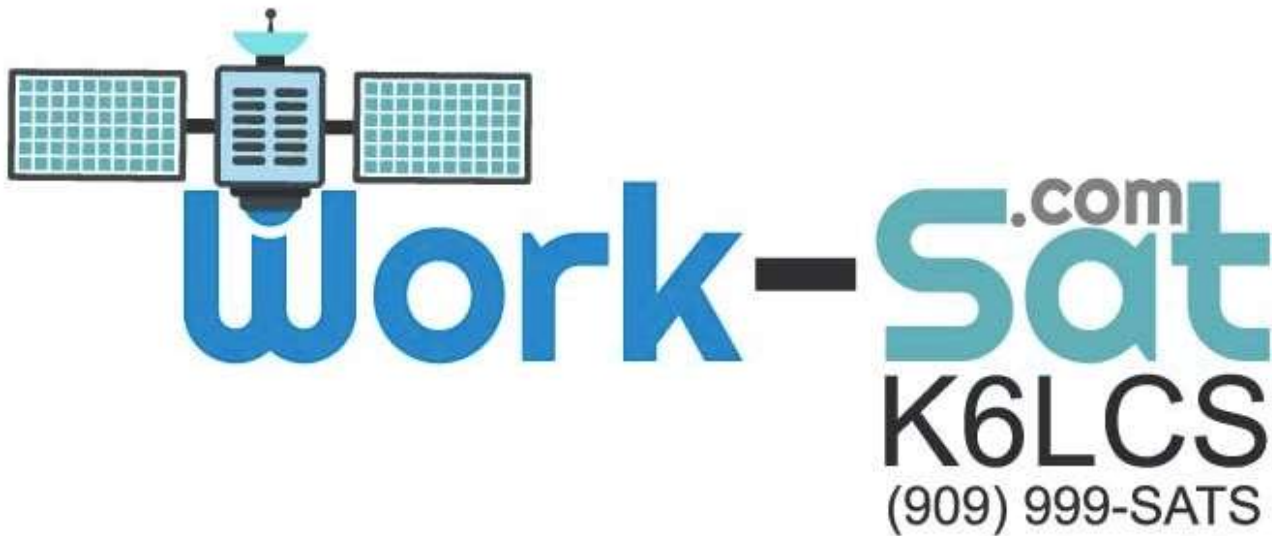
-Bob AF6C has a show-and-tell of a glass capacitor from the early 1920s.

-Steve N1BKB reports he made his first contact with Vietnam, and has a QSL card to show the attendees.

Adjournment

A motion to adjourn is made, seconded, and carried at 9:26 AM PDT.

--Respectfully submitted by Corey KE6YHX, OCARC Secretary



Our May 2022 speaker, Clint Bradford, K6LCS: "How to Work Amateur Satellites with Your HT"
Website is full of how-to for working through the ham satellites.

OCARC GENERAL MEETING MINUTES 2022-04-22

Due to the lingering pandemic, the fourth General Meeting of the year was via Zoom on Friday, April 22, 2022. The meeting was called to order by our president, Nicholas Haban AF6CF at 7:00 PM PDT. There were twenty-two (22) members, guests and visitors present, including our speakers.

Pledge of Allegiance

Nicholas plays a video to lead the Pledge of Allegiance at 7:00 PM PDT.

Meeting Presentations

Nicholas AF6CF turns the meeting over to our vice president Tim Goepfinger N6GP. Tim introduces two presentations, tonight.

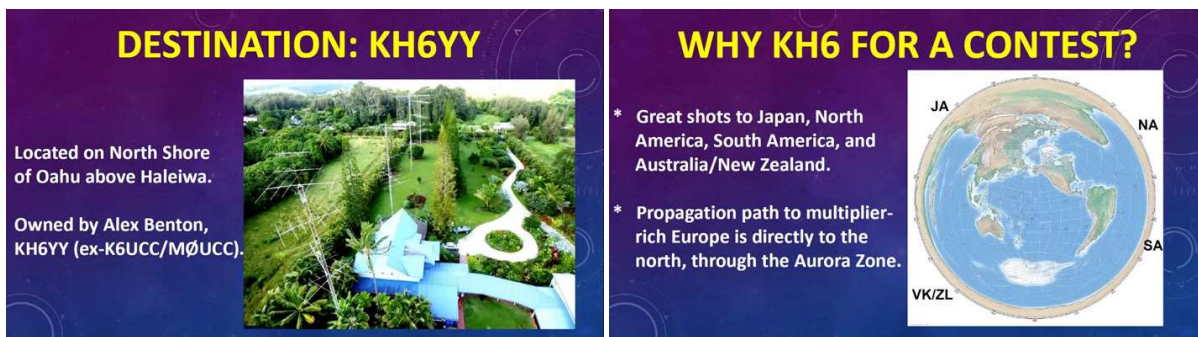
First Presentation

First is Chip Margelli K7JA presenting “The CQ Magazine WPX SSB Contest DXpedition to Oahu.”

Tim turns the meeting over to Mr. Margelli. Chip says good evening, and describes the CQ WPX Contest, a “Working Prefix Award.” Unlike other DX contests, which score by the number of countries, the WPX Contest multiplies the number of call prefixes by the number of contacts made by the contesting station, plus a point value for the bands operated on.



Fig 1.01 – A Contest Weekend in Paradise
CQ World-Wide WPX Contest 2022 NH7T



Figs 1.02 and 1.03 – Destination: KH6YY and “Why KH6?”

FIRST STOP IN HAWAII

A stroll around Waikiki Beach

**SECOND STOP IN HAWAII**

Hard Rock!



Figs 1.04 and 1.05 – First Stop in Hawaii and Second Stop

THIRD STOP IN HAWAIIDinner with Ron Hashiro
KH6D*Hey Chip...what about the contest???**Oh. Yeah.*

Figs 1.06 and 1.07 – Third Stop and “Hey Chip...what about the contest???”

KH6YY ANTENNA FARMKH6YY is the biggest
antenna farm in Hawaii.Previous owners included
Randy KH6XX, Marty N6VI,
and Ken KH7R.KH6s are now limited to
1 tower per lot. Gee, why?**KH6YY: 80 METER SYSTEM**

This is a job for Mr. Sikorsky.



Figs 1.08 and 1.09 – KH6YY Antenna Farm and “This is a job for Mr. Sikorsky.”

KH6YY QTHAnd in addition to the
beautiful antenna farm,
the KH6YY property is
meticulously landscaped;
It's ideal for feeling like
you're in Paradise when
the bands are dead.

Fig 1.10 – KH6YY QTH

NH7T WPX CONTEST CREW

The invited crew for WPX Phone consisted of 11 operators from Hawaii, Mainland USA, and Italy.

**NH7T WPX CONTEST CREW**

And yours truly did battle with the decidedly challenging 20 meter band.

Each operating position used a Yaesu FT-1000MP transceiver driving Henry or Alpha amps.



Figs 1.11 and 1.12 – NH7T WPX Contest Crew

CONTEST PROPAGATION

10/15 Meters were great—long openings with big signals.

20 Meters suffered from K Index of 4 and corresponding high absorption during daytime hours.

40 Meters performed very well, with good rates to NA and JA.

80/160 Meters were slow due to low activity (multipliers only count once, so little incentive to move below 40 Meters).

CONTEST RESULTS

The final score of just under 31 million points almost broke the Oceania record (held by this station).

The lack of participation by Russian and Ukrainian hams clearly affected our final score.

BAND	QSO	DUP	PFX	POINTS	AVG
160	18	0	0	103	5.72
80	167	1	11	967	5.79
40	1351	25	154	7633	5.65
20	1720	14	498	4866	2.83
15	2221	91	398	6373	2.87
10	1347	27	250	3651	2.71

TOTAL 6824 158 1311 23593 3.46

=====

TOTAL SCORE : 30 930 423

Dupes are not included in QSO counts neither avg calculations
Operators : KX7M, KH6YY, KH7U, KH6U, N6TJ, K7JA, N6VI,
W7NA, ISQLS, IC8WHC, NH7T
Soapbox

Figs 1.13 and 1.14 – Contest Propagation and Contest Results

POST-CONTEST

Our ship has sailed, and the sun sets for the last time for this trip.

But we'll be back.



Fig 1.15 – Post-Contest

ALOHA FOR NOW...

Chip, K7JA/KH6
and
Janet, KL7MF/KH6

Fig 1.16 – Aloha for Now...

•Questions and Answers

Chip takes questions from the audience.

-Tim M. N6TMT asks about the lot configuration of the contesting QTH in Oahu. Chip says it is as it appears, long and narrow.

Chip notifies us of the extraordinary HF propagation from sunspots in the past 48 hours. In the morning, 15m and 10m are open into Asia, Southeast Asia and the Western Pacific. HF is open all over the world, and is at its best in decades. Chip then turns the meeting back to Tim G. N6GP.

Tim G. N6GP tells us three concurrent DXpeditions are operating as we speak.

Tim and the attendees appreciate Chip's presentation and Tim calls for a round of applause. Thanks again from all of us.

Second Presentation

Next up, Tim N6GP begins the next presentation, with Ken Konechy W6HHC, Bob Eckweiler AF6C, and Nicholas Haban AF6CF, speaking on the "Baker-to-Vegas Relay Race," held on the Friday and Saturday of April 8th and 9th, 2022.

The Baker-to-Vegas Race is a 120-mile runner's relay race for law enforcement organizations held every year in April. It is the largest foot race in the world, and this is the first one after the pandemic. They have trophies but no prizes or other awards. They are able to support up to 300 teams, and there were about 220 participating this year. The race has 20 legs or "stages," with about 6,000 people involved. There were international teams participating, including at least two from Canada.

2022 Baker to Vegas

A 120 mile foot race
With Ham Radio
Communications support

Fig 2.01 – "2022 Baker to Vegas" Introduction

What is the B2V race?

- A unique event. Largest Law Enforcement foot race in world
- No cash trophy, just "Bragging Rights"
- Up to 300 teams, 220 in 2022. Often 6000 people involved in race
- 120 mile foot relay race, 20 Stages
- International participation – RCMP teams from Canada this year

Conditions

- "Middle of Nowhere" course in desert
- Race may last 24 hours – staggered start
- All sorts of law enforcement - FBI, Border Patrol, CHP, DEA, U.S. Attorney Office
- Every team has a "Follow Vehicle"
- There is no cell phone signal in most of the race course (slowly getting better) – more on this later...

Figs 2.02 and 2.03 – "What is the B2V Race?" and "Conditions"



Fig 2.04 – Map of Baker to Vegas

Preparations



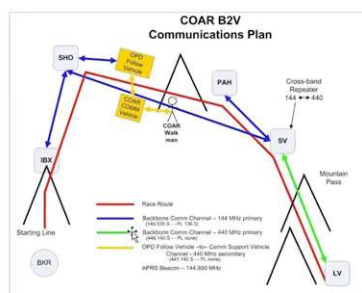
- Before the race, we make sure that all the equipment in operational condition by doing a “dry run” a couple of weeks before the race.

Race Communications

- Because there is marginal cell phone signal, Ham radio plays an important role during the race.
- We communicate race times, schedules, distance from stages, runners relay positions, emergency issues, etc.
- We setup Follow Vehicle radios, base stations and shuttle communications.

Figs 2.05 and 2.06 – “Preparations” and “Race Communications”

OPD B2V Radio Plan



B2V Radio Operations

- The Follow Vehicle communicates to the Base Stations the runner times, etc.
- The Auxiliary vehicle (leapfrog) talks to the walker and coordinates the runner relay.
- The intermediate base stations relay the runner times and pertinent information to Las Vegas Base.
- All base stations keep a spreadsheet of the race times.

Figs 2.07 and 2.08 – “OPD B2V Radio Plan” and “B2V Radio Operations”

Ibex Pass relay station



OPD Runner Passing Pahrump Base around Midnight



Figs 2.09 and 2.10 – Ibex Pass Relay Station and OPD Runner Around Midnight

Base Station at Pahrump



Fig 2.11 – Base Station at Pahrump

Follow Vehicle Radios

- The follow vehicle has two main HAM radios, one APRS transmitter and two FRS radios.
- The HAM radios are for communication with the base stations along the course and to talk to the walker and shuttle vehicles.
- The APRS reports the position of the vehicle in the course and the FRS radios are used to talk to the relay (stage) points and to the race officials.

Follow Vehicle operators



- It's sometimes hard not to confuse which radio is for what purpose... (FRS vs Ham)

Figs 2.12 and 2.13 – “Follow Vehicle Radios” and “Follow Vehicle Operators”

We Have Competition Now!



- Many Verizon Response SPOTs (Satellite Picocell On Trailer) were along the early stages of the race to support medical staff.

Race Final Results

LA Sheriff Elite Team was #1 overall
OC Sheriff, Santa Ana and Anaheim placed top 15

B2V 2022 Official Result by Category						
150						
Cat.	Score	Team	Team Name	Final Time	Penalty min	Race Score
1	24	Culver City Running Team		16:50:43		17
2	14	Newport Beach Police Department		16:25:43	0:00	26
3	30	Orange PD		16:52:29		43
4	125	Downey Police Department		17:22:24	0:00	64
5	96	Fullerton Police Dept.		17:42:56		76
6	115	Costa Mesa PD		17:48:18	0:10	78
7	108	Burbank PD		18:22:29	0:10	114
8	98	Murrieta PD		19:37:09	0:10	151
9	156	LA PORT PD		19:31:09		155
10	297	Upland / Montclair		19:35:24		166
11	288	Nye County Sheriff's Office		21:10:10		193

Figs 2.14 and 2.15 – Verizon “Satellite Picocell On Trailer” and Race Final Results

Tribute to Cam, WV6V-SK



Fig 2.16 – Tribute to Cam WV6V-SK

•Questions and Answers

Tim G. N6GP takes questions from the audience.

-Tim M. N6TMT asks what radio technologies are used by the other teams. Tim G. and Ken W6HHC say some use commercial radio and some FRS. Other than with the test of Verizon SPOTs, cellphone coverage is very scarce.

-Tim M. also asks Tim G. if he will participate again. Tim G. says yes, he likes the challenge.

Tim G. thanks his team members and passes the meeting back to Nicholas AF6CF.

Nicholas AF6CF thanks Tim Goeppinger for the very interesting presentation, and hopes the attendees have a better idea of what Baker-to-Vegas is, and how we support the Orange Police Department with the race.

Business Meeting

Our president, Nicholas AF6CF starts the business meeting at 8:09 PM PDT. There were eight (8) Board members present for a quorum. Five (5) topics were brought to the Board tonight, and one (1) motion carried, adjournment.

•Director Reports

Nicholas AF6CF starts the Director Reports.

-President: Nicholas AF6CF reminds us of the informal gathering scheduled for Monday, April 25, 6:00 PM, at Rodrigo's Restaurant in Tustin. Corey KE6YHX will send another notification to the members.

-Technical: Steve N1BKB reports he and Bob AF6C will be testing a transceiver and amp for SK sales.

-Membership: Bob AF6C reports our membership is now at 90 members.

•Field Day 2022

Nicholas AF6CF brings up the topic of Field Day 2022, and Chip K7JA, Arnie N6HC, and Bob Harrington AA6PW plan on participating. Tim M. N6TMT and Nicholas will talk about Field Day at the informal gathering at Rodrigo's. Tim M. gives us a run-down of the band captains. We have permission for the Ocean View Elementary site in Huntington Beach, and Field Day is on June 25th and 26th of this year.

Ask the Elmer

-Tim G. N6GP asks Bob Harrington AA6PW how much the copper wire going into a “dog-bone” insulator will affect the tuning of a Moxon antenna. Bob suggests using a tighter insulator to close the loop down and measure the length more exactly.

Good of the Club

There are no items for the Good of the Club.

Adjournment

A motion to adjourn was made, seconded and carried at 8:38 PM PDT.

--Respectfully submitted by Corey KE6YHX OCARC Secretary

W6ZE.ORG WEB PAGE UPDATES

I want to point your attention to our amazing website: <https://www.w6ze.org> . Other than the hours and hours Bob, AF6C, spends keeping it up-to-date and meeting the latest web design guidelines, I updated a few items to help out. You will see the following recent updates:

- Field Day announcement is current
- Ham Radio Vendors webpage has been updated (let us know of any more to add/correct)
 - 11 years since last revision
 - Many vendors have disappeared
- For Sale page items added
- Home page is regularly updated with meeting info and news

Bob has a real nice feature on the home page that highlights changed items with a yellow ball and that automatically goes away after a set time so no maintenance required once it appears.

Dan - KI6X

OCARC Cash Flow - Year to Date

1/1/2022 through 5/6/2022

Category	1/1/2022- 5/6/2022
INFLOWS	
Dues, Family (PayPal)	85.88
Dues, Membership	330.00
Dues, Membership (PayPal)	1,565.30
TOTAL INFLOWS	1,981.18
OUTFLOWS	
Web Site Hosting	85.95
WFD	26.68
WFD - Food	17.90
WFD - Propane	43.06
WFD Rental - Tent	150.00
TOTAL OUTFLOWS	323.59
OVERALL TOTAL	1,657.59

FIELD DAY

JUNE 25-26

“Volunteer to Help” or “Attend and Assist”

MiniTiouner-Express

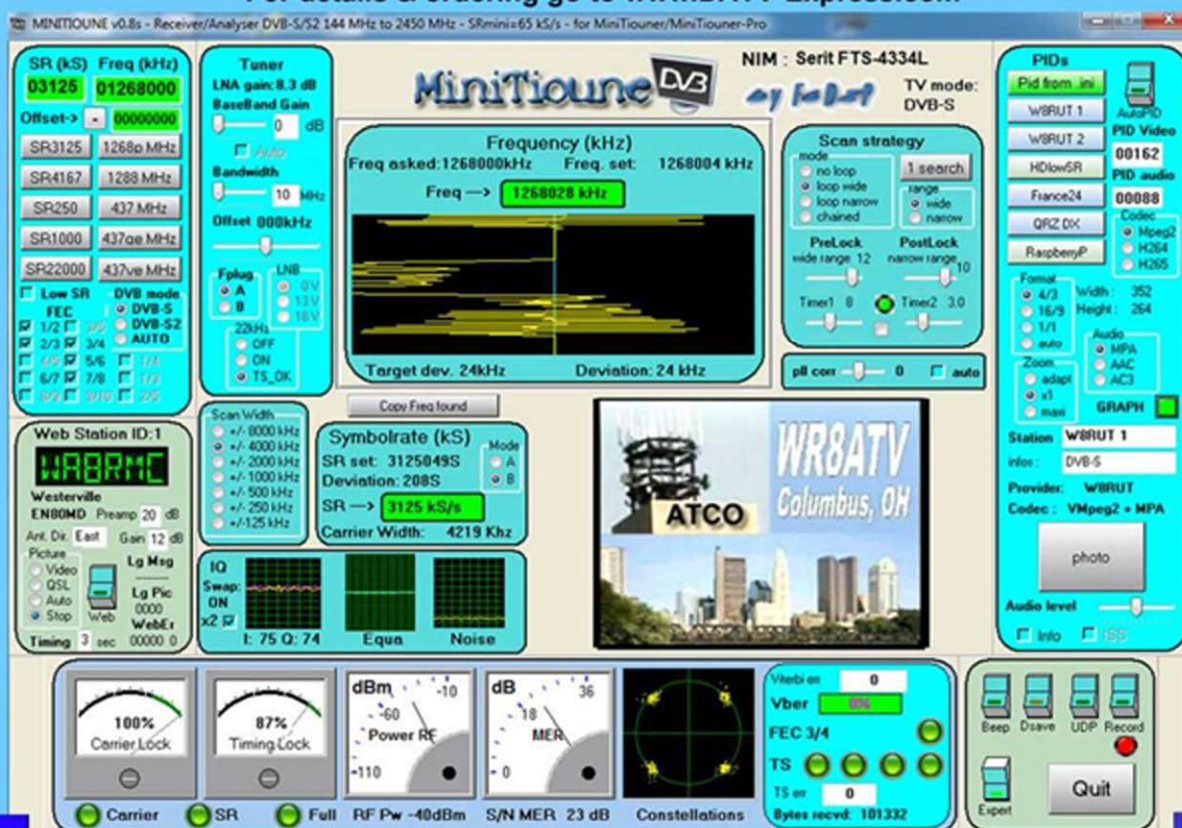
Digital Amateur Television DVB-S/S2 Receiver / Analyzer



Available at DATV-Express.com

- Operates with Windows PC using free MiniTioune software from Jean-Pierre F6DZP
- Smaller than a stack of 2 decks of cards (picture above is full size)
- Two independent simultaneous RF inputs with internal preamps
- High sensitivity -100dBm @1288MHz – at 1/2 FEC
- Fully assembled/tested in aluminum enclosure
- Covers 144-2420MHz (ideal for Space Station DATV reception)
- Symbol rates from 75 KSymb/s to >20 MSymbols/sec
- Uses external 8-24VDC supply or +5V from USB-3 port (with small modification)
- Real time signal modulation constellation & dBm signal strength display
- Price: US \$75 + shipping – order with PayPal

For details & ordering go to www.DATV-Express.com



(MiniTioune display above is the ATCO 1268MHz DVB-S repeater signal at WA8RMC QTH 15 miles away).