Field Day Orientation

What you need to know to get on the air.

Saratoga Amateur Radio Association June 24, 2023 AE6PM, W6WS, NU6P Updated June 7th by W6WS and KM6ZWR

What is Field Day?

- \Box Annual ARRL operating event held since 1933!
- □ Over 40,000 participants in U.S. and Canada
- □ Over 1,000 clubs and other organizations participate
- □ Emphasizes emergency preparedness and operations
- $\hfill\square$ Oftentimes a club social event as well
- \Box An operating event, *not* just a contest
- \Box Always held on the 4th weekend of June (e.g., June 24th-25th, 2023

Objectives

 \Box Can be an individual effort, with a friend, or part of a club

- \Box Can be at your home or in the field
- \Box Prepare for the event in the prior 24 hours (e.g., begin on Friday at 11 AM Pacific)
- □ Contact as many stations as possible over the 24 hour period (11 AM Saturday to 11 AM Sunday) under emergency/field conditions
- □ Demonstrate to the public, elected officials, and officials of "served agencies" our ability to provide public service
- \Box Have fun

Field Day is an annual amateur radio communications event designed to exercise our emergency communication capability.

However, it can also be great fun *simply listening* to all of the traffic coming in from many far-off locations!

Each contact with another station requires exchanging **call signs and three other pieces of information:**

- (1) the number of simultaneous transmitters,
- (2) the Class.
- (3) the ARRL Section where you are operating.

Field day in 2023 is Sat-Sun June 24-25 from 1800 UTC Saturday (1100 PDT) to 2059 UTC Sunday (1400 PDT).

You are free to operate any frequency and any mode within the constraints of your class of license.

It's good to keep a log of who you talked to, so as not to repeat yourself.

Contact any station once per band per mode.

You do *not* need to report the results to the ARRL or anyone else, but many choose to do so.

Basic Preparation/Operation

If operating **HF**, tune around and listen for a few minutes and you will know what to do. If you don't hear anything, you're on the wrong band/mode or your antenna has fallen down. Ha! If on voice and no one answers you, you are probably on the wrong SSB sideband. The convention is LSB on 160 thru 40 meters.

VHF/UHF is a little less intuitive. Mainly due to the lack of intense activity and channelization.
Start by monitoring one of the National Calling Frequencies.
No repeaters allowed, it's all simplex.

Share the frequency.

Antenna Polarization

Antenna polarization for VHF/UHF **SSB** is usually **horizontal.**

Antenna polarization for VHF/UHF **FM** is usually **vertical**.

Note: Using an improved quality antenna and higher elevation will greatly improve your performance!

ARRL Sections

- SCV Santa Clara Valley (that's us)
- SF San Francisco
- EB East Bay
- SV Sacramento Valley
- SJV San Joaquin Valley
- (There is a link on the Reference slide to all sections)

Class Definitions

Class A: Club/non-club portable (group of 3 or more)

Class A – Battery*

Class B: One or two person portable

Class B – Battery*

Class C: Mobile

Class D: Home stations

Class E: Home stations – Emergency power only

Class F: Emergency Operation Centers (EOCs)

*Output power of 5 watts or less and a power source other than commercial mains or motor-driven generator.

Just using your HT would be B-Battery. Mobile rig in the car would be C.

VHF/UHF Operation Example

If you are on a VHF or UHF frequency using your HT, your contact might go like this:

[me] CQ Field Day, this is AE6PM.

[you] AE6PM this is KE6QDI.

[me] KE6QDI, please copy 1ESCV, one Echo Santa Clara Valley.

[you] Roger, one Echo Sierra Charlie Victor. Please copy 1DSF, one Delta San Francisco.

[me] Roger, one Delta Sierra Foxtrot. QSL. [me] This is AE6PM.

Rigid ITU phonetics are not required but are desired. No prowords, just efficient, quick communication. You might be asked for your Maidenhead Grid Square. Look yourself up on QRZ.com to find yours, or see References slide for a link. Jack's home is CM97ag

HF Operation

A contact on HF (or VHF/UHF SSB) proceeds in much the same way.

The CQ might become CQ, CQ, CQ Field Day in hopes someone will tune across your frequency.

Contacts tend to be terse and quick – listen for a while. Contact any station once per band per mode (voice, CW and digital).

If someone says you are a "Dupe" – don't be offended. It simply means you've already worked him on that band/mode.

VHF/UHF National Simplex Calling Frequencies 52.525 MHz 146.52 MHz (2 meter) 223.500 MHz 446.000 MHz (70 cm) Also try 146.550, 146.655, 146.415, 146.460, 146.505 and 146.550 MHz

HF Frequencies

160, 80, 40, 20,15 and 10 meters.Also, all bands 50 MHz and above.Technician Class licensees can also operate voice on28.300 to 28.500 MHz and CW/digital on 28.000 to28.300.

Logging

Keep a log of your contacts for your personal use or so that you or your group has the necessary information to submit to the ARRL:

Call Used and Exchange Sent (one time entry) Frequency Mode Date Time (UTC) Station Worked Exchange Received

(See References for a link to a logging form)



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Call Used Frequency Mode Date		•	page of		
		Time (UTC) Station Worked		Exchange Received	
Frequency	WIGue	Date		Station worked	Exchange Received
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Scoring

Based on power and mode:

- 1 point per phone QSO (>150 watts)
- 2 points per phone QSO (>5 watts to 150 watts)

5 points per QRP phone QSO (5 watts or less) Multiply by 2 for CW and digital QSO (e.g., a QRP CW QSO is 10 points)

Many bonus points are available. See the ARRL rules

Language Lesson

CQ - Looking for a contact.

QSO (or Q) - A contact.

QSL - Acknowledges receipt.

- QRZ Please try again.
- 73 Best regards (pronounced seven three)

<u>References</u>

- 1. Field Day rules: <u>http://www.arrl.org/field-day</u>
- 2. ARRL Sections: <u>http://www.arrl.org/section-abbreviations</u>
- 3. Field Day Log Page: <u>http://www.arrl.org/files/file/Field-</u> Day/2019/2019%20FD%20Log%20Sheet.pdf
- 4. Grid square locator:

http://www.levinecentral.com/ham/grid_square.php

Windows users try ctrl+click to follow the link.

(Where W6WS goes... K6MI)



KT-36XA + 40/80m dipoles



K6MI VHF/UHF Station



Jack's Portable Antenna



