

WRTC2014 Update

**CCF Winter Meeting
February 2014**

Randy Thompson, K5ZD

WRTC2014 Organizers



ADVISORY COUNCIL
W1UF, K3LR, NR5M, K9CT, OH8NC

Our Goals for 2014



- Hold a fair competition
- Ensure that all participants have an excellent experience
- Promote ham radio to the public in the region and beyond

Team Selection: 59 Teams



- 55 Qualifying Events between CQWW 2010 and ARRL DX SSB 2013
- 51 Team Leaders were selected on scores
 - May select Team Member from anywhere
- 8 Special Teams
 - WRTC2010 Champions (RW1AC, RA1AIP)
 - 1 Youth Team (under age 25)
 - 2 Wild-card teams (WRTC2014 Committee selection)
 - 4 Sponsored Teams (2 already claimed)

EU3 Teams

Tonno Vahk, ES5TV



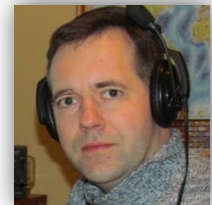
Toivo Hallikivi, ES2RR



“Gedas” Lucinskas, LY9A



“Mindis” Jukna, LY4L



Toni Lindén, OH2UA



Kim Östman, OH6KZP



Kaspars Uztics, YL1ZF



Oleg Ostrzigallo, YL3DW







Selected Teams (55)

Area	Team Leader	Team Mate
EU1	Filipe Lopes, CT1ILT	José Nunes, CT1BOH
EU1	Sebastien Le Gall , F8DBF	Olivier "Oli" Seizelet, F1AKK
EU1	"Kazu" Watanabe, M0CFW	Gerry Lynch, G10RTN
EU1	Olof Lundberg, G0CKV	Mark Haynes, M0DXR
EU1	Stephane Van Langhenhoven, F4DXW	Sebastien Bajulaz, F8CMF
EU2	Philippe Luty, LX2A	Andy Ruse, YO3JR
EU2	Luca Aliprandi, IK2NCJ	Stefano Brioschi , IK2QEI
EU2	Manfred Wolf, DJ5MW	Stefan von Baltz, DL1IAO
EU2	Carlo De Mari, IK1HJS	Fabio Schettino, I4UFH
EU2	Sandy Raeker, DL1QQ	Irina Stieber, DL8DYL
EU3	Tonno Vahk, ES5TV	Toivo Hallikivi, ES2RR
EU3	"Gedas" Lucinskas, LY9A	"Mindis" Jukna, LY4L
EU3	Toni Lindén, OH2UA	Kim Östman, OH6KZP
EU3	Kaspars Uztics, YL1ZF	Oleg Ostrzigallo, YL3DW
EU4	Ivan Dobrocky, OE3DIA	Emir "Braco" Memic, E77DX
EU4	László "Laci" Végh , OM2VL	Tibor "Tibi" Ferenc, OM3RM
EU4	Rastislav Hrnko, OM3BH	Jozef Lang, OM3GI
EU4	Wolfgang "Wolf" Klier, OE2VEL	Oliver Huber, OE5OHO
EU4	Tine Brajnik, S50A	Robert Bajuk, S57AW
EU5	Hrle Horvat, 9A6XX	Davor "Dave" Kucelin, 9A1UN
EU5	Kresimir "Chris" Kovarik, 9A5K	Richard Riley, 9A1TT
EU5	Ranko Boca, 4O3A	Ivo Pezer, 9A3A
EU5	Roman Tkachenko, UR0MC	Yuri Onipko, VE3DZ
EU5	Andy Kotovsky, UU4JMG	"Andy" Kazantsev , UU0JM
EU6	Sergey Dyachenko, RX3APM	Andrey Karpov, RV1AW
EU6	Andrey Melanin, UA3DPX	Igor Korolkov, UA4FER
EU6	Iurii Khmelenko, RL3FT	Dmitri Kryukov, RA3CO

Area	Team Leader	Team Mate
AF	"Ash" Chaabane, 3V/KF5EYY	Dr. Hrane Milosevic, YT1AD
AS1	Vadim Ovsyannikov, R9DX	Oleg Usov, UA9CDV
AS2	Anatoly Polevik, RC9O	Mikhail "Mike" Klokov, UA9PM
AS3	Marios Nicolaou, 5B4WN	Stavros Tsiakkouris, 5B4AFM
AS4	Jie Zheng, BA5CW	Wenjun "Vange" Yang, BA7IO
AS5	"Don" Kondou, JH5GHM	Hajime Hazuki, JA1OJE
NA1	"Krassy" Petkov, K1LZ	Mladen Bogdanov , YT6W
NA2	Ray Higgins, W2RE	Lee Imber, WW2DX
NA3	Ken Low, KE3X	Scott Redd, K0DQ
NA4E	Richard DiDonna, NN3W	"Kam" Sirageldin, N3KS
NA4W	Julio Henriquez, AD4Z	Dan Thompson, W4UH
NA5	Kevin Stockton, N5DX	Steve London, N2IC
NA6	Daniel Craig, N6MJ	Chris Hurlbut, KL9A
NA6	John Barcroft, K6AM	David Hodge, N6AN
NA7	Mitch Mason, K7RL	Jon Kimball, KL2A
NA8	Jim Stahl, K8MR	Mike Tessmer, K9NW
NA9	Michael Wetzel, W9RE	Mark Beckwith, N5OT
NA10	Alex Tkatch, KU1CW	Yuri Sakalouski, EA5GTQ
NA11	Jeff Briggs, VY2ZM	Patrick Briggs, KK6ZM
NA12	Lee Sawkins, VE7CC	Dale Green, VE7SV
NA13	Fred Kleber, K9VV	John Sluymmer, VE3EJ
OC	Michael Gibson, KH6ND	John Hillyer, KH6SH
SA1	Hamilton Martins, PY2YU	Rafael Martins, PY2NDX
SA2	Jorge Diez, CX6VM	Lucas "Luc" Maiorov, LU1FAM
YOUTH	Filippo Vairo, IZ1LBG	Paul Whitman, WQ2N
Wild Card	Alex Avramov, LZ4AX	Christo Ignatov, LZ3FN
Wild Card	Suad Zukic, DK6XZ	Winfried Kriegl, DK9IP
Defending Champions	Vlad Aksenov, RW1A	Alex Mikhaylov, RA1A

Sponsored Teams (4)

Sponsor	Team Leader	Team Mate
Azores Tourism	Martti Laine, OH2BH 	Ville Hiilesmaa, OH2MM 
KA1JJR	Tom Georgens, W2SC 	Dave Mueller, N2NL 
TBA		
Auction		

Referee Qualifications



- High level of integrity
- Proficient in both CW and SSB
 - SO2R experience desirable
- Able to stay awake for full contest period
- Proficient in English
 - All committee business will be conducted in English
 - Other language skills helpful
- Able to travel to W1

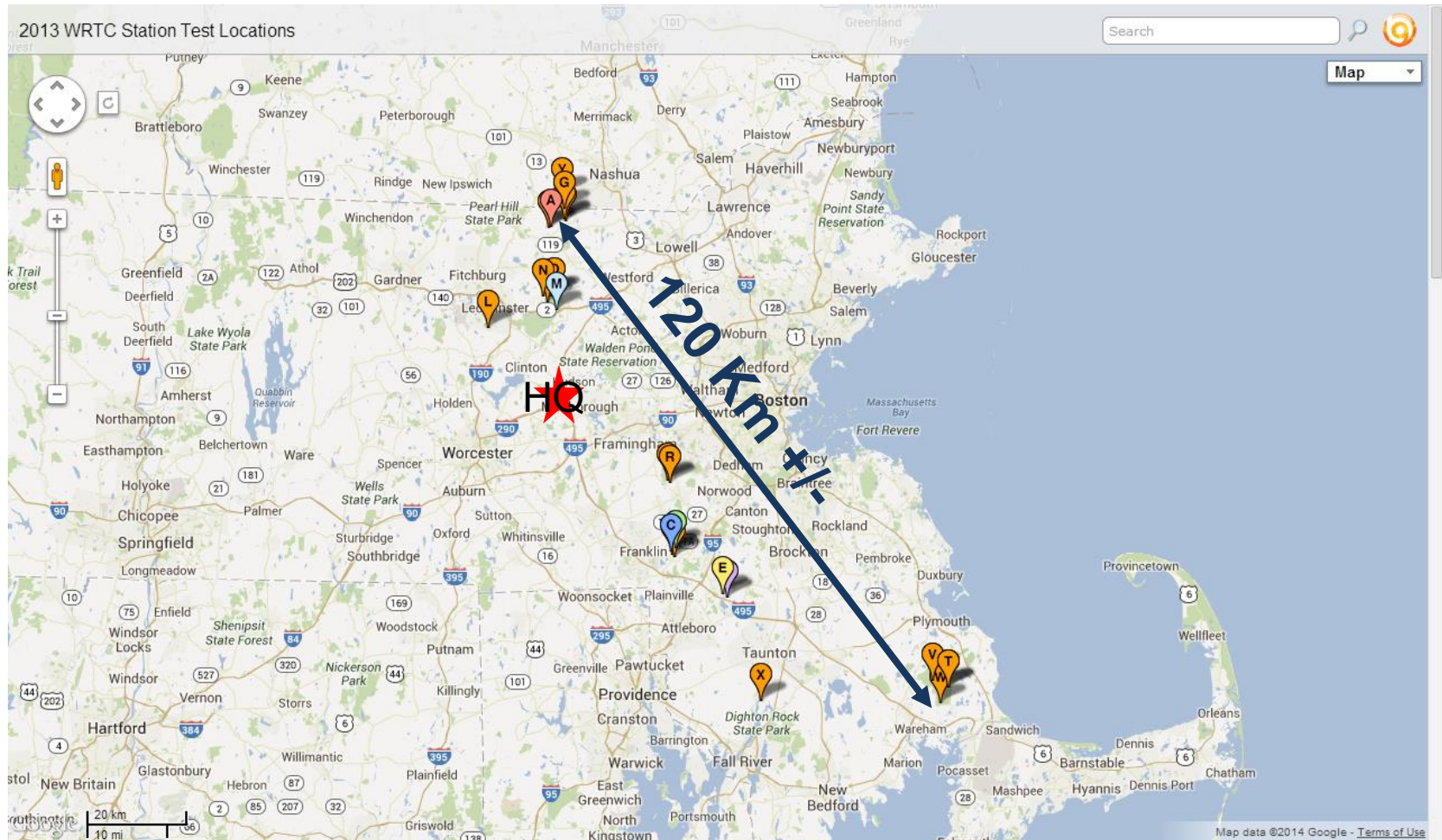
Selected Referees

9A4M	Mate Botica
CX7TT	Tom Morton
DL2OBF	Heinrich Langkopf
EA5RS	Juan M. Chazarra
ES5RY	Toomas Soomets
F6BEE	Jacques Saget
G3SXW	Roger Western
G4BUO	Dave Lawley
GM4AFF	Stewart Cooper
HA1AG	Zoli Pitman
HA3NU	László Weisz
HA6ND	Válóczi György
HB9CAT	Marco Zollinger
IT9GSF	Fabio Grisafi
JH4RHF	Jun Tanaka
K4BAI	John T. Laney III
K4RO	Kirk Pickering
K5GN	David McCarty
K5GO	Stan Stockton
K5WA	Bob Evans

K6NA	Glenn Rattmann
K7GK	Denis Pochuev
KC7V	Mike Fulcher
LY7Z	Andrius Ignotas
LZ1CNN/T6LG	Ilian Lazarov Gadzhev
LZ2HM	Andrey Stefanov Sachkov
N3RD	David Hawes
N5AW	Marvin Bloomquist
NF4A	Charles Wooten
OE6MBG	Michael S. Schwab
OH1RX	Jouko Häyrynen
PA3AAV	Gert Meinen
PY8AZT	Luc Moreira
RA3AUU	Igor "Harry" Booklan
RA9USU	Dmitry Zhikharev
RW4WR	Alex Orlov
S50XX	Kristjan Kodermac
S53R	Robert Kasca
SM6LRR	Mats Strandberg
SP4Z	Wieslaw Kosinski

UA9MA	Gennady I Kolmakov
UT5UGR	Dmitry Stashuk
UT7QF	Igor Syerikov
VA2WA	Victor Androsov
VE3EY	Nick Lekic
VE3RA	Ed Kulchenko
VE3XB	Yuri Romanov
VK2IA	Bernd Länger
VK4EMM	John Loftus
W0YK	Ed Muns
W4PA	Scott E. Robbins
W6OAT	Charles "Rusty" Epps
YL2KL	Girts Budis
YO9GZU	Tiberiu "Tibi" Tebeica
YU1EA/YT8A	Dušan Čeha
YU1LA	Ivan Mastilovic
ZL3CW/F2CW	Jacques Calvo
ZS4TX	Bernie van der Walt
ZS6EZ	Chris R. Burger

Planned WRTC2014 Sites



2012-2013 Site Testing

- Evaluate sites for:
 - Equal RF Performance
 - Accessibility
 - Line Noise
- Train Volunteers
 - Tower-raising system
 - Logistics
- Let site owners see us in action



Results of July 2012 Test



- No stations had line noise problems
- All were able to work EU HQ stations easily on 80M, could run EU stations on 40M (even SSB)
- RBN data being analyzed and compared to HFTA models – excellent agreement so far
- One site was 10dB louder to Europe, 10dB weaker to W6 in both HTFA and RBN testing; will not be used in 2014

2013 Station Test Goals



- Deploy 25-30 stations
 - Collect RBN data to compare with modeling for site performance equality
 - Put as many 2-transmitter stations as possible on the air to stress QRM, generator
 - Practice for Beam Teams, Site Teams, and logistics
- Test two new technologies
 - Power Detectors
 - Real-time On-line Scoreboard
- Have some fun!

June 1, 2013 Training Session



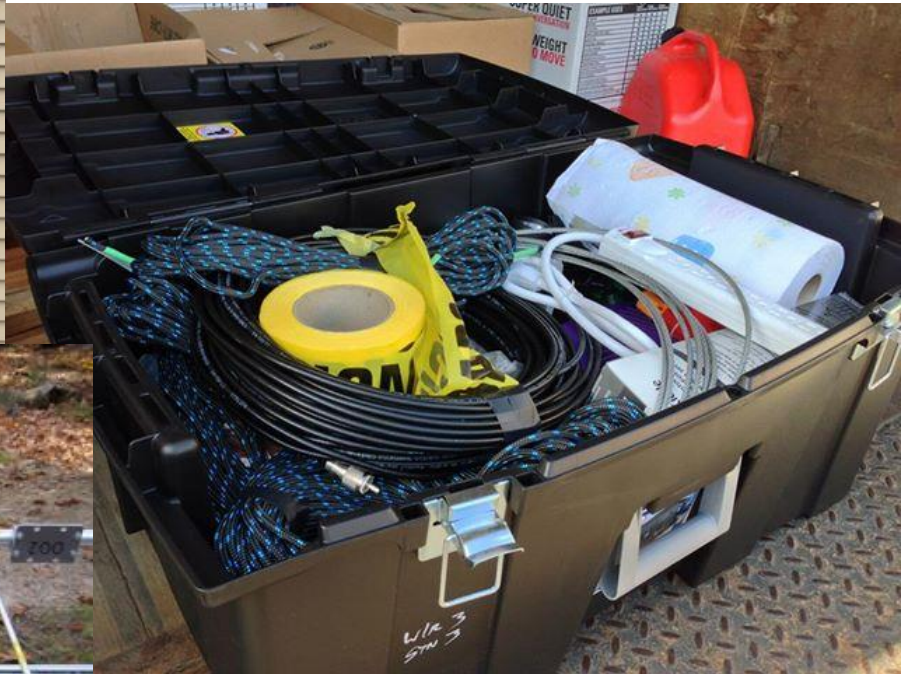
- **~150 volunteers attended training**
- **Assembled two complete stations in 2 hours**
- **Meeting (and storage) space provided by K1LZ**

Tower Inventory



- Unloaded and stacked by K6ND, W1MA, K1ST, and W1UE
- Excess galvanizing removed, holes cleaned out
- Rotators, plates, masts installed in the top sections

Tools of the Trade



Test Sites



AA3K



W1MA



K6ND



W1CLA



K1ZD



W1EQ



W1UJ



WB1Z



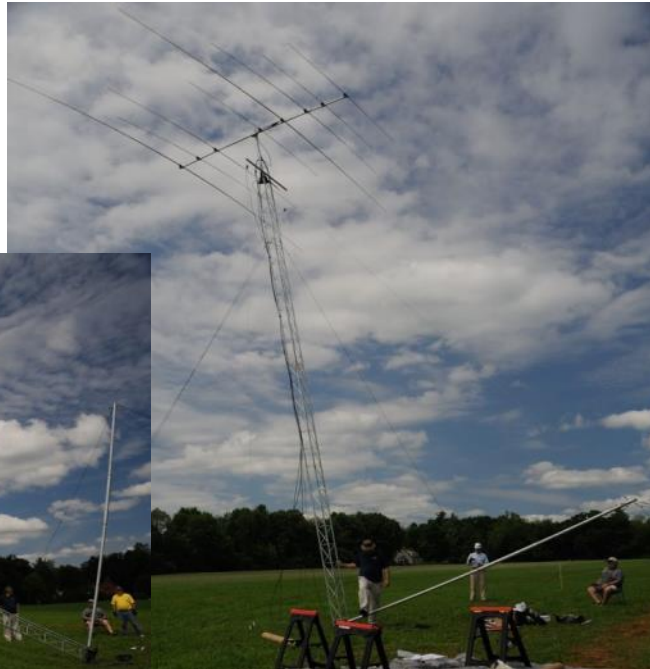
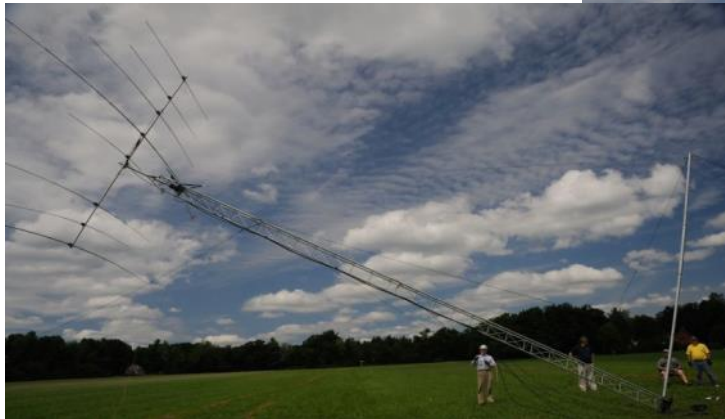


**WB1Z Aerial Views
from
Quadcopter Drone-cam

(check YouTube)**



K1GQ



2013 Test Run Results



- 25 stations built at 13 properties
 - 33,000 QSOs!
 - 21 had two radios
 - Almost all had scoreboard access...20 live!
 - 10 Power Detectors installed and worked
- Most Beam Teams were able to install two complete stations in half-day or so
 - BIG improvement (2012: 4-5 hours per station)

The Real-time Scoreboard



- Developed by KM3T & WA1Z using “Raspberry Pi” boards
- Auto-detection of score on network between computers
- Formatting and transmission via cellular network to server, then Web site
- No software required on teams’ computers
- SMS (text) backup

Scoreboard.wrtc2014.org

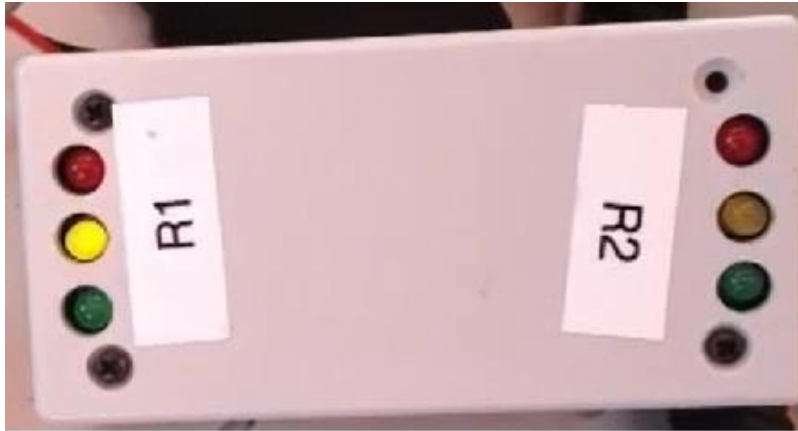


World Radiosport Team Championship WRTC Test Stations Scoreboard

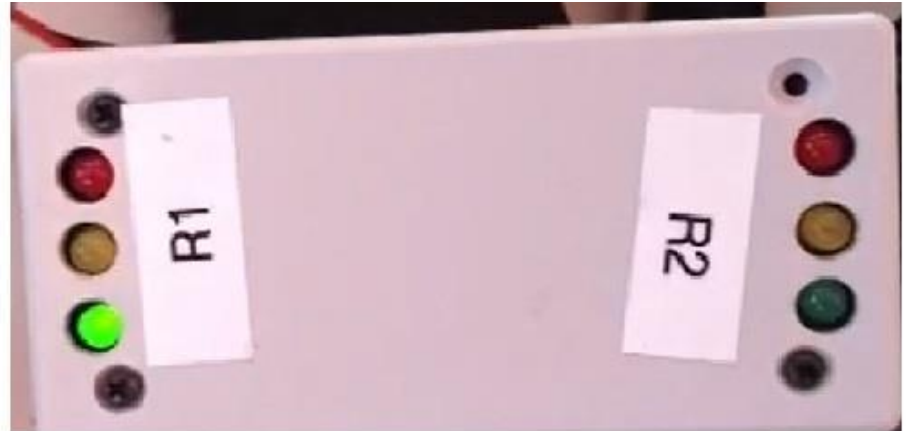
[Display Options](#)
[Show Scores with Band Breakdown](#)

Place	Team	Last Reported	Totals						As of 10:59		As of 9:59		As of 8:59		As of 7:59		As of 6:59		As of 5:59		As of 4:59		As of 3:59		As of 2:59		As of 1:59	
			CW QSOs	SSB QSOs	Points	HQ	DX	Score	Place	Score	Place	Score	Place	Score	Place	Score	Place	Score	Place	Score	Place	Score	Place	Score	Place	Score	Place	Score
1	N2NT/N2NC	12:24:28	1366	686	8442	151	194	2,912,490	1	2,801,904	1	2,734,263	1	2,671,170	1	2,576,106	1	2,509,325	1	2,381,654	1	2,250,752	1	2,001,900	1	1,791,360	1	1,528,041
2	W1UE/W1KM	11:59:43						2,187,532	2	2,079,136	21	1,970	21	1,970	21	1,970	18	1,911	18	1,816	18	1,623	18	1,623	18	1,450	18	1,208
3	K1BG/NM1C	12:07:34	952	398	4261	143	178	1,367,781	3	1,326,721	2	1,305,667	2	1,291,080	2	1,280,680	2	1,237,915	2	1,194,424	2	1,108,094	2	1,021,691	2	930,391	2	814,248
4	K1ZD/K1ZZ	12:43:25						1,337,356	4	1,214,049	3	1,214,049	3	1,165,879	4	1,058,148	4	1,058,148	4	976,131	5	902,703	4	852,081	7	641,650	11	314,215
5	W1UJ/N1WK	12:14:51	1214	234	4471	130	150	1,251,880	5	1,168,713	4	1,153,971	4	1,133,051	3	1,115,100	3	1,076,856	3	1,031,494	3	980,198	3	904,952	4	794,065	3	672,530
6	K1GQ/W2RU	12:00:03	1348	118	4399	121	152	1,200,381	6	1,148,630	5	1,100,918	5	1,065,740	6	1,001,374	6	959,397	5	942,896	6	889,108	6	820,808	3	806,176	4	666,198
7	N1SV/KM1P	12:06:46	804	641	4332	126	132	1,117,656	7	1,081,710	6	1,038,240	6	1,023,829	5	1,006,000	5	972,160	6	931,836	4	907,016	5	830,179	5	762,720	5	654,784
8	KE1J/W1VE	12:08:41	1179	256	4340	101	148	1,080,660	8	988,823	7	958,629	7	933,852	7	914,706	7	887,400	7	858,521	7	819,697	7	765,323	6	678,832	7	566,262
9	K9ES/AD4ES	12:12:01	1163	196	3962	107	128	931,070	9	868,139	8	831,712	8	801,346	8	785,991	8	756,000	8	714,630	8	649,430	9	597,398	9	524,144	8	432,256
10	K6ND/K3JO	12:03:56	1203	457	4164	111	77	782,832	10	768,285	9	711,160	9	711,160	9	699,426	9	688,324	9	656,139	10	602,310	10	546,140	10	491,787	9	423,108
11	WB1Z/W1MSW	12:04:22	910	189	3224	94	118	683,488	11	655,215	10	640,251	10	627,710	10	613,632	11	597,573	11	579,289	11	545,528	11	491,620	11	427,734	10	346,375
12	K1RX/W1CU	12:00:40						643,104	12	609,280	13	560,835	13	560,835	15	534,681	12	492,966	12	466,288	13	349,125	12	349,125	13	310,532	13	237,754
13	W1SJ/K1LI	00:28:40						608,130	13	608,130	11	608,130	11	608,130	11	608,130	10	608,130	10	608,130	9	608,130	8	608,130	8	608,130	6	608,130
14	NB1N/K9HI	07:35:03						606,690	14	606,690	12	606,690	12	606,690	12	606,690												
15	W1MA/N2MM	07:34:16						554,838	15	554,838	14	554,838	14	554,838	13	554,838	17	36,554	17	36,554	17	36,554	17	36,554	17	36,554	17	36,554
16	W1EQ/K1ZE	07:35:37						544,258	16	544,258	15	544,258	15	544,258	14	544,258												
17	NJ1F/KB1W	07:05:06						521,848	17	521,848	16	521,848	16	521,848	16	521,848												
18	N1IL/N2MG	11:08:47						463,936	18	446,513	18	355,605	18	355,605	18	355,605	14	355,605	14	355,605	12	355,605	13	342,103	12	313,627	12	257,040
19	AA3K/K3FT	12:15:19	559	289	2441	83	103	454,026	19	426,420	17	426,420	17	422,440	17	403,744	13	373,490	13	358,883	14	332,357	14	301,392	14	277,200	14	216,660
20	W1CLA/KB1REQ	10:19:00						187,325	20	187,325	19	181,692	19	181,692	19	175,212	15	175,212	15	161,880	15	140,000	15	140,000	15	128,620	15	81,258
21	N1JD/N10XA	11:03:17						104,520	21	100,436	20	97,114	20	89,585	20	89,585	16	79,025	16	79,025	16	66,456	16	66,456	16	50,580	16	42,476
22	AD1T/AE1P	02:41:05						1,122	22	1,122	22	1,122	22	1,122	22	1,122	19	1,122	19	1,122	19	1,122	19	1,122	19	1,122	19	645
	N3AD/W1GD																											
	AK1W/VA2WA																											
	W1HH/KB1ST																											

Power Detectors



>105 Watts...caution!



<50-100 Watts...carry on!

Another milestone in 2014

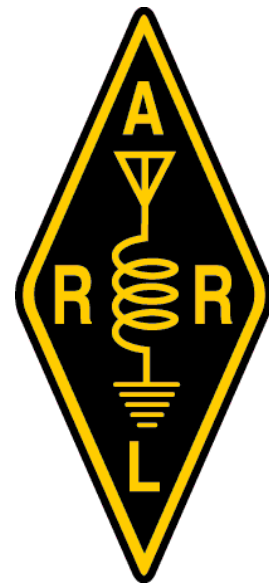


- 100th anniversary of founding of ARRL
- Day trip to ARRL planned
- ARRL Centennial National Convention in Hartford one week after WRTC2014



*A special VIP tour package
Is available to major donors
to both ARRL and WRTC2014*

Contact K1DG for details



Tentative Schedule



	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
July	6	7	8	9	10	11	12
Morning	Early arrival	Early arrival	Early arrival Airport pickups provided	Last Arrival day Airport pickups provided Tours/free time	Competitor meeting 8-9 AM Tours/free time	Location draw 9 AM Teams, refs go to sites	Contest begins 8 AM
Afternoon				Tours/free time	Tours/free time	Visitors may take tours	Visitors may take tours
Evening				Welcome party/BBQ	Opening Ceremony & banquet	Teams stay at or near sites overnight	
July	13	14	15	16	17	18	19
Morning	Contest ends 8 AM Teams return to HQ	Tours/ free time	Departure Transport to airports or Hartford provided		CTU HARTFORD	ARRL CONVENTION HARTFORD	
Afternoon	(logchecking begins)						
Evening	Free time	Closing Ceremony banquet and awards					

“Tours for the hams”



Day trip to ARRL Headquarters/W1ØØAW

**Radio History Tour – Marconi Site and
Chatham Marconi & Maritime Center**

Wellfleet...Cape Cod National Seashore...Marconi
Museum

Groton, CT Submarine Museum

Shopping trip to HRO, Salem, NH (no VAT!)

“Non-Radio” Tours & Activities



**“Get-acquainted” welcome party for spouses/families
Wednesday night**

Boston “Duck Boat” Tour (with Fenway Park or Harbor Cruise)

Walking tours of Boston

American History

Concord/Lexington/Walden Pond/American Revolution Sites

Shopping trip to Wrentham Premium Outlets

Trip to Foxwoods or Mohegan Sun Casino in CT

Major Sponsors and Donors



INDEXA



Additional Sponsors



Radio Oasis, LLC
Proud Sponsor and Wire Antenna Maker for WRTC 2014 www.radio-oasis.com



K7NV.COM
Prop Pitch Service



Tent Sponsorship: \$1000



USA

- Florida Contest Group (5)
- YCCC, PVRC 4 each
- NCCC, FRC 3 each
- SMC, Mad River CC 2 each
- Alabama Contest Group
- CTU Dayton Class of 2012
- Arizona Outlaws Contest Club
- Minnesota Wireless Association
- Pacific Northwest DX Clubs
- South East Contest Club
- Arizona Outlaws Contest Club
- CTDXCC
- Twin City DXC
- TN Contest Group
- Grand Mesa Contesters of Colorado

DX

- Contest Club Ontario
- CTU Italy Class of 2012
- Contest Club Finland
- Grupo DXXE
- Bavarian Contest Club
- JA WRTC Veterans
- Fortaleza DX Group (PY)
- Estonian RAU
- Bavarian CC
- WWROF
- SN3R/SP3KEY Contest Club

65 of 65 are subscribed!

Funding



- WRTC2014 is entirely funded by (tax-deductible) contributions and advertising
- We are doing well against our goal
- Current club program is Team Village Sponsorship (\$1000) to help with housing costs

WRTC2014 Team Village Sponsorship Program



- A new way to support WRTC2014 and your region's team
- Team Village will be an exciting place
 - Teams, referees, visitors all welcome
- Hotel and meal expenses for Teams and Referees paid by WRTC2014 Committee
- Clubs, societies, individuals can help
 - \$1k will help cover costs for a team & referee
 - Team Village Sponsors will be recognized for their support

New friends, old friends at the Team Village



Team Village Sponsors

(as of 30 Jan 2014)



USA

- Frankford Radio Club (5)
- Yankee Clipper CC (3)
- Southern California CC (2)
- Society of Midwest Contesters
- K2PLF
- K2GL Memorial

DX

- Bavarian CC (3)
- Contest Club Ontario
- OeVSV
- UK WRTC Group

shop.wrtc2014.org



Welcome to the WRTC 2014 Store

Show your support for WRTC 2014 in New England with official apparel and accessories.

Every item you purchase helps provide funding for acquisition of equipment and hosting of the 59 competing teams.

Featured Products



T-Shirt Long Sleeve
WRTC-LST
\$25.00



Polo
WRTC-POLO
\$30.00



T-Shirt Short Sleeve
WRTC-SST
\$20.00



Sweatshirt
WRTC-SW
\$40.00



Cap
WRTC-CAP
\$15.00



Donation
WRTC-D
\$10.00

Top Sellers

1. T-Shirt Short Sleeve - \$20.00
2. Polo - \$30.00
3. Cap - \$15.00
4. T-Shirt Long Sleeve - \$25.00
5. Sweatshirt



Our 3 goals



- Hold a fair competition
 - Still lots of work to do, but we have sites, gear, experience...
- Ensure that all participants have an excellent experience
 - Hospitality and tours will be great...
- Promote ham radio to the public in the region and beyond
 - PR and news coverage in planning...

**The contesting world is
coming to New England,
USA...**

**Thank you for all of your
support!**