

# The **HOTLINE**

Official Newsletter for the  
**Heart O' Texas Amateur Radio Club**  
Waco, Texas

**FEBRUARY 2024**  
**VOLUME XLV, NUMBER 2**

## ***Meeting Notice***

HOTARC will hold its monthly *Meeting of Members* at 7:00 PM on Thursday February 22, 2024 **in person at 921 Lake Air Dr.** and via the Zoom Video Conferencing Platform. Please check your email or the Members Only section of the website for login information.

# The First Amateur Radio Station on the Moon, JS1YMG, is Now Transmitting

The Japan Aerospace Exploration Agency (JAXA) successfully landed their Smart Lander for Investigating Moon (SLIM) on January 19, 2024. Just before touchdown, SLIM released two small lunar surface probes, LEV-1 and LEV-2.

LEV-2 collects data while moving on the lunar surface, and LEV-1 receives the data.

The JAXA Ham Radio Club (JHRC), JQ1ZVI, secured amateur radio license JS1YMG for LEV-1, which has been transmitting Morse code on 437.41 MHz since January 19. The probe uses a 1 W UHF antenna with circular polarization and is transmitting "matters related to amateur business."

Radio amateurs have been busy analyzing JS1YMG's signal, with [Daniel Estévez's, EA4GPZ, blog](#) introducing the method and extraction results for demodulating Morse code from the signal, as well as extracting the code string.

It's unclear how long signals will be heard. JAXA has said that SLIM was not designed to survive a lunar night, which lasts about 14 days, and is due to return in a few days.

SLIM was launched on September 6, 2023, and landed on January 19, 2024, with the mission of analyzing the composition of rocks to aid research about the origin of the moon. SLIM's landing made Japan the fifth country to achieve a soft touchdown on the moon. The landing was achieved with exceptional precision -- within 180 feet of its targeted touchdown location.

Source: The ARRL Letter for February 1, 2024



A rendering of the Smart Lander for Investigating Moon (SLIM) on the lunar surface. [Japan Aerospace Exploration Agency, image]

VOLUNTEERS NEEDED - Contact Mike Davis NA5X [mike@NA5X.com](mailto:mike@NA5X.com)

The logo for the Baylor University Bearathon, featuring a stylized yellow bear head with its mouth open, set within a white shield-like border. Above the bear, the text "BAYLOR UNIVERSITY" is written in white. Below the bear, the word "BEARATHON" is written in large, bold, yellow letters.

**THE TOUGHEST  
HALF IN TEXAS**

**MARCH 23, 2024**

Proceeds from the half marathon and 6K  
races benefit student scholarships.

# HOTARC Meeting of Members

## January 25, 2024

President Aaron Gustafson KI5PCQ called the meeting to order at 7:00PM in person and in the ZOOM Meeting Room. Bill Feltenberger KD5UEW gave the invocation.

President Aaron Gustafson KI5PCQ led us in the Pledge of Allegiance. There were 16 members present and 4 visitors: Victor Lopez, Shane Needham, David Rahn KD0WQC, and Brandon Munger W5BEM

Jim Jud KA5QKL moved and Seth Boren KI5QEH seconded to accept the minutes of the previous meeting as presented in the HOTLINE. Motion carried.

Treasurer's report: The Treasurers Report for December 2023 as published in the HOTLINE was filed.

### Committee Reports:

- ARES/RACES: New roster is out and calendar has been added to website

Unfinished Business: No unfinished business

New Business: Dwan Needham KE5JWY moved and Paul Collins KG5DHS seconded accepting David Rahn KD0WQC membership application. Motion carried.

Kevin Mullins K5KTM moved and David Halvorsen KA5DAH seconded to approve up to \$500 to secure Lawson's Point for Field Day 2024.

Mike Davis NA5X will reach out to Bearathon advisors after contacting BARC regarding race support.

Meeting Adjournment: President Aaron Gustafson KI5PCQ adjourned the meeting at 07:20 pm.

Submitted by Mike Davis NA5X  
HOTARC Secretary

## The Treasurer's Report

Heart o' Texas Amateur Radio Club		
Treasurers Report: January 31, 2024		
<b>Starting Balance</b>	<b>January 1, 2024</b>	<b>\$ 10,878.07</b>
<b>Income</b>		
Cash for dues 22 Jan	\$	30.00
Cash for WWW100 22 Jan	\$	1,000.00
Cash Received Pay Pal 26 Jan	\$	210.00
Cash for dues 26 Jan	\$	90.00
<b>Total received</b>		<b>\$ 1,330.00</b>
<b>Total Income</b>		<b>\$ 1,330.00</b>
<b>Expenses</b>		
Pay Pal	\$	8.12
<b>Total Expenses</b>		<b>\$ 8.12</b>
<b>Ending Balance</b>	<b>January 31, 2024</b>	<b>\$ 12,199.95</b>
CD		\$ 7,000.00
<b>Ending Balance</b>	<b>January 31, 2024</b>	<b>\$ 5,199.95</b>
Mike Ross New Ham Radio Fund	\$	300.00
Flower Fund Total 1/31/2024	\$	287.47
Submitted by Bill Feltenberger KD5UEW		

# McLennan County A.R.E.S.

by Paul Collins KG5DHS  
McLennan County Emergency Coordinator

Hi HOTARC!

Just a friendly reminder that winter is dying down and the spring storm season is approaching. Apparently we will have a short El Nino and the pattern will flip to La Nina in early summer. I'll post the tropical outlook as soon as it's published.

**Spring SET for North Texas, April, 2024.** The Spring SET will coincide with the Full Solar Eclipse and will start on April 7, 2024 and conclude on April 9. Much like the Fall SET, the Spring SET is a communications exercise, but will be real world. There will be multiple reporting periods where your teams will be asked to gather the status of your infrastructure and resources before and after the event. As we get closer to that event, we will provide a better picture for what will be expected.

As always the ARES team is ready to deploy if needed. Thanks to everyone who is part of the team!

If you are interested in becoming a member of McLennan County ARES, go to the HOTARC Web site under the frequently asked questions and download the application.



**Baker's Dozen counties**

E-mail or mail the completed application according to the instructions listed at the bottom of the application. Your application will be processed and you will receive an ARES ID Card. As always, the ARES team is ready to deploy if needed. Thanks to everyone who is part of the team!

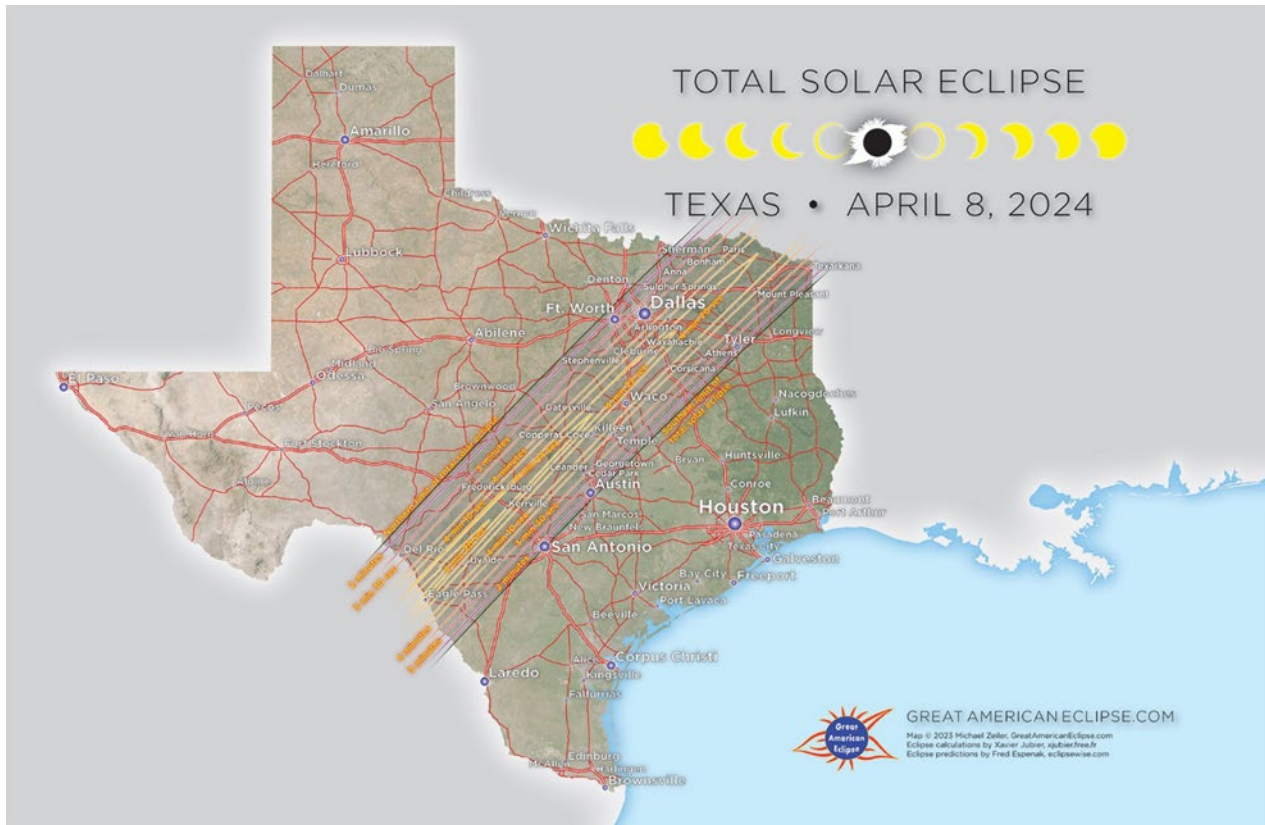
I'm looking forward to seeing everyone at the meeting.

73,

Paul KG5DHS



We are continuing to prepare for the April Eclipse. We are hoping that all RACES and ARES members can participate as TDEM is expecting a large influx of visitors to the area. We hope to have the EOCs manned as well as any amateur operators that wish monitoring from the field. From reports I have read, our area will have the longest totality in Texas with Gatesville seeing almost four and half minutes. It's exciting event for many reasons. If you wish to join Texas RACES, the applications can be found at <https://www.tdem.texas.gov/response/races> There are two separate forms. Please fill out and return to me: [mike@na5x.com](mailto:mike@na5x.com).



The HOTLINE is the monthly newsletter of the Heart O' Texas Amateur Radio Club (HOTARC), Inc., a nonprofit corporation, chartered by the State of Texas and principally located in Waco. It is permissible to use any of the original material contained herein provided proper credit is given to the source.

Edited and Published by Mike Davis NA5X, [mike@na5x.com](mailto:mike@na5x.com)

## HOTARC 2023 Board of Directors

**President:** Aaron Gustafson, KI5PCQ

[President@hotarc.org](mailto:President@hotarc.org)

**Vice Pres:** Drew Dickenson, KE5UBO

[VicePres@hotarc.org](mailto:VicePres@hotarc.org)

**Secretary:** Mike Davis, NA5X

[Secretary@hotarc.org](mailto:Secretary@hotarc.org)

**Treasurer:** Bill Feltenberger, KD5UEW

[Treasurer@hotarc.org](mailto:Treasurer@hotarc.org)

**Past-Pres.:** Seth Boren, KI5QEH

[PastPres@hotarc.org](mailto:PastPres@hotarc.org)

**Director (2025):** Jason Fedlam, KQ5UX

[Director1@hotarc.org](mailto:Director1@hotarc.org)

**Director (2024):** Barbara Leutwyler,

[Director3@hotarc.org](mailto:Director3@hotarc.org)

**Director (2026):** Kevin Mullins, K5KTM

[Director2@hotarc.org](mailto:Director2@hotarc.org)

## **Club Repeaters**

145.15 MHz (input at -600 kHz, tone 123 Hz)

146.98 MHz (input at -600 kHz, D-Star)

442.875 MHz (input at +5.0 MHz, tone 123 Hz)

## ***VE Testing***

Contact HOTARC at [hamradio@hotarc.org](mailto:hamradio@hotarc.org) if you would like information on our next testing session.