



Anne Arundel Radio Club



American
Radio
Relay
League

WELCOME

to

Field Day
2019

AT THE

Anne Arundel Radio Club

On the grounds of the Davidsonville Family Recreation Center

2:00 PM, June 22, 2019

till

2:00 PM, June 23, 2019



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*With tremendous appreciation to Keith Miller for allowing me to steal his
previous presentation*



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The face of amateur radio is changing, the adventure continues!

Field Day Presentation



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This is where it's all going to happen



Field Day Presentation



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Field Day Basics

- The first ARRL Field Day was in 1933, sponsored as it is now, by the ARRL
- Field Day is the worlds largest single emergency preparedness exercise.
- Field Day has over 30,000 operators participating each year.
- To determine the effectiveness of the exercise, the ARRL added a contest component to the event.
- Field Day lasts 24 hours, with additional time allowed for setup prior to the event, plus an additional 3 hours for those who set up during the event. We as usual will set up prior to the event, so we can start at 2:00 PM.
- Additional points have been added in recent years for things like satellite contacts, unusual modes, publicity, youth participation and so on.



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Field Day Rules

- This is for all hams in IARU Region 2 covered by the ARRL/RAC Field Organizations. This means all US hams and Canadian hams (excluding those who are part of Egg McMuffins) may participate freely. DX stations count for points, but 3rd party rules apply. **This means the unlicensed or under licensed hams participating in this event should NOT contact DX stations as it might be illegal.** This is typically not an issue.
- The 60m, 30m, 17m and 12m bands are not to be used for Field Day. Their use for contesting is strictly illegal. All other ham bands are OK.
- Field Day is always the last ~~rainy~~ weekend in June, beginning 1800 UTC (2pm local time) Saturday and ending at 1800 UTC (2pm local) time Sunday if the set up begins prior to 2pm Saturday, or 2100 UTC (5pm local time) if they wait till 2pm Saturday to set up. **We will therefore operate from 2pm Saturday till 2pm Sunday local time (1800 to 1800 UTC).**



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Field Day Rules II

- The AARC will be operating in the 4A (4 Alpha) Class. Our section will be MDC (Maryland DC). A Class A station is a club station with 3 or more people. So we need at least two club members at any given time.
- All AARC stations must be within a circle whose diameter does not exceed 300 meters (984 1/4 ft), including the antennas. We are well under that.
- All AARC stations will use power provided by generators or other means independent from commercial power mains. Though logging computers do not have to follow this rule, computers used for digital mode sending and receiving do, and some logging computers do double duty. **Therefore all computers in the shelters during the contest will run from non-commercially generated power. However we may choose to power a logging computer in the clubhouse or at the visitors center from a commercial power main without violating the rules.**



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Field Day Rules III

- Field Day set up may begin no earlier than 0000 UTC Friday, or 8 PM local time on Thursday June 22nd in case anyone wants to work in the dark. Cumulative set up time shall not exceed 24 hours.
- All Class A entries may operate one additional transmitter if it operates exclusively on any band or combination of bands above 50 MHz. Thus we get a free UHF/VHF station. **We will operate such a station.**
- CW and Digital contacts net 2 points each, phone contacts, 1 point each.
- If any or all of our contacts are made using 150 watts or less, we get a power multiplier of 2. **All of our contacts will fit into this category. Any transmitter capable of 150 watts output or more should be adjusted to 150 watts output, except when used for Digital modes where high duty cycles require a lower setting. Other transmitters may be set to maximum output.**



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Field Day Bonus Points

- Since we are using an 'emergency power source' for all stations, we get at 100 point bonus per station in class. **We therefore get a total of 400 bonus points for this, as our free UHF/VHF station does not count.**
- We will likewise collect 100 bonus points for media publicity provided we have a copy of the press release, or the actual media publicity received.
- We should similarly earn 100 bonus points for being set up in a public location, the Davidsonville Family Recreation Center. We need pictures.
- We should also get 100 bonus points for having a Public Information Table at the Field Day site as previously managed by Holly Bevin, N3MB. To qualify we need to keep a visitors log, copies of club handouts and a picture of the Public Information Table in operation as well. **This is especially true Saturday from 2pm till 8pm when visitors are present.**



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Field Day Bonus Points II

- We should also receive 100 bonus points for origination of a formal message to the ARRL Section Manager and/or Section Emergency Coordinator. This message has to be transmitted during Field Day, and a copy must be included in our submission on a standard ARRL radiogram.
- We will, in addition, receive 10 points for each formal message originated, relayed or received, and delivered during the Field Day period, up to a maximum of 100 points. The Section Manager and/or Section Emergency Coordinator messages listed above do not count toward this 100 points. **We should therefore consider sending 10 formal messages from the Field Day site to non-club members, or members operating at other locations.**
- We will also attempt to gain 100 bonus points for successfully completing at least one QSO via amateur radio satellite. **The no amp rule does not apply to satellite contacts so we can use FM for this. Does anyone own a small 70cm amplifier we could use?**



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Field Day Bonus Points III

- We will also attempt to gain the 100 bonus points for use of Alternate Power by using solar cells coupled to a Richard Grace's KX3 transceiver. We will have to take one of our 4A transmitters off the air during this operation to keep us from exceeding our 4 station limit.
- We will also attempt to get the 100 point W1AW Bulletin bonus for copying the W1AW (or K6KPH) bulletin during the operating schedules on Field Day weekend. An accurate copy of the message is required to be included with the Field Day submission to qualify. We may want to copy it using PSK31. We have failed to get this two years running, and it should be simple to get. You should also know you can copy this at home rather than at the Field Day site if you wish. We need volunteers.
- The Educational Activity Bonus of 100 points is also a possibility, I will check the FAQ in the Field Day packet for rules on this bonus.



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Field Day Bonus Points IV

- Another source of 100 bonus points would be for a visit by and elected government official as a result of an invitation by the AARC. We have sent out invites and two have already replied positively.
- Site Visitation by a representative of an agency can result in an additional 100 point bonus. The agency in question must be served by ARES in our local community, and may include the Red Cross, Salvation Army, local Emergency Management or be a law enforcement official. Again we have already had a positive response from law enforcement.
- If we submit our entry for Field Day via www.b4rh.net/cabforms we gain an additional 50 bonus points for web submission. This is also planned.
- A Field Day Youth Participation bonus of 20 points is awarded for each contact made by a participant 18 years of age or younger. This applies whether the youth is licensed or not, so bring your kids and grandkids.



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Field Day Bonus Points V

- Ed Santilli will be getting us a 100 point bonus for promoting Field Day activation to the general public via an active, recognized and utilized social media platform which may include Facebook and/or Twitter. **Club websites, like www.w3vpr.org do not qualify for this bonus.**
- A Safety Officer Bonus of 100 points will be obtained assuming John Bowes (KB3YLY) our Safety Officer provides a statement verifying the completion of the Safety Check List, with pictures, for inclusion with our submission. John will be provided a copy of last years submission to use as a reference.



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GOTA

- The AARC will **not** be operating a separate GOTA or “Get On The Air” station. A GOTA station does not increase our declared transmitter total, so you might ask “Why not have one?”
- A GOTA station may operate on any band available to a non-GOTA station. They get their own call sign but share the same exchange as the primary station or stations.
- GOTA stations may only be operated by an inactive ham, a ham who became licensed following the previous year’s Field Day, or a non-ham. Control operators would be required for many. **A lack of non, new or inactive hams could limit us to as few as 5 operators for such a station.**
- We have only so many antennas and so many usable bands. Adding a GOTA station would greatly increase our self-interference, but due to the rules, would not likely increase our point totals.



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GOTA

- We are running 4A with 100 watt stations, and we are allowed to use only one station per mode, per band, on our 4 regular Class A stations.
- Due to our sunspot cycle position, we will likely have only 2 reliable bands to operate on during daylight hours. 40m and 20m. **And the daylight hours of Saturday are when we typically get the most non-ham visitors, and the most new ham operators (aka the most GOTA operators).**
- **If you consider 5 stations (4 plus 1-GOTA), you have 2 bands and 3 modes available to each. So to be sure the GOTA station would not cause self-interference we would most likely have to shut one of our other stations down when GOTA was in use.** In future years when sunspots are more prevalent, a GOTA station might be more advisable, as more bands become available.

The simple answer is put GOTA category ops on our 4A stations instead !



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NEWBEES

The idea is to put a higher priority on our new hams, inactive hams, and non-licensed individuals, rather than relegate them to a station that could actually give them a lower chance of making contacts!



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NEWBEES

To make this happen we need cooperation from all those who are skilled HF operators. We need to:

- Identify those who are not experienced HF operators
- Invite them to sit down and operate
- Be polite, and encouraging, help them succeed, recruit
- Act as logger, sidekick, whatever it takes to get them up to speed

NOTE: One of our prior years most effective point scoring operators was a youth from Texas who was here visiting his grandfather.



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[Callsign = W3VPR]

Whiskey Three Vistor Papa Romeo

[Report or Exchange = 4A MDC]

Four Alpha, Maryland D.C.

Four Alpha, Mike Delta Charlie

[Class = 4A]

Four Alpha

[Section = MDC]

Maryland D.C.

Mike Delta Charlie

**[The other ham] CQ Field Day CQ
Field Day this is <his callsign>**

**[You] Whiskey Three Victor Papa
Romeo**

**[The other ham] W3VPR (or Whiskey
Three Victor Papa Romo, this is <his
callsign>**

**[You] <his callsign> Please copy
Five Alpha, Mike Delta Charlie**

**[The other ham] <his report, which
you log with his call sign. He will
likely then thank you and call QRZ...
You have made a contact. Move on
to the next one>**



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ORGANIZATION

- Chairman – David Rawley, N3AT
- Networking & Logging – Tim Nagel, KB3YQK
- Shelters & Tables – ** Volunteer requested **
- Antenna Masts & Rocket Launchers – Tim Nagel, KB3YQK
- Delta Loops and Tuners – Keith Miller, AE3D
- Food – Mark Bova, W2PAW (Eric Berman, KC3GDV Asst.)
- Generators, UHF/VHF – Jamison Phipps, W3KNH
- Digital Operations – Chuck Tanner, K3ACT
- Solar Contacts – Richard Grace, KB3ZYO
- Event Publicity & Invited Guests – Ed Santilli, KB3YMU
- Public Information Table – ** Volunteer requested **
- Rigs – Daniel Kim, K3KTW, Oliver Minall, NE3Q
- Safety – John Bowes, KB3YLY
- Satellite Contacts – Garmy McBrien ?
- Feedlines and Supports - ** Volunteer requested **



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How
much
room
do we
have?

1000ft





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SCHEDULE

- The next Field Day Meeting is: 5/9/2019, 6:30 PM



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It is **50** days till Field Day

Best regards

June 20th we will discuss N1MM logging software,
logging of Control Operators and non-licensed operators
plus general network operation during Field Day 2019