

# AWOS Relocation March 2026

## Background

The AWOS System was originally installed on Bob Symn's hangar as the community center did not have internet at the time. During the September 2025 Meeting, a plan was established to move the system to the community center. Originally this was coordinated between Maintenance (Scott Porter) with help from Adam Weaver, but when the IT Committee was established responsibility was passed to them as the technical setup would fall under IT Committee Roles & Responsibilities.

## Working Group

### IT Committee

- Adam Weaver
- Shannon Allen
- Sharman Peters

### Maintenance

- Scott Porter

### Board/Other Responsible Parties

- Bob Symns

## Materials

### Donated Materials

- Extension Cord
- Mini SD Card
- Large Pipe + Welding Materials
- Angle Bracket
- Pipe Insulation

These items were donated by Adam Weaver, Scott Porter, and Sharman Peters

## AWOS Inventory

### System

- AWOS System, consists of:

- Davis Vantage Pro2 weather station, Mounted on poll on West side of Community Center Property
- SayWeather Pro2 to convert to voice
- microSD card for SayWeather configuration files
- Yaesu handheld radio and charger cable
- Antenna - Mounted on West side of Community Center
- Coax cables from Yaesu to antenna

## March 2026 Plan

Bob Symns removed the AWOS System from his hangar and got the entire system boxed and ready with an instruction manual for Adam Weaver to pick up. This was completed March 28th 2026. On Sunday, March 29th the system was picked up, moved to the community center, and set up. Tuesday March 31st the AWOS was confirmed to be working in its new location as of 10:00am local time. Additional troubleshooting completed by the evening of March 31st.

## Setup Locations

The Antenna has been relocated to the Roof on the west side with Coax cable going through to the maintenance garage. The SayWeather system including radio has been set up in the maintenance garage. The weather station system has been mounted on a pole on the Western area of the Community Center Property.

The decision to mount the AWOS system on the pole instead of on the roof was driven by seeking the most accurate temperature and wind direction data. Guidelines were given in the documentation to stay clear of obstructions and not to place it over heated surfaces like roofs and asphalt. The tin roof of the community center would likely have radiated heat resulting in false high temperature and DA readings and wind directions would likely be impacted by gable/boundary layer effects.

## Troubleshooting

During the installation it was discovered that a new SD card would be required for the move to complete. Adam Weaver reached out to SayWeather directly for the files. This added an additional day to downtime.

## March 31 2026 Debugging

- Antenna placement was close enough that one of the legs would swing in the wind and hit the roof. This caused break squelch every time effectively repeating the button presses and causing it to repeat the weather over channel 122.9 frequently.
  - Angle bracket used to make the antenna sit higher on the roof

- Constant static was interfering with squelch. We discovered that the cable was picking up interference from the repeater on the west wall. The placement effectively made the whole wall a ground plane for the repeater.
  - The coax cable has been braced out from the wall. The current brace is temporary and the IT Committee will return soon with a 'pool noodle' or other cover for the cable to brace it permanently.
- Members noticed only the short weather, 3 clicks, was working. Sayweather is preconfigured for full weather at 4 clicks.
  - Updated to 5 clicks
  - Note: 4 clicks interferes with Western Sky Airpark (0AZ2)

## Member Communication

March 28 2026: Email sent from Webmaster to all email addresses on file\* that the system was down

March 31 2026 Email sent from Webmaster to all email addresses on file\* that the system was back up

\* Email addresses are currently the old list provided by Gary prior to the IT handoff

## Conclusion

The AWOS System has been moved to its new location and is working. Three clicks for the short version, 5 clicks for the full weather readout.

The IT Committee will check the system every month to ensure it is working. If members notice the system is not working they should reach out to the IT Department directly using the form on the website or emailing [Webmaster@eagleroost.org](mailto:Webmaster@eagleroost.org) directly.