



# THE AERO AERIAL

THE NEWSLETTER OF THE AERO AMATEUR RADIO CLUB

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## Ham News

### In an Uncertain Time, Ham Radio Sees a Signal Boost

#### From INDY Week

Amateur Radio enthusiasts have been preparing for emergencies for decades. Now their expertise is drawing packed rooms of newcomers. [Read more](#)

### Win a Dream Station With the Latest Gear From Icom

#### From ARRL

Members who join – or renew – their ARRL membership any time from January 3 through December 31, 2025, are automatically entered into the ARRL Sweepstakes and could win a dream station from Icom. [Learn How](#)

## Meetings

MAY  
7 & 14

## Events

### The Great Hagerstown Hamfest

**Date:** 5/3/2025

**Location:** Maugansville, MD

**Sponsor:** Antietam Radio Association

**Website:** <https://antietamradio.org/events/hamfest>

### Maryland F.M. Association Hamfest

**Date:** 5/25/2025

**Location:** West Friendship, MD

**Sponsor:** Maryland F.M. Association Inc.

**Website:** <http://marylandfm.org>

### 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/>

## \$\$\$ Annual Dues \$\$\$

Be sure to send your \$24/person (\$26/household) to Thomas Hawkins, 2228 Southorn Rd, Middle River, MD 21220 ASAP. Payments were due March 31!

## More Ham News

### ARRL Announces Change in Atlantic Division Leadership

#### From ARRL

Martin J. "Marty" Pittinger, KB3MXM, has resigned as Vice Director of the ARRL Atlantic Division, effective April 28, 2025. [Learn more](#)

### Dayton Hamvention

#### From Dayton Amateur Radio Association

The 2025 theme, "Radio Independence," celebrates the freedom and resilience that have always defined amateur radio. From the earliest spark transmissions to today's global digital modes, hams have pushed the boundaries of innovation, service, and community. [Plan your trip](#)

### Amateur Radio Helps 2025 Boston Marathon

#### From ARRL

Over 280 amateur radio operators volunteered during the 129th running of the Boston Marathon on April 21, 2025. [Read more](#)

### Fram2 Astronaut Conducts First Amateur Radio Contacts from SpaceX Dragon

#### From ARRL

Rabea Rogge, LB9NJ/KD3AID, a private astronaut on the crew of the Fram2 mission, has conducted the first amateur radio contacts from aboard a SpaceX Dragon capsule. [Read more](#)

## More Events

### Firecracker Hamfest

**Date:** 7/5/2025

**Location:** Harrisburg, PA

**Sponsor:** Harrisburg Radio Amateurs Club

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

In case you  
missed it,



check out the  
April issue.

## SKYWARN, ARES, RACES

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

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.

The Harford County, MD, ARES on-air net meets on the second and fourth Tuesday of each month, 7:00 p.m. on the KC3FHC analog repeater, frequency 146.775, (-) PL tone 146.2. ARES/RACES membership is not a requirement to participate in the net.

## Training

### SKYWARN® Basics Class

May 8, 6-8 p.m., virtual, [Register here](#)

### 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](mailto: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

5/3/25, 2:30 pm: [Catonsville](#), walk-ins allowed

5/6/25, 5:45 pm: [Severna Park](#), register or call ahead

5/17/25, 9:00 am: [Laurel](#), walk-ins allowed

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

## 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

# May 2025

Check for updates and a downloadable PDF version online at [www.arrl.org/contest-calendar](http://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  |
|----------------|------|-----------|------|----------------|--|-----------|--|--|
| 1              | 0000 | 2         | 0300 | 7              | Walk for the Bacon QRP Contest                 | CW        | RST, SPC, name, mbr or pwr; max 13 WPM     | <a href="http://qrptest.com/pigwalk40">qrptest.com/pigwalk40</a>   |
| 1              | 1300 | 1         | 1900 | 3.5-28         | AGCW QRP/QRQ Party                             | CW        | RST, serial, class (A/B)                   | <a href="http://www.agcw.de/contest/qrq-qrp">www.agcw.de/contest/qrq-qrp</a>   |
| 1              | 1800 | 1         | 2200 | 28             | NRAU 10m Activity Contest                      | CW Ph Dig | RS(T), 6-char grid                         | <a href="http://nrau.net/nrau-contests-in-general">nrau.net/nrau-contests-in-general</a>   |
| 1              | 1900 | 1         | 2100 | 1.8-28,50      | SKCC Sprint Europe                             | CW        | RST, SPC, name, mbr or "none"              | <a href="http://www.skccgroup.com">www.skccgroup.com</a>   |
| 3              | 0001 | 4         | 2359 | 28             | 10-10 Int'l Spring Contest, CW                 | CW        | Name, mbr or "none," SPC                   | <a href="http://www.ten-ten.org">www.ten-ten.org</a>   |
| 3              | 0300 | 3         | 0859 | 3.5-28         | RCC Cup  | CW Ph     | RS(T), mbr or ITU zone                     | <a href="http://rccup.ru">rccup.ru</a>   |
| 3              | 0600 | 4         | 2359 | 2.3 GHz and up | SBMS 2.3 GHz and Up Contest and Club Challenge | CW Ph Dig | 6-char grid                                | <a href="http://w6ife.com">w6ife.com</a>   |
| 3              | 0800 | 3         | 1400 | All above 902  | Microwave Spring Sprint                        | CW Ph Dig | 6-char grid                                | <a href="http://sites.google.com/site/springvhfupsprints/2025-information">sites.google.com/site/springvhfupsprints/2025-information</a> |
| 3              | 1200 | 4         | 1159 | 3.5-28         | ARI International DX Contest                   | CW Ph Dig | RS(T), 2-letter province or serial         | <a href="http://www.arl.it">www.arl.it</a>   |
| 3              | 1200 | 4         | 1200 | 3.5-28,144     | F9AA Cup, PSK                                  | Dig       | RST, serial                                | <a href="http://www.site.urc.asso.fr">www.site.urc.asso.fr</a>   |
| 3              | 1300 | 4         | 0700 | 1.8-28         | 7th Call Area QSO Party                        | CW Ph Dig | RS(T), 5-letter state/county code or SPC   | <a href="http://7qp.org">7qp.org</a>   |
| 3              | 1500 | 4         | 0300 | 1.8-28         | Indiana QSO Party                              | CW Ph     | RS(T), IN county or SPC                    | <a href="http://www.hdxcc.org">www.hdxcc.org</a>   |
| 3              | 1700 | 4         | 2359 | 1.8-28,VHF     | Delaware QSO Party                             | CW Ph Dig | RS(T), DE county or SPC                    | <a href="http://www.fsarc.org">www.fsarc.org</a>   |
| 3              | 2000 | 4         | 2359 | 3.5-28         | New England QSO Party                          | CW Ph Dig | RS(T), New England county/state or SPC     | <a href="http://neqp.org/rules">neqp.org/rules</a>   |
| 4              | 1000 | 4         | 1400 | 7              | WAB 7 MHz Phone                                | Ph        | RS, serial, WAB square or SPC              | <a href="http://wab.internip.net/Contests.php">wab.internip.net/Contests.php</a>   |
| 4              | 2300 | 5         | 0300 | All, no WARC   | MIE 33 Contest                                 | CW Ph     | RS(T), age, "ME" or "MEJ" or none          | <a href="http://www.ztv.ne.jp">www.ztv.ne.jp</a>   |
| 6              | 0000 | 6         | 0200 | 3.5-28         | ARS Spartan Sprint                             | CW        | RST, SPC, pwr                              | <a href="http://ars-qrp.com">ars-qrp.com</a>   |
| 6              | 0100 | 6         | 0159 | 1.8-28,50      | Worldwide Sideband Activity Contest            | Ph        | RS, age group (OM, YL, Youth YL, or Youth) | <a href="http://wwsac.com/rules.html">wwsac.com/rules.html</a>   |
| 7              | 1700 | 7         | 2100 | 144            | VHF-UHF FT8 Activity Contest                   | Dig       | 4-char grid                                | <a href="http://www.ft8activity.eu">www.ft8activity.eu</a>   |
| 10             | 0000 | 10        | 2359 | 3.5-28         | FISTS Saturday Sprint                          | CW        | RST, first name, mbr or "0," SPC           | <a href="http://fistsna.org">fistsna.org</a>   |
| 10             | 1200 | 11        | 1159 | 1.8-28         | CQ-M International DX Contest                  | CW Ph     | RS(T), serial                              | <a href="http://cqmq.srr.ru/en/rules">cqmq.srr.ru/en/rules</a>   |
| 10             | 1200 | 11        | 1200 | 3.5-28         | VOLTA WW RTTY Contest                          | Dig       | RST, serial, CQ zone                       | <a href="http://www.contestvolta.it/rules.pdf">www.contestvolta.it/rules.pdf</a>   |
| 10             | 1200 | 11        | 2359 | 1.8-28,50      | SKCC Weekend Sprintathon                       | CW        | RST, SPC, name, mbr or "none"              | <a href="http://www.skccgroup.com">www.skccgroup.com</a>   |
| 10             | 1700 | 11        | 0300 | 7,14,21,28     | Canadian Prairies QSO Party                    | CW Ph     | RS(T), VE4/5/6 district code or SPC        | <a href="http://cpqp.ve6hams.ca">cpqp.ve6hams.ca</a>   |
| 10             | 2300 | 11        | 0300 | 50             | 50 MHz Spring Sprint                           | CW Ph Dig | 4-char grid                                | <a href="http://sites.google.com/site/springvhfupsprints/2025-information">sites.google.com/site/springvhfupsprints/2025-information</a> |
| 12             | 0000 | 12        | 0200 | 1.8-28         | 4 States QRP Group Second Sunday Sprint        | CW Ph     | RS(T), SPC, mbr or pwr                     | <a href="http://www.4sqrp.com">www.4sqrp.com</a>   |
| 12             | 1900 | 12        | 2030 | 3.5            | RSGB 80m Club Championship, SSB                | Ph        | RS, serial                                 | <a href="http://www.rsgbcc.org">www.rsgbcc.org</a>   |
| 13             | 0100 | 13        | 0159 | 1.8-28,50      | Worldwide Sideband Activity Contest            | Ph        | RS, age group (OM, YL, Youth YL, or Youth) | <a href="http://wwsac.com/rules.html">wwsac.com/rules.html</a>   |
| 13             | 1900 | 13        | 2029 | 3.5            | DARC FT4 Contest                               | FT4       | RST, 4-char grid                           | <a href="http://www.darc.de">www.darc.de</a>   |
| 14             | 1700 | 14        | 2100 | 432            | VHF-UHF FT8 Activity Contest                   | Dig       | 4-char grid                                | <a href="http://www.ft8activity.eu">www.ft8activity.eu</a>   |
| 15             | 0000 | 16        | 0300 | 14             | Walk for the Bacon QRP Contest                 | CW        | RST, SPC, name, mbr or pwr; max 13 WPM     | <a href="http://qrptest.com/pigwalk20">qrptest.com/pigwalk20</a>   |
| 15             | 1900 | 15        | 2000 | 3.5-14         | NTC QSO Party                                  | CW        | RST, mbr or "NM"; max 25 WPM               | <a href="http://pi4ntc.nl/ntcqp">pi4ntc.nl/ntcqp</a>   |
| 17             | 0600 | 17        | 2100 | 3.5-28         | UN DX Contest                                  | CW Ph     | RS(T), Kazakhstan district code or serial  | <a href="http://undxc.kz/rules-eng">undxc.kz/rules-eng</a>   |
| 17             | 0800 | 18        | 1100 | 3.5            | NZART Sangster Shield Contest                  | CW        | RST, serial or branch number (if ZL)       | <a href="http://www.nzart.org.nz">www.nzart.org.nz</a>   |
| 17             | 1200 | 17        | 1600 | 14,21,28,50    | Feld Hell Sprint                               | Dig       | See rules                                  | <a href="http://sites.google.com/site/feldhellclub">sites.google.com/site/feldhellclub</a>   |
| 17             | 1200 | 18        | 1200 | 1.8-28         | His Maj. King of Spain Contest, CW             | CW        | RST, EA province or serial                 | <a href="http://concurso.ure.es">concurso.ure.es</a>   |
| 17             | 1200 | 18        | 1200 | 3.5-28         | EU PSK DX Contest                              | Dig       | EU: RST + EU area; non-EU: RST + serial    | <a href="http://eupsk.club">eupsk.club</a>   |
| 17             | 1400 | 18        | 0200 | 1.8-28,50,144  | Arkansas QSO Party                             | CW Ph Dig | RS(T), AR county or SPC                    | <a href="http://www.arkqp.com">www.arkqp.com</a>   |
| 17             | 2100 | 18        | 0200 | 3.5            | Baltic Contest                                 | CW Ph     | RS(T), serial                              | <a href="http://www.lrsf.lt/en">www.lrsf.lt/en</a>   |
| 18             | 0000 | 18        | 2359 | 3.5-28         | FISTS Sunday Sprint                            | CW        | RST, SPC, first name, mbr or "0"           | <a href="http://fistsna.org">fistsna.org</a>   |
| 18             | 2300 | 19        | 0100 | 1.8-28         | Run for the Bacon QRP Contest                  | CW        | RST, SPC, mbr or pwr                       | <a href="http://qrptest.com/pigrun">qrptest.com/pigrun</a>   |
| 19             | 1900 | 19        | 2100 | 3.5-28         | RSGB FT4 Contest                               | Dig       | Signal report                              | <a href="http://www.rsgbcc.org">www.rsgbcc.org</a>   |
| 20             | 0100 | 20        | 0159 | 1.8-28,50      | Worldwide Sideband Activity Contest            | Ph        | RS, age group (OM, YL, Youth YL, or Youth) | <a href="http://wwsac.com/rules.html">wwsac.com/rules.html</a>   |
| 21             | 1700 | 21        | 2100 | 1.2G           | VHF-UHF FT8 Activity Contest                   | Dig       | 4-char grid                                | <a href="http://www.ft8activity.eu">www.ft8activity.eu</a>   |
| 21             | 1900 | 21        | 2030 | 3.5            | RSGB 80m Club Championship, Data               | Dig       | RST, serial                                | <a href="http://www.rsgbcc.org">www.rsgbcc.org</a>   |
| 22             | 0030 | 22        | 0230 | 3.5-14         | NAQCC CW Sprint                                | CW        | RST, SPC, mbr or pwr                       | <a href="http://naqcc.info/sprint_rules.html">naqcc.info/sprint_rules.html</a>   |
| 24             | 0000 | 25        | 2359 | 1.8-28         | CQ WW WPX Contest, CW                          | CW        | RST, serial                                | <a href="http://www.cqwpw.com/rules.htm">www.cqwpw.com/rules.htm</a>   |
| 26             | 0000 | 26        | 0100 | 1.8-28         | QRP ARCI Hootowl Sprint                        | CW        | RST, SPC, mbr or pwr                       | <a href="http://qrparci.org">qrparci.org</a>   |
| 27             | 0100 | 27        | 0159 | 1.8-28,50      | Worldwide Sideband Activity Contest            | Ph        | RS, age group (OM, YL, Youth YL, or Youth) | <a href="http://wwsac.com/rules.html">wwsac.com/rules.html</a>   |
| 28             | 0000 | 28        | 0200 | 1.8-28,50      | SKCC Sprint                                    | CW        | RST, SPC, name, mbr or "none"              | <a href="http://www.skccgroup.com">www.skccgroup.com</a>   |
| 29             | 1900 | 29        | 2030 | 3.5            | RSGB 80m Club Championship, CW                 | CW        | RST, serial                                | <a href="http://www.rsgbcc.org">www.rsgbcc.org</a>   |
| 30             | 0000 | 1         | 2359 | 1.8-28,50      | PODXS 070 Club Three Day Weekend Contest       | Dig       | mbr or "0000"                              | <a href="http://www.podxs070.com">www.podxs070.com</a>   |
| 31             | 0000 | 31        | 2359 | 1.8-28,50      | Feld Hell Sprint                               | Dig       | See rules                                  | <a href="http://sites.google.com/site/feldhellclub">sites.google.com/site/feldhellclub</a>   |
| 31             | 1200 | 1         | 1159 | 1.8-28         | Russian WW MultiMode Contest                   | CW Ph Dig | RST(Q), 2-char oblast or serial            | <a href="http://www.rdrclub.ru">www.rdrclub.ru</a>   |

There are a number of weekly contests not included in the table above. For more info, visit: [www.qrpfoxhunt.org](http://www.qrpfoxhunt.org), [www.ncccsprint.com](http://www.ncccsprint.com), and [www.cwops.org](http://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](http://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!

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**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!

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**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 ran two nets in April.

The Aero ARC had a 440 net on April 9th. It ran from 20:00 to 20:09 Local there were two people on the Net:

|        |     |      |       |
|--------|-----|------|-------|
| W3PGA  | NCS | Joe  | Essex |
| KB3VAE |     | Rich | Essex |

The Aero ARC had a 2-meter net on April 23rd. It ran from 20:00 to 20:32 Local there were 6 people on the net.

|        |     |       |              |
|--------|-----|-------|--------------|
| W3PGA  | NCS | Joe   | Essex        |
| KB3VAE |     | Rich  | Essex        |
| KC3AID |     | Marty | Rosedale     |
| KB3QWC |     | Larry | Middle River |
| K3DON  |     | Don   | Joppatowne   |
| KC3YGF |     | Jeff  | 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 | <a href="#">Baltimore Traffic Net</a> |
| 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                          |
| 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 May 2025

Time EDT GMT- 4 Hrs EST - GMT 5

|        |       |  |
|--------|-------|--|
| May 02 | 20:02 | Pollux 2.1°N of Moon                         |
| 03     | 19:12 | Mars 2.1°S of Moon                           |
| 04     | 09:52 | FIRST QUARTER MOON                           |
| 04 22  |       | Eta-Aquarid Meteor Shower<br>>40 meteors/hr. |
| 05     | 13:58 | Regulus 2.0°S of Moon                        |
| 07     | 19:44 | Moon at Descending Node                      |
| 10     | 03:43 | Spica 0.4°N of Moon                          |
| 10     | 20:49 | Moon at Apogee: 406245 km                    |
| 12     | 12:56 | FULL Flower MOON                             |
| 14     | 00:10 | Antares 0.3°N of Moon                        |
| 17 21  |       | Uranus in Conjunction with Sun               |
| 20     | 07:59 | LAST QUARTER MOON                            |
| 22     | 04:05 | Moon at Ascending Node                       |
| 22     | 13:51 | Saturn 2.8°S of Moon                         |
| 23     | 19:52 | Venus 4.0°S of Moon                          |
| 25     | 21:37 | Moon at Perigee: 359023 km                   |
| 26     | 23:02 | NEW MOON                                     |
| 30 00  |       | Mercury at Superior Conjunction              |
| 30     | 04:13 | Pollux 2.3°N of Moon                         |
| 31 09  |       | Mercury at Perihelion                        |
| 31 22  |       | Venus at Greatest Elong: 45.9°W              |

## Planet Lookout at mid-Month

Sunrise 05:51 EDT and Sunset 20:13 EDT

EDT Arc Sec

**Mercury** Evening Rises 5:34, Sets 20:25 Mag +0.7 and 8.7  
**Venus** Morning Rises 04:56, Sets 17:11 Mag -4.5 and 47  
**Mars** Evening Rise 12:12, Sets 03:00, Mag +0.7 and 7.3"  
**Jupiter** Evening Rises 09:16, Sets 00:04, Mag -2.0 size 34.7  
**Saturn** Evening Rises 05:27, Sets 17:10, Mag +1.2 size 15.9  
**Uranus** Evening 07:54 Sets 22:09; Mag +5.8 size 3.4"  
**Neptune** Evening Rises 05:34 Sets 17:32; Mag +8.0 size 2.4"

## There's a Time for the Seasons

The planet Earth experiences four seasons. In the Northern hemisphere we have Spring, Summer, Fall and Winter at the same time the Southern hemisphere has Fall, Winter, Spring and Summer. I am not sure I would like Christmas in a hot climate, like they have in

Australia, I would prefer to have my Christmas as they have in Austria.

But it not just the north or south of the equator that makes a difference, it's your latitude and whether you live on the coast line or mid-continent. Here in Maryland we get four seasons, hot and muggy is our name for summer. If you live in upstate New York, you have winter, Mudd, almost summer and fall.

In reality there are multiple dates for the seasons: 1 Astronomical and 2 Meteorological. The astronomical seasons are defined by the Earth's position in its orbit around the Sun. These are somewhat fixed dates: Spring Vernal Equinox March 20, Summer Solstice, June 21, Fall Autumnal Equinox September 21 and Winter Solstice December 21.

The other one is the Meteorological Season which is based on the Annual Cycle of Temperature. The Spring date using Meteorological standards starts on March 1st and goes to the last day of May; Summer starts on June 1st, Fall on September 1st and Winter on December 1st.

The Annual Cycle of Temperature generally follows the following dates:

- Maximum temperature (late July)
- Minimum temperature (late January)
- Radiant energy absorbed (high point about June 21)
- Radiant energy absorbed (low point about December 21)

The precise duration for the northern seasons are: spring 92.7 days, summer 93.65, autumn and winter 88.99 days.

Just a note in January we are 2 million miles closer to the sun than in July. In January the sunlight striking the Earth is 6% stronger than in July, but not enough to offset the effect of the tilted axis. And January is still colder than July in the Northern Hemispheres. Ref *National Audubon Society Field Guide to Weather* pgs 67-74



## About the Aero Amateur Radio Club

| Officers  |                     | Committees           |  |
|---|---------------------|----------------------|--|
| President   | Joe Miko, WB3FMT    | Repeater             | Phil Hock, W3VRD<br>Ken Erisman, NE3A<br>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)<br>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 <a href="https://w3pga.net/the-aerial-newsletter-library/">https://w3pga.net/the-aerial-newsletter-library/</a> |                     |                      |  |
| Website: <a href="http://w3pga.net">http://w3pga.net</a>  |                     |                      |  |
| Facebook: <a href="https://www.facebook.com/W3PGAClub">https://www.facebook.com/W3PGAClub</a>   |                     |                      |  |
| Email: <a href="mailto:w3pgaclub@gmail.com">w3pgaclub@gmail.com</a>   |                     |                      |  |

### Meetings

We will be meeting virtually at 7:30 PM ET (Zoom link will open about 6:00 PM).  
Check your email for the Zoom meeting link or inquire at [w3pgaclub@gmail.com](mailto:w3pgaclub@gmail.com).

All are welcome to attend.

Zoom link for May 7 (Meeting ID: 897 7385 8795, Passcode: 147240):  
<https://us02web.zoom.us/j/89773858795?pwd=6b19azF3EFw0tT2cXh9TVbTcP1Fjyi.1>

|              |               |  |
|--------------|---------------|--|
| <b>W3PGA</b> | <b>2 M</b>    | INPUT: 147.84 MHz, OUTPUT: 147.24 MHz, PL 123.0  |
| <b>W3PGA</b> | <b>70 Cm</b>  | INPUT: 444.575 MHz, OUTPUT: 449.575 MHz, PL123.0 |
| <b>W3JEH</b> | <b>1.25 M</b> | INPUT: 222.24 MHz, OUTPUT: 223.84 MHz            |