



Options for Field Day 2020

South Pasadena Amateur Radio Club | W6SPR

June 3, 2020

Scratching the Surface

These slides are
no substitute
for reading the
rules yourself.



Scratching the Surface

These slides are no substitute for reading the rules yourself.

And there are a lot of rules.

ARRL Field Day 2020 Rules

1. Eligibility: Field Day is open to all amateurs in the area covered by the ARRL's A-C Field Organization and countries within IARU Region 2. QRP stations residing in other regions may be contacted for credit and may submit credits as check-logs.



2. Object: To work as many stations as possible on the 160, 80, 40, 20, 15 and 10-meter HF bands, as well as all bands 10 MHz and above, and to bring us to work to operate in stressful situations in our metropolitan centers. A premium is placed on developing skills to meet the challenges of emergency preparedness as well as to excite the general public with the capabilities of Amateur Radio.

3. Date and Time Period: Field Day 2020 will be held June 27-28. Field Day is ALL DAY/24 HOURS throughout the weekend, beginning at 1800 UTC Saturday and ending at 2400 UTC Sunday.

3.1. Class A and B (see below) stations that do not begin setting up until 1800 UTC on Saturday may operate the entire 24-hour Field Day period.

3.2. Stations who begin setting up before 1800 UTC Saturday may work only 24 consecutive hours, commencing when on-the-air operations begin.

3.3. No Class A or B stations may begin to work on the day 0000 UTC on the Friday (Tuesday afternoon or overnight local time) preceding the Field Day period. Cumulative set-up time shall not exceed a total of 24 hours.

4. Entry Categories: Field Day entries are classified according to the maximum number of simultaneous transmitter signals, followed by a designator indicating the nature of their individual or group participation. The maximum number of transmitters that may be claimed is one (1) "owner (O)" transmitter; maximum are double for the purpose of calculating bonus points (2000 points maximum). However, additional transmitters which may legitimately be used simultaneously will determine your entry category classification, but will not earn additional bonus points (i.e., 75 transmitters = 75 O's). The usual cashing-up issue that allows for locations in order to use multiple transmitters (i.e., an "outpost") is an attempt to enter a lower-number-of-transmitters class and prohibits Q.I. using 1 transmitter that can transmit simultaneously, with two operators, and a lock-out system and entering when used. The use of an emergency device which allows a single operator to key and transmit on more than one transmitter at a time, is prohibited. **Home stations, such as the GOTA station and satellite station do not count towards determining the number of transmitters for the class and do not qualify for transmitter bonus points.**

4.1. (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

4.1.1. Call On The Air (COTA) Station: Any Class A (or B) entry where transmitter classification is two or more transmitters may also operate one additional station without changing its base entry category, known as the GET-ON-THE-AIR (GOTA) station. **This GOTA station may operate on any Field Day band, HF or VHF, but is limited to one GOTA station transmitted signal at any time.**

4.1.1.1. This station must use a different call sign from the primary Field Day station. The GOTA station must use the same call sign for the duration of the event regardless if operators change. The GOTA station uses the same call sign as its parent.

4.1.1.2. The GOTA station may be operated by one person licensed since the previous year's Field Day, regardless of license class. It may also be operated by a generally inactive licensee. Non-licensed persons may participate under the direct supervision of an appropriate control operator. A list of operators and participation must be included on the required summary sheet to ARRLHQ.



Objective of Field Day

Work as many stations as possible on...

- 160, 80, 40, 20, 15 and 10 meters
- all bands 50 MHz and above (2m, 440!)

and learn to operate in less than optimal conditions.



When Is Field Day 2020?

Start

Saturday, June 27, 11:00 am PDT (1800 UTC)

End

Sunday, June 28, 1:59 pm PDT (2059 UTC)



Operating Classes

Classes have two parts:

- ▶ maximum NUMBER of simultaneously transmitted signals
- ▶ LETTER designator indicating nature of station



Class A

- ▶ PORTABLE
- ▶ Three or more persons (your family?)
- ▶ Not regular station location
- ▶ Independent of commercial power (or “Class A-Commercial”)



Class A-Battery

- ▶ Same as Class A but...
- ▶ All contacts made using 5 Watts or less
- ▶ No commercial power or motor-driven generator
- ▶ Batteries, solar cells, water-driven generators, etc.

Class B / Class B-Battery

- ▶ ONE OR TWO PERSON PORTABLE
- ▶ One and two person Class B entries are listed separately.

Class C

- ▶ MOBILE
- ▶ Stations in vehicles capable of operating while in motion and normally operated in this manner
- ▶ Includes maritime and aeronautical

Class D

- ▶ HOME STATIONS
- ▶ Permanent station location
- ▶ Commercial power

- ▶ 2020 RULE CHANGE!
May count contacts made with other Class D stations



Class E

- ▶ HOME STATIONS - EMERGENCY POWER
- ▶ Otherwise same as Class D
- ▶ May work all Field Day stations

Class F

- ▶ EMERGENCY OPERATION CENTERS
- ▶ Not this year!

Field Day Exchange

- ▶ QSO is an exchange of operating class and ARRL section.
- ▶ Example: “1D LAX” on CW or digital or “1 Delta LAX” on Phone
- ▶ Keep it short and sweet!



Miscellaneous Rules

- ▶ Can't call your own station
- ▶ Must use your PERSONAL call (not W6SPR)
- ▶ One call sign per transceiver except family members with different calls
- ▶ Only work stations once per band per mode
- ▶ No cross-banding except satellites
- ▶ Only one transmitter at a time per band-mode
- ▶ Only simplex/digital – NO REPEATER CONTACTS



Scoring

- ▶ Phone contacts = 1 point each
- ▶ CW contacts = 2 points each
- ▶ Digital contacts = 2 points each



Logging

- ▶ Paper and pencil log sheet:



Field Day Log

page _____ of _____

Call Used

Exchange Sent

Frequency	Mode	Date	Time (UTC)	Station Worked	Exchange Received

<http://www.arrl.org/files/file/Field-Day/2019/2019%20FD%20Log%20Sheet.pdf>



Logging via Computer

- ▶ N3FJP
Free for 30 or fewer contacts / \$8.99 full unlock
<http://n3fjp.com>
- ▶ N1MM+ (free)
<https://n1mmwp.hamdocs.com>
- ▶ QLog (free)
<https://github.com/7h0ma5/QLog/blob/master/README.md>
- ▶ RUMlog (free, macOS)
<https://dl2rum.de/rumsoft/RUMLog.html>



Submission Form



ARRL Home | Field Day Home | Field Day Resources | Field Day Locator | Rules | Entry Form | Entries Received | Results | Signup

2020 Field Day Entry

Attention! Entries for the 2020 Field Day are not being accepted until its start at 2020-08-27 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 the help icon on the form. **Notes:** You may submit documentation files for upload as you complete this form, or you can upload the documents at a later time. Each document can not be larger than 1 MB.

Call Used: QOTA Station Call: Location: Select ARRL/WAC Class:

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

<http://field-day.arrl.org/fdentry.php>



Suggested Goal

- ▶ Log at least five contacts

Getting your feet wet in contesting!

- ▶ HF and/or VHF/UHF



Next Steps

- ▶ Computer-assisted logging
- ▶ Add FM digital

Don't forget bonuses and multipliers
(but don't worry about them either)



Relevant Bonus Points

- ▶ 100% Emergency Power
- ▶ Media Publicity
- ▶ Message to Section Manager
- ▶ Satellite QSO
- ▶ Alternate Power
- ▶ Copy [W1AW Bulletin](#)
- ▶ Youth QSO (18 and under)
- ▶ [Social Media!](#)
- ▶ Submitting log online



Power Level Multipliers

- ▶ If all contacts are made using 5 Watts or less using no commercial mains or generators, multiply score by 5.
- ▶ If all contacts are made using 5 Watts or less, but with commercial mains or generators or batteries charged by either, multiply score by 2.
- ▶ If all contacts made using no more than 150 Watts, multiply score by 2.

Elmers

Don't be afraid to ask for help!

contest@southpasradio.org



Submitting to ARRL

- ▶ <http://field-day.arrl.org/fdentry.php>
- ▶ We will discuss procedure at July 1 SPARC meeting
- ▶ Due by July 28
- ▶ Affiliate with
“South Pasadena Amateur Radio Club” *not* SPARC
- ▶ Results will be published in QST Magazine
- ▶ Send proof of submission to SPARC for special recognition



More Information

- ▶ [Video on N3FJP](#)
- ▶ [QST article on club contesting](#)
- ▶ [FD 2020 presentation by Anthony Luscre, K8ZT](#)
- ▶ [QSL Maker program](#)

Let's go make some contacts!

