



We're ready for it!

The Aero Aerial

The Newsletter of the Aero Amateur Radio Club
Middle River, MD
Volume 15, Issue 1
January 2019

Editor Georgeann Vleck KB3PGN

Officers

President	Joe Miko WB3FMT
Vice-President	Jerry Cimildora N3VBJ
Recording Secretary	Lou Kordek AB3QK
Corresponding Secretary	Pat Stone AC3F
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VE Testing	Pat Stone AC3F
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Webmaster, Facebook	Jerry Cimildora N3VBJ
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Club Nets	Joe Miko WB3FMT
Contests	Bob Venanzi ND3D Charles Whittaker KB3EK

Website: <http://w3pga.org>

Facebook: <https://www.facebook.com/pages/Aero-Amateur-Radio-Club/719248141439348>

About the Aero Amateur Radio Club

Meetings

The Aero Amateur Radio Club meets at 7:30 pm on the first and third Wednesdays of the month at Essex SkyPark, 1401 Diffendall Road, Essex. Meetings begin at 7:30 p.m. local time. Meetings are canceled if Baltimore County Public Schools are closed or dismiss early.

Repeaters

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

Club Nets

Second Wednesday Net – 10 Meters (28.445 MHz) @ 8 p.m. Local Time

Fourth Wednesday Net – 2 Meters (147.24 MHz Repeater) @ 8 p.m. Local Time

Fifth Wednesday Net – 70 Centimeters (449.575 MHz Repeater) @ 8 p.m. Local Time

Radio License Exams

The Aero Amateur Radio Club sponsors Amateur Radio License Exams with the ARRL VEC. Examination sessions are throughout the year. Walk-ins are welcome; arrive no later than 30 minutes after start time. \$15 charge.

2019 Examination Schedule

Time:	1:15 pm		
Dates:	Sunday, Jan. 6		
Where:	White Marsh Library		

White Marsh Library, 8133 Sandpiper Circle, White Marsh, MD

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

LOCAL AREA NETS

Day	Time	Freq. (MHz)	Net Name
Daily	9 – 10 am	145.330	Oriole Net
Daily	6 pm	3.820	Maryland Emergency Phone Net
Daily	6:30 – 7 pm	145.330 no PL	Balto. Traffic Net (b/u 146.670 PL 107.2)
Daily	7 pm & 10 pm	3.643	MD/DC/DE Traffic Net
2 nd Tue	7:30 pm	146.670	Baltimore County RACES Net
2 nd Wed	8 pm	28.445	Aero ARC Net
4 th Wed	8 pm	147.240	Aero ARC Net
5 th Wed	8 pm	449.575	Aero ARC Net
Fridays	7:30 pm	145.330	Back in the Day Net
When activated by NOAA		147.030	SkyWarn (primary)

From the President's Desk

MMXVIII – A Year in Review

By Pat Stone AC3F & Joe Miko WB3FMT

The Aero Amateur Radio Club had a great year. The membership continued to increase; we went from 49 members in 2017 to 52 in 2018. The members were engaged in many operating activities and public service events.

The year kicked off with the club's 25 Days and 25 Nights of Fun Contest. And this year's winner was, Joe WB3FMT by default. Remember the new contest starts on January 1st, 2019.

Business at the Aero Club monthly Nets was brisk! There were **28** nets throughout 2018. The numbers of nets were 10 meters, 11; 2 meters, 11, .7 meters, 3 and 3 Snow Net on 2 meters, 1 on 220. One of the 2-meter nets was done in simplex, when the repeater was down. A total of **216** people checked in and the nets ran a combined **16 hr. 21 min.** We might have done better, but we lost 3 net opportunities due to a power problem at the transmit site, a bad antenna switch at my QTH, and a thunderstorm. We had local members and hams from Lutherville and Baltimore City check into the nets.

I didn't forget about the club's election held on May 16th. It happened so fast, people were elected before the polls closed. Maybe next year we should think of redistricting? As recall, I never saw or heard the train as it went by the station. The entire election lasted about 10^{-3} sec.

But the members weren't only busy with our nets. A number of members are regulars on the morning Holly Net at 7:00 am. The Baltimore Traffic Net held daily at 6:30 pm also has a number of Aero members as regular check-ins, as well as having 3 regular net control operators working during the daily nets. Those ops are Keon, KE3HAY, Joe WB3FMT and Rob KC3ROB. Jerry N3VBJ is also the North East Region SKYWARN Coordinator and Royal Farm "Fried Chicken" supplier to his flight crew based out of Martin State Airport.

Speaking about Brass, Patricia AC3F has begun teaching a CW class. Here's her report:

At the beginning of August I emailed all AERO members asking if any of them would be interested in learning CW and/or sharpening their skills. I received 12 responses, and after an initial in-person training session at our August 15th meeting, "THE AERO AMATEUR RADIO CLUB MORSE CODE TRAINING NET" was born. Our first net was held on Friday, Aug. 17th and we have been on the air an average of 2 to 3 times per week ever since.

We have 3 to 4 stations that check in regularly and several others who participate via email. Using computer-generated files along with straight keys and oscillators, we transmit Morse code on 146.55. We have had stations check in periodically from other areas including one from Chester, Pa.

I am grateful for the interest and dedication these folks have shown for Mr. Morse and his code. I am also proud to report that all of those I've had the pleasure of working with these past 4+ months are becoming true "Brass Pounders". One of them is already making CW QSOs and another has also been on the air using CW. I am sure that all of them will be on the air using code within the next several months.

I hope you will consider checking into one of our "CW Training Nets". We meet on the air every Sunday and Friday and every 2nd and 4th Tuesday of the month at 8 pm on 146.55. We have a lot of fun and would love to hear from you. Hope you will consider joining our "fine fisted folks" one evening during our CW training nets.

The VE Testing Program was successful. For the 2018 year Pat AC3F and her VE's worked at 6 test sessions, 5 at the White Marsh public library and 1 at the Fix Base Operator (FBO) building at the Essex Skypark on Field Day Saturday. All told we tested **29** candidates, **26** were successful. The breakdown was **12** techs, **10** generals, and **4** extras. Of these, **16** were new hams.

On the Public Service front Aero member, Bob WA3SWA continued to assist BRATS for various Multiple Sclerosis Bike Tours and Walks and also participated in other area clubs activities.

Club members helped with other Public Service Activities this year. The American Diabetes Association's "Tour de Cure," was held on Sunday, June 3, 2018, we had at least 11 members from the club, and 4 people from other clubs assisted in this 13.3, 29.3- and 63.3-mile bike ride which took place in Baltimore County, starting and ending at Goucher College.

Field Day 2018 results are official. Nationwide there were **78** stations in the 5A class, we came **40** out of 78 entries. Our score of 2,898 with QSO of 1,348 and Bonus Points of 1,550 with 590 contacts was much more than that. We had 21 AERO members participate, 10 Guests, and 9 visitors join us at the Essex Skypark, as well as a number of people who took tests at the VEC session. During the 24 contest hours we made 590 contacts, 84 CW, 0 Digital, and 506 on Phone. We were able to contact 41 States, Canada, Puerto Rico and DX with Thailand using CW thanks to Pat AC3F. I am looking forward to FD19 the weekend of June 22nd and 23rd.

The club was ready to help to provide an Amateur Radio Exhibit for the Essex Skypark Wings and Wheels fly-in event held on September 16th. But a Hurricane and Tropical Storm the week earlier put a halt to the event for safety reasons. Better Luck next year.

Unfortunately, the club was unable to participate in the October Boy Scouts Jamboree at the B&O Museum. We were given only a 1 week notice and could not get operators and needed equipment and supplies ready in that time frame. I spoke with Scouting personnel and asked them to please notify the club in early September to see if we can help for next year.

Keon, KE3HAY, was instrumental in having Aero ARC participate in the 2018 ARRL November Sweepstakes which was a fun contest with tough conditions this year. We set up one radio, an

ICOM 756 Pro II (No touch screen like the *Yaesu 991* author note) running 100 watts into an 80M OCF Windom antenna running parallel to the runway.

We managed to make 42 contacts, 17 sections with horrible 40- and 75-meter conditions. I would like to thank the operators who came by to operate and play radio. Hopefully the contest season in 2019 will be better than what we have been experiencing over the last year or two. All told we had 10 members show up for the activities, 2 children Todd and Lisa, and one visitor Max Lichey's son, Don. Thanks to the members who helped setup and breakdown.

A brief note about the Aero 2018 Christmas Party, WOW!! We had great food, tasting and quantity and fantastic friends. We had 23 people attending, 20 members with 2 guest and 1 visiting Ham. As promised last year, there was no business meeting. The club had a double drawing for the 50/50, Phil W3VRD and Richard KB3VAE won. Warren W3JDF donated 4 mini flashlights the winners of this drawing were: Dave KA3SNY, Larry KB3QWC, Keon KE3HAY, Charlette a guest. And thanks, every one for the great selection of Christmas cookies and cakes.

Before I close, I would like to thank everyone who made and helped with the monthly presentations. The 2018 hurricane season is now closed, but the recent snow storm that hit Virginia and the Carolinas the weekend of the 8th is a fresh reminder of what may come! It is now a good time to reflect and make any needed changes.

Again thanks to all of the members of the Aero Amateur Radio club, for all your help and continued support. A club is only as good as its members want it to be!

Remember the only purpose of Hate is to "destroy the container it's in."

So, as we say "Eppure si muove ancora" and "bonum" to 2018 and look ahead to the challenges and hopes of the New Year.

NET REPORTS

12-12-18: 28.445 MHz, 20:00 local to 20:26 local.

W3PGA NCS Joe Essex, W3JEH Ron Perry Hall, W3VRD Phil Essex, KB3VAE Richard Middle River, KC3FBL Jim Parkville, N3CVA Ian Baltimore City

5 members and 1 guest on the net

12-26-18: 147.24r MHz, 20:00 local to 20:27 local.

W3PGA NCS Joe Essex, AC3F Pat Middle River, KC3FBM Franklin Parkville, W3JEH Ron Perry Hall, KC3FBL Jim Parkville, K3ANJ Gregg Lutherville, KB3JVP Ken Middle River

7 members and 1 guest on the net.

Reminders

Aero Snow Plan

If Baltimore County Schools are **closed** on a meeting Wednesday, then there will be **No meeting**, in its place there will be a 2 meter net at 8:00 pm.

If schools have an **early dismissal** due to weather on a meeting Wednesday, there will be **no meeting** at the Essex Skypark, and we will have a 2 meter net at 8:00 pm.

If Baltimore Co has a **late opening** (2 hours late), then there will be a **meeting** at the airport.

If **we get snow** on the days before the meeting, I will drive to the airport to see if it is safe to have a meeting. They don't plow the parking lot. I will send out an email as to whether there will be a meeting.

If you have any questions, please call me at 443-956-0197.

Joe Miko

Club Dues

Dues are due in January. See Club Treasurer Warren at the next meeting.



VE CORNER
by Pat Stone, AC3F

Our first test session of 2019 will be held on Sunday, January 6 at 1:15PM in the White Marsh Library. Hope to see you then.

AERO AMATEUR RADIO CLUB 624 Hours, 26 DAYS AND 26 NIGHTS OF FUN

When: 00:00 UTC Tuesday 01 January 2019 (19:00 EST Monday 12/31/18)
Thru 04:59 UTC Sunday January 27, 2019 (23:59 EST Saturday 1/26/18)

Eligibility: All current AERO members.

Station: You may operate from any amateur radio station...from your home, a guest's home, terrestrial mobile, maritime mobile, aeronautical mobile, local nets (**all the stations on the net count if you list the call signs**), here or abroad.

A station may even be operated remotely!

Bands & Modes: Work any legal mode and band allowed by your license class.

Echo Link, IRLP and Wires X contacts are permitted.

Repeater contacts are OK.

Scoring:

Two (2) points per AM or SSB contacts
Three (3) points per FM contact
Four (4) points per RTTY contact
Five (5) points per CW contact.
Six (6) points per DIGITAL contact
Seven (7) points per SSTV contact
Ten (10) points per ATV contact

Bonus Points:

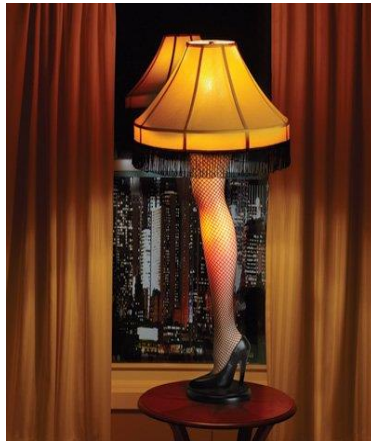
Any contact on 6 meters any mode 25 points per contact.
Any contact via remote operation 50 points per contact.
Any contact above the 70 cm band 100 points per contact.
Any satellites including the ISS contacts 200 points per contact.

Any EME (earth-moon-earth) contact 1000 points per contact per team member

Other Info: The same station may be worked any number of times.
The Winner of this contest gets "*the lamp*" and will run the contest next year.

Results: E-mail log sheets or spread sheets to **WB3FMT** at joseph.miko@verizon.net by **February 20, 2019**. Or drop them off to me at a meeting. Contest results will be reported at the **March 6, 2019** meeting of the AERO Club!

HAVE FUN - - TRY SOMETHING NEW !



UPCOMING HAMFESTS and EVENTS

Sunday, January 20, 2019: 6th Radio WinterFest!

Location: National Electronics Museum, 1745 W Nursery Rd, Linthicum Hts, MD 21090

Sponsor: Mid-Atlantic Antique Radio Club

Website: <http://www.maarc.org/>

Talk-in: 146.7600(-) PL107.2, WA3DZD Jessup, MD

Combination MAARC - NEM winter meet to be held at the National Electronic Museum near BWI airport. This will be an all-day indoor event. Full details in the member's December issue of Radio Age. General admission: 9:00 AM (Vendors admitted at 8:00 AM) - Auction at Noon. There is a \$7 fee for admission; \$5 admission for senior citizens. NEM member are admitted for free.

Sunday, January 27, 2019: Maryland Mobileers Post Holiday Hamfest

Odenton Fire Hall, 1425 Annapolis Rd, Odenton, MD 21113

Sponsor: Maryland Mobileers Amateur Radio Club

Website: <https://sites.google.com/site/marylandmobileers/hamfests-1/hamfest-2>:

Talk-In: 146.805(-) PL 107.2, W3CU in Millersville, MD

Contact: ka2jai@arrl.net for Amateur radio license exams

Saturday, February 2, 2019: Richmond Frostfest

Location: Richmond Raceway Complex, 600 East Laburnum Avenue, Richmond, VA 23218

Website: <http://frostfest.com>

Sponsor: Richmond Amateur Telecommunications Society (RATS)

Type: ARRL Convention

Talk-In: 146.880+ (PL 74.4)

Contact: Robert Marshall , KI4MCW, PO Box 70613, Henrico, VA 23255, Phone: 804-620-7287

Email: ki4mcw@frostfest.com

Take The Bus To FrostFest!!!

FrostFest is the largest winter Amateur Radio Event in the Mid-Atlantic Region. It's coming up again on Saturday, February 2, 2019 at the Richmond Raceway Complex in Richmond, VA. You know you want to be there, but likely you don't want to drive the two hours plus each way.

The Anne Arundel Radio Club has the answer. Take the bus. We are looking for 45 to 55 hams who can make their way to the Park & Ride at the intersection of U.S. Rte. 50 and MD Rte. 424 by 6:00 am on the morning of FrostFest. That's when we plan to leave, returning to the same location between 4:00 pm and 6:00 pm later that day. The \$45 fee includes early admission to FrostFest at 8:00 am, 30 minutes before the gates open to the general public. Talk ham radio all the way down and back, or take a nap. It's up to you.

Right now we are just collecting info on those interested, but with enough interest we will start collecting funds. We need to have a minimum number of paid-up riders by January 1 or we will have to cancel. So please, [click here](#) to let us know you want join us. We'd love to take you with us to FrostFest.

Source: www.W3VPR.org

Sunday, March 24, 2019: WINTERFEST

Location: Northern Virginia Community College, Annandale Campus, Richard J. Ernst Cultural Center, 8333 Little River Turnpike, Annandale, VA 22003

Sponsor: Vienna Wireless Society

Website: <http://viennawireless.net/wp/events/winterfest>

Talk-In: 146.910- (77.0), WD5DBC Tyson's Corner, VA

Contact: Harry Mamaux, K3NF, Phone: 703-395-6721 | Email: k3nf@cox.net

Saturday, April 27, 2019: Delaware State Convention (Delmarva Radio & Electronics EXPO)

Location: Cheer Community Center, 20520 Sand Hill Road, Georgetown, DE 19947

Sponsor: Sussex Amateur Radio Association

Website: <http://radioelectronicsexpo.com>

Talk-In: 147.090+ (PL 156.7), WS3ARA Millsboro, DE - Sussex ARA

Contact: Herbert Quick, KF3BT, Phone: 302-629-4949, Email: herb@hamiltongraphics.com

Saturday, April 27, 2019: York Hamfest

Location: Elicker's Grove Park, 511 Roth Church Road, Spring Grove, PA 17362

Sponsor: York Hamfest Foundation

Website: <http://www.yorkhamfest.org>

Talk-In: 147.330+ (PL 123.0), W3MUM PennMar, PA

Contact: Duane Sterner, KB3QLQ, Phone: 717-332-1385, Email: duane.sterner@yahoo.com

You may view upcoming Hamfests at: <http://www.arrl.org/hamfests-and-conventions-calendar>

IMPORTANT – Changes to accessing FRN and ULS date

----- Forwarded Message -----

From: Doug Wittich <wittich@comcast.net>

To: NEMARC Group <NEMARC@groups.io>; NEMARC-VE <NEMARC-VE@groups.io>; N3WD <n3wd@n3wd.com>; Rusty N3WKE <n3wke@comcast.net>; Patricia Stone <ac3fac3p@yahoo.com>

Sent: Monday, December 3, 2018, 3:42:35 PM EST

Subject: Coming changes to access your FRN and ULS license data

Beginning in March, access to the FRN data will not be direct; you will have to access through the CORES, commission registration service.

You can go ahead now and set it up. In the end, it will really not be a lot different than it is now, except you can't go directly to fcc.gov/uls anymore.

To create your CORES id, and associate it with your FRN, take these steps:

<https://apps.fcc.gov/cores/userLogin.do>

Look at the middle box, labeled "Need a Username?" and has a Register button in the middle. Use the Register button

This basically requires only an email address as your user name, and your full name. I suggest using the same email address as you have for your current FRN access.

An email will be sent to you to confirm your user id. Respond to it.

Then log in again at <https://apps.fcc.gov/cores/userLogin.do>. this time, select the left box to log in. You should see a list of options on a page: <https://apps.fcc.gov/cores/userHome.do>

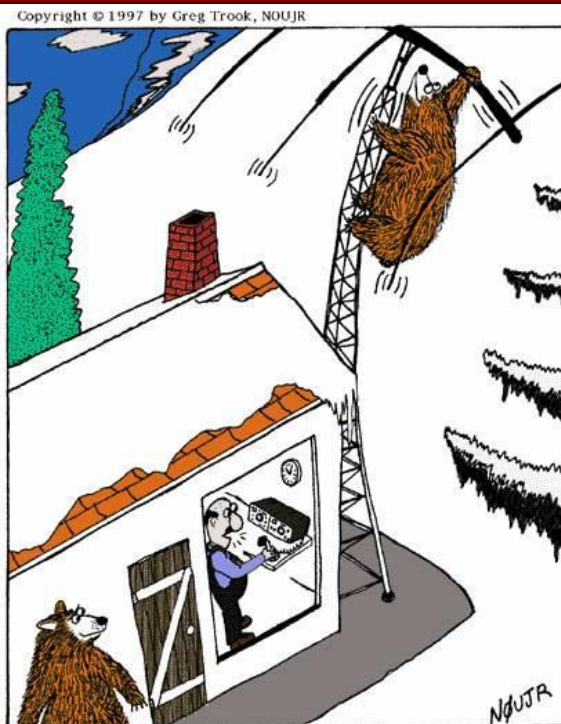
Select the first one, [Associate Username to FRN](#) Link your registered username to an existing FRN.

It will want to know your FRN. There are other search options you can use to find it. You can also look yourself up on www.qrz.com to find your frn.

Doug

VE Testing Snow Plan

If Baltimore County Libraries are closed for a testing day (Saturday or Sunday) the VE Testing session for that day will be canceled. Testing applicants that have pre-registered will be notified by phone. Due to the scheduling requirements of Baltimore County Library, we can't schedule a makeup session. Testing will resume on the next scheduled testing date. VE's will be notified by phone in the event of a closure.



"Hang on a minute Larry...my SWR is jumping...I'm going outside and see what the problem is..."

From the Skies over Mt. Essex

SKY Events for January 2019

January 1st **HAPPY NEW YEAR** 07E3₁₆

Jan 3-4th – Quadrantids Meteor shower approx 60 -120 meteors per hour, look NE toward Bootes after mid-night. 4th latest sunrise of the year.

Jan 3rd – Earth at Perihelion (closest to the Sun)
91,403,440 miles at 00:00 EST.

Jan 5th –New Moon

Jan 6th – Venus at greatest elongation 47.0° W

Jan 14th – First Quarter Moon

Jan 21th – Full Moon, “Winter Moon” for Traditional and the “Moon of the Terrible” for the Dakota Sioux American Indian also Total Lunar Eclipse, visible in the USA.

Jan 27th –Last Quarter

Jan 31st – Venus 0.1° S of the Moon at 12:36 EST 17:36 UT

Planet Lookout at mid-Month

Sunrise 07:24 EST and Sunset 17:06 EST

Mercury Morning Rise 06:59, Set 16:16; Mag -0.7; Size 4.7 arc seconds

Venus Morning Rise 03:56, Sets 13:56; Mag -4.4 and 22.6 arc seconds.

Mars Evening Rises 10:47, Sets 23:18, Mag 0.7 and 6.8 arc seconds wide.

Jupiter Morning, rises 04:35, Sets 14:03; Mag-1.8 size 32.5 arc seconds.

Saturn Morning. Rises 06:39 Sets 16:07; Mag 0.5 size 15.1 arc seconds.

Uranus Evening **Rises** 11:36 Sets 00:53; Mag 5.8 size 3.4 arc seconds.

Neptune Evening Rises 09:51 Sets 21:09; Mag +7.9 size 2.4 arc seconds.

Upcoming Events for 2019

Planets – Mercury and Venus in 2019

Maximum Eastern and Western Elongations

		Date	°		Date	°	
Mercury	EE	2/27/19	18.1	E	WE 4/11/19	27.7	W
		6/23/19	25.2		8/9/19	19	
		10/20/19	24.6		11/28/19	20.1	

Venus	EE	None ‘19	E	WE	1/6/19	47	W
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Moon - 2019

Blue Moon – (4th in a Season) - May 18, 2019

Black Moon – (2 New Moons in a month) - July 31, 2019

Harvest Moon - 09/14/2019

Super Moons - Full 1/21/19, 2/19/19 and 3/21/19

Lunar Eclipses in 2019 (2) – 1 Total- 01/21 Visible in the US & 1 Partial 0726 - Not visible in the US.

Solar Eclipses in 2019 (3) - 1 Partial 1/5-6, 1 Total 7/2/19 and 1 Annular 12/26/19 - All Not visible in the US.

Transit of Mercury 11/11/19 (Monday) 07:35 – 13:04 EST

Meteor Showers for 2019

	Predictions -	3Good,	5 Poor
Quadrantids 1/3	New Moon	Good	60-120 per hr
Lyrids 4/22	Full Moon	Poor	10 per hr
Eta Aquarids 5/6	New Moon	Good	45 per hr
Delta Aquarids 7/30	New Moon	Good	16 per hr
Perseids 8/12	Full Moon	Poor	60-80 per hr
Orionids 10/21	Last Quarter	Poor	18 per hr
Leonids 11/17	Last Quarter	Poor	15 per hr
Geminids 12/14	Full Moon	Poor	120 per hr

Seasons in 2019

Earth Perihelion	01/03/2019	00:00 EST	5:00 UT
Earth Aphelion	07/04/2019	19:00 EDT	23:00 UT
Vernal Equinox	03/20/2019	17:58 EDT	21:58 UT
Summer Solstice	06/21/2019	11:54 EDT	15:54 UT
Autumnal Equinox	09/23/2019	03:50 EDT	07:50 UT
Winter Solstice	12/21/2018	23:19 EST	04:19 UT 12/22/19 UT

Daylight Saving Time 2019

Begins 03/10/2019 - Ends 11/3//2019

Easter Dates 2019 Full Moon 03/21/2019

Easter Christian (Western) 4/21/2019 .
Eastern Greek (Orthodox) 4/28/2019