

## DCARC 2023 Winter Field Day Event

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**First, the thing everyone wants to know:**

Score Statistics	
Total CW Contacts	148
Total Phone Contacts	602
Total DIG Contacts	15
Total Multipliers	23
Total Score	21,344

**Bonus points:**

Alternative power	500
Away from home	500
Outdoors	500
Satellite	500
<b>Total Points</b>	<b>2,000</b>

**Our score with bonus: 23,344 (~214% over last year)**

**Receipt of log submittal is on the final page of this document.**

**Attendees:**

Over the two days we had a total of 25 people attend, 17 returned for Sunday.

**Organization and implementation:**

Fred WB4BAG: Host, source of the challenge to beat last year.

Rich WB4EHG: WFD manager, laptops, software, radio config, begging people to operate, general PITA

Jeff WB3ISP: Operator, laptops, software, radio config

Tom N4MEO: Safety officer, Sergeant at Arms, Trustee

Rich W4RQ: Raised/lowered 80m/40m antenna, tested all antennas

Tony W6TNY: Grill master and brownie maker

Diane KC4BAR: Greeter and sign-in

### **Food:**

Diane KC4BAR sandwiches, chips, cookies, sodas

Toby (Fred's XYL) 6 dozen fresh eggs and deviled eggs

Phil K4OMD and XYL for bringing burgers, dogs, buns, salads, condiments.

Jeff WB3ISP sodas

Ed KO4UZI coffee and cookies

Rich W4RQ Sunday breakfast bacon

### **Attendees:**

We had 25 people attend over 2 days with 13 of them attending both days.

We gained a new member on Sunday, KQ4ETQ Tahir, a new ham heard about us and came to see our operation. We quickly signed him up before he could get away.

### **Satellite Station**

Bruce W4BAE

Ed KO4UZI

Tony KD4UWU

They set up two satellite stations and made two contacts securing us 500 bonus points.

The two contacts were through the ISS with [W3AVP](#) (in PA) and [W4LX](#) (in Ft. Myers Fl. A ham club, they may be another WFD site)

### **HF/VHF Station operators**

Total Contacts by Operator:

Operator	Total	%
N4QV	412	54
WB3ISP	185	24
KO4SYU	74	10
KM4GCL	33	4
K4OMD	14	2
K2AU	13	2
WB2RUU	13	2
KQ4AYH	10	1
W4RQ	10	1
K4ND	1	0

Randy N4QV knocked out the most contacts!

Jeff WB3ISP was in 2<sup>nd</sup> place

Special mention: Dan KO4SYU made his first HF phone contacts and racked up 74 contacts which was 10% of the total!

### Contacts:

Analyzing our contacts:

47 states, missing only Alaska, North Dakota and Utah

9 of the 13 Canadian Provinces

5 countries plus the US

Mexico which is now a section

A little DX, although this is not a DX contest

I have more to say about this in the next section

There were several other contests this weekend. That makes it a bit harder for us. A large number of stations means they are on top of each other so you must spend some time adjusting your filters to hear just the station you want while the station you want has the same problem and since each contest uses different exchanges it takes some time to determine if the other station is working our contest.

### How we did on each band and mode:

Total Contacts by Band and Mode:

Band	CW	Phone	Dig	Total	%
80	4	3	0	7	1
40	39	3	5	47	6
20	29	267	6	302	39
15	71	240	1	312	41
10	2	85	0	87	11
6	1	1	1	3	0
2	1	1	1	3	0
1.25	0	1	0	1	0
70	1	1	1	3	0
Total	148	602	15	765	100

VHF/UHF non-FM contacts are difficult because these are short distance modes, repeaters cannot be used and few operators have SSB, digital and CW ability on VHF/UHF. Increasing VHF/UHF contacts (so we get more multipliers) requires more people with radios that can do those modes on VHF/UHF and interacting with other local clubs to encourage them to get on these modes. Contacts are possible with the [FLWSS](#) group further north of us but they need to know to point their beams south instead of north. An 11 element 2m beam on the tower would help a lot. Only our members who join our 2m SSB rag chew on Thursday nights have the necessary equipment. We welcome everyone who wants to operate with these modes to join us. Radios that operate these modes are for sale locally.

Looking at 80m & 40m which are nighttime bands, refer to the graph of hours worked on the last page of this doc (remember the time shown is UTC so subtract 5 hours to get our time). We made very few contacts during these prime hours for 80m & 40m. Operating these bands over night will greatly increase our score.

Since each CW contact is worth twice the points of a phone contact, more CW contacts greatly increase our score.

Digital modes for this contest did not include any of the WSJT modes. There is usually not many RTTY or PSK stations on the air. Just one on 80m & one on 10m would have given us another 2 multipliers. But you can't work them if they are not on the air. Or maybe they are not on the air **because we're not calling CQ for them to find**? The downside is that searching for just

those two contacts would take time away from making actual contacts. A solution is to have a station dedicated to listen for multipliers and then take one transmitting station off the air to work just that station for the multiplier, obviously that station would have to be on a band we were not transmitting on since the transmitter would at least desensitize the receiver and at worst destroy it.

Our daytime/early evening operators, especially Randy N4QV and Jeff WB3ISP did a great job knocking out contacts!

The number of the 10m contacts are low even though 10m is, right now, a great daytime band and a band where Tech's can operate phone. The reason the number of contacts are low is that we concentrated on 20m & 15m. Perhaps we should start running a 3<sup>rd</sup> station for 10m while keeping watch for 6m openings and changing to 6m when the band opens.

**Sections worked:**

One of this contest's exchange values is the sender's section. It uses the ARRL's definition of US and Canadian sections. Some states/provinces are so populated that they have multiple sections. IE CA and Ontario. Note that this year Mexico (MX) is recognized as a section (maybe someday they will break Mexico into its states for this contest).

DX		3		5		7		0	
DX	MX	DE	MDC	AR	NTX	AK	NV	CO	MO
<b>1</b>		EPA	WPA	LA	OK	AZ	OR	IA	ND
CT	RI	<b>4</b>		MS	STX	EWA	UT	KS	NE
EMA	VT	AL	SC	NM	WTX	ID	WWA	MN	SD
ME	WMA	GA	SFL	<b>6</b>		MT	WY	<b>Canada</b>	
NH		KY	TN	EB	SCV	<b>8</b>		AB	ONE
<b>2</b>		NC	VA	LAX	SDG	MI	WV	BC	ONN
ENY	NNY	NFL	VI	ORG	SF	OH		GH	ONS
NLI	SNJ	PR	WCF	PAC	SJV	<b>9</b>		MB	PE
NNJ	WNY			SB	SV	IL	WI	NB	QC
						IN		NL	SK
								NS	TER

Blue are sections we worked. We did really good working 76 out of 87, 87%.

**Points:**

Each mode counts for some number of points

Phone = 1 point

CW = 2 points

Digital = 2 points.

We add them all up to get our total points: 928 then multiply that by the "multiplier" of 23 to get 21,344!

Each band-mode (IE. 40m CW = a band-mode; 40m SSB = a band-mode) we worked 23 band modes.

We aggressively worked to maximize our multipliers. Just 1 digital mode contact on each of 80m & 10m would have increased our score to 23,250, an increase of 1,906.

### **What went right:**

We maximized our multipliers ("The multiplier maximation effect")

Randy N4QV pounded out 412 mixed mode contacts

We beat Fred's challenge to double last year's score by ~241%

Two satellite contacts

The weather was great

Lots of people attended

Plenty of good food

It was a great event

### **What went wrong:**

Some contacts where sent the wrong exchange due to:

Papers from old contests on the operating desk

The exchange got changed on the logger at some point

We poorly communicated to the night crew that a ready to go laptop n radio were there for use over night

Some operators were not familiar with the IC-7300

The guys operating at night cannot see the radio's controls. Possible solutions are an overhead low power spot light over each station or a [headband spotlight](#) or a [finger light](#) (these used to be advertised for hams on QRZ.com some years ago). All available on Amazon per the embedded links.

### **Door prize winners:**

Cameron Ramos KO4VHB won a 2m/70cm HT donated by Don W4PPX

Gary Metz KQ4MYH won a hot air soldering tool

Tony W6TNY won a power pole distribution box

**A huge THANK YOU to everyone who participated. This was a great team effort.**

### **Suggestions for next year (or summer Field Day)**

Dedicate a station for multiplier spotting

Does that station have to be at the same site as the operating stations? If not someone could do that from home and alert the operators

Add a 3<sup>rd</sup> station for 10m & 6m use

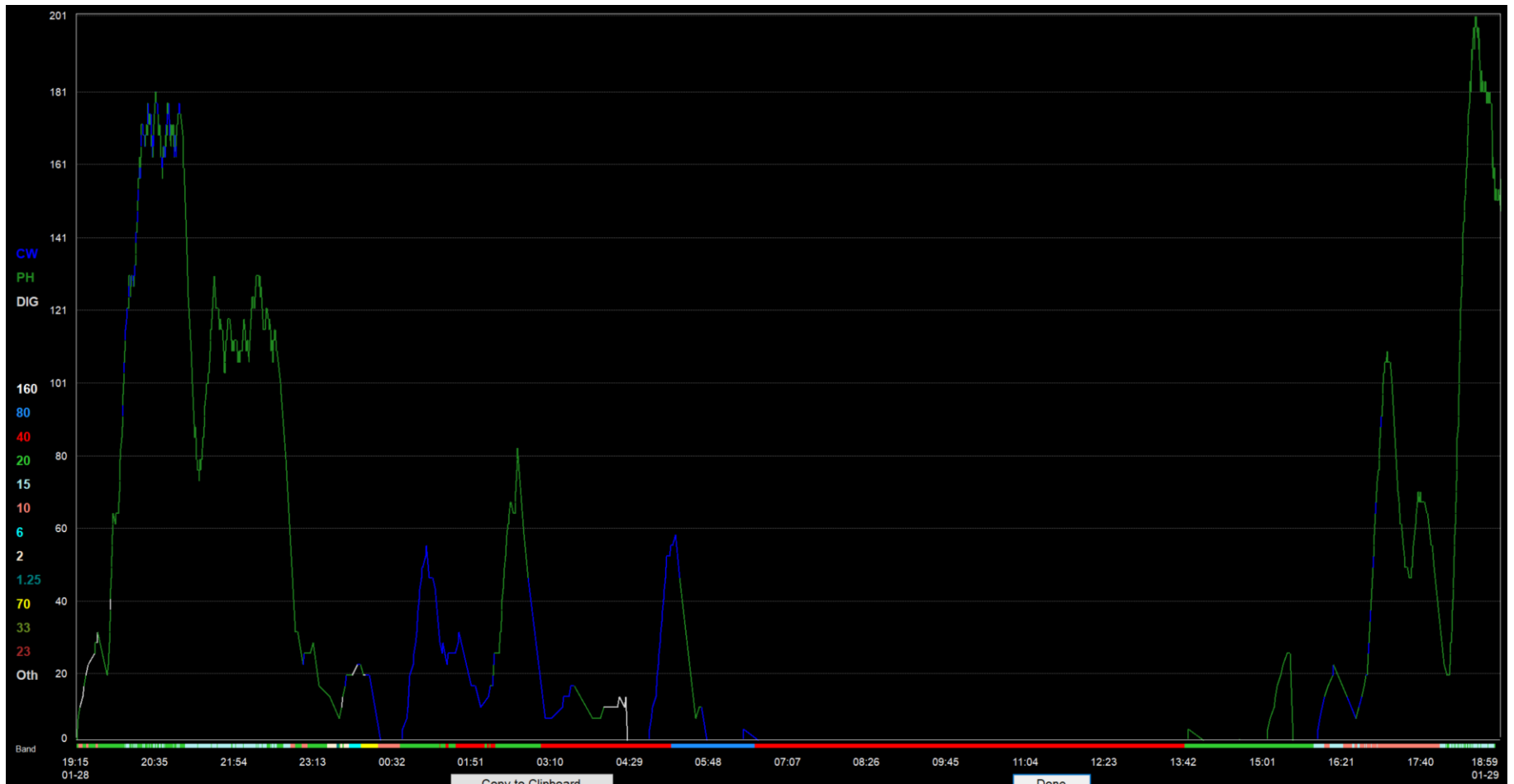
There is no limit on how many receivers we can have so we can have a receiver on 6m all the time to alert when the band opens.

I have noted from my home station that 10m contacts are using Sporadic-E and Multi Hop S<sub>p</sub> meaning the band can stay open after dark.

When 6m starts opening again the club has a 6m beam on-loan from WB4EHG that we can put on the tower.

A week before FD, call a Zoom meeting for all operators and review operating the IC-7300 and the IC-7100

Have printed placards at each station with the exchange (as we had in the past)



Contacts made with respect to time

80m and 40m are night time bands, we did not make full use of those bands. But, operators have to sleep some time



# WINTER FIELD DAY

[WFD Home](#)

[Log Submission](#)

[Logs Received](#)

## Log Submission - 2023

**Congratulations!** Thank you for entering the January 2023 Winter Field Day and **successfully** submitting your log in Cabrillo format. Your confirmation number is 24y1p3lq.wfd. Please review the information listed below and, if necessary, resubmit your log to make any corrections.

Analysis of your uploaded log:

Contest:	<b>WFD</b>	
Call Sign:	<b>NA4DC</b>	
Category:	<b>20</b>	
Location:	<b>SFL</b>	Created from Section question
Power:	<b>LOW</b>	Created from Power question
Band:	<b>ALL</b>	
POTA:	<b>No</b>	Created from POTA activation question
Non-comm Power:	<b>Yes</b>	Created from Non-commercial Power question
Op Outdoors:	<b>Yes</b>	Created from Operated Outdoors question
Not at Home:	<b>Yes</b>	Created from Away from Home question
Temp Antennas:	<b>No</b>	Created from Setup Antennas question
Sat QSO:	<b>Yes</b>	Created from Satellite QSO question
Sat QSO with:	<b>W3AVP</b>	Created from Satellite QSO call sign question
Mobile Operation:	<b>No</b>	Created from Operated Mobile question
Bonus Points:	500 pts	Non-commercial power
	500 pts	Outside operation
	500 pts	Away from home
	500 pts	Satellite QSO
E-mail:	<b>wb4ehg@rjoerger.com</b>	Created from e-mail address provided on form
QSOs in Log:	<b>765</b>	

Log deadline: 2023-02-28 23:59:59 UTC

Received at: 2023-02-01 18:51:45 UTC

73, Contest Manager (wfda@winterfieldday.com)