ARRL Field Day 2020

Palo Alto Amateur Radio Assoiation

June 27, 2020

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PAARA Day – A Time To Adapt

- COVID-19 has changed nearly every aspect of life as we know it
    - Social Distancing of six feet or greater
    - Small group gatherings of no more than 10 people
    - No station coaches including GOTA
    - No public setup or public displays
  - Even if Shelter-In-Place is lifted, the above restrictions will still be in place

PAARA Field Day – A Time To Adapt

- A quote from an ARRL Field Day article:

- "With any emergency preparedness exercise, it's not about adapting the situation to your operation, it's about adapting your operation to the situation that presents itself."

- Therefore, this year's Field Day objectives are:

- For all participating CARES members to have fun

- Keep people from getting sick

- Adapt our operations to the current situation

PAARA Field Day – A Time To Adapt

- No physical setup
- No GOTA station
- No city activation number required
- Sadly, no food or drinks will be provided

- All clubs and groups are working out how they will operate on Field Day

PAARA Field Day – A Time To Adapt

- Recent changes for Field Day 2020:

- Two Field Day rule waivers or variances published on May 27, 2020 driven by the COVID-19 Pandemic

  - 1) For Field Day 2020 only, Class D stations may work all other Field Day stations, including other Class D stations, for points.
  - 2) In addition, for 2020 only, 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).

- http://www.arrl.org/temporary-rule-waivers-for-arrl-field-day-2020

PAARA Field Day – A Time To Adapt

- How do the two rules affect PAARA 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 stations home stations

- In previous years, class D stations could work class A, B, C, E and F but not any class D stations

- This allows for more contacts to be made

PAARA Field Day – A Time To Adapt

- How do the two rules affect PAARA Field Day?

- The second rule effectively removes the 1,000 foot diameter circle requirement, but...
    - Each participant operates from home, mobile, etc. and uses their own call sign
    - Each participant will assume their own class and 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 enter "PALO ALTO AMATEUR RADIO ASSOCIATION" on the form labeled "Club or group name"

PAARA Field Day

- 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, aeronautical
- 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 simultaneously operating
  - Eg: 1D = 1 transmitters operating in class D
  - Eg: 1E = 1 transmitter operating in class E

PAARA Field Day

- ARRL Section / RAC section

- ARRL / RAC section is an abbreviation of the ARRL section you are operating from
    - RAC: Radio Amateur of Canada

- ARRL Section Region 6 in San Francisco Bay Area:
    - SF: San Francisco
    - EB: East Bay
    - SCV: Santa Clara Valley
        - All ARRL / RAC sections can be found in the ARRL Field Day 2020 packet (in PDF)

PAARA Field Day

- What bands can be used for Field Day?
- All work bands
  - Includes: 160m, 80m, 40m, 20m, 15m, 10m, 6m, 2m 220, 440
  - Excludes: 60m, 30m, 17m and 12m
  - Modes:
    - Digital
      - CW, PSK31, RTTY, FT8, FT4, Packet
    - Non-Digital
      - SSB phone, FM Voice

PAARA Field Day

- What types of contacts do NOT count for Field Day?
- Any contacts made using repeaters
  - No contacts via FM repeaters, IRLP, Echolink, DMR
  - Contacts made via Satellite are exempt

PAARA Field Day

- Field Day has arrived, you need to:
- Decide what class you will operate as and the number of transmitters, once you start you cannot change it
  - Example: 1D – Home station commercial power ("one delta")
  - Example: 1E – Home station emergency power ("one echo")
- Your ARRL section will most likely be SCV – Santa Clara Valley
- Your exchange will then be:
  - Your callsign, Class, Section
  - Example: KI6LDM, 1E (One Echo Sierra Charley Victor)
- REMEMBER: Class D stations can work all Field Day classes including other class D stations per the first rule waiver

PAARA Field Day

- What if I only have a 2m/440 HT?
- Field Day is for *every ham* that wants to participate and we encourage you to join in on the fun!!
- Your exchange will be 1B SCV
- Its expected that there will be a lot more 2m/440 participants this year AND you can claim the 5X power multiplier for operating 5 watts or less from your HT
- Use the 2m simplex frequencies: 146.460, 146.505,146.520, 146.535 to make contacts. National calling frequency: 146.52
    - See http://www.portcars.org/wp/wp-content/uploads/2011/09/2-Meter-BandPlan.pdf
- Use the 440 band as well
- Just don't use any repeaters for making Field Day contacts
- Don't forget to log your contacts

PAARA Field Day

- Digital Modes

- CW, PKS31, RTTY, FT8, FT4

- Digital contacts are worth 2 points each

- The most popular digital mode for this year's Field Day will be FT8 and FT4

    - Requires WSJT-X version 2.1.2 for Windows 10 and Linux
    - Has a built-in logging feature
    - Can be used on HF, 6m, 2m
    - For Field Day operations, configure WSJT-X for Field Day and enter your class and section
        - File -> Settings -> Advance, check the box for Special operating activity, then select ARRL Field Day, then enter your class and ARRL/RAC section i.e., 1E SCV

PAARA Field Day

- Logging for Field Day

- There are a number of logging programs
    - N1MM   Free
    - WriteLog $30.00
    - N3FJP $9.00
    - Microsoft Excel can also be used to log contacts
  - It is not required to submit cabrillo or ADIF logs for Field Day
  - You do not need to have an account on Logbook of the World
  - Log your contacts in whatever way works best for you
  - WSJT-X has a built in logging feature
  - After Field Day, sort your contacts by band and mode

PAARA Field Day

- Logging for Field Day
- Required information to log
  - Band the contact was made on (or frequency)
  - Date
  - Time (UTC)
  - Mode i.e., CW, LSB / USB, FM, PSK31, FT8, FT4
  - Station worked call sign
  - Exchange received: Class I,e., 1D OR, 2B AB, 1E STX
  - Most logging programs provide a Field Day specific logging feature

PAARA Field Day

51							
52	20m @100w		Mode=USB				
53							

	Frequency (MHz)	Date	Time (UTC)	Call Sign	Class	Section	Youth	Comments
55	14.3400	6/22/2019	18:05	KU6S	4A	EB		
56	14.3450	6/22/2019	18:16	K5SSR	1A	NM		
57	14.3450	6/22/2019	18:20	K7OJI	2A	ID		
58	14.3450	6/22/2019	18:22	K7OPP	1A	EWA		
59	14.3450	6/22/2019	18:25	KC7PCL	1D	NM		
60	14.3450	6/22/2019	18:28	K6EI	9A	SCV		
61	14.3450	6/22/2019	18:31	K7BWJ	1D	NV		
62	14.2580	6/22/2019	18:41	W7OXB	1D	WWA		
63	14.2710	6/22/2019	18:52	W7BI	3A	WWA		
64	14.3470	6/22/2019	18:59	N7UW	2A	WY		
65	14.2875	6/22/2019	19:55	K7WA	3A	UT		
66	14.2500	6/22/2019	19:57	K7DAV	3A	UT		
67	14.2960	6/22/2019	20:02	K7CAR	1B	UT		
68	14.8425	6/22/2019	20:11	W7MOT	2A	AZ		
69	14.2575	6/22/2019	20:16	VE6AO	1D	AB		
70	14.2360	6/22/2019	20:36	N7W	2A	WY		
71	14.2780	6/22/2019	20:49	W0DK	3A	CO		
72	14.2800	6/22/2019	20:55	W5NOR	3F	OK		
73	14.2380	6/22/2019	21:01	K7K	4A	AZ		
74	14.3030	6/22/2019	21:10	W6YX	2F	SCV		
75	14.2590	6/22/2019	21:15	VE7PCE	2A	BC		
76	14.1930	6/22/2019	21:20	AK7RM	1D	AZ		
77	14.2165	6/22/2019	21:20	W0BX	1E	CO		
78	14.2800	6/22/2019	23:35	W1DGL	1B	AZ		
79	14.3070	6/22/2019	23:35	W6SJC	2A	SCV		
80	14.2379	6/22/2019	23:43	W7SP	3A	UT		
81	14.1995	6/22/2019	23:50	W7XP	1A	UT		
82	14.3300	6/22/2019	23:58	NM5HD	2A	NM		
83	14.3380	6/23/2019	0:00	K0PRA	2A	CO		
84	14.2570	6/23/2019	0:01	N6IPD	2A	ORG		
85	14.2230	6/23/2019	0:02	W6TOI	3A	LAX		
86	14.9960	6/23/2019	0:04	K7BNR	6A	ID		
87	14.2740	6/23/2019	0:06	W5WX	5A	WTX		
88	14.2890	6/23/2019	0:08	K0RV	3A	CO		
89								
90								
91	Total		34					

PAARA Field Day

	A	B	C	D	E	F	G	H	I
1									
2	Club Call Sign	K6KP							
3									
4	15m @100w	Mode=FT8		All FT8 QSOs made on battery power					
5									
6									
7	**Frequency (MHz**	**Date**	**Time (UTC)**	**Club Call Sig**	**Club Category**	**Club Section**	**Call Sign Worked**	**Class**	**Section**
8	21075.00	6/22/2019	1924	K6KP	3F	SCV	N6H	3A	EB
9	21074.00	6/22/2019	1927	K6KP	3F	SCV	KK7ER	1D	OR
10	21075.00	6/22/2019	2009	K6KP	3F	SCV	K0PRA	2A	CO
11	21075.00	6/22/2019	2013	K6KP	3F	SCV	K0PRA	2A	CO
12	21076.00	6/22/2019	2016	K6KP	3F	SCV	KD5C	3A	WTX
13	21074.00	6/22/2019	2051	K6KP	3F	SCV	N4TUR	1D	SFL
14	21075.00	6/22/2019	2100	K6KP	3F	SCV	AA7V	1D	AZ
15	21075.00	6/22/2019	2105	K6KP	3F	SCV	K6EI	9A	SCV
16	21074.00	6/22/2019	2109	K6KP	3F	SCV	K0PRA	2A	CO
17	21074.00	6/22/2019	2114	K6KP	3F	SCV	WX7XX	2A	ID
18	21075.00	6/22/2019	2122	K6KP	3F	SCV	WT5ARC	2F	WTX
19	21075.00	6/22/2019	2132	K6KP	3F	SCV	W7YS	3A	AZ
20	21075.00	6/22/2019	2135	K6KP	3F	SCV	WT5ARC	2F	WTX
21	21075.00	6/22/2019	2138	K6KP	3F	SCV	KN5S	2D	STX
22	21075.00	6/22/2019	2140	K6KP	3F	SCV	KN5S	2D	STX
23	21075.00	6/22/2019	2143	K6KP	3F	SCV	K7K	4A	AZ
24	21075.00	6/22/2019	2152	K6KP	3F	SCV	W6CUS	2A	EB
25	21075.00	6/22/2019	2154	K6KP	3F	SCV	AK7AT	2E	ID
26									
27									
28	Total	18							
29									

PAARA Field Day

- Field Day 2020 is over, time to submit your entry

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.arrl.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 "PALO ALTO AMATURE RADIO ASSOCIATION"

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

PAARA Field Day

- Field Day 2020 is over, time to submit your entry

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

PAARA Field Day

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 (i) next to an item on the form. **Note:** You can select documentation files for upl... the documents at a later time. Each document can not be larger than 6 MB.

Call Used [_____] (i)   GOTA Station Call [_____] (i)   Location [Select ARRL/RAC section ▼]

Club or Group Name [_____] (i)

Number of Participants [_____] (i)   Number of Transmitters in simultaneous operation [_____] (i)

Entry Class (check only one):
- ○ A. Club or non-club group portable (i)
- ○ B. 1 or 2 person non-club group portable (i)   List of calls of operators: [_____]
- ○ C. Mobile (i)
- ○ D. Home station commercial power (i)
- ○ E. Home station emergency power (i)
- ○ F. EOC station (i)

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

PAARA Field Day

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.

☐ 100% emergency power ⓘ

☐ Media publicity ⓘ   Upload documentation: [Choose File] No file chosen

☐ Public location ⓘ

☐ Public information table ⓘ   Upload documentation: [Choose File] No file chosen

☐ Formal message to ARRL SM/SEC ⓘ   Upload documentation: [Choose File] No file chosen

☐ W1AW Field Day message ⓘ   Upload documentation: [Choose File] No file chosen

☐ Formal messages handled ⓘ — No. [___]   Upload documentation: [Choose File] No file chosen

☐ Satellite QSO (automatically determined)

☐ Natural power QSOs completed ⓘ   Upload documentation: [Choose File] No file chosen

☐ Site visit by invited elected official ⓘ

☐ Site visit by invited served agency official ⓘ

☐ Educational activity ⓘ

☐ Youth participation ⓘ

     Number of youth participants completing at least 1 QSO: [_____]

     Total number of youth participants: [_____]

☐ GOTA bonus (automatically determined)

☐ Submitted entry online (automatically determined)

☐ Safety officer ⓘ   Upload documentation: [Choose File] No file chosen

☐ Social media ⓘ

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

PAARA Field Day

Band/Mode QSO Breakdown: Do not list GOTA QSOs in this section. ⓘ

Upload band/mode calls list (Dupe Sheet or Cabrillo file): [Choose File] No file chosen

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						

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. ⓘ

Name [   ]   Call [   ]   E-mail Address [   ]

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

[Submit Entry] [Clear Form]

PAARA Field Day

- Some Final Comments
- All FCC Part 97 rules apply during Field Day
- Operate with in your license class band privileges
- If there is an active hurricane, please stay clear of 14.300MHz and 14.325MHz
- We can help you with submitting your Field Day entry as needed

Interested in Getting Your Amateur Radio License?

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

- **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***

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

Ham Radio Outlet
2210 Livingston S
Oakland, CA 94606 (510) 534-5757