



News from

The GLORIOUS SOCIETY OF THE WORMHOLE

May 2025

Hello Worms

The meeting is this weekend. I again will not be able to join you but have high hopes for next month.

May 10th looks to be a busy day as you will see in two of the articles this month.

Bring your drink of choice and lunch to the meeting if you want. We will not be cooking but we have access to the Chamber of Commerce kitchen which has a microwave and a toaster oven so you can heat up/cook what you bring.

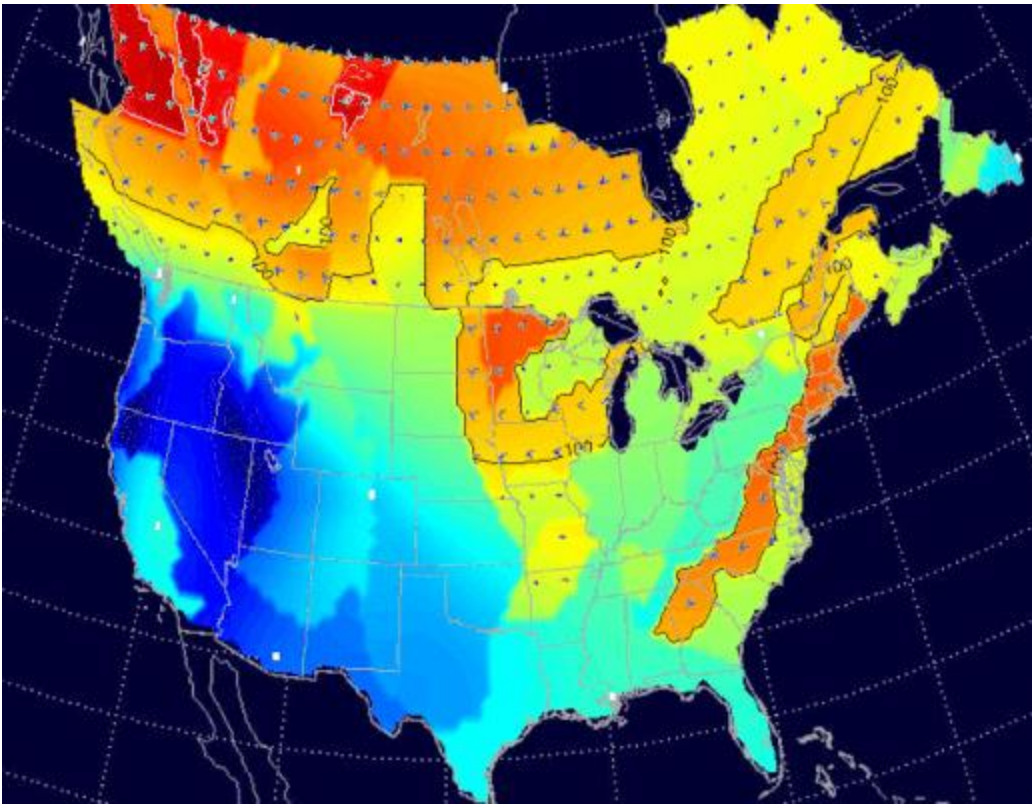
DID YOU KNOW

Scotland has 421 words for snow. Yes, 421! Some examples: *sneesl* (to start raining or snowing); *feefle* (to swirl); and *flinkdrinkin* (a light snow).

*** GEOMAGNETIC GROUND CURRENTS IN NORTH AMERICA ***

spaceweather.com

Space weather isn't all about the sky. It's in the ground, too. On April 16th, a severe geomagnetic storm caused electricity to flow through the rocks and soil of North America. Red zones in this animated map from NOAA show where voltages were greatest:



This 10-minute animation shows North American ground currents at the apex of the April 16th G4 geomagnetic storm

Geoelectric voltages were more than 70 times normal in the Appalachian mountain range, northern Minnesota, and northwestern Canada. Texas and other western US states were relatively unscathed.

Researchers track ground currents because in extreme cases they can cause power outages like the Great Québec Blackout of March 13, 1989. This week's storm wasn't intense or long-lasting enough to bring down power grids, but NOAA's maps show where power stations are most vulnerable.

"Generally, geoelectric amplitudes are high over metamorphic rock, such as in the Appalachians and northern Minnesota," explains Jeffrey Love of the US Geological Survey (USGS). "They are usually low over sedimentary rock such as in Texas and northwest of the Appalachians."

Realtime electric field maps are published 24/7 on the NOAA website. During the next geomagnetic storm, [click here](#) to see what's happening underfoot!

*** ALL GMAIL USERS AT RISK FROM REPLAY ATTACK ***

Cybercriminals are abusing Google's infrastructure, creating emails that appear to come from Google in order to persuade people into handing over their Google account credentials.

This attack, first flagged by Nick Johnson, the lead developer of the Ethereum Name Service (ENS), a blockchain equivalent of the popular internet naming convention known as the Domain Name System (DNS).

Nick received a very official looking security alert about a subpoena allegedly issued to Google by law enforcement to information contained in Nick's Google account. A URL in the email pointed Nick to a sites.google.com page that looked like an exact copy of the official Google support portal.

As a computer savvy person, Nick spotted that the official site should have been hosted on accounts.google.com and not sites.google.com. The difference is that anyone with a Google account can create a website on sites.google.com. And that is exactly what the cybercriminals did.

Attackers increasingly use Google Sites to host phishing pages because the domain appears trustworthy to most users and can bypass many security filters. One of those filters is DKIM (DomainKeys Identified Mail), an email authentication protocol that allows the sending server to attach a digital signature to an email.

If the target clicked either "Upload additional documents" or "View case", they were redirected to an exact copy of the Google sign-in page designed to steal their login credentials.

Your Google credentials are coveted prey, because they give access to core Google services like Gmail, Google Drive, Google Photos, Google Calendar, Google Contacts, Google Maps, Google Play, and YouTube, but also any third-party apps and services you have chosen to log in with your Google account.

The signs to recognize this scam are the pages hosted at sites.google.com which should have been support.google.com and accounts.google.com and the sender address in the email header. Although it was signed by accounts.google.com, it was emailed by another address. If a person had all these accounts compromised in one go, this could easily lead to identity theft.

How to avoid scams like this

- Don't follow links in unsolicited emails or on unexpected websites
- Carefully look at the email headers when you receive an unexpected mail
- Verify the legitimacy of such emails through another, independent method

- Don't use your Google account (or Facebook for that matter) to log in at other sites and services. Instead create an account on the service itself.

*** THE SKY IS FALLING AND IT SPEAKS RUSSIAN ***

The following is an email from our own Rob Jacobson, thanks Rob.

Howdy,

They have been tracking a Russian craft from a failed launch in 1972 that was intended to parachute down into Venus, but ended up in a bad decaying orbit around Earth, slowly sinking. It is now expected to reenter and impact somewhere around May 10, current uncertainty of +/-4 days, so May 6 to May 13 (update May 10 +/- 3.1 days). Each day will improve the forecast, but there is expected to be a large uncertainty even on the exact day it's expected, both time and place. Its orbit has an inclination of 51.7, so it could land anywhere on Earth between latitude 52 North and 52 South, which includes almost all of the inhabited part of North America, and almost all of South America except the bottom tip. That's every major city in North America except Edmonton and in Alaska.

It's a completely uncontrolled reentry, will land wherever it wants to. It has parachutes, but installed in 1972, are not expected to work. It's roughly cylindrical, 1 meter diameter (pic in 2nd URL). Should be fun to monitor! (forecasts in 1st URL)

<https://sattrackcam.blogspot.com/2025/04/kosmos-842-descent-craft-reentry.html>
<https://www.thespacereview.com/article/4384/1>

Rob

Editor: More info: As this is a lander that was **designed to survive passage through the Venus atmosphere**, it is **possible that it will survive reentry through the Earth atmosphere intact**, and impact intact. There are many uncertain factors in this though, including that this will be a long shallow reentry trajectory.

2025 MILITARY/AMATEUR CROSSBAND TEST

Everyone has probably gotten tired of the notice about this years crossband test but here it is one more time copied from the ARRL member notice.

SB SPCL @ ARL \$ARLX005

ARLX005 Annual Armed Forces Day Crossband Test scheduled for
Saturday, May 10, 2025

ZCZC AX05

QST de W1AW

Special Bulletin 5 ARLX005

From ARRL Headquarters

Newington CT April 25, 2025

To all radio amateurs

SB SPCL ARL ARLX005

ARLX005 Annual Armed Forces Day Crossband Test

The Annual Armed Forces Day (AFD) Crossband Test, hosted by the Department of Defense, is scheduled for Saturday, May 10, 2025.

The event will test two-way communications between military stations and amateur radio operators as authorized by the Federal Communications Commission in Title 47 of the Code of Federal Regulations 47 CFR 97.111. The test provides opportunities, and challenges, for operators to test their individual technical skills in a controlled scenario that will not impact public or private communications.

The annual DOD message will be transmitted via RTTY on 14667.0 kHz at 1400 and 2000 UTC. Military stations will transmit on selected military frequencies and announce the specific amateur radio service frequencies that will be monitored.

All scheduled times will be in UTC, and all scheduled transmissions will be upper sideband (USB), unless otherwise noted. Frequencies, times, and other technical information can be found at the DoD MARS - Armed Forces Day site at: www.dodmars.org/mars-comex-information-website/armed-forces-day.

Those who wish to document their contacts with a QSL card should visit www.usarmymars.org/armed-forces-day-qsl-card-request and complete the request form. For more than 50 years, military and amateur stations have taken part in this event.

NNNN

/EX

HamSCI METEOR SCATTER QSO PARTY 2025

HamSCI – The Ham Radio Science Citizen Investigation is preparing for a series of meteor scatter (MS) experiments later this year. The target storms are in August (Perseids) and December (Geminids). Preparation and testing are underway now. This is a combination 'special event' and a contest to generate contact data during meteor scatter events using 10 meters and 6 meters. Contest rules will be released shortly.

Ten meters has not been used much for meteor scatter study due to past symbol rate limits. But with recent changes in FCC rules, WSJT-X/MSK144 can now be used on HF bands. The HamSCI meteor scatter event will collect contact data from both 10 meters and 6 meters as part of the scheduled events in August and December. Data will be analyzed offline, comparing data from both bands, using both PSK Reporter raw data and operator contact logs from WSJT-X. User data including both logged contact and received reports are necessary for valid experimental analysis. The latter can be provided by any receive system reporting on MSK144 through PSK Reporter.

Currently, we need operators to be active (i.e., CQ-ing) on MSK144; or passive, if possible, reporting via PSK Reporter as 'monitors'. The best times are early morning hours prior to 10M opening to F2 propagation. Meteor scatter propagation occurs well below F2 and is supported in or near the E layer where the meteor ionization tracks occur. Saturday mornings are being used regularly to announce and coordinate 10M contacts using Ping Jockey Central. Announcements are also made on the Front Range Six Meter groups.io due to the substantial number of meteor scatter operators in that group.

To be successful, this effort needs operators, both active and passive. The upcoming April-Lyrids shower is an excellent time to set up your equipment and join with other operators preparing for the events later this year. If you do not have the time to be active, at least set up passive reporting. PSK Reporter currently has scarce 10M MSK144 monitors; so we need to increase those numbers during the early morning hours. The best Lyrid times are around midnight and early morning hours, peaking April 21-22, but also for several days before and after the peak dates. We expect large numbers of 10M and 6M MSK144 operators to be both active and passive during the Lyrid events.

Specific information for the August and December special events will be published as it becomes available, and as the planning matures. You can find the description of the HamSCI Meteor Shower QSO Party - 2025 here: hamsci.org/msqp-poster

Please join us in becoming both active and/or passive operator/participants in event planning

during April. , the HamSci team will be collecting operator contact information, but for now, all that is required is for participants to report through PSK Reporter. For more information on the operating guidelines for the activity, please go to www.hamsci.org.

HamSCI serves as a means for fostering collaboration between professional researchers and amateur radio operators. It assists in developing and maintaining standards and agreements between all people and organizations involved. Its goals are to advance scientific research and understanding through amateur radio activities, encourage the development of modern technologies to support this research and provide educational opportunities for the amateur community and the public.

For more information about HamSCI and to join our mailing list, please visit our website www.hamsci.org.



CLUB MEETING and ZOOM

The meeting time is 1100 on Saturday morning at the Lurie Civic Building on the St Petersburg College campus in Seminole. Turn west at the light at 113th St N and about 92nd Ave N. It's the first building on the north side. Here is a link to a Google map: [Google Maps](#) . There are a few parking spots in front the Chamber building but double parking is fine since we will be able to find the owner to move his vehicle if necessary. Alternately if you go another 100 yards past you can park in the college parking lot. We cannot run Zoom and a computer presentation at the same time. Below is the Zoom information, same as last month. The ZOOM meeting is limited to 40 minutes so I will start it early and restart it to cover the whole meeting.

Topic: Bill Williams' Zoom Meeting
Time: This is a recurring meeting Meet anytime

Join Zoom Meeting
<https://zoom.us/j/2737114584?pwd=d1BETHVOQ21vWWZXZ0lYQ0FIWWtldz09>
Meeting ID: 273 711 4584
Passcode: worm

CLUB NETS

Check in on the club net Thursdays at 1930 and 2000 (or at the end of the 2M net). 2M at 146.850 – with a tone of 146.2. Our 6M net runs after our regular 2M net on 53.150 – 1MHz offset 146.2 tone.

LOCAL NETS

MONDAY

1830 147.060+ no tone	St Pete ARC daily net	St Petersburg
1900 144.210 USB	CARS, vertical polarization	Clearwater
1900 147.135 +146.2	Zephyrhills ARC	Zephyrhills
2000 147.165+ 136.5	Brandon ARS	from Brandon
2000 50.135	Pinellas ARK	Pinellas County
2030 NI4CE system	EAGLE Net, NTS traffic net,	NI4CE system
2030 145.450	Pinellas ARK	Pinellas County

TUESDAY

1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 50.200 USB	6M net	Brandon ARS
1900 28.365 USB	10M Net	Clearwater
1900 NI4CE system	WCF Section VHF ARES	NI4CE system
1930 145.170 & 442.4 both pl 156.7	Pinellas ACS net	Clearwater
1930 444.900 +141.3	Sheriff's Tactical ARC	Tampa
2000 NI4CE system	WCF Skywarn net	NI4CE system
2000 147.105+ 146.2	Tampa ARC net	from Tampa

2000 28.365 USB	simplex	Brandon ARS
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
2100 28.465 USB	10/10 net	from Orlando
1900 146.490 simplex	3 RD Tuesday monthly, Hillsborough Co ARES simplex Net	

WEDNESDAY

1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 147.165 + 136.5	Humpday Net	from Bandon
1930 52.020 simplex	Suncoast 6'ers	from St Petersburg
1930 NI4CE system	WCF Section Digital Info Ne	NI4CE system
2000 147.105 146.2	Greater Tampa CERT net	from Tampa
2000 146.97- 146.2	Clearwater ARS	from Clearwater
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
2100 NI4CE system	Tampa Bay Traders Net	non-affiliated
0000-2359 HF Winlink	Winlink Wednesday Net https://winlinkwednesday.net/reminder.html	

THURSDAY

1800 146.52 simplex	Hillsborough ARES/RACES	North Tampa
1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 444.750 +146.2	Fusion net	from Tampa
1915 224.660- no tone	St Pete ARC	from St Petersburg
1930 146.6385 -127.3	Lakeland ARC	from Lakeland
1930 440.1 +162.2	Hillsborough ARES/RACES	from Tampa
1930 146.850- 146.2	Wormhole	from Pinellas Co
2000 53.150 -1MHz 146.2	Wormhole	from Pinellas Co
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system

FRIDAY

1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1900 3.830 LSB	Brandon 80M Net	from Brandon
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system

SATURDAY

0730 3.940 (7.281 Alt.)+/- QRM	WCF Section HF Net	from WCF
1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system

SUNDAY

0800 3.933	Florida Traders Net	non-affiliated
1830 147.060 no tone	St Pete ARC daily net	from St Petersburg
1930 NI4CE system	WCF Section Net	NI4CE system
2000 147.550 simplex	550 Simplex Net	Pinellas County
2030 NI4CE system	EAGLE Net, NTS traffic net	NI4CE system
2100 144.210 USB	Clearwater ARS	vertical orientation



FOR SALE / WANTED

Anyone having something for sale or who might be looking for an item let me know. I will not print phone numbers or email addresses unless specifically told to since this newsletter might end up on the web. The exception is when I get the information off the web. If you are a member of the Wormhole then you can ask club members for the persons contact information. If you are not a member ... why not? OK, if you are not a member you can contact me at the email address at the end of this newsletter, I will give you the information to contact the person involved. If you want to see anything here and you are coming to the meeting let the seller know, maybe he can bring it.

FOR SALE,

See Bill AG4QX for the following: make me an offer.

*ICOM IC-W32A , 2m and 440 HT, AA battery pack	\$25
*Heathkit HD-1215 Phone patch looks ok	\$10

*Drake WV-5 wattmeter	looks ok	\$75
*Cushcraft A4S, 10/15/20 4 element beam		\$250
*Cushcraft AV-12AVQ, 10/15/20 vertical		\$125
*Cushcraft A50-#S, 6m beam		\$125
*Cushcraft A-#WS, 17/12 WARC beam		\$250
*15000 V neon sign transformer currently used for Jacobs ladder		\$30

HAMFESTS

2025

May10

EPARS Hamfest, American Legion, 37745 Church Ave, Dade City, gate \$5, tailgate \$5, inside table \$10, talkin 146.880 (-.600) 146.2, contact Chris Bloxsom , AA4CB, PO Box 2199 St. Leo , FL 33574 or 224-221-5064 or aa4cb@yahoo.com, Website: <http://eparsonline.org>

May 16-18 Xenia, Ohio, Dayton Hamfest, tickets \$30 at the door, tailgate \$30, 10x10 booth \$705

May 24

WormFest 2025, Pinellas Park, admission FREE, tailgate free, Freedom Lake Park, 9990 46th St N, southeast corner of US 19 and 49th Street, 33782. Park opens at sunrise for vendor setup, hamfest starts at 0800. Talk-in on 146.850 – 146.2. All FREE! For a map and directions see <http://www.TheWormholeSociety.org> .

August 23

TARCFest TARC Clubhouse, 22nd St at the river, 8AM-1PM, \$5 entry including tailgate, a few inside tables must be reserved in advance, talkin on 147.105 +146.2, license testing after, more info at <http://hamclub.org/>

November 8

Pinellas Park, SPARCFest, admission FREE, tailgate free, Freedom Lake Park, 9990 46th St N, Southeast corner of US 19 and 49th Street, Talk-in on 147.060+ no tone. VE testing at 0900. Website has not been updated yet.

December 12 & 13

Plant City, the 2025 Tampa Bay Hamfest and West Central Florida Section Convention, Friday and Saturday, at the Strawberry Festival grounds, admission \$13, 16x40 ft tailgate space \$10, electric \$10, for information contact Bill Williams AG4QX, chairman@fgcarc.org or go to <http://www.tampabayhamfest.org> or you can just ask me, Jim or Dee at a meeting ;-)

2026

January 17

TARCFest TARC Clubhouse, 22nd St at the river, 8AM-1PM, \$5 entry including tailgate, a few inside tables must be reserved in advance, talkin on 147.105 +146.2, license testing after, more info at <http://hamclub.org/> Date not confirmed .

Fourth full weekend January	Winter Field Day https://www.winterfieldday.com/
Late January	Gasparilla celebration
Late February	West Central Florida Tech Conference http://arrlwcfc.org/wcf-special-events/wcftechconference/
March/April	MS Walks
April	MS150 bike now named Suncoast Challenge http://www.citrustour.org/register.php
March/April	Mass Casualty Exercises
Late April	Southeastern VHF Society Conference, http://www.svhfs.org
Late April	Florida QSO Party
Mid May	March For Babies (was March of Dimes) https://www.marchforbabies.org/Registration/Events
Mid May	Annual Armed Forces Crossband Test
Mid-May	Florida Hurricane Exercise
Late May	Dayton Hamfest
May, Memorial Day Weekend	Wormfest
First weekend in June	Museum Ships on the Air
Fourth weekend in June	Field Day http://www.arrl.org/contests/announcements/fd/
Third weekend in August	International Lighthouse/Lightship Week https://illw.net/
September	Run for All Children's
Mid October	The Great Shakeout https://www.shakeout.org
October, 3 rd weekend	JOTA, Scout Jamboree-on-the-AIR (around 14.280MHz)
Early December	ALS bike ride in Walsingham Park
December, Second weekend	Tampa Bay Hamfest http://www.fgcarc.org/

North American QSO Party

Mode	Contest Weekend
CW	2nd full weekend January 1 st full weekend August
SSB	3 rd full weekend January 3 rd full weekend August
RTTY	last Saturday February 3rd full weekend July

YOUR WORMHOLE OFFICERS

Bill AG4QX is President and editor of this newsletter, the Vice President position is open, Treasurer is Jim KD4MZL, Paul KA4IOX is the Secretary, Dee N4GD is the Repeater Trustee and Mike KV0OOM is our webmaster.

YOUR WORMHOLE REPEATERS

53.150 -1Mz PL 146.2

442.625 +5Mz PL 146.2

146.850 - 600Kz PL 146.2

The Wormhole 2M and 440 repeaters are both now dual mode Yaesu DR-2X. FM analog as always and Yaesu Fusion, a C4FM digital mode.

The Wormhole website is at: <http://www.TheWormholeSociety.org>.

West Central Florida Section website: <http://www.arrlwcf.org/>.

The ARRL website is at: <http://www.arrl.org/>

This newsletter is written for The Glorious Society of the Wormhole, an ARRL affiliated amateur radio club located around the Seminole section of Pinellas County Florida. Anyone wishing to be added or removed from The Glorious Society of the Wormhole mailings please write to me at the address below and thy will be done.

73,
Bill Williams
AG4QX
[ag4qx AT arrl DOT net](mailto:ag4qx@arrl.net)