



ZERO BEAT

Southeastern Massachusetts
Amateur Radio Association, Inc.
54 Donald Street
South Dartmouth, MA 02748



Since 1932

Volume 50 Issue 6

SEMARA-W1AEC

June 2014

2014 ARRL Field Day

Field Day 2014 Rules

Field Day begins at 1800 UTC Saturday and ends at 2100 UTC Sunday on June 28-29, 2014.

Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within IARU Region 2. DX stations residing in other regions may be contacted for credit. Work as many stations as possible on any and all amateur bands (excluding the 60, 30, 17, and 12-meter bands) and in doing so to learn to operate in abnormal situations in less than optimal conditions. *A premium is placed on developing skills to meet the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of Amateur Radio.*

Class A stations that do not begin setting up until 1800 UTC on Saturday may operate the entire 27-hour Field Day period. Stations who begin setting up before 1800 UTC Saturday may work only 24 consecutive hours, commencing when on-the-air operations begin. No class A station may begin its set-up earlier than 0000 UTC on the Friday (Thursday afternoon or evening local time) preceding the Field Day period. Cumulative set-up time shall not exceed a total of 24 hours.

(Class A) Club or a non-club group of three or more persons set up specifically for Field Day. *Such stations must be located in places that are not regular station locations and must not use facilities installed for permanent station use, or use any structure installed permanently for Field Day.* A single licensee or trustee for the entry is responsible for the group entry. All equipment (including antennas) must lie within a circle whose diameter does not exceed 300 meters (1000 feet). To be listed as Class A, *all contacts must be made with transmitter(s) and receiver(s) operating independent of commercial power mains.*

Get-On-The-Air (GOTA) Station. Any Class A entry whose 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 station must use a different callsign from the primary Field Day station. The GOTA station must use the same callsign for the duration of the event regardless if operators change.

The GOTA station may be operated by any 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 participants must be included on the required summary sheet.

This station must have a valid control operator present at the control point if operating beyond the license privileges of the participant using the station.

The maximum transmitter output power for the GOTA station shall be 150 Watts. If the primary Field Day group is claiming the QRP multiplier level of 5, the maximum transmitter output power of the GOTA station may not exceed 5 Watts.

A maximum of 500 QSOs made by this station may be claimed for credit by its primary Field Day operation. In addition, bonus points may be earned by this station.

The GOTA station may operate on any Field Day band. Only one transmitted signal is allowed from the GOTA station at any time.

The GOTA station does not affect the additional VHF/UHF station.

Participants are reminded that non-licensed participants working under the direction of a valid control



www.arrl.org

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2013 SEMARA OFFICERS

President
 Marcel Dumont—W1MLD
 Vice President
 Joe Krisnowsky—N1IXC
 Secretary
 Marc Dumont—KB1ODE
 Treasurer
 Mike McDonald—KB1NB

Directors:
 Dave Dean—K1JGV
 Jean Pierre Chiron,—AG1Y
 Martin G. Jordan—KA1YFV

Trustees: (year term is up)
 Louis Mester—W1CH (2014) (ch)
 Joe Krisnowsky—N1IXC (2015)
 Dick Halliwell—K1AHA (2016)
 Brad Paiva—W1BEP (2017)
 Martin G. Jordan—KA1YFV (2018)

STANDING COMMITTEES

Building and Grounds
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 Anthony Lessa—KB1UAM

Scholarship
 Sonny Eddleston—K1USW – chair
 Chuck Moszczenski—KB1FRL
 Alan Dulong—WB1FQP
 Joe Krisnowsky—N1IXC

Technical-Repeater-Web
 VACANT—Technical (chair):
 Rick Cabral—W1RJC: Repeater
 Rick Cabral—W1RJC: Web

SPECIAL COMMITTEES

Activities
 VACANT
 ARES/SKYWARN/RACES(ACS)
 Ed Caron—KA1RSY
 QSL Manager
 John Nery—WA1ESO
 Radio Events
 Bob Kelley—K1KVV
 Tech Talk
 Richard Orluk—K1XRN

It seems to me... de Bob - K1KVV, Editor

that June is a transition month. Here's an Email that shows sometimes amateur radio is discussed at the Sunday morning rag chew.

Hi Bob.....

Here is a subject that seems to be gaining momentum and perhaps a bit of confusion as well. I'm sure this will make a good topic for *Zero-Beat*.

Over coffee and on the air the sloper's characteristics seem to be food for thought. After doing an extensive poll, the ranks seem to be split 50-50 on the answer to a simple question.

"Which way should a sloper be tilted in order to orient it in your preferred direction for best reception or transmit performance?"

Here are some answers I have received:

- depends on whether it is loaded at the top or bottom. Say what?
- tilt the foot out for the preferred directivity of the wire (because this gives the best lobe in the preferred direction for skip). Most all have read that somewhere, but cannot show printed proof of it, including me.
- tilt the top out for the preferred directivity of the wire (because slopers are like verticals with a high angle of radiation, thereby transmitting or receiving best off the end) Sorta like firing a gun. Hmmmmm
- it makes little difference. That one gets me. If that is the case, then what is the purpose of a sloper?
- depends on the length of the transmission line. Another say what?
- it is really a tilted dipole, so will exhibit characteristics of both dipoles and verticals. Another Hmmmmm.

~Dave-K1JGV

So what is the answer? Are you talking about a top or bottom fed $\frac{1}{4}\lambda$ sloper or a center fed $\frac{1}{2}\lambda$ sloper?

You are correct about a sloper being a combination of vertical and horizontal components. You can superimpose the antenna patterns of a vertical and that of a horizontal dipole. In free space where you place the foot does not matter. An ideal ground reflects a mirror-image sloper. For real grounds, the mirror-image sloper has ground losses that are height dependent. ??? What does that suggest to you ??? [Ed.]

Volunteers are welcome to participate at the **CF Cycle for Life** bicycle tour being held at *Carolyn's Sakonnet Vineyards, in Little Compton, RI*. The date is **September 27, 2014**.

Radio operators and other volunteer types are needed. (Spouses are certainly welcome to volunteer as well.

John-WA1ESO [waleso \[at\] juno \[dot\] com](mailto:waleso[at]juno[dot]com) 401-624-4576

POINT TO PONDER

**"No sun outlasts its sunset but will rise again
 and bring the dawn."**

~Maya Angelou, 1928-2014

Official Meeting Minutes



May 1, 2014

The meeting was called to order at 7:05 PM by the **President, Marcel (W1MLD)** with salute to the flag. The roll was called with 26 members and 2 guests present.

SECRETARY'S REPORT

A motion was made, seconded and unanimously voted to dispense reading the Secretary's Report and accept as posted on the board and in *Zero Beat*.

TREASURER'S REPORT

The **Treasurer, Mike (KB1NB)** reported income of \$6,112.00, expenses of approximately \$2,100.00 with a net worth of approx. \$69,865.00. Netcom owes approx. \$17,500.00. A motion was made, seconded and unanimously approved to refer the report to audit.

STANDING COMMITTEES

Scholarship

Sonny (K1USW) introduced the 2014 scholarship winner. The scholarship was awarded at the meeting to Drew Tisdelle, a student at Dartmouth High School, who will be entering Worcester Polytechnic Institute in the fall studying Interactive Media and Game Design. Mr. Tisdelle was accompanied by his mother, Tammy, and read his winning essay.

SPECIAL COMMITTEES

ARES, RACES, SKYWARN

Joe (N1IXC) reminded members of the ARES net the following Monday, as well as the SKYWARN class to be held at SEMARA on Saturday May 11 at 10:00.

Radio Events

Bob (K1KVV) mentioned several events including the New England QSO Party, Kid's Day, Field Day, Armed Forces Communication Event and 13 Colonies Event.

RATIFICATION OF NEW MEMBERS

An application for Life Membership was received from **James Hurwitz (W1FMG)**. A motion was made, seconded and unanimously voted to accept James as a life member.

OLD BUSINESS

The **President, Marcel (W1MLD)** reported that he received two quotes for design of the new building addition. The first quote, from *Southcoast Architecture* offered plans and job oversight for \$3250.00. The

second quote, from *Michael Walker Design and Builder, LLC* offered plans for \$500.00. After discussion a motion was made to authorize the President to accept the bid from **Michael Walker Design and Builder** to design the foundation, handicap entry and miscellaneous necessities to tie in with the existing structure, for an amount not to exceed \$500.00. The motion was seconded and unanimously approved.

The President also reported prices for keyless entry systems for the building. Prices for systems range from \$1000.00 for computer controlled systems to \$700.00 for self-contained systems. Another system from All Security for self-contained system was approximately \$1700.00. After discussion it was decided to continue researching the issue.

NEW BUSINESS

Joe K (N1IXC) made a motion, on behalf of the *Cystic Fibrosis Bike Race*, to use of the 147.00 repeater on September 27, 2014 between 9:00 PM to 5:00 PM. The motion was seconded and unanimously approved.

FOR THE GOOD OF THE CLUB

Joe (KC1BGF) donated the plans to the club of a J-pole mount he made.

NOMINATIONS AND VOTING

Nominations were opened for one position of Director, originally opened at the last meeting by a vacancy. No additional nominations were made in addition to the one nomination during the last meeting for **Marty Jordan (KA1YFV)**. A motion was made, seconded and unanimously approved to close nominations. A motion was then made, seconded and unanimously voted to have the Secretary cast one vote for **Marty Jordan (KA1YFV)** as Director.

ADJOURN

A motion was made, seconded and unanimously voted to adjourn the meeting at 7:57 PM

Respectfully submitted,

Marc M. Dumont (KB1ODE), Secretary



Tidbits



RATIFICATION - NEW MEMBER

At the May 1st Business Meeting, an application for Life Membership was received from

James Hurwitz (W1FMG).

A motion was made, seconded and unanimously voted to accept James as a life member.

Welcome to the club,!

LOCAL NETS

Everyone is welcome to check in!

147.000+ (PL 67.0 Hz) (FM) — Massachusetts RACES/ACS Drill (Region 2, Sector A) is held on the first Monday of the month at 7:30 PM.

50.200 MHz (FM) — Net is held Wednesdays at 8:30 PM. **Net control** is Brad, **W1BEP** (E. Free-town).

28.490 MHz (USB) — Net is held Tuesdays at 8:30 PM. **Net control** is **Dick, K1AHA** (N. Dartmouth).

1875 kHz (LSB) Net is held Fridays at 7 PM. **Net control** is **Dave, K1JGV** (N. Dartmouth).

If QRN is too high, look for them on **50.200 MHz** (USB)

Club Numbers

GPS Coordinates:

Lat. N 41° 36.795'
Long. W 070° 56.550'
— o —

Maidenhead Grid Coordinates: FN41mo

— o —

For FISTS Sprints: FISTS #10555

LOCAL REPEATER DIRECTORIES

See <http://www.nerepeaters.com/se.htm>

144 (<http://www.nerepeaters.com/2m.htm>)

222 (<http://www.nerepeaters.com/222.htm>)

440 (<http://www.nerepeaters.com/440.htm>)

902 (<http://www.nerepeaters.com/902.htm>)

50/50 RAFFLE



The May 50/50 raffle prize of
\$32.50
was won by **David (KD1YZ)**.



NEXT VE SESSION @ SEMARA

June 7, 2014

Clubhouse @ 10:30 AM

Contact: **Fred Bacon-N1TF**
exams [at] semara [dot] org

508-748-0047



Successful candidates
may be eligible for a 'free' SEMARA
Baofeng UV-5B HT.

CLUB ACTIVITIES

BUSINESS MEETING

First THURSDAY of the month @ 7 PM

Sunday RAGCHEW @ 7-10 AM

Thursday COFFEE CROWD

Dunkin Donuts - Dartmouth & Garfield
Dartmouth @ 1 PM

Friday LUNCH BUNCH

Leave for LUNCH @ **12 noon**
Gather @ clubhouse before 12 noon

Call on the repeater, or phone the club:
508-997-7070, if you are coming

(Continued from FD Rules, page 1)

operator may only communicate with other W/VE stations or with stations in countries with which the US has entered a third-party agreement.

The GOTA station does not qualify as an additional transmitter when determining the number of transmitters eligible for the 100-point emergency power bonus.

Free VHF Station All Class A entries may also operate one additional transmitter if it operates exclusively on any band or combination of bands above 50 MHz (VHF/UHF) without changing its basic entry classification. This station does not qualify for a 100-point bonus as an additional transmitter. This station may be operated for the clubs Field Day period and all contacts count for QSO credit. It is operated using the primary callsign and exchange of the main Field Day group and is separate and distinct from the GOTA station.

Field Day entries are classified according to the maximum number of simultaneously transmitted signals, followed by a designator indicating the nature of their individual or group participation. The minimum number of transmitters that must be claimed is one (1), the maximum is twenty (20) transmitters for the purpose of calculating bonus points (2,000 points maximum).

Stations in ARRL / RAC sections exchange their Field Day *operating Class* and ARRL / RAC *section*.

All stations for a single entry must be operated under one callsign, except when a dedicated GOTA station is operated.

Scores are based on the total number of QSO points times the power multiplier plus the bonus points. Phone contacts count one (1) point each; CW contacts count two

(2) points each; and Digital contacts count two (2) points each.

The power multiplier that applies is determined by the highest power output of any of the transmitters used during the Field Day operation. If all contacts are made using a power of 5 Watts or less and if a power source other than commercial mains or motor-driven generator is used (**batteries, solar cells, water-driven generator**), the power multiplier is 5 (five); all contacts are made using a power of 5 Watts or less, but the power source is from a commercial main or from a motor-driven generator, the power multiplier is 2 (two); if batteries are charged during the Field Day period using commercial mains or a motor-driven generator the power multiplier is 2 (two); if any contacts are made using an output power up to 150 Watts or less, the power multiplier is 2 (two); if any contacts are made using an output power greater than 150 Watts, the power multiplier is 1 (one). The power multiplier for an entry is determined by the maximum output power used by any transmitter used to complete any contact during the event.

100% Emergency Power 100 points per transmitter classification if all contacts are made only using an emergency power source up to a total of 20 transmitters (maximum 2,000 points.) GOTA station and free VHF Station do not qualify for bonus point credit and should not be included in the club's transmitter total. All transmitting equipment at the site must operate from a power source completely independent of the commercial power mains to qualify.

Media Publicity: 100 bonus points may be earned for attempting to obtain publicity from the local media. A copy of the press release, or a copy of the actual media publicity received (newspaper article, etc.) must be submitted to

claim the points.

Public Location 100 bonus points for physically locating the Field Day operation in a public place (i.e. shopping center, park, school campus, etc).

Public Information Table 100 bonus points for a Public Information Table at the Field Day site. The purpose is to make appropriate handouts and information available to the visiting public at the site. A copy of a visitor's log, copies of club handouts or photos is sufficient evidence for claiming this bonus.

Message Origination to Section Manager 100 bonus points for origination of a National Traffic System (NTS) style formal message to the ARRL Section Manager or Section Emergency Coordinator by your group from its site. You should include the club name, number of participants, Field Day location, and number of ARES operators involved with your station.

Message Handling 10 points for each formal NTS style originated, relayed or received and delivered during the Field Day period, up to a maximum of 100 points (ten messages).

Satellite QSO 100 bonus points for successfully completing at least one QSO. The no-repeater QSO stipulation is waived for satellite QSOs. Groups are allowed one dedicated satellite transmitter station without increasing their entry category. Satellite QSOs also count for regular QSO credit. Show them listed separately on the summary sheet as a separate "band." You do not receive an additional bonus for contacting different satellites, though the additional QSOs may be counted for QSO credit. The QSO must be between two Earth stations through a satellite. Stations are limited to one (1) completed QSO

(Continued on page 6)

(Continued from FD Rules, page 5)
on any single channel FM satellite.

Alternate Power 100 bonus points for Field Day groups making a minimum of five QSOs without using power from commercial mains or petroleum driven generator. This means an "alternate" energy source of power, such as solar, wind, methane or water. This includes batteries charged by natural means (not dry cells). The natural power transmitter counts as an additional transmitter. If you do not wish to increase your operating category, you should take one of your other transmitters off the air while the natural power transmitter is in operation. A separate list of natural power QSOs should be submitted with your entry.

W1AW Bulletin 100 bonus points for copying the special Field Day bulletin transmitted by W1AW (or K6KPH) during its operating schedule during the Field Day weekend (listed in this rules announcement). An accurate copy of the message is required to be included in your Field Day submission. (Note: The Field Day bulletin must be copied via amateur radio. It will not be included in Internet bulletins sent out from Headquarters and will not be posted to Internet BBS sites.)

Educational activity bonus One (1) 100-point bonus may be claimed if your Field Day operation includes a specific educational-related activity. The activity can be diverse and must be related to amateur radio. It must be some type of formal activity. It can be repeated during the Field Day period but only one bonus is earned.

Site Visitation by an elected governmental official: One (1) 100-point bonus may be claimed if your Field Day site is visited by an elected government official as the result of an invitation issued by your group.

Site Visitation by a representative of an agency One (1) 100-point bonus may be claimed if your Field Day site is visited by a representative of an agency served by ARES in your local community (American Red Cross, Salvation Army, local Emergency Management, law enforcement, etc.) as the result of an invitation issued by your group. *ARRL officials (SM, SEC, DEC, EC, etc) do not qualify for this bonus.*

When a GOTA operator successfully completes 20 QSOs, they receive 20 bonus points. A single GOTA operator must complete all 20 QSOs required before the bonus is earned.

Upon reaching an additional 20 QSOs the same operator receives a second 20 bonus points, up to a maximum of 100 bonus points. An operator may make more than 100 QSOs but the QSOs over 100 do not qualify for an additional bonus.

Additional GOTA operators may earn the GOTA bonus points up to the maximum of 500 bonus points. (There is a 500-QSO limit for the GOTA station. No single GOTA operator may earn more than 100 of the GOTA bonus points.)

GOTA station supervised full-time by a GOTA Coach, doubles bonus points earned for each 20 QSOs. GOTA Coach supervises the station: answering questions and talking them through contacts; may not make QSOs or perform logging functions.

Web submission A 50-point bonus for submitting Field Day entry via the www.b4h.net/cabforms web site.

Field Day Youth Participation A 20-point bonus (maximum of 100) may be earned for each participant age 18 or younger who completes at least one QSO.

Supporting information must be emailed to fieldday@arrl.org by July 29, 2014.

- An electronic copy of an ARRL summary sheet completely and accurately filled out.
- An attached list of stations worked by band/mode during the Field Day period (dupe sheet or an alpha/numeric list sorted by band and mode); and Proof of all bonus points claimed (copies of visitor logs, press releases, NTS messages handled, photographs, etc).



Kids Day 2014

Saturday, June 21

2:00pm - 7:59pm

(1800 UTC thru 2359 UTC)

Kids Day is designed to give on-the-air experience to youngsters and hopefully foster interest in getting a license of their own. It is also intended to give older hams a chance to share their station and love for Amateur Radio with their children.

Suggested frequencies:

10 Meters: 28.350-28.400 MHz

12 Meters: 24.960-24.980 MHz

15 Meters: 21.360-21.400 MHz

17 Meters: 18.140-18.145 MHz

20 Meters: 14.270-14.300 MHz

40 Meters: 7.270-7.290 MHz

80 Meters: 3.740-3.940 MHz

plus your favorite repeater (with permission).

Suggested exchange:

name, age, favorite color.

Be sure to observe third-party restrictions when making DX QSOs

Reporting:

See www.arrl.org/kids-day

Survey & Certificates: go to the Kids Day page; do the survey; print personalized certificates for each of the kids.

13 Original Colonies July 4th Week Special Event

★ *The 6th Annual:* 4TH OF JULY WEEK - 13 ORIGINAL COLONIES SPECIAL EVENT ★

Presented By The Original 13 Colonies Special Event Group - Independence week - 2014



K2A - NEW YORK



K2B - VIRGINIA



K2C - RHODE ISLAND



K2D - CONNECTICUT



K2E - DELAWARE

CONTACTS



CLEAN SWEEP



REVOLUTIONARY WAR ERA COLONIAL CURRENCY



W3FT



WM3PEN



K2I - NEW JERSEY



K2J - N. CAROLINA



K2K - N. HAMPSHIRE



K2L - S. CAROLINA

THIS IS TO CERTIFY THAT **ARS SAMPLE** HAS PARTICIPATED IN THIS 4TH OF JULY WEEK SPECIAL EVENT, HONORING THE "13" ORIGINAL COLONY STATES AND OUR NATION'S INDEPENDENCE IN 1776. GOD BLESS AMERICA

KEN VILLONE - K2IUS: EVENT MANAGER *Ken Villone 73*



K2F - MARYLAND



K2G - GEORGIA



K2H - MASSACHUSETTS



K2M - PENN.

13 Original Colonies Special Event

**INDEPENDENCE WEEK:
JULY 1-6, 2014**

In 2014, the 13 Colonies special event stations will operate from July 1, 9:00 AM ET (July 1, 1300Z) to July 6, 12:00 PM (midnight) ET (July 7, 0400Z).

The theme for 2014 is

"Revolutionary War Era Currency."

The certificate (above) is printed on heavy card stock. Stations working one state or, as many as all 13, will

be eligible for the certificate. A "Clean Sweep" indicator will be affixed, for those lucky enough to "Q" all 13.

A special endorsement will be attached for stations contacting our sister operations:

WM3PEN, Philadelphia, and **W3FT**, Baltimore.

=> 0 <=

MA Special Event Clubs: K2H

WB1GOF – WESTFORD, MA

Police Amateur Radio Team of Westford

QSL Manager for Massachusetts

W1GLO – GLOUCESTER, MA

Cape Ann ARA

W1AEC – DARTMOUTH, MA

SEMARA

Want to be a **K2H** operator? More details at 13colonies.info. Contact me for the inside scoop. [Ed.]



Minute Man Statue, Lexington, Mass. Photo: Sarah Sherman

Radio Tests & Fests

Some Special Events

<http://www.arrl.org/special-event-stations>

Kids Day 2014

Saturday, June 21 2:00pm - 7:59pm
(1800 UTC through 2359 UTC)

www.arrl.org/kids-day

ARRL 2014 Field Day

Saturday, June 28 - Sunday, June 29
(1800 UTC through 2100 UTC)

fieldday@arrl.org

13 Original Colonies Special Event

Tuesday, July 1 - Sunday, July 6
9:00 am - 11:59 pm
(1300 UTC through 0400UTC, 7 July)

13colonies.info

Coming FLEAS & FESTS

www.arrl.org/hamfests/search

7 June	Hermon ME	PSARA Jerry K1GUP 207 848 3400
15 June	Cambridge MA	FLEA @ MIT Mitch 617 253 3776
21 June	Newington CT	NARL Quentin KB1EWM 860 383 8203
18,19 July	Hartford CT	ARRL Nat Conv 100 th Anv 860 594 0200
20 July	Cambridge MA	FLEA @ MIT Mitch 617 253 3776
9 Aug	Milo ME	PARC George WA1JMM 207 441 6112
17 Aug	Cambridge MA	FLEA at MIT Mitch 617 253 3776

Some June Radio Activity

<http://www.arrl.org/contest-calendar>

Day-Time-Day-Time

7 0000Z 8 2400Z	28/-	
Ten-Ten Open Season	Dig	www.ten-ten.org
7 0400Z 8 See website	3.5-28/-	
Digifest	Dig	www.mixw.net/misc/DigiFest/index.html
7 1100Z 7 1500Z	14/-	
LZ Open 20 Meter Contest	CW	www.lzopen.com
7 1200Z 8 1200Z	3.5-28/-	
SEANET Contest	Ph CW	orari.or.id/seanet2014
7 1300Z 8 1300Z	-/50	
UKSMG Sporadic E Contest	Ph CW Dig	www.uksmg.org
7 1600Z 8 0400Z	1.8-28/-	
Alabama QSO Party	Ph CW	www.alabamagsoparty.org
14 0600Z 15 0600Z	3.5-28/-	
Australian Shires Contest	Ph CW	vkshires.vk2bo.com/worked-all-vk-shires-contest.html
14 1100Z 14 1300Z	14-21/-	
Asia-Pacific Sprint	Ph	jsfc.org/apsprint/aprule.txt

14 1200Z 15 1200Z	3.5-28/-	
Portugal Day	Ph CW	portugaldaycontest.rep.pt
14 1500Z 15 1500Z	3.5-28/-	
GACW WWSA	CW	www.wwsatest.org
14 1600Z 15 1600Z	-/50	
REF DDFM Six Meter Contest	Ph CW	concours.ref-union.org
14 1600Z 15 0200Z	3.5-28/-	
West Virginia QSO Party	Ph CW Dig	www.qsl.net/wvsarc
14 1800Z 16 0300Z	-/50+	
ARRL June VHF Contest	Ph CW Dig	www.arrl.org/contests
21 0000Z 22 2400Z	1.8-28/-	
All-Asian DX Contest	CW	www.jarl.or.jp/English
21 0000Z 22 2359Z	-/50	
SMIRK QSO Party	Ph CW	www.smirk.org
21 1200Z 22 2359Z	1.8-28/50	
Straight Key Weekend Sprintathon	CW	www.skccgroup.com
21 1400Z 22 1400Z	-/50	
IARU 50 MHz Contest	Ph CW	www.iaru-r1.org