



THE AERO AERIAL

THE NEWSLETTER OF THE AERO AMATEUR RADIO CLUB

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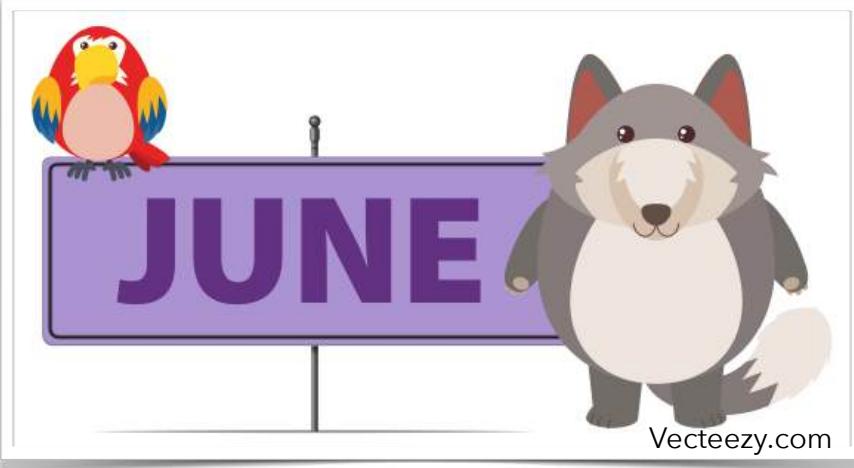
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Meetings

JUNE
4 & 18



Ham News

June 4 & 18: In-Person Meetings at Essex Skypark

From Rob, AE3B

Our meetings this month will be at the Essex Skypark community hangar. This is a perfect opportunity to get current with your dues and get updated on the Field Day preparations. We all look forward to seeing you!

Past Due: 2025 Membership Dues

From Joe Miko

Some members have not submitted their dues for 2025 (\$24.00 single member and \$26.00 family rate per year), due in January. To pay your dues or ask questions, reach out to Joe (joseph.miko@outlook.com or 443-956-0197) or the club treasurer Thomas Hawkins Jr (443-835-0725) by June 7. A non-response will remove you from the Aero ARC membership list.

Events

Manassas Tailgate

Date: 6/7/2025

Location: Manassas Park, VA

Sponsor: Ole Virginia Hams

Website: <https://w4ovh.net/welcome-to-manassas-hamfest/>

Baltimore Amateur Radio Club Father's Day Hamfest

Date: 6/15/2025

Location: Upperco, MD

Sponsor: Baltimore Amateur Radio Club BARC

Website: <https://w3ft.com/hamfest/>

Firecracker Hamfest

Date: 7/5/2025

Location: Harrisburg, PA

Sponsor: Harrisburg Radio Amateurs Club

Website: <https://w3uu.org/>

SVARC Berryville Hamfest, ARRL Roanoke Division Convention

Date: 8/3/2025

Location: Berryville, VA

Sponsor: Shenandoah Valley Amateur Radio Club

Website: <https://berryvillehamfest.com/>

More Ham News

Hamvention Attendance Breaks Record

From Dayton Hamvention

Attendance at Hamvention was up almost 1,000 from 2024. The final attendance count for 2025 was 36,814, which breaks the all-time high record. [Visit Facebook](#)

Pile-Up Speedbumps: The QSO Killers

From Delta-Alpha

Disruptions in a pile-up arise when DX hunters deviate from the expected rhythm of a standard QSO. [Read more](#)

Radio Apocalypse:

Meteor Burst Communications

From Hackaday

The world's militaries have always been at the forefront of communications technology. So once radio was invented, it's little wonder how quickly military commanders capitalized on it for field communications. [Read more](#)

Open-weather to host Nowcast for NOAA WX Sats Reaching End-of-Life

From Amateur Radio Daily

Open-weather will host an End-of-life Nowcast inviting weather and radio enthusiasts to capture recordings from the NOAA 15, 18, and 19 weather satellites. WAV recordings of the satellite passes may be uploaded through the Contributor Form and will be made available on the Public Archive. The Nowcast takes place on June 15th. [Read more](#)

More Events

Southern New Jersey Conference and HamFest, ARRL Southern New Jersey Convention

Date: 9/7/2025

Location: Mullica Hill, NJ

Sponsor: Gloucester County Amateur Radio Club

Website: <http://HamFest.W2MMD.org>

In case you missed it,



check out the May issue.

SKYWARN, ARES, RACES

SKYWARN® is a national network of volunteer severe weather spotters. The spotters are trained by local National Weather Service Forecast Offices on how to spot severe thunderstorms, tornadoes, hail and flooding. In some parts of the country, spotters also report snowfall and ice accumulation.

To learn more about SKYWARN® and how to become a spotter, [click here](#).

Harford County ARES/RACES Group meets at the Harford County Emergency Operations Center in Forest Hill, MD, the first Thursday of each month, 7:00-9:00 p.m. Let them know in advance if you would like to attend, via email to Steven Fook (K2EJ), Harford County Emergency Coordinator.

To learn more about Amateur Radio Emergency Service (ARES) and Radio Amateur Civil Emergency Service (RACES), [click here](#).

Training

SKYWARN® Basics Class

No classes this month

SKYWARN® Advanced Flood Class

June 11, 2025, 6:30-8:30 p.m., Community Meeting Room, Public Safety Building, 200 Skyline Vista Drive, Front Royal, VA 22630, [Register here](#)



Radio License Exams

The Aero Amateur Radio Club sponsors Amateur Radio License Exams with the ARRL VEC. Examination sessions are currently suspended until a new exam site is secured.

W3PGA Exam Location

To be determined

Contact

Patricia Stone, AC3F
 email: ac3f@juno.com
 landline: 410-687-7209



VE Corner

Pat Stone, AC3F

Sessions have been suspended until we are able to locate a new exam site.

Other Maryland Test Sites

6/3/25, 5:45 pm: Severna Park, register or call ahead

6/7/25, 2:30 pm: Catonsville, walk-ins allowed

6/21/25, 8:45 am: Forest Hill, walk-ins allowed

6/21/25, 9:00 am: Laurel, walk-ins allowed

7/12/25, 2:30 pm: Catonsville, walk-ins allowed

7/19/25, 9:00 am: Laurel, walk-ins allowed

8/16/25, 2:30 pm: Catonsville, walk-ins allowed

8/16/25, 9:00 am: Laurel, walk-ins allowed

Exam Overview

LEVEL 1: Technician Class License

- Exam Requirement: 35-question Technician Written Exam (Element 2).
- Privileges: All VHF/UHF Amateur bands (frequencies above 30 MHz). Limited operations in certain HF bands.

LEVEL 2: General Class License

- Exam Requirements: 35-question General written exam (Element 3).
- License Privileges: All VHF/UHF Amateur bands and most HF privileges (10 through 160 meters).

LEVEL 3: Extra Class License

- Exam Requirement: 50-question Extra written exam (Element 4).
- License Privileges: All Amateur band privileges.

Contest Corral

June 2025

Check for updates and a downloadable PDF version online at www.arrl.org/contest-calendar.

Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

Start - Finish Date-Time		Bands	Contest Name	Mode	Exchange	Sponsor's Website		
2	0000	2	0100	1.8-28	K1USN Slow Speed Test	CW	Max 20 WPM; name, SPC	www.k1usn.com
2	1300	2	1400	1.8-28	ICWC Medium Speed Test	CW	Name, serial	internationalcwcouncil.org
2	1900	2	2030	3.5	RSGB 80m Club Championship, Data	Dig	RST, serial	www.rsgbcc.org
3	0000	3	0200	3.5-28	ARS Spartan Sprint	CW	RST, SPC, pwr	ars-grp.com
4	1700	4	2100	144	VHF-UHF FT8 Activity Contest	Dig	4-char grid	www.ft8activity.eu
5	0000	6	0300	7	Walk for the Bacon QRP Contest	CW	Max 13 WPM; RST, SPC, name, mbr or pwr	qrpcontest.com/pigwalk40
5	1800	5	2200	28	NRAU 10m Activity Contest	CW Ph Dig	RS(T), 6-char grid	nrau.net
5	1900	5	2100	1.8-28,50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
6	1900	6	1959	3.5,7	HA3NS Sprint Memorial Contest	CW	RST, mbr or "NM"	radioamator.honlapites.hu
7	0000	8	2359	28	10-10 Int'l Open Season PSK Contest	Dig	Name, SPC, mbr	www.ten-ten.org
7	0000	7	2359	1.8-28	VK Shires Contest	CW Ph	RS(T), VK shire, or CQ zone	www.wia.org.au
7	0200	7	1459	1.8-28	Tisza Cup CW Contest	CW	RST, CQ zone	www.tiszacup.eu
7	0600	7	0800	7,14	Wake-Up! QRP Sprint	CW	RST, serial, suffix of previous QSO ("QRP" for 1st QSO)	qrp.ru
7	1200	8	0200	3.5-28	Atlantic Canada QSO Party	CW Ph	RST(T), province and county or SPC	acqp.ca
7	1300	8	0100	1.8-28,50,144	Kentucky QSO Party	CW Ph Dig	RS(T), KY county or SPC	www.kyqsoparty.org
7	1300	8	1300	50	UKSMG Summer Contest	CW Ph Dig	RST, serial, 6-char grid, mbr (optional)	uksmg.org
7	1500	8	1459	1.8-28	IARU Region 1 Field Day, CW	CW	RST, serial	www.darc.de
7	1500	8	1500	1.8-28	RSGB National Field Day	CW	RST, serial	www.rsgbcc.org
7	1800	8	2359	1.8-28,50	ARRL Int'l Digital Contest	Dig (no RTTY)	4-char grid	www.arrl.org/arrl-digital-contest
9	0000	9	0200	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or pwr	www.4sqrp.com
10	1800	10	1859	3.5	DARC CW-Training Contest	CW	RST, mbr or serial	www.darc.de
11	0030	11	0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	naqcc.info
11	1700	11	2100	432	VHF-UHF FT8 Activity Contest	Dig	4-char grid	www.ft8activity.eu
11	1900	11	2030	3.5	RSGB 80m Club Championship, CW	CW	RST, serial	www.rsgbcc.org
14	0000	14	2359	3.5-28	YB ORARI DX Contest	Ph	RS, "ORARI" or "DX"	www.oraricontest.id
14	1100	14	1300	14,21	Asia-Pacific Sprint, SSB	Ph	RS, serial	jsfc.org/apsprint/aprulen.txt
14	1200	15	1200	3.5-28	Portugal Day Contest	CW Ph	RS(T), CT district or serial	portugaldaycontest.rep.pt
14	1200	15	2359	1.8-28,50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
14	1400	14	1800	144,432	AGCW VHF/UHF Contest	CW	RST, serial, pwr, 6-char grid	www.agcw.de
14	1400	15	1400	50	REF DDFM 6m Contest	CW Ph	RS(T), serial, 4-char grid	concours.e-e.org
14	1500	15	1500	3.5-28	GACW WWSA CW DX Contest	CW	RST, CQ zone	www.gacw.ar
14	1800	16	0259	50 and up	ARRL June VHF Contest	CW Ph Dig	4-char grid	www.arrl.org/june-vhf
15	2300	16	0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or pwr	qrpcontest.com/pigrun
16	1200	16	1300	7	SARL Youth QSO Party	Ph	RS, age	mysarl.org.za
16	1900	16	2100	3.5-28	RSGB FT4 Contest	FT4	Signal report	www.rsgbcc.org
18	0030	18	0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	naqcc.info
18	1700	18	2100	1.2G	VHF-UHF FT8 Activity Contest	Dig	4-char grid	www.ft8activity.eu
19	0000	20	0300	14	Walk for the Bacon QRP Contest	CW	Max 13 WPM; RST, SPC, name, mbr or pwr	qrpcontest.com/pigwalk20
19	1900	19	2000	3.5-14	NTC QSO Party	CW	Max 25 WPM; RST, mbr or "NM"	pi4ntc.nl/ntcq
21	0000	22	2359	1.8-28	All Asian DX Contest, CW	CW	RST, 2-digit age	www.jarl.org
21	0000	22	2359	50	SMIRK Contest	CW Ph Dig	4-char grid, mbr (optional)	smirk.info/contest.html
21	1200	22	2359	All, no WARC	SKCC QSO Party	CW	RST, SPC, name, 4-char grid	www.skccgroup.com
21	1400	22	1400	50	IARU Region 1 50 MHz Contest	CW Ph	RS(T), serial, 6-char grid	www.iaru-r1.org
21	1400	22	1400	50	LZ International 6-Meter Contest	CW Ph	RS(T), serial, 6-char grid	www.radioclub-troyan.bg
21	1500	22	1500	1.8	Stew Perry Topband Challenge	CW	4-char grid	www.kkn.net/stew
21	1600	22	0400	3.5-28	West Virginia QSO Party	CW Ph Dig	RS(T), WV county or SPC	www.qsl.net/wvqp
21	1800	21	2359	3.5-14,18,21,24,28,2 repeaters	ARRL Kids Day	Ph	Name, age, QTH, favorite color	www.arrl.org/kids-day
22	0000	22	2359	1.8-28,50	Feld Hell Sprint	Dig	See rules	sites.google.com/site/feldhellsclub
22	0800	22	1400	50	WAB 50 MHz Phone	Ph	RS, serial, WAB square or country	wab.intermip.net/Contest Rules.php
25	0000	25	0200	1.8-28,50	SKCC Sprint	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
26	1900	26	2030	3.5	RSGB 80m Club Championship, SSB	Ph	RS, serial	www.rsgbcc.org
28	0600	28	1700	3.5-28	UFT QRP Contest	CW	RST, QRP/QRO, mbr or "NM"	www.uft.net
28	1200	29	1200	1.8-28	His Maj. King of Spain Contest, SSB	Ph	RST, EA province or serial	concursos.ure.es
28	1800	29	2059	All, except 60,30,17,12	ARRL Field Day	CW Ph Dig	Number of transmitters, operating class, ARRL/RAC Section or "DX"	www.arrl.org/field-day
30	1300	30	1400	1.8-28	QCX Challenge	CW	RST, name, SPC, rig	www.qrp-labs.com/party.html
30	1900	30	2000	1.8-28	QCX Challenge	CW	RST, name, SPC, rig	www.qrp-labs.com/party.html

There are a number of weekly contests not included in the table above. For more info, visit: www.qrpfoxhunt.org, www.nccsprint.com, and www.cwops.org. All dates and times refer to UTC and may be different from calendar dates in North America. Contests are not conducted on the 60-, 30-, 17-, or 12-meter bands. Mbr = Membership number. Serial = Sequential number of the contact. SPC = State, Province, DXCC Entity. XE = Mexican state. Listings in blue indicate contests sponsored by ARRL or NCJ. The latest time to make a valid contest QSO is the minute listed in the "Finish Time" column. *Data for Contest Corral is maintained on the WA7BNM Contest Calendar at www.contestcalendar.com and is extracted for publication in QST 2 months prior to the month of the contest. ARRL gratefully acknowledges the support of Bruce Horn, WA7BNM, in providing this service.*



June 28-29, 2025

ARRL Field Day is always held on the 4th full weekend in June.

[Field Day Rules](#)

[T-shirts & Gear](#)

New to Field Day? START HERE!

Field Day is ham radio's open house. Every June, more than 31,000 hams throughout North America set up temporary transmitting stations in public places to demonstrate ham radio's science, skill and service to our communities and our nation. It combines public service, emergency preparedness, community outreach, and technical skills all in a single event. Field Day has been an annual event since 1933, and remains the most popular event in ham radio.

We welcome the public to come learn more about ham radio! Use our Field Day Locator to search for a Field Day site near you.

Field Day on Social Media!

Click below to join the ARRL Field Day Facebook Group. Share your plans, tips and tricks to a successful Field Day. When posting content from Field Day, **use hashtag #ARRLFD** on all social media to receive 100 bonus points!

<https://www.facebook.com/groups/arrlfd/>



Club Nets

Second Wednesday Net

70 Centimeters (449.575 MHz Repeater)
@ 8 p.m. Local Time

Fourth Wednesday Net

2 Meters (147.24 MHz Repeater)
@ 8 p.m. Local Time

Fifth Wednesday Net

10 Meters (28.445 MHz)
@ 8 p.m. Local Time

Net Reports

From Joe Miko, WB3FMT

The Aero ARC had its 440 radio net on May 14th. The net had six participants, and the Net Ran from 8:00 to 8:31 pm.

W3PGA	NCS	Joe	Essex
K3POJ	Gregg		Rosedale
N3FQC	Don		Parkville
KB3QWC	Larry		Middle River
KB3VAE	Richard		Essex
N3RES	Ray		Lutherville

The Aero ARC had its 2 meter radio net on May 28th. The net had eight participants, and the Net Ran from 8:00 to 8:31 pm.

W3PGA	NCS	Joe	Essex
WA3QLY	Thomas		Middle River
KB3VAE	Richard		Essex
WA3TOY	Kurt		Pasadena
AC3F	Pat		Middle River
K3DON	Don		Joppatowne
KB3QWC	Larry		Middle River

Local Area Nets

Day	Time	Freq. (MHz)	Net Name
Daily	9 - 10 am	146.670	Oriole Net
Daily	6 pm	3.820	Maryland Emergency Phone Net
Daily	6:30 - 7 pm	146.670 PL 107.2	Baltimore Traffic Net
Daily	7 pm & 10 pm	3.557 CW	MD/DC/DE Traffic Net
2nd Tue	7:30 pm	146.670	Baltimore County RACES Net
2nd Wed	8 pm	449.575	Aero ARC Net
2nd & 4th Tue	7 pm	146.775, (-) PL 146.2	Harford County, MD, ARES
4th Wed	8 pm	147.240	Aero ARC Net
5th Wed	8 pm	28.445	Aero ARC Net
When activated by NOAA		147.030	SkyWarn (primary)

From the Skies Over Mt. Essex

For current solar activity, visit <https://www.solarham.com/>

SKY Events for June 2025

Time EDT EST + 1 Hr

- Jun 01 05:49 Mars 1.4°S of Moon
- 01 21:30 Regulus 1.8°S of Moon
- 02 21:41 FIRST QUARTER MOON
- 03 21:33 Moon at Descending Node
- 06 10:15 Spica 0.5°N of Moon
- 07 06:42 Moon at Apogee: 405553 km
- 10 06:25 Antares 0.3°N of Moon
- 11 03:44 FULL Strawberry MOON
- 11 23 Venus at Aphelion
- 16 22:05 Mars 0.7°N of Regulus
- 18 05:41 Moon at Ascending Node
- 18 15:19 LAST QUARTER MOON
- 18 23:47 Saturn 3.4°S of Moon
- 20 22:42 Summer Solstice
- 21 15:51 Mercury 4.8°S of Pollux
- 22 22:59 Pleiades 0.6°S of Moon
- 22 00:43 Moon at Perigee: 363178 km
- 24 11 Jupiter in Conjunction with Sun
- 25 06:31 NEW MOON
- 26 15:14 Pollux 2.5°N of Moon
- 27 01:02 Mercury 2.9°S of Moon
- 29 06:26 Regulus 1.5°S of Moon
- 29 21:05 Mars 0.2°S of Moon: Occn.
- 30 07:40 Tunguska meteor impact, 1908
- 30 23:46 Moon at Descending Node

Planet Lookout at mid-Month

Sunrise 05:38 EDT and Sunset 20:34 EDT

Mercury Evening Rise 06:51 Set 21:59; Mag -0.6-; Size 5.8 arc sec

Venus Morning 03:07, Sets 16:45, Mag -4.2 and 20.6 arc sec

Mars Evening Rises 10:49, Sets 00:23, Mag +1.4 and 5.2 arc sec

Jupiter Evening, rises 06:09, Sets 20:59, Mag -1.9 size 32.0 arc sec

Saturn Morning, rises 01:40, Sets 13:35, Mag +01 size 17.3 arc sec

Uranus Morning Rises 04:05, Sets 18:26; Mag +5.8 size 3.4 arc sec

Neptune Morning Rises 01:38, Sets 13:40, Mag +7.9 size 2.4 arc sec

An Evening With Mercury!

Mercury pops into the evening sky in early June and climbs higher as the month progresses, as it makes one of its finest appearances of 2025. The innermost planet is notoriously difficult to spot because it never strays far from the Sun in our sky and thus appears in twilight before sunrise or after sunset.

Your first view could come June 9. Mercury then lies 13° east of the Sun and stands 5° high in the west-northwest 30 minutes after sundown.

Glowing at magnitude -1.1, it should be visible through binoculars if you have a haze free and unobstructed horizon. But what makes this evening special is the presence of a guide "star": magnitude -1.9 Jupiter lies 3° below its planetary companion.

While Jupiter quickly disappears While Jupiter quickly disappears in the solar glare, Mercury continues to climb. On the evening of the 22nd, the inner planet appears 11° high a half-hour after sunset. It shines at magnitude -0.6, nearly two magnitudes brighter than Gemini's luminary, Pollux, which lies 5° to the north (upper right).

Four days later, on the 26th, a beautiful two-day-old waxing crescent Moon joins Mercury. The Moon lies 4° to the planet's right while Pollux and Castor (Gemini's second brightest star) appear farther to the right. The four objects form a nearly parallel line that lies 11° above the horizon, and they don't set until an hour later.

As the month closes, Mercury maintains its 11° altitude a half-hour after the Sun sets. Castor and Pollux remain companions to the right while the Moon now stands much higher in the west. The planet has faded a bit to magnitude 0.4 but should still be easy to spot against the twilight background. If you point a telescope at Mercury on the 30th, you'll find a disk that spans 8" and appears slightly less than half-lit. Although the planet doesn't reach greatest elongation until July 3/4, it then lies a bit lower in the sky and will be harder to see.

Mercury orbits the Sun every 88 days, so it puts on several other shows during 2025. The best of the bunch comes in early March, when the inner world climbs a couple of degrees higher after sunset than it does in June. For viewers who prefer the quieter hours before dawn, Mercury's best morning appearances arrive in the second half of August and in early December.

(June article Astronomy Magazine's SKY GUIDE 2025)

About the Aero Amateur Radio Club

Officers		Committees			
President	Joe Miko, WB3FMT	Repeater	Phil Hock, W3VRD Ken Erisman, NE3A Dave Brunner, AC3EO		
Vice President	Rob Ballou, AE3B	VE Testing	Pat Stone, AC3F		
Recording Secretary	Larry Hill, KB3QWC	Public Service	Bob Landis, WA3SWA		
Corresponding Secretary	Pat Stone, AC3F	Webmaster, Facebook	Rob Ballou, AE3B		
Treasurer	Tom Hawkins, WA3QLY	Trustee	Dave Frederick, KB3KRV (W3PGA) Jim Marshall, KC3FBL (AE3RO)		
Resource Coordinator	Ron Distler, W3JEH	Club Nets	Joe Miko, WB3FMT		
		Contests	Harry Rundall, AC3EK		
Newsletter Editor		Cathy Feinman, W3CLF			
Aerial archives dating to 2004 are available at https://w3pga.net/the-aerial-newsletter-library/					
Website: http://w3pga.net					
Facebook: https://www.facebook.com/W3PGAClub					
Email: w3pgaclub@gmail.com					

Meetings

We will be meeting in person at 7:30 PM ET in the Essex Sky Park hanger.
 If a Zoom link is available, it will be sent via email or inquire at w3pgaclub@gmail.com.
 All are welcome to attend.

W3PGA	2 M	INPUT: 147.84 MHz, OUTPUT: 147.24 MHz, PL 123.0
W3PGA	70 Cm	INPUT: 444.575 MHz, OUTPUT: 449.575 MHz, PL123.0
W3JEH	1.25 M	INPUT: 222.24 MHz, OUTPUT: 223.84 MHz