

Winter Field Day 2021

January 30 - 31, 2021

Newport County Radio Club (W1SYE)

Willy Maclean W1LY

John Vecoli KC1KOO

Purpose:

- To foster Ham camaraderie, field operation, emergency operating preparedness, and just plain on the air, outdoor fun in the midst of winter for American, Canadian, and DX Hams. Don't let those winter doldrums keep you locked up in the house... get out and play some radio!!

Setup

- Not to exceed 12 hours total (Friday and Saturday)
 - Start no earlier than Friday Jan. 29, 1900 UTC (2pm EST)
 - Sunset 4:57 pm on Friday (about 3 hours)
 - Sunrise 6:59 am on Saturday (about 7 hours before start)

Winter Field Day

- 24 hours of Communications
 - Start: Saturday, Jan. 30 at 2 pm EST (2021-01-30 0000)
 - End: Sunday, Jan. 31 at 2 pm EST (2021-01-31 0000)
- Bands
 - All Amateur bands, HF, VHF, & UHF except 12, 17, 30 and 60 M
- Modes
 - Phone
 - CW
 - DI - Digital (except FT8 & FT4)
 - Satellite (ONE single contact - this allows contacts without saturating the bird)

Categories - Indoor (I) 1 of 3

- Operation from inside a remote, insulated, heated (or cooled, depending on your local weather), and weather-protected structure where an Amateur station is normally not available. (Park buildings/cabins, community center, senior center, cottage, etc).
-
- An EOC or Club shack may be utilized, providing all equipment used is set up by the contestants.

Categories - Outdoor (O) 2 of 3

- Operation from a location partly or fully exposed to the elements and at **least 30 feet away from your normal station location** and not using any part of a previously erected antenna system or ham station.
- A campground, park pavilion, canopy, picnic table, tent, pop-up camper, or a backyard shed/tent/deck, etc. may be used.
-
- Operation from a noninsulated car/truck/van/boat (mobile or not) is considered “outdoor”.

Categories - Home (H) 3 of 3

- Operation from inside a home or inside another structure attached to a home that could or would be the usual location of an Amateur station (garage, sunroom, etc.), generally using a previously erected antenna system.
- A “Home” entrant may still be eligible to claim the “alternate power” bonus if not using commercial power.
- Use of any pre-existing (on site) or permanently installed antenna system or station components renders your station a “Home” station.

Entry Class (#)

- How many radio station(s) are co-located?
 - Multi-mode rigs can only operate on one band/mode at a time, they are a single radio station (Entry Class of 1)
 - Having multiple stations that can transmit at the same time increase the “Entry Class”
- Example:
 - John operates his rig at his home - His entry class is “1”
 - Mike joins John and they use the same rig, entry class remains “1”
 - Mike brings his antenna and rig to John’s house, now two stations are co-located and can operate at the same time, the class is now “2”

Exchange

- Category and Class puts you into groups
 - Home with a single transmitter (1H)
 - Home with capability to transmit on two transmitters at the same time (2H)
 - John will have a single transmitter in his backyard (1O)
 - If we all gathered at the GLENN with 5 transmitters (5O)
- ARRL/RAC section
 - This is a method to sector the World for Contest
 - Rhode Island is “RI”
 - Larger states are broken up further, Massachusetts is broken up
 - Eastern Mass “EMA”
 - Western Mass “WMA”
 - Full list can be found at the ARRL web page: <http://www.arrl.org/section-abbreviations>
- DX contact that does not have section listed in ARRL/RAC list: Use two letters to represent the country as the Category/Class and “DX” for section
Example: England (UK DX)

First: Identify your exchange!

You will need to verify each of your QSOs with the other stations exchange:
(Call Sign) (Category/Class) (ARRL/RAC sector)

My exchange will be: **KC1K00 10 RI**

My Call Sign
Single station
Outdoor
Rhode Island

Bonus Points

- No commercial power (+1500 pts)*
 - Generator, Battery, and/or Solar (Could be RV or other mobile)
 - If your computer is used for digi, it too must be powered by alt pwr
 - Heater, coffee pot, or other convenience can be plugged into house pwr
- Operating “Remote,” not HOME (+1500 pts)*
 - Greater than 30 ft. from your Home
 - Car/Truck/RV
- Outdoors (+1500 pts)*
- Single Satellite QSO (+1500 pts)

(All stations in your entry must qualify as well)

QSO Points

- Phone QSO: 1 pt/each
- CW or Digital QSO: 2 pts/each
- Busted exchanges will be penalized by 1 additional pt for each missed exchange or call sign.
- Duplicate contacts (same call, band, and mode) will not be counted, but will not be penalized.

Power Output Multipliers

- Greater than 100W = 1x
- 100W or less = 2x
- QRP = 4x
 - Phone/Digi = 10 W maximum peak power
 - CW = 5 W maximum carrier

Mode and Band Multipliers

	80M	40M	20M	15M	10M	6M	2M	70cm
Phone	X	X	X	X			X	
CW								
Digital	X	X	X		X			

Count up the modes and bands you had QSOs and this becomes your *MULTIPLE*!

In this case adding the “X” you get a *Multiplier* of 9!

Score Tabulation

- QSO points X Power Output Multiplier X Band/Mode Multiplier + Bonus Points

$$70 \times 2 \times 9 = 1,260 + 4,500 = 5,760$$

Phone QSO = 50 (x1) = 50

CW/Digi QSO = 10 (x2) = 20

QSO Points: 70

Power 100W or less = 2

Band/Mode = 9

Bonus Points:

1. No Comm Power (+1500)
2. Outdoors (+1500)
3. Remote (+1500)

Total Bonus Points: 4500

Example QSO (Goal - complete log data!)

- Call: CQ CQ Winter Field Day KC1KOO CQ
- Return: KC1KOO this is KB8X, we are Two Hotel, Oscar Hotel
- Finish: KB8X this is KC1KOO, thank you, we are One Oscar, Romeo India

Note: Giving the ARRL/Section Abbreviation might help your QSO (less chance of mistakes)
You might need to look up the section if the contact doesn't know it or (DX)

Log - Paper Logs are OK, Prefer software

Freq/mode/date/time/myCall/myExchange/theirCall/theirExchange

QSO: 3885 PH 2021-01-30 1452 KC1KOO 10 RI KB8X 2H OH
(30th 1400-31st 1400) (Fixed) (Contact)

Note: No decimal in frequency and not exact as tuned 3.885₅₀

Mode: PH/CW/DI

Date: 2021-01-30

Time: UTC (Zulu)

Digital Example:

QSO: 14070 DI 2021-01-31 0910 KC1KOO 10 RI M1MSD UK DX

Club Tuff Books - N3FJP Logging software

- WFD Log Only \$8.99
- Life Time Access to all logging software \$49.99
- Set up your data
- If your rig can tie into your compute, Freq and Mode self fill
- QSO: Call Sign / Exchange / Section
- (Sections are listed on log page!)

● All

[illegible]

Score Statistics

Total CW Contacts	0
Total Phone Contacts	3
Total DIG Contacts	0
Total Multipliers	1
Total Score	3
QSOs / Hr (Last 20 min)	0
QSOs / Hr (Last 60 min)	0

Ready to begin!

Please select your band and mode from the menu options!

Spot Last

Possible Duplicates

☒ Any Portion

Newfoundland-Labrador Total = 0

AB	NT
BC	ONE
GTA	ONN
MAR	ONS
MB	PE
NL	QC
	SK

Bearing:

Miles:

5:57:01 PM
22:57:01 UTC

Reporting - Cabrillo format

- Email to wfda@winterfieldday.com
- Subject line: WFD 2021 Log (call sign - you used)
- Log must be attached Cabrillo file
- Before 0000 UTC March 1 (1900 February 28)
- Cabrillo format:
 - Frequency: kHz, band, or generic frequency for the band. (Freq accuracy not used for WFD)
 - Mode: PH/CW/DI
 - Must have at least ONE space between data, and carriage return to end line
- Add photos as enclosures or webpage
- Can be snail mailed (see the website)

Our **CLUB** lines all
have to match to
have the Club get
total points.

START-OF-LOG: 3.0
CREATED-BY: N3FJP's Winter Field Day Contest Log 2.7
CONTEST: WFD
CALLSIGN: KC1KOO
LOCATION: Bristol, RI
ARRL-SECTION: RI
CATEGORY: 10
CATEGORY-POWER: LOW (QRP, LOW, HIGH)
CATEGORY-STATION: FIXED
CLUB: NEWPORT COUNTY RADIO CLUB
SOAPBOX: 1,500 points for not using commercial power.
SOAPBOX: 1,500 points for setting up outdoors.
SOAPBOX: 1,500 points for setting up away from home.
SOAPBOX: BONUS 4500
CLAIMED-SCORE: 5760
OPERATORS: KC1KOO
NAME: JOHN VECOLI
ADDRESS: 2 SANDY LN
ADDRESS-CITY: BRISTOL
ADDRESS-STATE-PROVINCE: RI
ADDRESS-POSTALCODE: 02809
ADDRESS-COUNTRY: USA
EMAIL: JOHN.VECOLI@GMAIL.COM
SOAPBOX: TEST SOAP BOX
QSO: 14320 PH 2021-01-30 1844 KC1KOO 10 RI T1EST 2H RI
QSO: 14320 PH 2021-01-30 1845 KC1KOO 10 RI T2EST 10 NC
QSO: 14320 PH 2021-01-30 1846 KC1KOO 10 RI T3EST 20 DX
.
.
.
QSO: 3900 PH 2021-01-31 1359 KC1KOO 10 RI T6EST 1H DX
END-OF-LOG:

Questions?

Back in the day



KC1KOO 10 RI

First WFD Plan

The thoughts and process of
John Vecoli

My old COMM Shack (P-3C)



JOTA at Camp Yawgoog 2019



My current Shack



www.winterfieldday.com



KC1KOO 10 RI

Class 1 : Single station operating this location

Category O: Outdoor
(>30' from home = REMOTE)

ARRL Sect: RI

CLUB: Newport County Radio Club

Remote (+1500 pts)

Outdoor Setup (+1500 pts) :

- 1) Setup OCDP with 30' pole running between two tree
- 2) Put UHF/VHF mobile antenna at the top of pole
- 3) Set up a tent to operate
- 4) Yeasu FT-991A (HF, UHF, and VHF all modes)
- 5) Primary ops: Phone

No Comm Power (+1500 pts):

- 1) Setup tent with battery power supply
- 2) Generator to charge battery (if required)
- 3) Battery to DC/AC inverter to power computer



EQUIPMENT (in RED means I don't have it)
(Blue indicates I have purchased/received it)

Charging/Day Power

- 1) AC gas generator (120VAC)
- 2) DC power supply (Aston VS-35M)
- 3) 40 Ah Battery (Bioenno LiFePO4 BLF-1240AS)
- 4) Cable Battery to PWRgate

Power Management/Distribution

- 1) Battery Controller - Epic PWRgate
- 2) RIGrunner 4008U
- 3) Cable PWRgate to RIGrunner
- 4) Inverter
- 5) Cable RIGrunner to Inverter

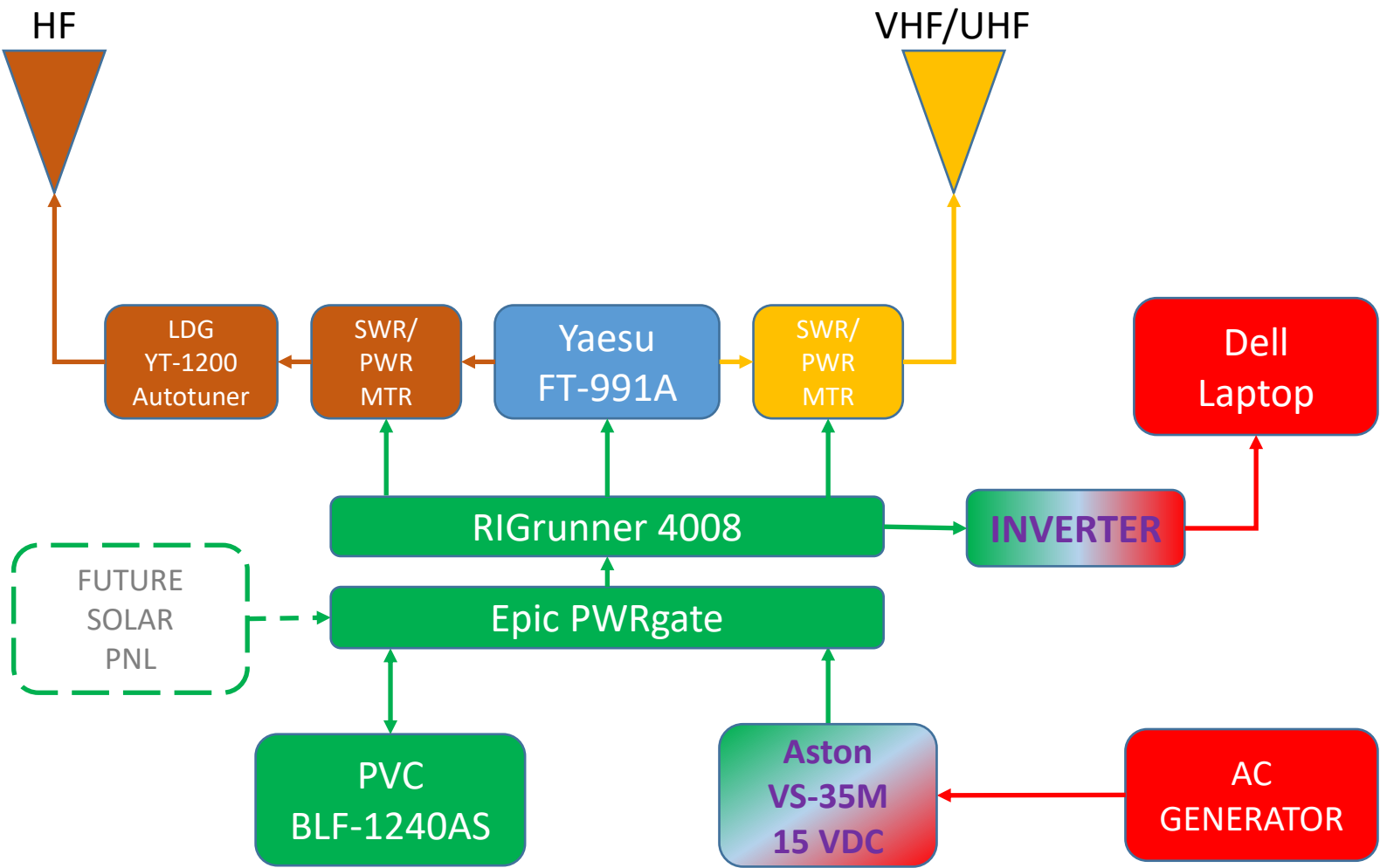
Transceiver

- 1) Yaesu FT-991A
- 2) DAIWA CN-901 SWR/PWR Meters
 - 1) HF: HP-Type (14-200 MHz)
 - 2) VHF/UHF: V-Type (140-525 MHz)
- 3) Auto tuner (LDG YT-1200)

Antenna

- 1) HF: Off Center Dipole (OCDP 80M-6M)
- 2) VHF/UHF: Diamond NR770HB (2M/70cm)

Station Diagram



Schedule of Events

	FRIDAY January 29												SATURDAY January 30																
	14	15	16	17	18	19	20	21	22	23	24	1	2	3	4	5	6	7	8	9	10	11	12	13					
Day/Night					Sunset												Sunrise												
Setup (<12 hrs)	1	2	3	4	5	6													7	8	9	10	11	12					
	SATURDAY January 30												Sunday January 31																
	14	15	16	17	18	19	20	21	22	23	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Day/Night					Sunset												Sunrise										Sunset		
Setup (<12 hrs)																													
Winter Field Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
Breakdown																									1	2	3	4	

Thursday Preps:

- Disconnect rig and aux
- Box to prep transport
- Drop OCDP
- Prep mast head w/ uhf/vhf ant mount and hf ant pulley w/cable

Friday Setup:

- stand mast with uhf/vhf ant have pulley mounted to pole with line to ground for HF ant
- set up tent/run cables/table
- *coax from both ant w/labels
- *Extension cords to generator

Saturday Setup:

- generator
- shack
- *Power Supply
- *DC pwr system
- *FT-991A & aux
- *Connect all cables
- *test gear
- run generator (8am-9pm)

Sunday Breakdown:

- secure generator (2pm)
- breakdown shack
- *Power Supply
- *DC pwr system
- *FT-991A & aux
- *Connect all cables
- *test gear

Monday Breakdown:

- ant/mast/cables
- tent/table
- policy area

Notes (Hopefully this will help with JOTA):

- **Newport County Radio Club (NCRC)** normally meets at the GLENN, Portsmouth, RI, due to COVID the club will not meet. Instead members will operate as individuals and the points will be added as CLUB score.
- OCDP is my HF antenna, but was put on pulleys to allow field day operations. Will take it down from house and use it with a fiberglass 30' pole in backyard between two trees. This was my objective for setup at the GLENN.
- **Noncommercial power:** My intentions are to work with an AC Generator during day time (charging battery) and securing it at night (for neighbors to sleep). In the future, I hope to use solar panel(s) for day time power source.
- **Purchased N3FJP software package (\$49)** for WFD logging software. This is the software NCRC uses and was recommended. I can use all N3FJP products with this one time fee. (WFD only \$8.99)