

Mora Hill in Rancho San Antonio Open Space June 24 - 26





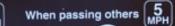








- Open dawn to half hour after sunset
- Speed limit 15





- Bicyclists: Helmets are required €
- Bicycles and horses must stay on designated trails
- Leave plants and animals undisturbed













RATTLESNAKES



Midpeninsula Regional Open Space District

650.691.1200 | www.openspace.org



MOUNTAIN LION HABITAT







IF ATTACKED. FIGHT BACK.

ARRL Field Day Locator Map





Prepping Svend's 20/40-CW tower









15CW: 4-el monobander





VHF Tent





2014 & 2015 FD Observations

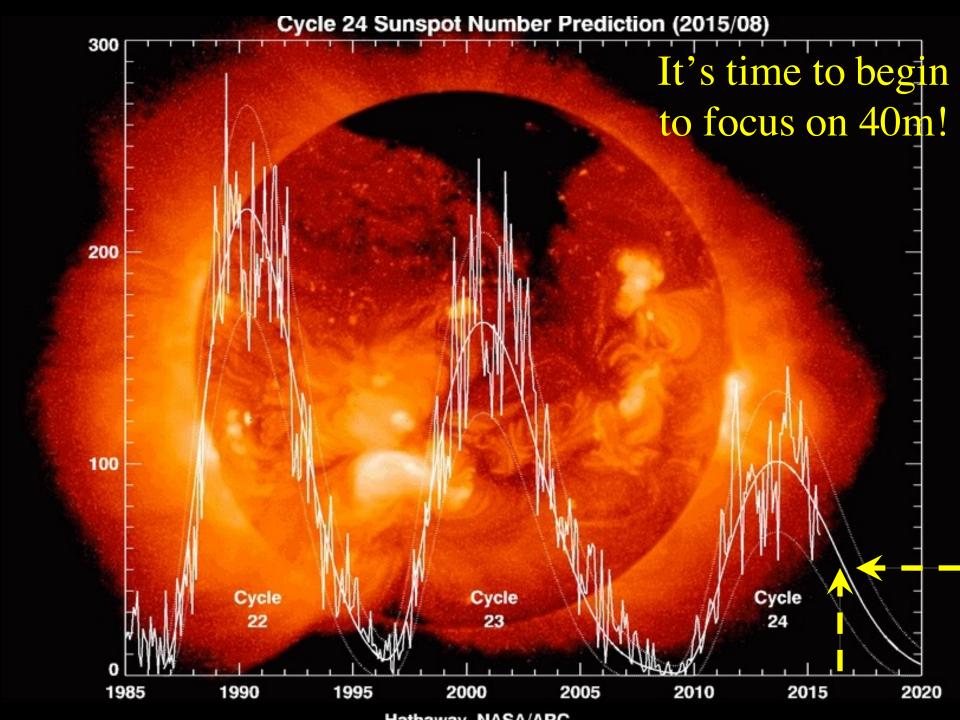
- Digital rocked on 15m
- 40m NVIS Dipole was useful for daytime West Coast contacts
- The most crowded band often wasn't the best choice
- 6, 10 and 15 meters openings: be listening!
- Graveyard action on 20/40/80m is fun

Recent FIELD DAY Results

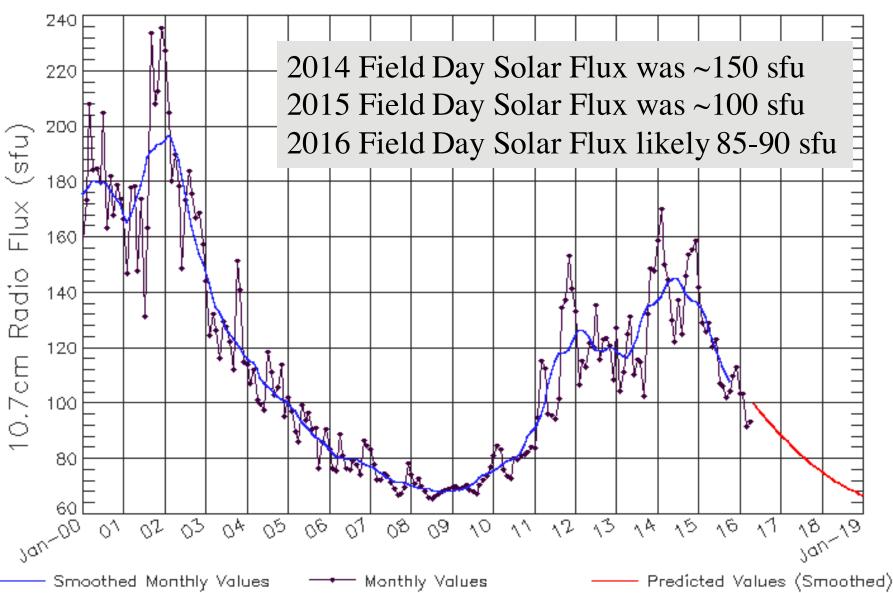
- 2009: #12 out of 2600 participating clubs
- 2010: #7
- 2011: #3
- 2012: #3 again
- 2013: #4
- 2014: #3 yet again
- 2015: #2 !!!

Top Field Day Scores in 2015

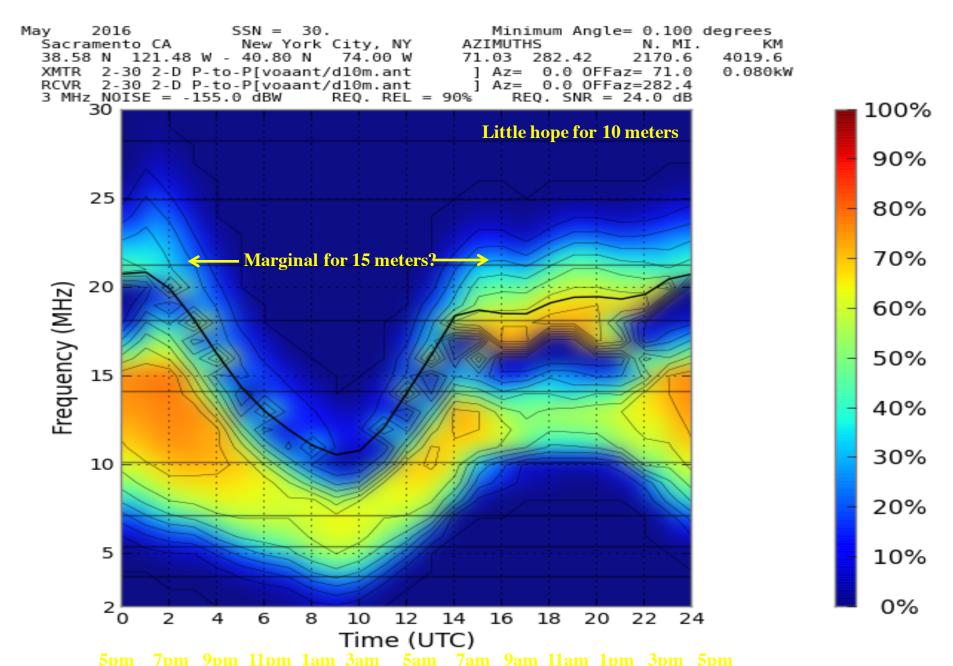
#	Call	Score	Category	QSOs	Power Mult	GOTA Call	Section	Participants	Club
1	W3AO	31,452	18A	9,700	2	KE3Q	MDC	91	Potomac Valley RC & Columbia ARA
2	K6EI	21,400	11AB	2,287	5	W6ZZZ	SCV	22	West Valley ARA
3	W4EZ	18,175	9AB	1,929	5		NC	51	Durham FM Assoc/ Orange Cty RA
4	W5YA	17,680	3AB	1,699	5	AD5A	NM	12	Rancho Escondido ARC
5	KK5W	17,638	8A	4,638	2	K5DX	STX	86	BVARC / TDXS / ECHO ARC
6	W4IY	17,526	8A	4,916	2	W4AD	VA	37	Woodbridge Wireless
7	W6YX	17,336	5F	5,432	2	K6SU	SCV	38	Stanford
8	K4BFT	17,038	4A	5,267	2	N7KDT	AL	55	Huntsville ARC
9	K7LED	16,466	6A	4,941	2	AE7G	WWA	70	Mike & Key ARC
10	K8ES	15,766	4A	4,377	2	W8JK	ОН	50	DELARA
11	W6ARA	15,186	4A	4,648	2	K6OTA	SCV	130	Palo Alto ARA
12	N4N	15,182	6A	4,127	2	N4G	GA	47	N4N FD Group
13	K5UZ	15,108	2A	5,027	2	K5BRC	AR	20	
14	K4JJ	14,536	ЗА	4,195	2	NF4GA	GA	216	North Fulton ARL
15	K5TU	14,164	2A	3,946	2	K5WKC	STX	10	Tilson CC
16	N4C	14,120	3A	4,031	2	NR3X	NC	13	Potomac Valley RC East
17	K4LRG	13,806	4A	4,139	2	N3FQ	VA	26	Loudoun ARG
40	1771 184	40.740	0.4	0.077	0	140 (7) (1.17	40	Little DV Asses



ISES Solar Cycle F10.7cm Radio Flux Progression Observed data through Apr 2016



Circuit Reliability (%)

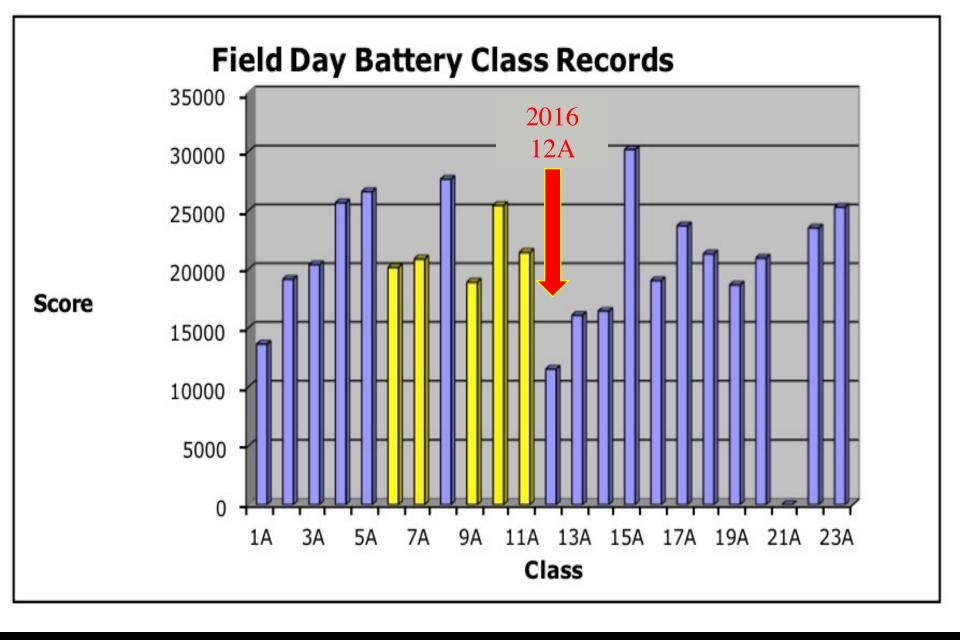


Overall Approach

Plenty of hands-on opportunities Run 12-alpha-battery

Continued focus on GOTA

Increased emphasis on 40 meters Even better antennas!



WVARA currently holds the all-time battery records for 6A, 7A, 9A, 10A, and 11A

12 Alpha Battery

- 1. HF/CW
- 2. HF/CW
- 3. HF/CW
- 4. HF/SSB
- 5. HF/SSB
- 6. HF/SSB
- 7. HF/Digital
- 8. 10 meter all mode

- 9. 6 meter all mode
- 10. 2 meters all mode
- 11. 440 MHz all mode
- 12. 220 MHz / 900 MHz
- Free) 1.2 GHz
- Free) Satellite
- Free) GOTA

Station Captains

• SSB #1 Jon Kelley/Scott Emery (20 meters)

• SSB #2 Jack Brindle (15/80 meters)

• SSB #3 Jon Griffith (40 meters)

• Digital #1 Bill Frantz

• CW #1 Greg Olsen

• CW #2 Jim Peterson

• CW #3 Greg Olsen

• VHF/UHF Bobby Barnett

GOTA Kevin Smith

Satellite Bobby Barnett

GOTA _







GOTA/CW

GOTA Station

- K3 Transceiver & mic Bill Frantz
- 30ft push-up mast Jim
- 10/15/20 tribander Svend
- 40m & 80m dipoles Jim
- Table Greg Olsen and/or Scott Emery ?
- Station battery Jim
- Canopy Bill Frantz ?
- Chairs Bill Frantz ?
- Battery-powered lantern Bill Frantz?

This Year's GOTA Coaches

- Kevin Smith
- More please!

HF Plans (SSB)

- 3 Stations
 - 20 meters
 - -40/10 meters
 - -80/15 meters
- 50ft tower: Force12 4-band yagi
 - 2 elements on 10/15/20/40 (single boom)
 - 80m dipole
 - NVIS 40m dipole for West Coast QSOs

HF Plans (CW)

- 3 Stations
 - 20 meters
 - 40 meters
 - -80/15 meters
- 50ft tower
 - 2 el 40m yagi
 - 4 el 20m monoband yagi
 - 80m dipole
- 35ft tower
 - 4 el 15m monoband yagi
 - NVIS 40m dipole for West Coast QSOs

HF Plans (Digital & GOTA)

- 1 Digital Station (focused on 20/40/80)
- 1 GOTA Station (will operate on non-interfering basis)
- 30ft (push-up) mast
 - Svend's 10/15/20 tribander
 - 40 & 80m dipoles

Field Day WVARA VHF/UHF Station

Bobby Barnett KA4VBF



Objectives

- Definitely cover 6m, 2m, 70cm in SSB and FM.
- Possibly cover 1.25m and 23cm in SSB and FM. Need to research this.
- May add Broadband-Hamnet / HSMM-MESH node for IP access in 13cm (bottom 6 channels of Linksys WiFi router is in ham band). Could cover camp with WiFi off of that.
- Will try to hit SO-50 on a pass.
- Will look into how to work with the inverting transponders on OSCAR-52 and OSCAR-29.

Equipment

- **Icom-7100** will do 6m (<=100w), 2m (<=50w), 70cm (<=35w) on SSB and FM.
- Elecraft KX3/KXPA100 for 6m any mode up to 100w.
- Yaesu FT-817 will also do 6m, 2m, 70cm up to 5w any mode as backup, monitor, or second station.
- Linksys WiFi router with modified firmware for Broadband Hamnet in 13cm band
- Icom HT and handheld dual band yagi for satellites
- There are also a couple of other PA's I have access to, depending on what we decide for power.







Equipment

4 small "towers" for antenna mounting. Each is 21' tall, has 3 guy lines with a ~20' diameter, and has a rotatable mast when setup. Lots of LMR400 and RG8 interconnect.

1.6m 3 element horizontal Yagi is Super Antenna YP3.

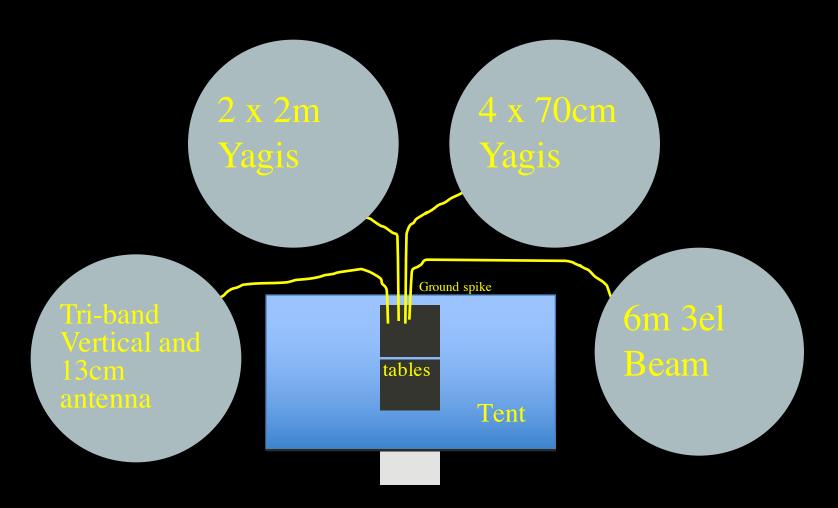
2.Two stacked 2m 4el horizontal Yagis for ~10 dB gain. This is a new setup I am playing with now.

3.Two or four stacked 70cm 7el horizontal Yagis for ~13 dB gain. This is also a new setup I am playing with.

4.6m/2m/70cm vertical will work for FM contacts. Is a Diamond V-2000 w 2/6/8 dB gain. Will also mount 13cm high gain antenna to point to another Broadband Hamnet node.



Layout



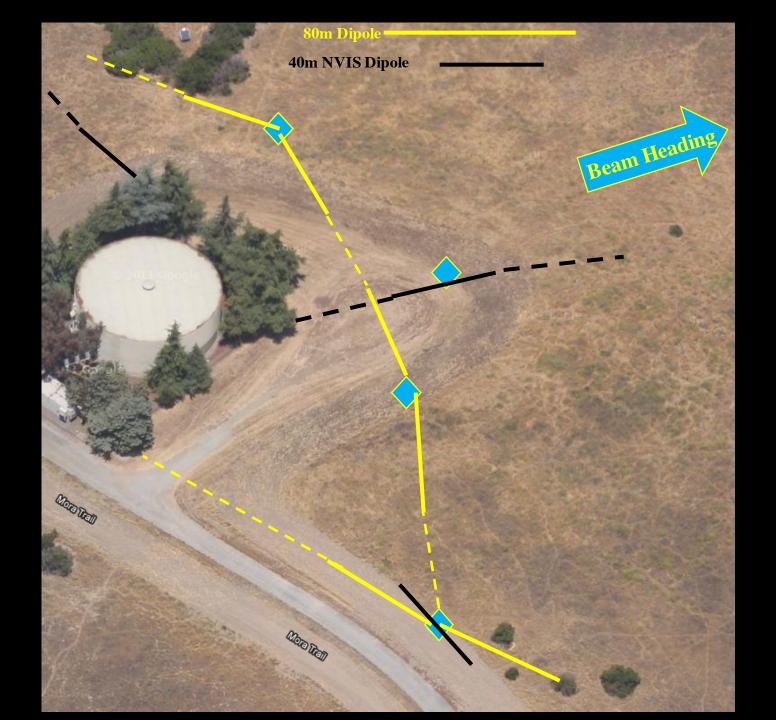
Also already in possession of a large tent, floor tarp, mat, card tables, and chairs.











Time Table

- Set-Up Friday 8am to 5pm
- Operate! Saturday 11am Sunday 11am
- Tear-Down Sunday 11am 1pm

Important Jobs

- Ice, tower trailer, daytime power -- Svend
- Clean-up Everybody!
- First Aid Kit ???
- Porta-potty rental -- Jim P
- Ranger coordination Jim P

Bonus Points

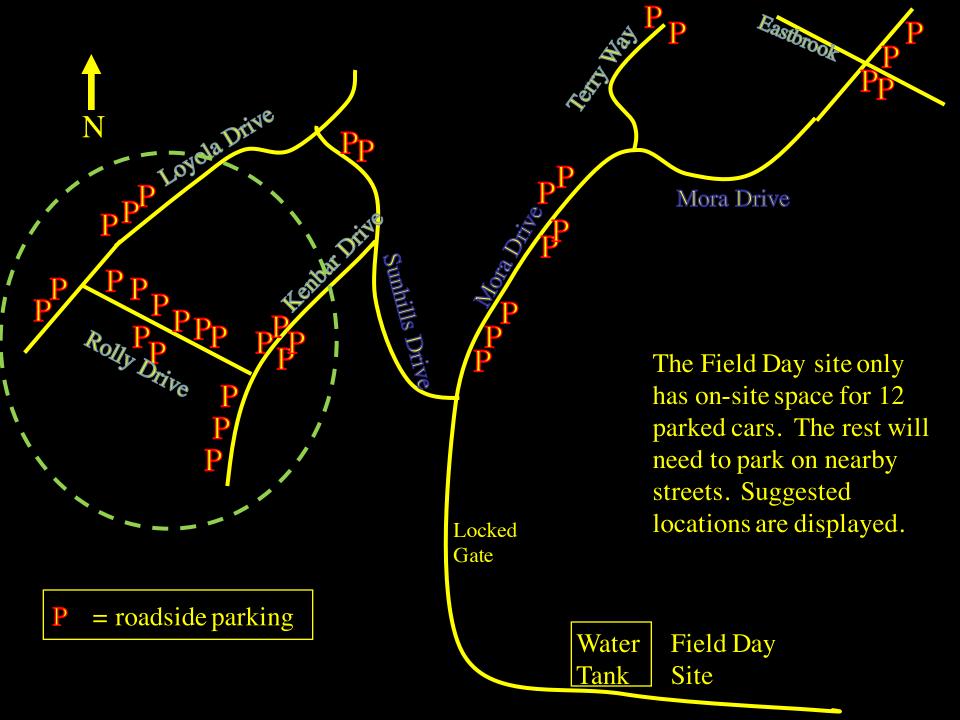
- 7.3.1 Emergency Power (100pts per transmitter = 900pts) covered
- 7.3.2 Media Publicity(100 pts) Tom Dunbar
- 7.3.3 Public Location (100 pts) -covered
- 7.3.4 Public Information Table and Materials (100 pts) OPEN
- 7.3.5 Message Origination to Section Mgr (100pts) Tom Dunbar
- 7.3.6 Message Handling (10 messages=100pts) Tom Dunbar
- 7.3.7 Satellite QSO (100pts) Bobby Barnett
- 7.3.8 Alternative Power (100pts) Tom Dunbar (solar)
- 7.3.9 W1AW Bulletin (100pts) OPEN
- 7.3.10 Tutorial Demo (100pts) OPEN
- 7.3.11 Site Visitation by elected official Jon Kelley?
- 7.3.12 Site Visitation by served agency (100pts) covered (visiting ranger)
- 7.3.13 GOTA Station / GOTA Coach covered by GOTA team
- 7.3.14 Web Submittal (100pts) JimP
- 7.3.15 Field Day Youth Participation (max of 100pts) all

GOTA Bonus Points

7.3.13 GOTA Station / GOTA Coach

- 20 bonus pts for every 20 QSOs by same operator
- Bonus pts doubled if coaches present full-time
- 20pt bonus (up to 100 pts) for each participant under 18 who completes at least 1 QSO

Parking



The Three No's

- No open flames of any kind
- No parking on the hilltop along the road
- No loud noise / bright lights after dark

What to Bring

- Sunscreen, hat, sunglasses
- Purel, hand sanitizer
- Water
- Munchies



