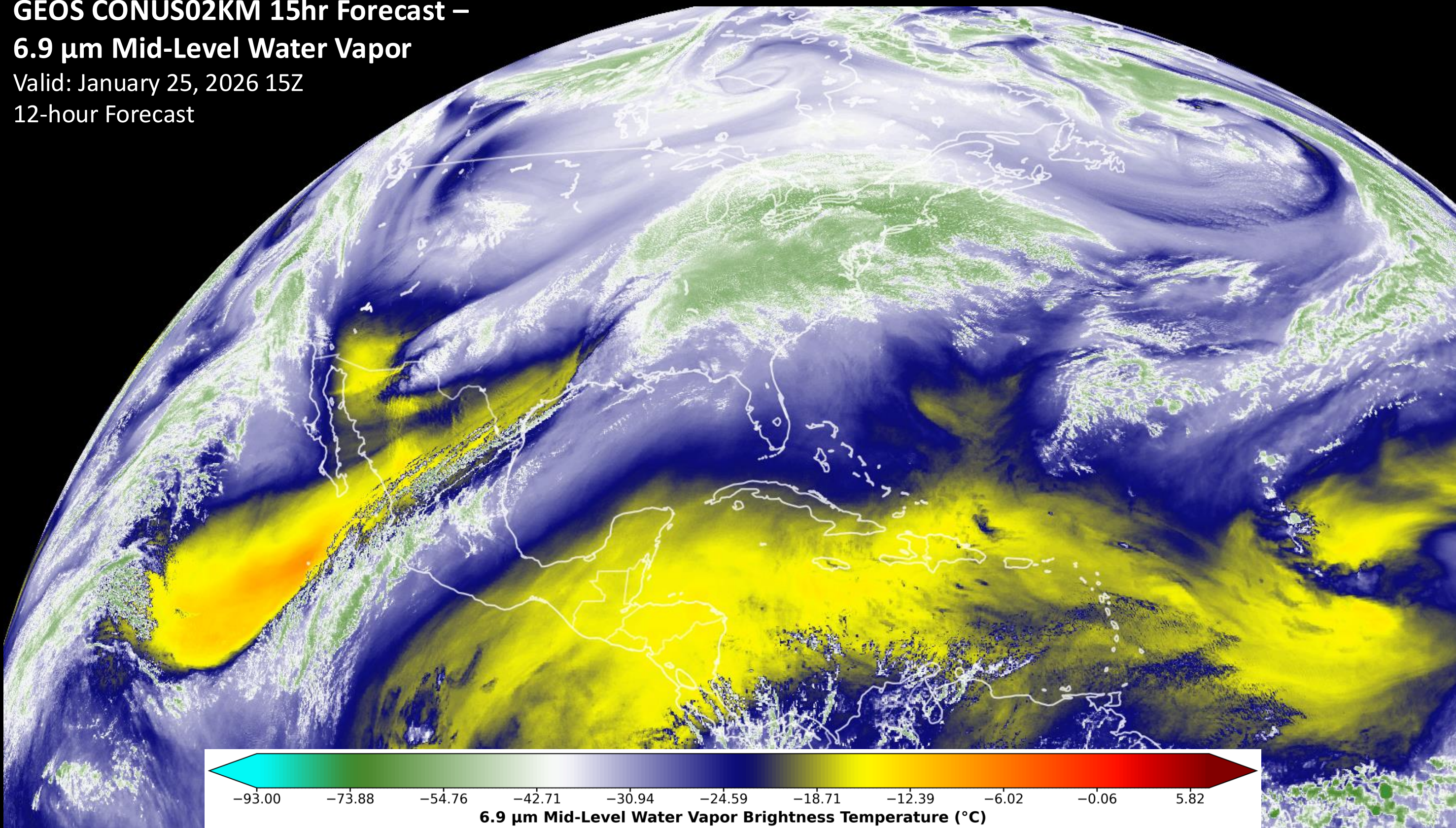


GEOS Model Performs Well With Back-to-Back Winter Storms

GEOS CONUS02KM 15hr Forecast – 6.9 μm Mid-Level Water Vapor

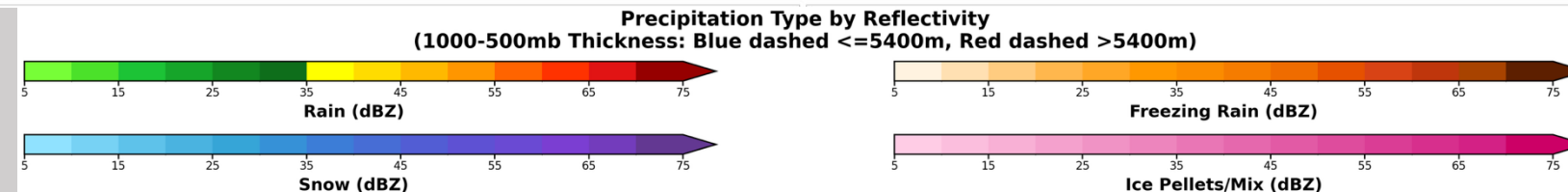
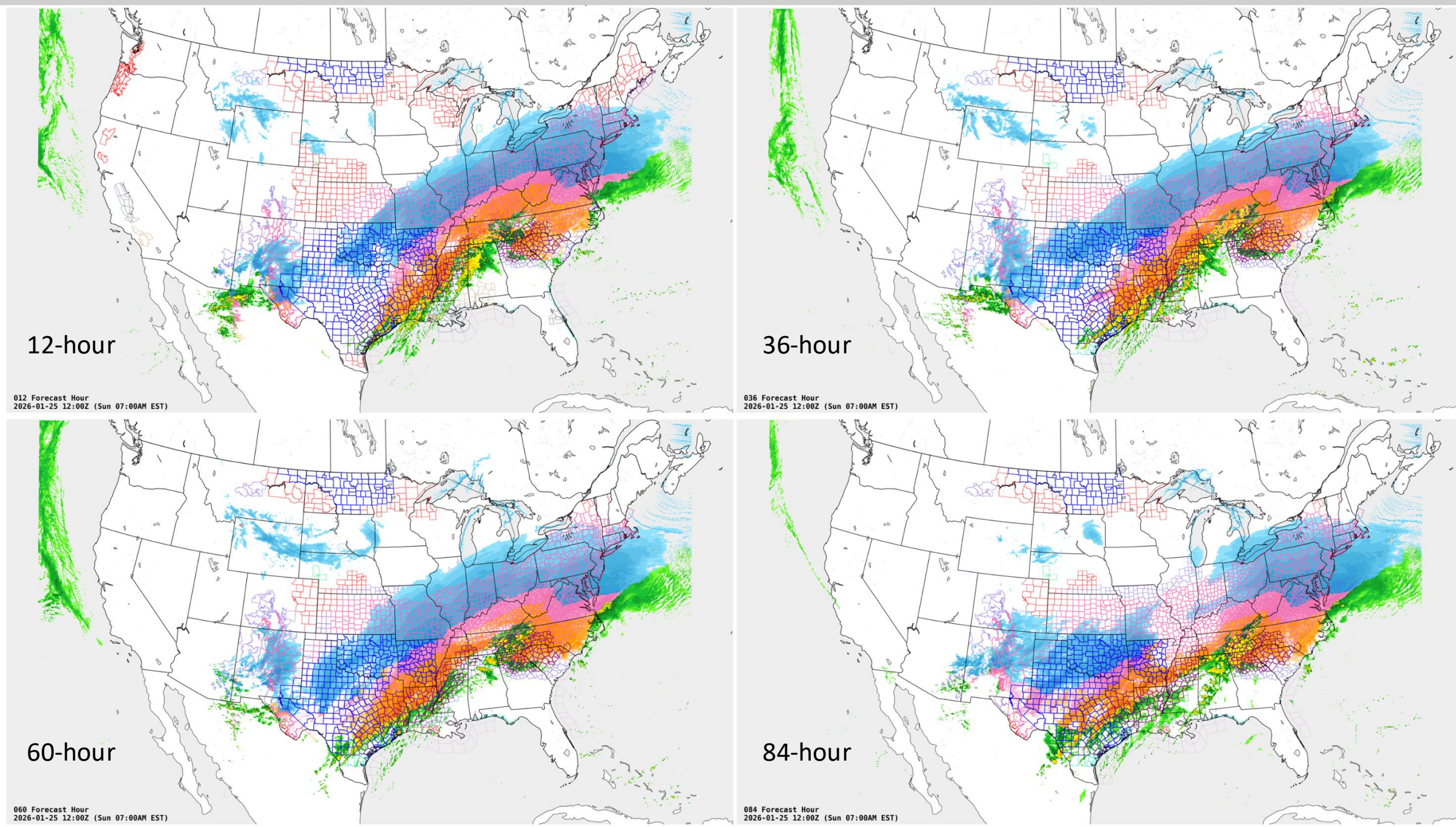
Valid: January 25, 2026 15Z
12-hour Forecast



The GMAO's GEOS-FP model consistently showed Arctic air over Canada plunging deep into the eastern US, just as the southern sub-tropical jet stream branch would direct a large plume of moisture to the same region. Simulated GOES-16 Band 09 brightness temperature ($^{\circ}\text{C}$, at left) shows this set up well: yellow-orange regions indicate dry mid-level air, and white-green regions show the continuous moisture plume. These convergence of these two air masses – modeled to occur as far as two weeks prior around January 24-25, 2026 – produced a major winter storm which impacted a region stretching from Texas to New England.

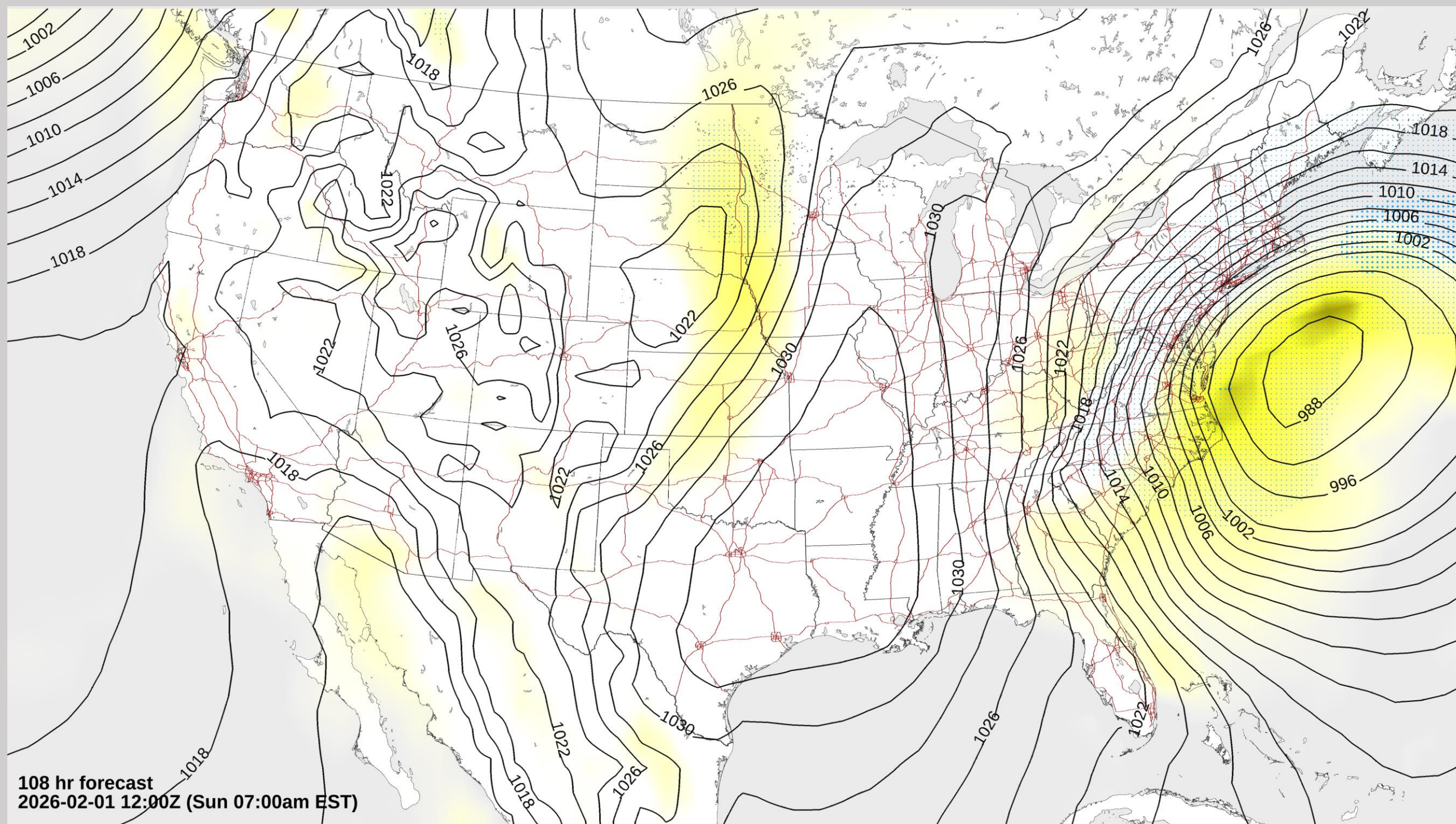
GEOS CONUS02KM Winter Storm Forecast - Precipitation Type Analysis

Valid: January 25, 2026 12Z

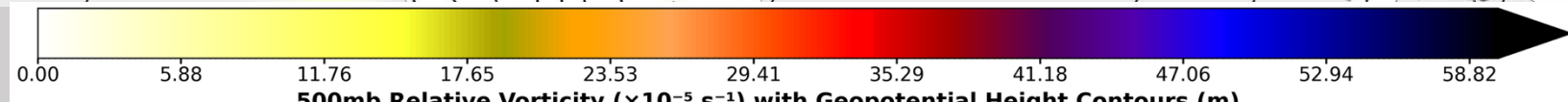


GenCast GEOS-FP 108-hour Artificial Intelligence Ensemble Forecast

Valid: February 1, 2026 12Z



108 hr forecast
2026-02-01 12:00Z (Sun 07:00am EST)



GEOS CONUS02KM 15hr Forecast - 6.9 μm Mid-Level Water Vapor

Valid: January 25, 2026 15Z

