



Oxford County ARES/CERT Comm



Newsletter for March 2024

1. EMA
2. Eclipse Activation
3. MEMA Emergency Preparedness Conference
4. Trek Across Maine
5. Maine State ARRL Convention
6. Field Day
7. HAM Horses Across Maine
8. Using GMRS update on February presentation

EMA

Inventory

John WQ1W and I have been working on updating the list of equipment we have at the Green House. This had been kept on the web at D4H until costs became prohibitive. We have the inventory on a shared Google spreadsheet.

Grants

Current:

We are waiting for county to pay for the tower. Unfortunately the company and staff that had been taken care of this are no longer affiliated with Oxford County. All grants, reimbursements and other expenses are being handle by one individual working only 10 hours a week.

Future:

A grant for a replacement HF radio a VHF/UHF digital radio, a replacement desktop computer and antennas are on the grant being submitted for 2024-2025.

New Building design:

The architects are busily assembling the new county facility. We have a team that has developed a list of things that should serve our group for the next 20 to 50 years.

Current building projects to finish

At this time the EMA radio room is nearly complete. We have more sound tiles to glue to the wall, Hang the whiteboard, install the Fusion VHF/UHV radio and finish the console where the radios, computers and gear are kept.

Trailer Maintenance – Time for the annual spring cleaning of the trailer as well as annual preseason maintenance. We should schedule a work day in the early part of April if the ground outside the shelter is firm enough and not sink into the mud.

Eclipse Activation April 8, 2024 14:00 to 17:00

On Monday April 8th we are opening the EMA radio room for a possible statewide activation. With the influx of many out of state visitors into Maine's small towns, it would be wise to have our room up and running during this event.

Partial to Total Eclipse Time Frame for Oxford County, Maine

Start - 14:00 (2:00 PM)

Finish - 17:00 (5:00 PM)

Information from : <https://www.timeanddate.com/eclipse/>

See Appendix A

Maine Emergency Preparedness Conference

Wednesday, May 29 2024

8am – noon for demonstrations

We will be attending with the Oxford County ARES/CERT Communications trailer. At this time Wayne N1YIS is scheduled to move the comm trailer to Augusta. If you are interested and want to ride along or supply your own transportation, please let Wayne know. This is a

good chance to show off our equipment, visit other entities people and equipment, as well as borrow and share ideas and solutions for emergency communications. Last year we had a chance to not only “touch a truck” but “touch a helicopter”. The pilot and copilot were excellent to talk with about their roles in EMS as well as explain the helicopter layout and interior design.

Here is the invitation from Garrett.

From Garrett Buzzell:

Following up on this email from November. Thank you to those who have replied in separate emails.

The 2024 Maine Preparedness Conference (May 29th) will have a Response Vehicle display segment. I'm again looking for all those interested in sharing and showing off your respected vehicles, aircraft, apparatus, and tow behinds.

We have secured the large parking area to the right of the Augusta Civic Center as you drive in. Viewing and visiting time will be in the morning from 8:00 am till Noon.

Again, I know a few of you have already confirmed, but we are trying to make this a large-scale display for our participants and first responders. Please free to pass along this invite to any local team who may have something to contribute.

Thanks for all you do, and I look forward to hearing from you.

Respectfully,

Garrett Buzzell

Communications System Manager

Deputy Statewide Interoperability Coordinator (SWIC)

Duty Officer, COML, COMT

[Maine Emergency Management Agency](#)

45 Commerce Drive, Suite 2

Augusta, Maine 04330

Office: 207.624.4400

Trek Across Maine

– June 13 pre-meeting
June 14 to 16 with riders.
Have you registered yet?

Maine State ARRL Convention

At the Augusta Civic Center

June 15th 2024

Convention Talk & Meeting Schedule

| | TALK | PRESENTER | MEETING | MODERATOR |
|------|----------------------|--------------------------|-----------------------------------|---------------------------|
| 800 | | | | |
| 900 | | | Morning VE Session (2 hours) | Robert Latlippe, NC1RL |
| 1000 | Club Officer Meeting | Keith Anoe, KE4UCW | | |
| 1100 | ARRL Forum | Fred Kemmerer, AB1OC | | |
| 1200 | Parks-on-the-Air | Kevin Thomas, W1DED | ARES/ RACES/ EMCOMM Meeting | Keith Anoe, KE4UCW |
| 1300 | NanoVNA | Zach Madore, KC1SES | | |
| 1400 | Maine Mesh Project | Bill Richardson, NG1P | Afternoon VE Session (2 Hours) | Robert Latlippe, NC1RL |
| 1500 | | | | |
| 1600 | | | | |

for more information visit the website:

<https://www.w1npp.org/2024-maine-state-convention/>

If you are not participating in the Trek Across Maine, **PLEASE** visit this event. I am hoping we have members that will support this event so that it will happen again and grow to be a very successful future event for our ham community. Also we have several members of our county that need to be encouraged to become licensed or upgrade their license to the next level. This would be the perfect time! See the website listed above for details

Field Day 2024

We will be operating from the EMA this year. More planning will be in the April and May meetings. At this time there is an evening meal and breakfast scheduled at least for the people operating the radios. This is a Saturday to Sunday event with hopefully a good rotation of people in and out to operate as W1OCA. I am just beginning to start working out details to bring back a GOTA station for this year. More on this opportunity to get everyone on the air in the next newsletter, on Facebook, and on the Web at <https://n1vis.org>.

Horses Across Maine (HAM) July 5, 6 & 7 the event ride.

Travis Johnson and his wife Susanna gave a presentation for the ride in July in our March meeting. The ride requires four amateur radio operators in four locations to monitor conditions and activities, assist with the rides communications to and from the base at Waterford World's Fairgrounds. It is a two day ride with each day starting around 8:00 am. The riders have a choice of a 15, 30 or 50 mile ride. There are "holds" along the route where the riders dismount, unsaddle, and cool down their horses. We have been asked to supply communications from these 4 areas, base, hold area, bridge area, and at the furthest point in the ride in Sweden ME. The ride is a benefit to raise money for the care of horses in Maine at rescue and shelter locations.

Attached are two roughly sketched out maps of the route and area of the ride. We will have better maps and more information later.

July 5th Setup Day: trailer and Hold areas (rest stops)

July 6 & 7 The Ride



Oxford County CERT Members - GMRS FCC Rules on power. Update from Presentation in February

§ 95.1767 GMRS transmitting power limits.

This section contains transmitting power limits for GMRS stations. The maximum transmitting power depends on which channels are being used and the type of station. (a) **462/467 MHz main channels.** The limits in this paragraph apply to stations transmitting on any of the 462 MHz main channels or any of the 467 MHz main channels. Each GMRS transmitter type must be capable of operating within the allowable power range. GMRS licensees are responsible for ensuring that their GMRS stations operate in compliance with these limits.

(1) The transmitter output power of mobile, repeater and base stations must not exceed 50 Watts.

(2) The transmitter output power of fixed stations must not exceed 15 Watts.

(b) **462 MHz interstitial channels.** The effective radiated power (ERP) of mobile, hand-held portable and base stations transmitting on the 462 MHz interstitial channels must not exceed 5 Watts.

(c) **467 MHz interstitial channels.** The effective radiated power (ERP) of hand-held portable units transmitting on the 467 MHz interstitial channels must not exceed 0.5 Watt. Each GMRS transmitter type capable of transmitting on these channels must be designed such that the ERP does not exceed 0.5 Watt.

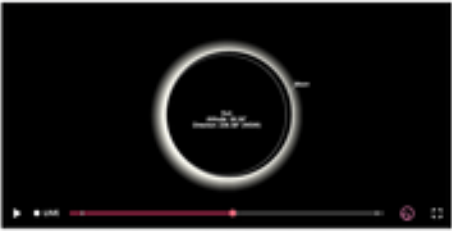
(a) Each GMRS transmitter type must have the capability to transmit F3E or G3E emissions.

(b) Only emission types A1D, F1D, G1D, H1D, J1D, R1D, A3E, F3E, G3E, H3E, J3E, R3E, F2D, and G2D are authorized for use in the GMRS. Equipment for which certification is sought under this subpart may have capabilities to transmit other emission types intended for use in other services, provided that these emission types can be deactivated when the equipment is used in the GMRS.

§ 95.1771 GMRS emission types.

Each GMRS transmitter type must be designed to satisfy the emission capability rules in this section. Operation of GMRS stations must also be in compliance with these rules.

April 8, 2024 — Total Solar Eclipse — Town of Upton



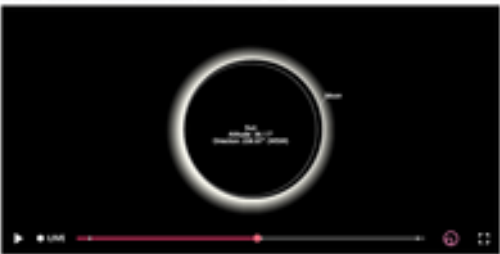
The animation shows what the eclipse approximately looks like. Stages and times of the eclipse are outlined below.

Detailed view

| Phase | Time | Event | Direction | Altitude |
|------------------------|------------------------|--|-----------|----------|
| Partial eclipse begins | 14:17:26 Mon, Apr 8 | The moment the edge of the Moon touches the edge of the Sun is called first contact. | ↙ | ↗ 47.9° |
| Totally begins | 15:29:33 Mon, Apr 8 | The moment the edge of the Moon covers all of the Sun is called second contact. | ↙ | ↗ 36.7° |
| Maximum eclipse | 15:30:29 Mon, Apr 8 | The deepest point of the eclipse, with the Sun at its most hidden. | ↙ | ↗ 36.9° |
| Totally ends | 15:31:06 Mon, Apr 8 | The moment the edge of the Moon exposes the Sun is called third contact. | ↙ | ↗ 36.7° |
| Partial eclipse ends | 16:39:06 Mon, Apr 8 | The moment the edge of the Moon leaves the edge of the Sun is called fourth contact. | ↙ | ↗ 37.4° |

* Timings for the beginning & end of partial eclipse, the beginning & end of totality, and maximum eclipse are accurate to within a few seconds. This calculation uses a Delta T value of 69.22 seconds.
Timings for other events are approximate—they are included here as a rough guide to features that might be observable. The same show the position of the Moon against the Sun at each stage, but they do not show the correct position of the diamond ring and Bailey's beads.

April 8, 2024 — Total Solar Eclipse — Rangleley



The animation shows what the eclipse approximately looks like. Stages and times of the eclipse are outlined below.

Detailed view

| Phase | Time | Event | Direction | Altitude |
|------------------------|------------------------|--|-----------|----------|
| Partial eclipse begins | 14:18:00 Mon, Apr 8 | The moment the edge of the Moon touches the edge of the Sun is called first contact. | ↙ | ↗ 47.3° |
| Totally begins | 15:29:32 Mon, Apr 8 | The moment the edge of the Moon covers all of the Sun is called second contact. | ↙ | ↗ 36.4° |
| Maximum eclipse | 15:30:44 Mon, Apr 8 | The deepest point of the eclipse, with the Sun at its most hidden. | ↙ | ↗ 36.7° |
| Totally ends | 15:31:57 Mon, Apr 8 | The moment the edge of the Moon exposes the Sun is called third contact. | ↙ | ↗ 36.1° |
| Partial eclipse ends | 16:39:19 Mon, Apr 8 | The moment the edge of the Moon leaves the edge of the Sun is called fourth contact. | ↙ | ↗ 37.2° |

* Timings for the beginning & end of partial eclipse, the beginning & end of totality, and maximum eclipse are accurate to within a few seconds. This calculation uses a Delta T value of 69.22 seconds.
Timings for other events are approximate—they are included here as a rough guide to features that might be observable. The same show the position of the Moon against the Sun at each stage, but they do not show the correct position of the diamond ring and Bailey's beads.

April 8, 2024 — Total Solar Eclipse — Fryeburg



The animation shows what the eclipse approximately looks like. Stages and times of the eclipse are outlined below.

Detailed view

| Phase | Time | Event | Direction | Altitude |
|------------------------|------------------------|--|-----------|----------|
| Partial eclipse begins | 14:17:04 Mon, Apr 8 | The moment the edge of the Moon touches the edge of the Sun is called first contact. | ↙ | ↗ 46.4° |
| Maximum eclipse | 15:30:14 Mon, Apr 8 | The deepest point of the eclipse, with the Sun at its most hidden. | ↙ | ↗ 36.9° |
| Partial eclipse ends | 16:39:12 Mon, Apr 8 | The edge of the Moon leaves the edge of the Sun. | ↙ | ↗ 37.7° |

* Timings for the beginning & end of partial eclipse and maximum eclipse are accurate to within a few seconds. This calculation uses a Delta T value of 69.22 seconds.
Timings for other events are approximate—they are included here as a rough guide to features that might be observable.

April 8, 2024 — Total Solar Eclipse — Town of Mexico



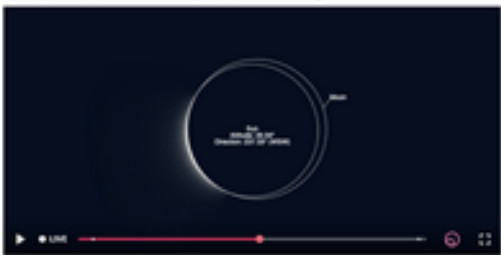
The animation shows what the eclipse approximately looks like. Stages and times of the eclipse are outlined below.

Detailed view

| Phase | Time | Event | Direction | Altitude |
|------------------------|------------------------|--|-----------|----------|
| Partial eclipse begins | 14:18:00 Mon, Apr 8 | The moment the edge of the Moon touches the edge of the Sun is called first contact. | ↙ | ↗ 47.3° |
| Maximum eclipse | 15:30:50 Mon, Apr 8 | The deepest point of the eclipse, with the Sun at its most hidden. | ↙ | ↗ 36.4° |
| Partial eclipse ends | 16:39:29 Mon, Apr 8 | The edge of the Moon leaves the edge of the Sun. | ↙ | ↗ 37.2° |

* Timings for the beginning & end of partial eclipse and maximum eclipse are accurate to within a few seconds. This calculation uses a Delta T value of 69.22 seconds.
Timings for other events are approximate—they are included here as a rough guide to features that might be observable.

April 8, 2024 — Total Solar Eclipse — North Norway



The animation shows what the eclipse approximately looks like. Stages and times of the eclipse are outlined below.

Detailed view

| Phase | Time | Event | Direction | Altitude |
|------------------------|------------------------|--|-----------|----------|
| Partial eclipse begins | 14:17:40 Mon, Apr 8 | The moment the edge of the Moon touches the edge of the Sun is called first contact. | ↙ | ↗ 48.1° |
| Maximum eclipse | 15:30:39 Mon, Apr 8 | The deepest point of the eclipse, with the Sun at its most hidden. | ↙ | ↗ 36.9° |
| Partial eclipse ends | 16:39:26 Mon, Apr 8 | The edge of the Moon leaves the edge of the Sun. | ↙ | ↗ 37.4° |

* Timings for the beginning & end of partial eclipse and maximum eclipse are accurate to within a few seconds. This calculation uses a Delta T value of 69.22 seconds.
Timings for other events are approximate—they are included here as a rough guide to features that might be observable.

April 8, 2024 — Total Solar Eclipse — Canton



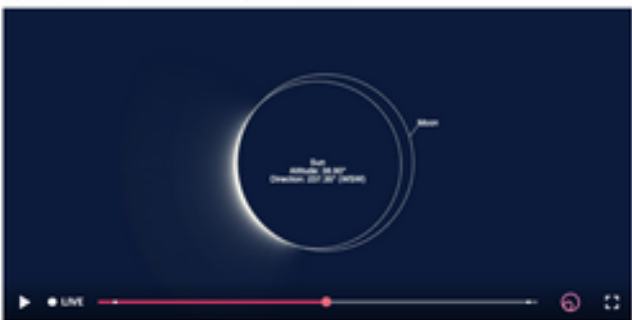
The animation shows what the eclipse approximately looks like. Stages and times of the eclipse are outlined below.

Detailed view

| Phase | Time | Event | Direction | Altitude |
|------------------------|------------------------|--|-----------|----------|
| Partial eclipse begins | 14:18:12 Mon, Apr 8 | The moment the edge of the Moon touches the edge of the Sun is called first contact. | ↙ | ↗ 47.3° |
| Maximum eclipse | 15:31:02 Mon, Apr 8 | The deepest point of the eclipse, with the Sun at its most hidden. | ↙ | ↗ 36.1° |
| Partial eclipse ends | 16:39:39 Mon, Apr 8 | The edge of the Moon leaves the edge of the Sun. | ↙ | ↗ 37.2° |

* Timings for the beginning & end of partial eclipse and maximum eclipse are accurate to within a few seconds. This calculation uses a Delta T value of 69.22 seconds.
Timings for other events are approximate—they are included here as a rough guide to features that might be observable.

April 8, 2024 — Total Solar Eclipse — Hiram



The animation shows what the eclipse approximately looks like. Stages and times of the eclipse are outlined below.

Detailed view

| Phase | Time | Event | Direction | Altitude |
|------------------------|------------------------|--|-----------|----------|
| Partial eclipse begins | 14:17:15 Mon, Apr 8 | The moment the edge of the Moon touches the edge of the Sun is called first contact. | ↙ | ↗ 48.4° |
| Maximum eclipse | 15:30:24 Mon, Apr 8 | The deepest point of the eclipse, with the Sun at its most hidden. | ↙ | ↗ 36.9° |
| Partial eclipse ends | 16:39:21 Mon, Apr 8 | The edge of the Moon leaves the edge of the Sun. | ↙ | ↗ 37.4° |

* Timings for the beginning & end of partial eclipse and maximum eclipse are accurate to within a few seconds. This calculation uses a Delta T value of 69.22 seconds.
Timings for other events are approximate—they are included here as a rough guide to features that might be observable.