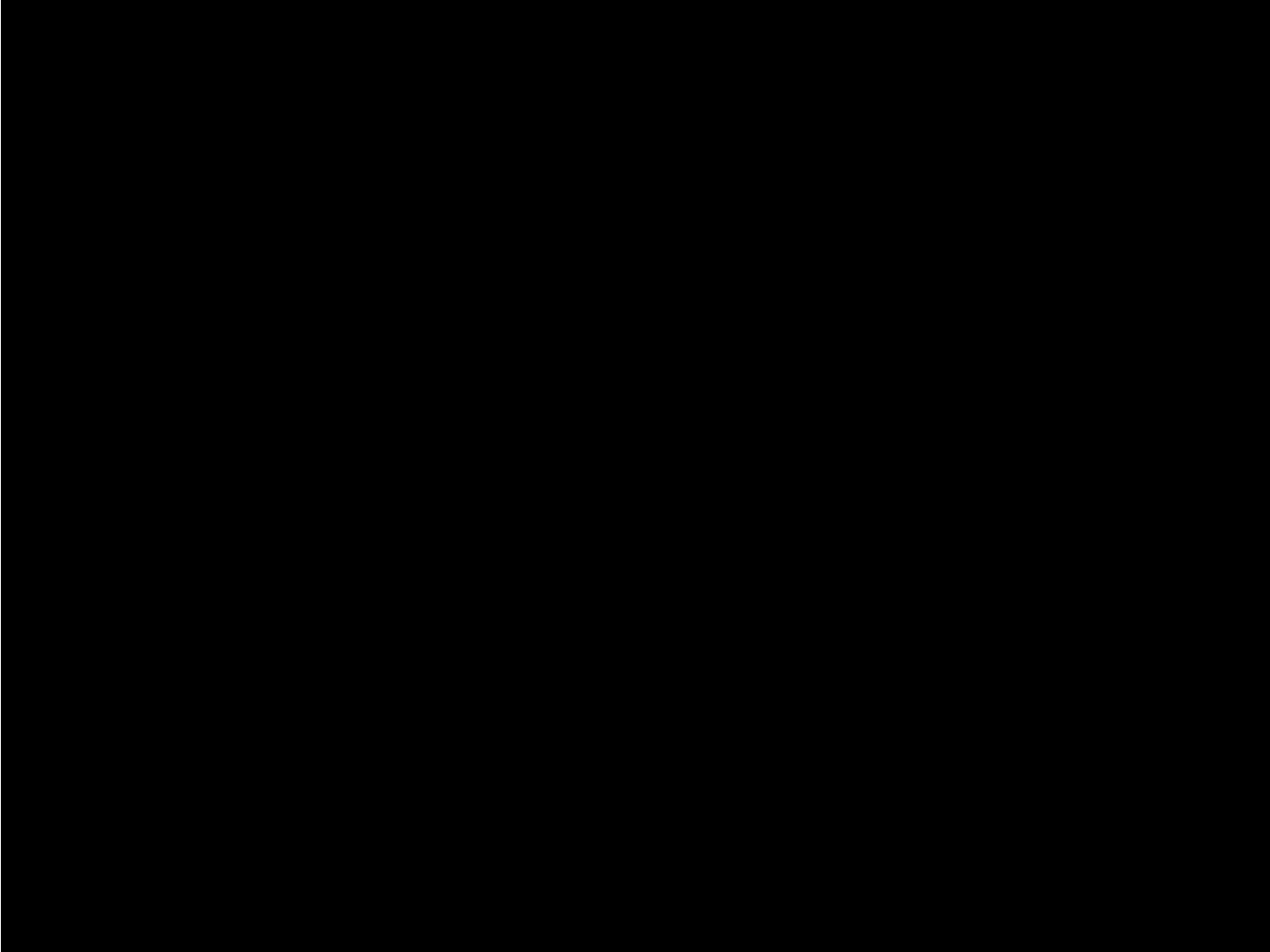




AEA ARC Meeting

July 26, 2018



AEA Amateur Radio Club Officers



President
Kirk Crawford
KK6KC



Vice-President
(Position Vacant)



Secretary
Bob Lanahan
KK6WYW



Treasurer
Joe Barger
N6KK

ARRL Field Day Score

Call Used: W6AG0 GOTA Station Call: (none) ARRL/RAC Section: LAX Class: 2A
Participants: 10 Club/Group Name: Aerospace Employees Association Amateur Radio Club
Power Source(s): Generator, Battery, Solar

Power Multiplier: 2X

Bonus Points:

| | |
|-----------------------|-----|
| 100% Emergency power | 200 |
| Submitted via the Web | 50 |
| Educational activity | 100 |

Total Bonus Points 350

Score Summary:

| | CW | Digital | Phone | Total | |
|--------------|----|---------|-------|-------|--------------------|
| Total QSOs | 0 | 0 | 32 | | |
| Total Points | 0 | 0 | 32 | 32 | Claimed Score = 64 |

Bonus Points + Claimed Score = 350 + 64 = **414 Final Score**

ARRL Field Day Score (Continued)

Band/Mode QSO Breakdown:

| Band/Mode | CW | | Digital | | Phone | |
|-----------|------|--------|---------|--------|-------|--------|
| | QSOs | Pwr(W) | QSOs | Pwr(W) | QSOs | Pwr(W) |
| 160m | | | | | | |
| 80m | | | | | | |
| 40m | | | | | 10 | 100 |
| 20m | | | | | 11 | 100 |
| 15m | | | | | | |
| 10m | | | | | | |
| 6m | | | | | | |
| 2m | | | | | 11 | 25 |
| 1.25 | | | | | | |
| Other | | | | | | |
| Satellite | | | | | | |
| GOTA | | | | | | |
| TOTAL | 0 | | 0 | | 32 | |

BSA – Operation On-Target
Radio Support – Troop 948 – Keller Peak
Tom Essenpreis – KB9ENS



Operation On-Target

Signal 50+ Miles with a mirror!!!

3rd Saturday every July & September
www.bsaontarget.org



21 Jul 2018

BSA Operation On Target

What is it?:

It's a high adventure Varsity Scout program activity. The basic idea is to have Scouts scattered across a particular area, located on mountain peaks or other prominences within line of sight. Using large signaling mirrors, they relay messages from peak to peak.



BSA Operation On Target

Radio?:

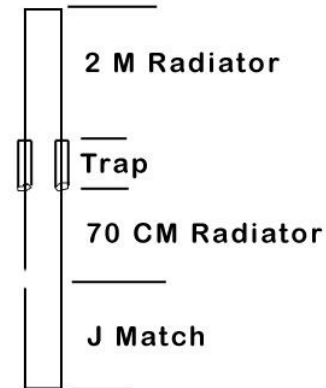
Yup, mirrors are nice, but for real time coordination the Scouts rely on hams for communications

Operating Conditions:

- TH-F6 HT – Speaker mic
- Slim Jim ladder line J-pole antenna
- PowerFilm Solar Lightsaver Max

Challenges:

- Long Beach Boat race on primary freq
- I was the only station that could hear and be heard by everyone; forced me to act as relay

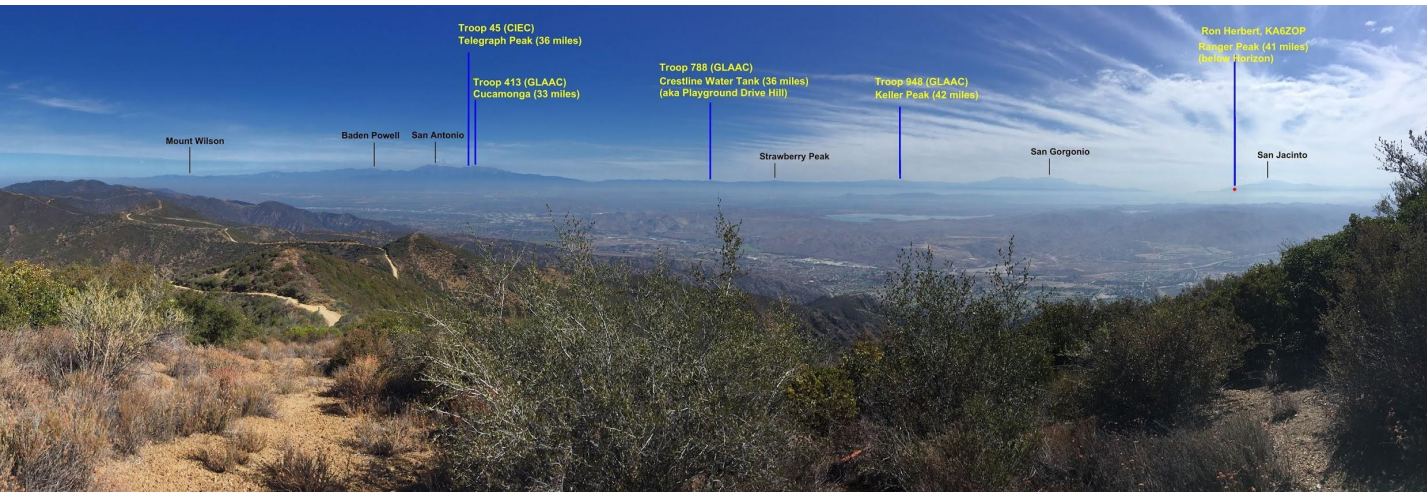


BSA Operation On Target – Setup Location



BSA Operation On Target

View from Bald Peak



**7/21/2018
Operation
On-Target**



BSA Operation On Target – Results

Sun-Flashing Crosstable: Operation On-Target 7/21/2018, Southern CA

From

To (number is distance in miles)

| Unit #/Name | Peak | Keller | Crestline | Cucamonga | Telegraph | Silver | Woods | Ranger | Bald |
|-------------|----------------------|--------|-----------|-----------|-----------|--------|-------|--------|------|
| Troop 948 | Keller Peak | | 16 | 31 | 32 | 101 | | 28 | 42 |
| Troop 788 | Crestline Water Tank | 16 | | 15 | 16 | | 87 | 39 | 36 |
| Troop 413 | Cucamonga Peak | 31 | 15 | | 3 | 77 | 91 | 51 | 33 |
| Troop 45 | Telegraph peak | 32 | 16 | 3 | | 79 | 94 | 53 | 36 |
| Crew 76 | Silver Peak | 101 | | 77 | 79 | | 98 | | 63 |
| Troop 299 | Mt. Woodson | | 87 | 91 | 94 | 98 | | | |
| KA6ZOP | Ranger Peak | 28 | 39 | 51 | 53 | | | | 41 |
| KJ6CBA | Bald Peak | 42 | 36 | 33 | 36 | 63 | | 41 | |

Legend:

| | |
|--|---|
| | Positively Confirmed Flash |
| | Flash transmitted, Flash seen at target |
| | Flash not Possible - No line of sight |
| | Flash possible, but not achieved |

Longest Flash:

42 miles, Keller to Bald Peak

Longest Radio Contact:

101 miles, Keller <-> Silver Peak

BSA Operation On Target

Cucamonga Peak to Bald Peak Flash



Save the date, the next event is Saturday September 15, 2018

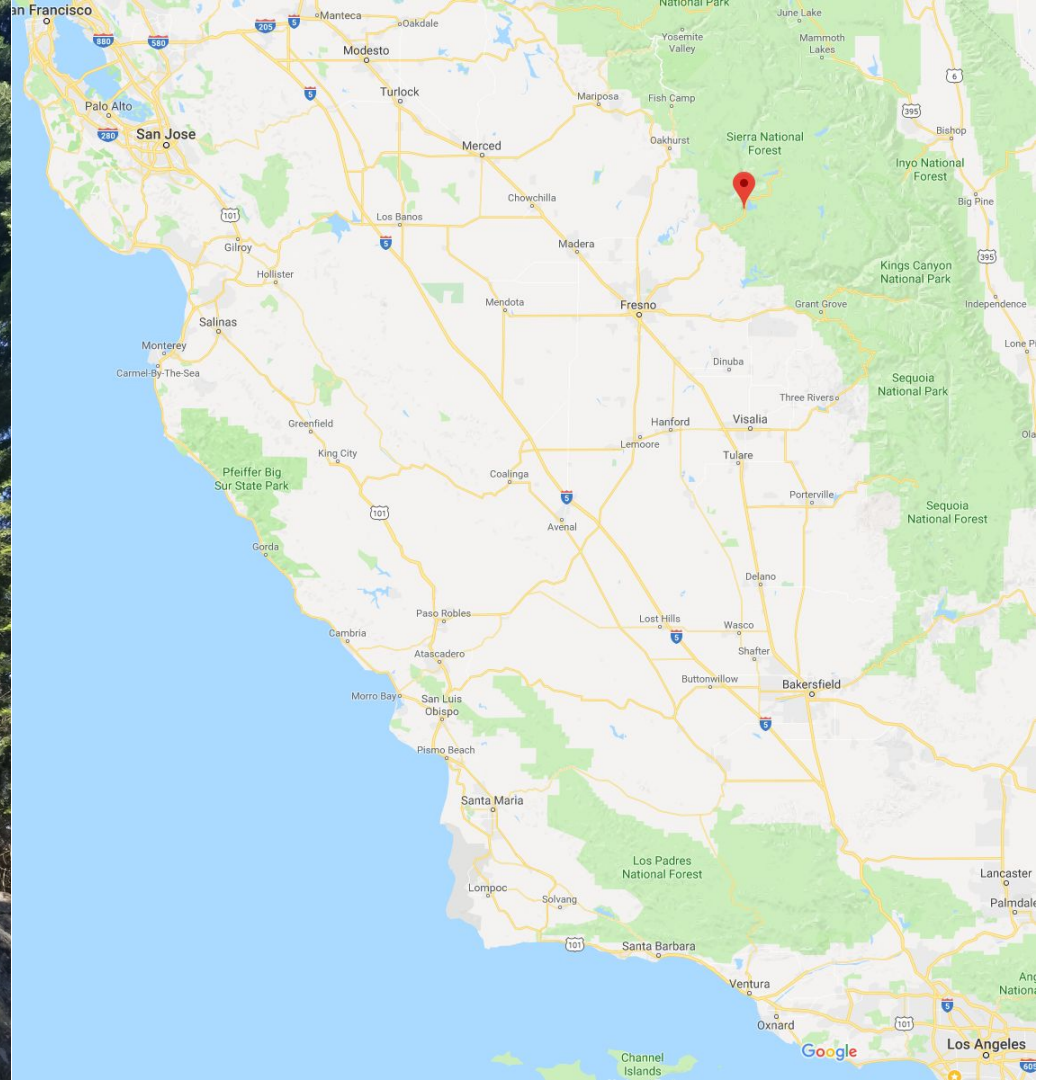
Kirk (KK6KC) Summer Activities

- July 1-7, Shaver Lake, CA(Camp Chawanakee BSA Camp) with my son, Grid: DM07ic
- 20 Meter Band Hopper Inverted V
- Fiberglass Push Up Mast
- 20 Watt Solar Panel
- 2 Batteries charged by Solar
- Raspberry Pi computer system
- ~2 hours of FT8 each night
- 5-15 Watts to conserve power
- 40 contacts including 5W to Australia, Canada, Hawaii, USA.



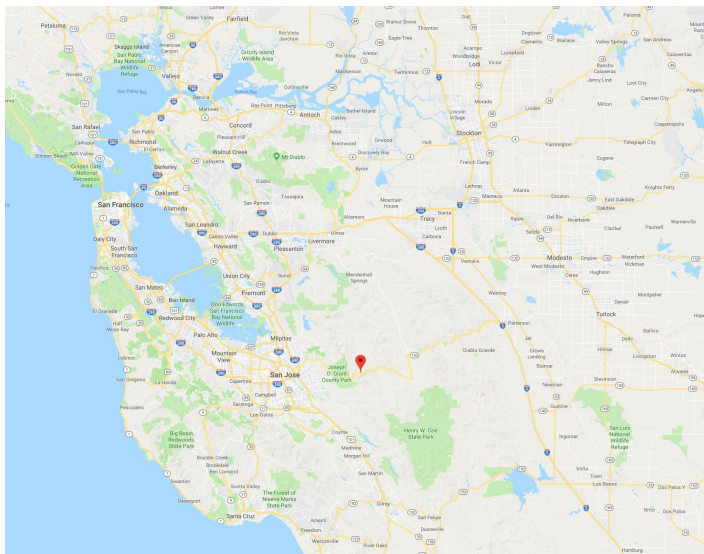






Tomorrow, Lick Observatory for a week

- James Lick 1888 Observatory
- Grid: CM97ei
- Mount Hamilton, West of San Jose
- Same Inverted V Band-Hopper
- FT8 in afternoons and nights depending on work/weather



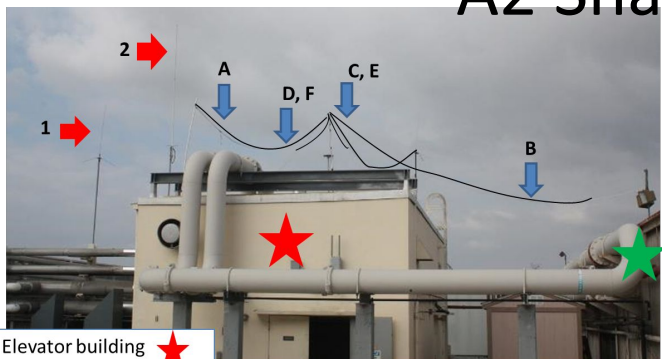
AEA Showcase





- Gives Club Exposure - Hand Out Flyers
- Tue 31 Jul & Thur 2 Aug Lunchtime A3 Cafeteria
- Bob likely can attend, One More?
- Bring laptop, run SDR Dongle
- Arrow Antenna
- Need power for larger LCD display
- Bring Extension Cord

A2 Shack Plans

- Equipment
 - Functional HF and UHV/VHF radios & Antennas
 - Aerospace networked computer
 - RF plan approved, RF testing – are we done?
- Future
 - Aerospace Computer - Create generic log-in
 - Install digital software (winlink, FT8, PSK-31)
 - 2nd Signalink box for UHF/VHF radio
 - Repair and/or sell non-functioning HF equipment
 - Sell Army Code trainer
 - Approve plans, buy and install better HF antenna
 - Not likely that 1000 watt transmitter power will be approved

A2 Shack – Operational Equipment



- A2 Elevator building 
- 3 Dipole Antennas 
- 2 vertical antennas 
- Parapet east wall 

Aerospace Networked Computer

- Borrowed LCD display
- Keyboard and Mouse

Signalink USB adaptor for Digital Mode

Yaesu FT-736R

70 cm and 2 m (good working order)



Yaesu FT1000

HF (good working order)



Non-functioning Equipment

Kenwood TS-940

LSB, USB, CW not working



ICOM IC-735

Tuner knob not working



Yaesu – FRG-7700

Tuner knob not working



Army Code Trainer

Army Code Trainer
AN/GSC-T1
Serial #1720
McElroy MFG Corp
Order # 1046-PH-45-25

Sell on Ebay



1950s US ARMY Signal Corps CODE TRAINING SET McElroy AN/GSC-T1

\$49.95
Buy It Now



WWII US Army Signal Corps Morse Code Training Set (AN/GSC-T1)

\$160.00
or Best Offer



Signal Corps US ARMY Code Training Set AN/GSC-T1 #3256 McElroy Mfg Corp

\$274.99
Buy It Now
Free shipping



A3 Shack Plans

Jason,

HF antenna replacement (was removed at some point probably due to roof work)

- 1) Antenna: GAP Eagle DX Antenna
 - <http://gapantenna.com/shop/antennas/eagle-dx/> \$419.95
 - This will mount to a 10 ft mast that will be mounted to the same location as the original.
 - Here is one for \$23.02, but I think it could also be sourced locally
https://www.3starinc.com/ez10-16_galvanized_antenna_mast_10_foot_by_1_25_inch_od_16_awg.html
- 2) Guy wire and clamps to mount the mast to the existing structure.
- 3) Radio could use an automatic tuner but I need to get back to you with the specs for that.
 - Could use the antenna without a tuner on some of the bands (and to start)
- 4) Digital mode, we need:
 - External sound card for the radio. Here is the necessary item:
 - <https://www.dxengineering.com/parts/tgr-slusb13k-p> \$129.95.
 - Computer to run digital software

AEA Budget

- Due Soon (7/31)
- D8 controllable Amplifier
- A2 Tower and Beam antenna
- Any Items that we need to add, portable, emergency?

Christmas Party

Proud Bird deposit has been made!

Save the date!

Thursday, December 13 at lunch!