



ARRL Field Day 2022

C.A.R.E.S. Operation
June 25 - 26, 2022



Agenda

- What is Field Day?
- CARES Field Day Promotions
- CARES Field Day and COVID-19
- CARES Field Day – ARRL Rules
- CARES Field Day Plan
- CARES Field Day Equipment
- CARES Field Day Schedule
- CARES Field Day Operations
- CARES Volunteer Needs
- After Field Day
- Final Comments




What is Field Day?

- An annual ARRL sponsored 24-hour event held on the fourth full weekend of June
- Field Day Objectives
 - To setup communication operations “under abnormal situations in less than optimal conditions.”
 - To work as many stations as possible in Region 2 and beyond
 - Demonstrate to the public what amateur radio service is about and how it can serve them in times of crisis and disasters
 - Public showing of how CARES prepares and serves our community



CARES Field Day Promotion

- Cupertino Scene
- Cupertino.org Event Calendar
- Cupertino AM Radio 1670KHz PSA 
- Invitations have been sent to:
 - Mayor Darcy Paul and Cupertino City Council
 - ARRL Section Manager and Vice Director
 - James Armstrong (NV6W) ARRL Section Manager
 - Kristen McIntyre (K6WX) ARRL Vice Director Western Division



CARES Field Day & COVID-19

- COVID-19 has changed nearly every aspect of life for the past 2 years but....
- Field Day 2022 will operate at a **physical location**:
 - Memorial Park parking lot on Alvis Ave. just west of the Quinlan Community Center
- Any COVID-19 requirements will still be followed



CARES Field Day - ARRL Rules

Rule changes for Field Day 2022:

- 1) For Field Day 2022, Class D stations may work all other Field Day stations, including other Class D stations, for points.
- 2) In addition, for 2022, an aggregate club score will be published, which will be the sum of all individual entries indicating a specific club (similar to the aggregate score totals used in ARRL affiliated club competitions).

New for Field Day 2022

- 3) All Field Day class stations NOT to exceed 100 watts PEP.



CARES Field Day – ARRL Rules

How do the rules affect CARES Field Day?

- The first rule allows any home station operating as class D (home station) to work all Field Day stations including other class D home stations
 - In previous years, class D stations could work class A, B, C, E and F but not any class D stations
 - This waiver allows for more contacts to be made
- The transmit power of 100 watts PEP is new for 2022 and means an even playing field for all stations leaving it to band conditions and propagation as the great equalizer



CARES Field Day – ARRL Rules

If you choose to operate from home but want to contribute you're points to CARES Field Day:

- Each participant operates from home, mobile, etc. and uses their **own call sign**
- Each participant will assume their own **class and ARRL/RAC section**
- Each participant **logs their own contacts**
- Each participant submits their own Field Day entry using the Field Day web submission form:
 - <https://field-day.arrl.org/fdentry.php>
 - Each participant enters “**CUPERTINO ARES**” on the web submission form field labeled “Club or group name”



CARES Field Day – ARRL Rules

ARRL Class

- Class A: Club or Group of 3 or more persons
- Class B: No more than two persons typically running on battery power or non-commercial power
- Class C: Mobile -- vehicle, marine mobile, aeronautical mobile
- Class D: Home station running on commercial main power
- Class E: Home station running on emergency power
- Class F: Emergency Operation Center (EOC) – CARES operates in this class
- The number preceding the class designator is the number of transmitters operating simultaneously
 - Eg: 2F = 2 transmitters operating simultaneously as class F



CARES Field Day – ARRL Rules

ARRL Section / RAC section

- ARRL section is an abbreviation of the section (geographic region) you are operating from
- ARRL Sections in San Francisco Bay Area:
 - SF: San Francisco
 - EB: East Bay
 - SCV: Santa Clara Valley
- All ARRL sections can be found in the ARRL Field Day 2022 packet (in PDF)



CARES Field Day – Bands and Modes

What bands can be used for Field Day?

- All work bands
 - Includes: 160m, 80m, 40m, 20m, 15m, 10m, 6m, 2m, 70cm
 - Excludes: 60m, 30m, 17m and 12m
- Modes:
 - Digital
 - CW, PSK31, RTTY, FT8, FT4, Packet
 - Non-Digital
 - SSB phone, FM Voice



CARES Field Day Bands and Modes

What types of contacts do NOT count for Field Day points?

- Any contacts made using repeaters
 - No contacts via FM repeaters, IRLP, Echolink, DMR
- Contacts made via Satellite are exempt



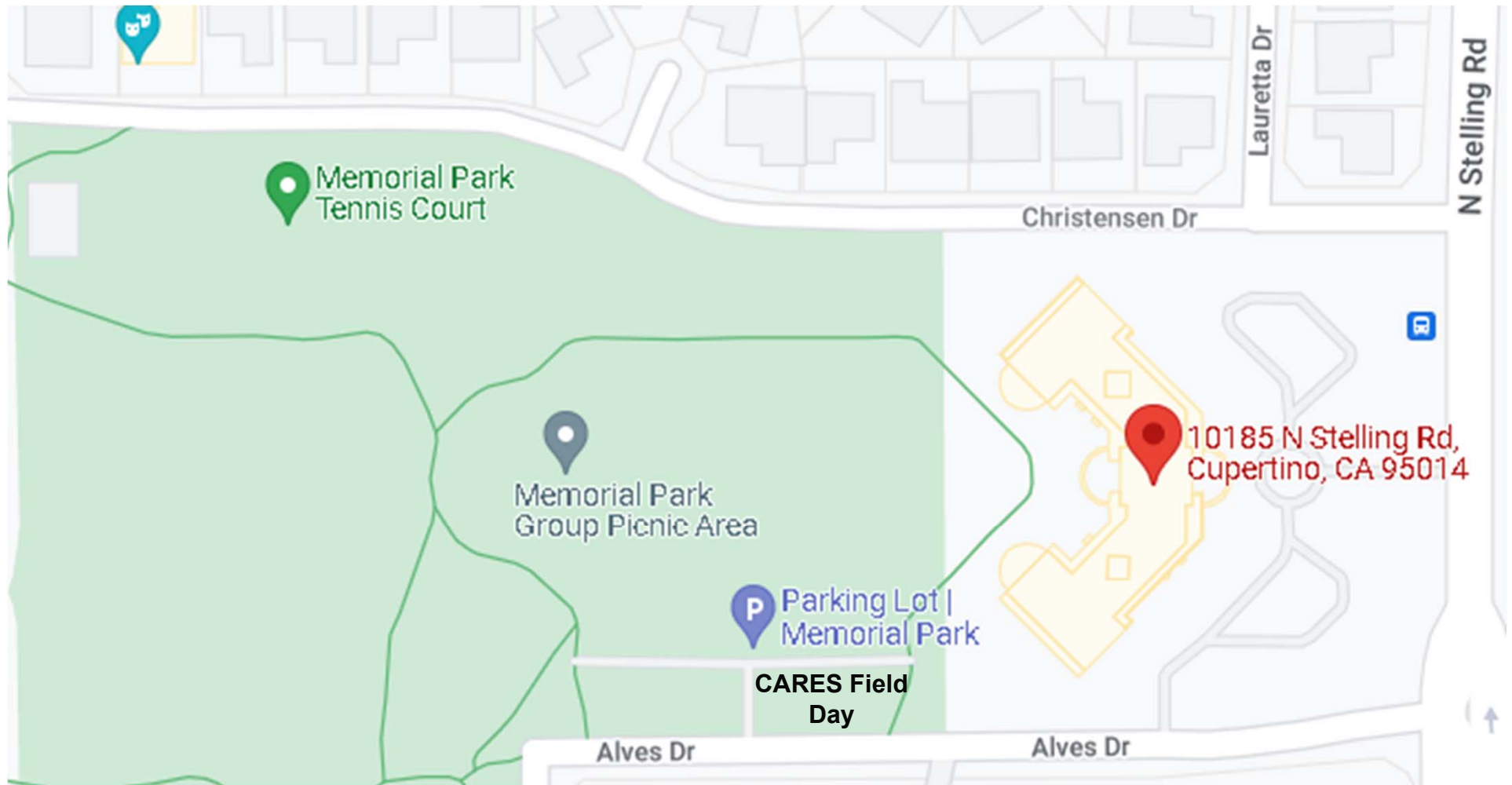
CARES Field Day Plan

- CARES Call Sign: **K6KP**
- GOTA Station Call Sign: **AG6GX**
- Field Day Class and Section: **2F SCV**
- ARRL Class **F** is EOC designation
- Cupertino EOC Activation Number: **CUP-22-32T**
- EOC activated and operating on 100% emergency power
- Location:
 - Quinlan Community Center rear west parking lot
 - 10185 N Stelling Rd, Cupertino

NOTE: No need to establish or maintain an ICS-214



CARES Field Day Plan



CARES Field Day Plan

- Operating Stations
 - Two HF Stations
 - Bands: 40m, 20m, 15m, 10m
 - Modes: CW, SSB Phone , PSK31, FT8, FT4
- GOTA HF station
- VHF/UHF Station in Com Van 469
 - Modes: FM Voice, Packet



CARES Field Day Equipment

- One Tri-band HF beam antenna: 20m, 15, 10m
 - One 30-foot vehicle-based push-up mast with guy lines
 - One Triplexer for multiple stations on tri-band antenna
- One Buddy pole antenna for 40m NVIS communications
- Cupertino Com Van 469



CARES Field Day Equipment

- Several runs of coax
- 7 KW generator from Com Van 469, power strips, extension cords
- Fire extinguishers from ARKs
- 4 canopies, 8 tables, 13 chairs
- Information table with CARES literature and public sign-in visitor's log
- Food and drinks provided by the EOC
 - *Don't forget the donuts!!*



CARES Field Day Schedule

- 7:45 – Com Van 469 and ARK supply trailer arrive on site
- 8:00 – Volunteers arrive for setup
- 8:15 – Site planning, safety briefing, assignments
- 8:30 – Site setup (canopies, antennas, Com Van, radios)
- 10:30 – Site and safety walk-through checks
- 10:40 – Field Day operation and safety briefing
- 11:00 – (1800 Zulu) ARRL Field Day radio operations begin
- 12:30 – Lunch arrives
- 16:00 – 17:00 – Disassemble site, return equipment



CARES Field Day Operations

- Operate all stations and log contacts
- Greet and welcome the public, answer questions
- Media Interviews
- Visits by Cupertino elected officials and served agencies
- Visit by ARRL section leaders
 - James Armstrong (NV6W) ARRL Section Manager
 - Kristen McIntyre - K6WX – ARRL Vice Director Western Division



CARES Field Day Operations

- C4 Credential Go-Kit checks and signoff
- Download the Go-Kit checklist from:
https://www.scc-ares-races.org/gokit/SCCo_Go_Kit_rev210601.pdf
- Bring your Go-Kit to Field Day
- Fox hunt Field Day Education
- Photography for ARRL Submission
- Enjoy the day, stay cool and have fun!



CARES Field Day Operations

Field Day Exchange Example for Voice

K6KP> CQ Field Day, CQ Field Day, Kilo Six Kilo Papa, QRZed:

KN6PE> Kilo November Six Papa Echo

K6KP> Kilo November Six Papa Echo, Two Foxtrot, Sierra Charley Victor

KN6PE> One Delta, Sierra Charley Victor

K6KP> Thanks, CQ Field Day, CQ Field Day, Kilo Six Kilo Papa, QRZed:

KK6EWQ> Kilo Kilo Six Echo Whisky Quebec

KI6LDM> Kilo Kilo Six Echo Whisky Quebec, Two Foxtrot, Sierra Charley Victor

KK6EWQ> One Charley, Sierra Charley Victor

K6KP> Thanks, CQ Field Day, CQ Field Day, Kilo Six Kilo Papa, QRZed:

You will often hear “Please copy...*class section*”

Use of phonetics are very important especially on HF SSB



CARES Field Day Operations

HF band Plan depending on propagation

Time PDT	Band	Mode	Remarks
1100	20m	CW, FT8,SSB	This is the most popular band
1200	20m	CW, FT8,SSB	
1300	20m	CW, FT8,SSB	Check both 15m and 10m, look for FT8 signals
1400	20m	CW, FT8,SSB	Check 15m
1500	20m	CW, FT8,SSB	Try the “take a nap band”, there might be good propagation
1600	20m	CW, FT8,SSB	Check 40m, also 10m has been known to have short openings
1700	20m	CW, FT8,SSB	Check 40m
1800 - 2000	20m,40m	CW, FT8,SSB	Check 80m
2000 - 2300	20m,40m,80m	CW, FT8,SSB	20m usually dies at this point
2300 - 0600	40m,80m	CW, FT8,SSB	40m and 80m should be strong, or try the “Go to sleep” band
0600	20m, 40m	CW, FT8,SSB	
0700	20m,40m	CW, FT8,SSB	80m will start to die
0800	20m,40m	CW, FT8,SSB	
0900	20m	CW, FT8,SSB	Check 15m and 10m
1000	20m	CW, FT8,SSB	
1100			GAME OVER



CARES Field Day Volunteer Needs

- Volunteers needed for setup and teardown
- Listen for and copy down W1AW bulletin (K6PH will broadcast the W1AW bulletin for the West Coast)
- Station operators
- Man the information table and take public sign-in



What to bring to Field Day

- Communications Vest
- CERT hard hat and gloves for setup and teardown
- CARES Badge
- Sturdy shoes
- Hat for shading your head and face
- HT
 - For Fox Hunt
 - 2m HT with good signal strength meter
 - Removable whip antenna or a Yagi
 - A cardboard tube wrapped in aluminum foil long enough to slide the whip antenna into



Field Day 2022 is over, Now What?

- Follow up on visitors log for those who expressed an interest in Citizen Corps
- ARRL Field Day Submission
 - Calculate bonus points and QSO score
 - Put together all supporting documents
 - Submit scoring sheet and supporting documentation to the ARRL within 30 days
- After Action Report for city EOC activation
 - Write AAR and submit within 90 days



CARES Field Day Entry Submission

After Field Day, if you worked Field Day from home:

1. Collect any supporting documents to support any claimed bonus points
2. Total up your contacts by band and by mode
3. Package up your logs (hopefully they are on your computer)
4. Go to <https://field-day.arrrl.org/fdentry.php>
5. Enter YOUR call sign, your location in the ARRL/RAC section drop-down list
6. On the form “Club or group name”, enter “**CUPERTINO ARES**”
7. Enter the number of participants and simultaneous transmitters
8. Check the class you operated as: B, C, D, or E
9. Check the Power Sources, all that apply



CARES Field Day Entry Submission

After Field Day, if you worked Field Day from home:

9. For bonus points, only check the ones you did i.e., copy the W1AW bulletin and attach any supporting documents/files
10. Enter your QSO counts by band and mode per the table in the form
11. Do not enter anything for GOTA
12. Double check your information
13. Provide your name, call sign and email to confirm
14. If all is correct, click Submit Entry
15. Add any further comments as you wish
16. You will receive an email with your total score and breakdown.
The email will contain a link for making changes if necessary.

Entries must be submitted **with in 30 days of Field Day**




CARES Field Day Entry Example

← → ↻ field-day.arrl.org/fieldentry.php

2020 Field Day Entry

Attention! Entries for the 2020 Field Day are not being accepted until its start at 2020-06-27 18:00:00







Complete this form to submit your Field Day Entry to the ARRL for review and tabulation. You can access a help page by clicking on  next to an item on the form. **Note:** You can select documentation files for upload the documents at a later time. Each document can not be larger than 6 MB.

Call Used  GOTA Station Call  Location

Club or Group Name 

Number of Participants  Number of Transmitters in simultaneous operation 

Entry Class (check only one):

- A. Club or non-club group portable 
- B. 1 or 2 person non-club group portable  List of calls of operators:
- C. Mobile 
- D. Home station commercial power 
- E. Home station emergency power 
- F. EOC station 

Power Source (check all that apply):

- Generator
- Commercial mains
- Battery
- Solar
- Other (list)

Power Multiplier (check only one):

- 5 watts or less and battery powered = 5x
- 150 watts or less = 2x
- Over 150 watts = 1x



CARES Field Day Entry Example

Bonus Points claimed: Check each box as appropriate and include required proof of points with your submission. All bonus points will be verified at ARRL HQ and added to your score.

<input type="checkbox"/> 100% emergency power ⁱ	
<input type="checkbox"/> Media publicity ⁱ	Upload documentation: <input type="button" value="Choose File"/> No file chosen
<input type="checkbox"/> Public location ⁱ	
<input type="checkbox"/> Public information table ⁱ	Upload documentation: <input type="button" value="Choose File"/> No file chosen
<input type="checkbox"/> Formal message to ARRL SM/SEC ⁱ	Upload documentation: <input type="button" value="Choose File"/> No file chosen
<input type="checkbox"/> W1AW Field Day message ⁱ	Upload documentation: <input type="button" value="Choose File"/> No file chosen
<input type="checkbox"/> Formal messages handled ⁱ — No. <input type="text"/>	Upload documentation: <input type="button" value="Choose File"/> No file chosen
<input type="checkbox"/> Satellite QSO (automatically determined)	
<input type="checkbox"/> Natural power QSOs completed ⁱ	Upload documentation: <input type="button" value="Choose File"/> No file chosen
<input type="checkbox"/> Site visit by invited elected official ⁱ	
<input type="checkbox"/> Site visit by invited served agency official ⁱ	
<input type="checkbox"/> Educational activity ⁱ	
<input type="checkbox"/> Youth participation ⁱ	
Number of youth participants completing at least 1 QSO: <input type="text"/>	
Total number of youth participants: <input type="text"/>	
<input type="checkbox"/> GOTA bonus (automatically determined)	
<input type="checkbox"/> Submitted entry online (automatically determined)	
<input type="checkbox"/> Safety officer ⁱ	Upload documentation: <input type="button" value="Choose File"/> No file chosen
<input type="checkbox"/> Social media ⁱ	

Note: Bonus points for satellite QSO, GOTA QSOs and web submission will be automatically determined from info entered elsewhere on this form.



CARES Field Day Entry Example

Band/Mode QSO Breakdown: Do not list GOTA QSOs in this section. [i](#)

Band	CW		Digital		Phone	
	QSOs	Pwr(W)	QSOs	Pwr(W)	QSOs	Pwr(W)
160m						
80m						
40m						
20m						
15m						
10m						
6m						
2m						
222						
432						
Other						
Satellite						

Upload band/mode calls list (Dupe Sheet or Cabrillo file):

No file chosen

I/We have observed all competition rules as well as all regulations for amateur radio in my/our country. My/our report is correct and true to the best of my/our knowledge. I/We agree to be bound by the decisions of the ARRL Awards Committee. Submission of this form indicates my/our agreement with these statements. [i](#)

Name Call E-mail Address

You'll have an opportunity to enter comments using a link on the confirmation page.



Some Final Comments

- All FCC Part 97 rules apply during Field Day
 - At Memorial Park, K6KP trustee and GOTA station coach AG6GX both hold an Extra class license
 - Station operators may work with Extra class privileges
 - If operating from home, your license class and band privileges are in affect
- If there is an active hurricane, please stay clear of 14.300MHz and 14.325MHz
 - Marine Mobile Nets
 - National Hurricane Center
- Setup and Teardown
 - Work with the equipment owners and follow their instructions



Interested in Getting Your Amateur Radio License?

The following are links to several VE and test locations for obtaining your amateur radio (ham) licenses:

Name / Location	Website
Sunnyvale VEC ARC	www.amateur-radio.org/
BAEARS - Bay Area Educational Amateur Radio Society	www.baears.com/
Silicon Valley VE Group – Saratoga Fire Station	www.svve.org/
W5YI-VEC	www.w5yi.org

Additional information can be found at:

The ARRL
Amateur Radio Relay League
www.arrl.org
Search for VEC:
www.arrl.org/find-an-amateur-radio-license-exam-session





Call Sign

K6KP

Category and Section

2F SCV



Cupertino ARES/RACES





Call Sign

AG6GX

Category and Section

2F SCV



Cupertino ARES/RACES



Thank you

Any Questions?

