

AMS-NWA Memphis Chapter

Meeting Minutes

January 23, 2024

Opening

The January business meeting of the AMS-NWA Memphis Chapter was called to order at 7:05pm on January 23, 2024, by President Dorian Burnette.

New Business

- The Treasurer's Report was given by Erik Proseus. As of January 23, the scholarship fund balance was \$721.16. The general checking account balance was \$1,102.76.
- A review of upcoming meetings included the AMS national meeting and the Southeast Severe Storms Symposium hosted by the Mississippi State University AMS/NWA Chapter.

Presentation

The speaker for the January meeting was Mike Johnson, the Science and Operations Officer at NWS-Memphis, who presented on the December 10-11, 2021 tornado outbreak, specifically as it pertained to the datasets available and impact-based decision support services (IDSS) leading up to, during, and after the storms. The pre-storm environment was favorable for a QLCS (squall line) with potential for discrete cells capable of producing tornadoes during the evening and overnight hours. Locally, high-end messaging focused on the likelihood of long-track nocturnal tornadoes. In all, there were 121 tornado reports and 426 severe wind reports from the Mid-Mississippi and Ohio Valleys into the Mid-South and Tennessee Valley. The presentation focused specifically on a tornadic supercell that traveled from Leachville, AR to Reelfoot Lake, TN, then into Kentucky, producing at least EF-3 damage. Pairing high-resolution satellite analysis from Sentinel-2 with Gray Sky aerial imagery and a drone, NWS-Memphis found that the suspected "Quad-State Tornado" (AR, MO, TN, KY) actually lifted for 11 miles in northwest TN, meaning the track was not the longest in recorded history as previously thought. However, the parent supercell produced two separate long-track EF-4 tornadoes over nearly 250 miles.

Adjournment

There being no further business, the meeting was adjourned at 8:05pm by President Dorian Burnette. The next meeting will be held on March 21, 2024.

Minutes submitted by: Erik Proseus, Secretary

Approved by: Dorian Burnette, President