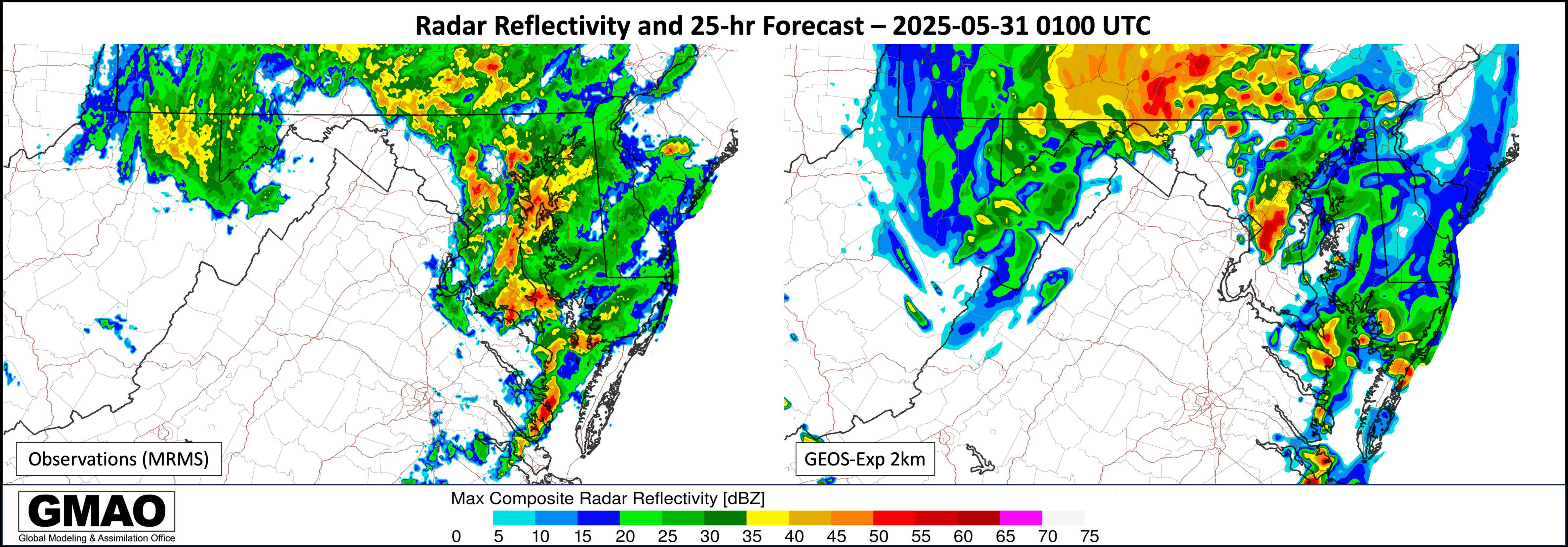
GEOS-2km During the 2025 NOAA-HWT Spring Forecast Experiment



The GMAO again participated in NOAA's Hazardous Weather Testbed Spring Forecast Experiment this past May. Operational forecasters and research meteorologists met at the National Weather Center in Norman, Oklahoma to investigate how well state-of-the-art versions of deterministic convection-allowing models (CAMs) are at forecasting a variety of severe thunderstorms attributes. An experimental, 2-km resolution version of the GMAO's GEOS model performed particularly well and was rated the highest-performing model for the 2–3-dayrange. The above image depicts observed NWS radar (left) for May 31, 2025, at 9pm EDT, and simulated radar reflectivity from the model (right) for the same time, forecasted 25 hours prior.