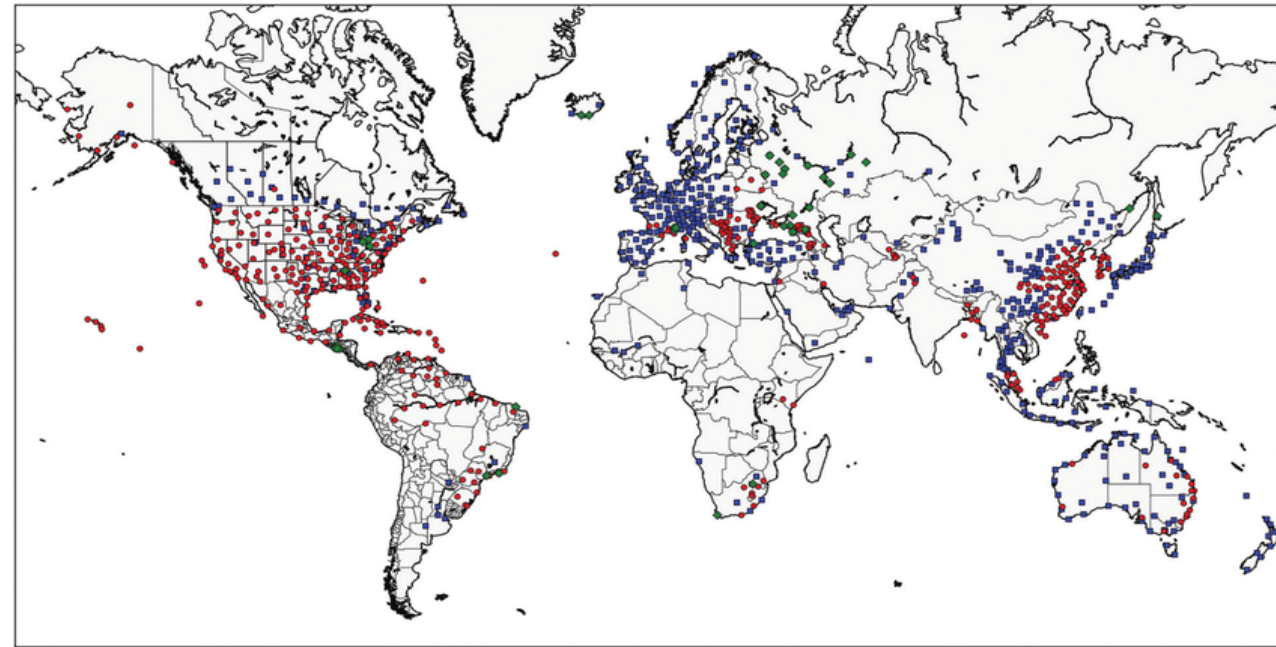
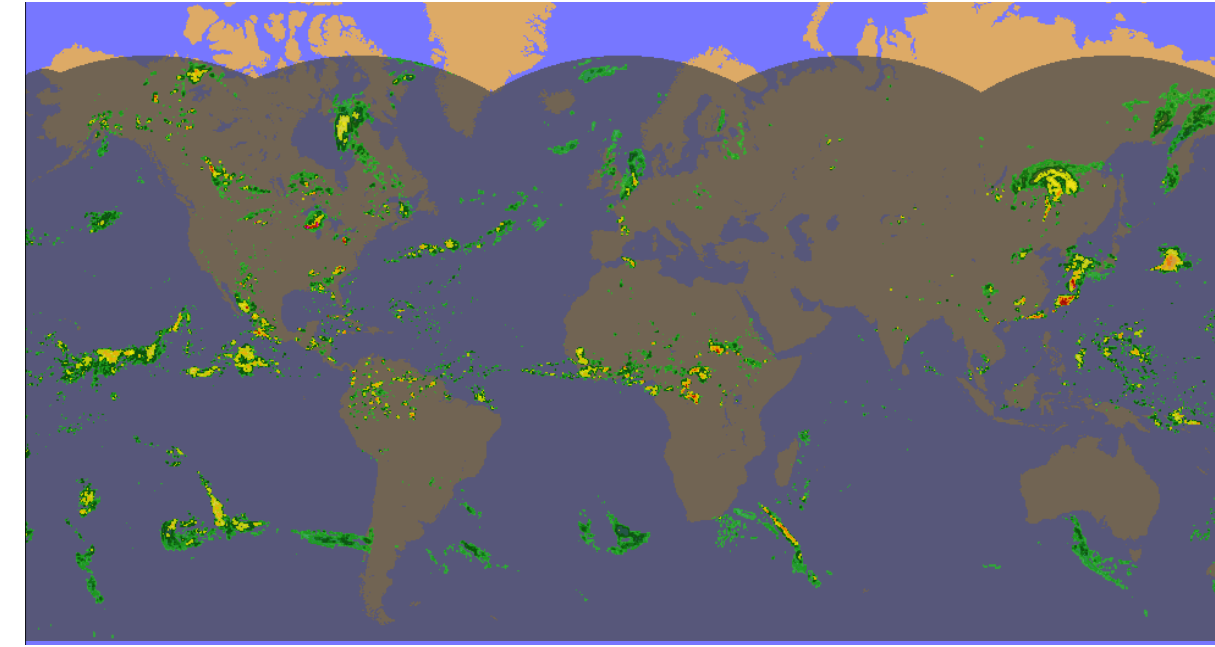




Weather situational awareness provided by radar is critical for many DoD missions; however, radar coverage is not available for most of the world.

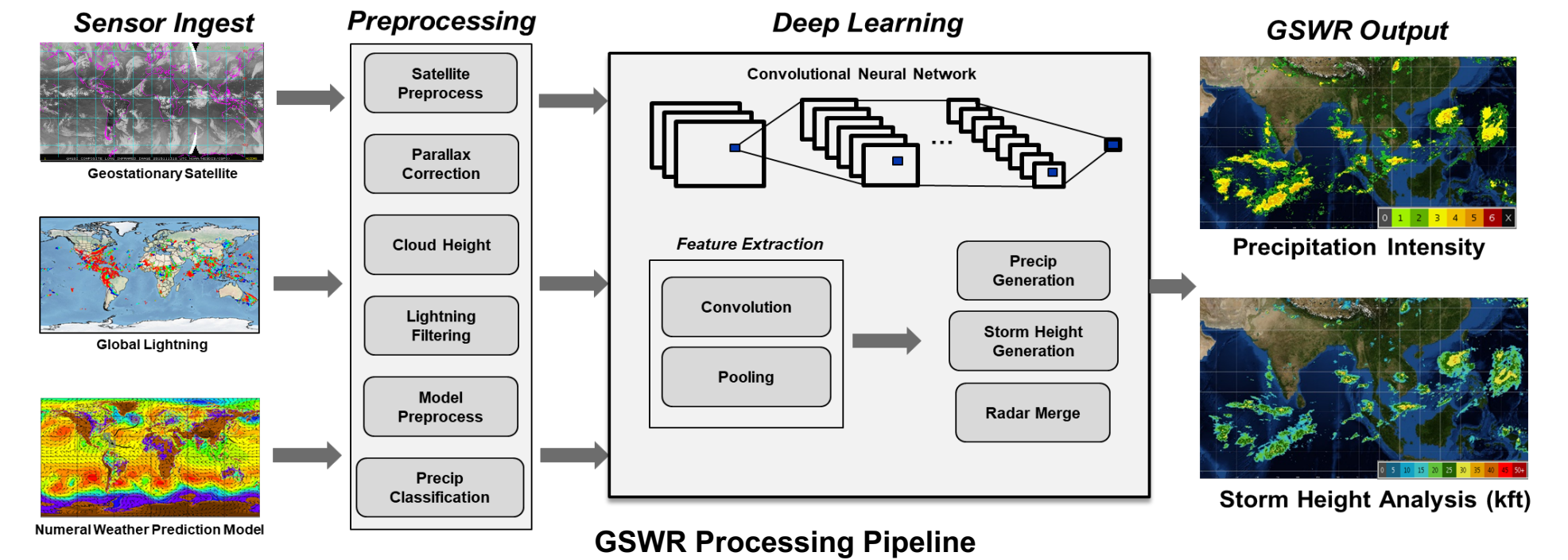


Locations of C- (Green), S- (Blue) and X- (Red) band radars¹



Coverage of US & European Weather Radar Networks
GSRW fills gaps in limited weather radar coverage

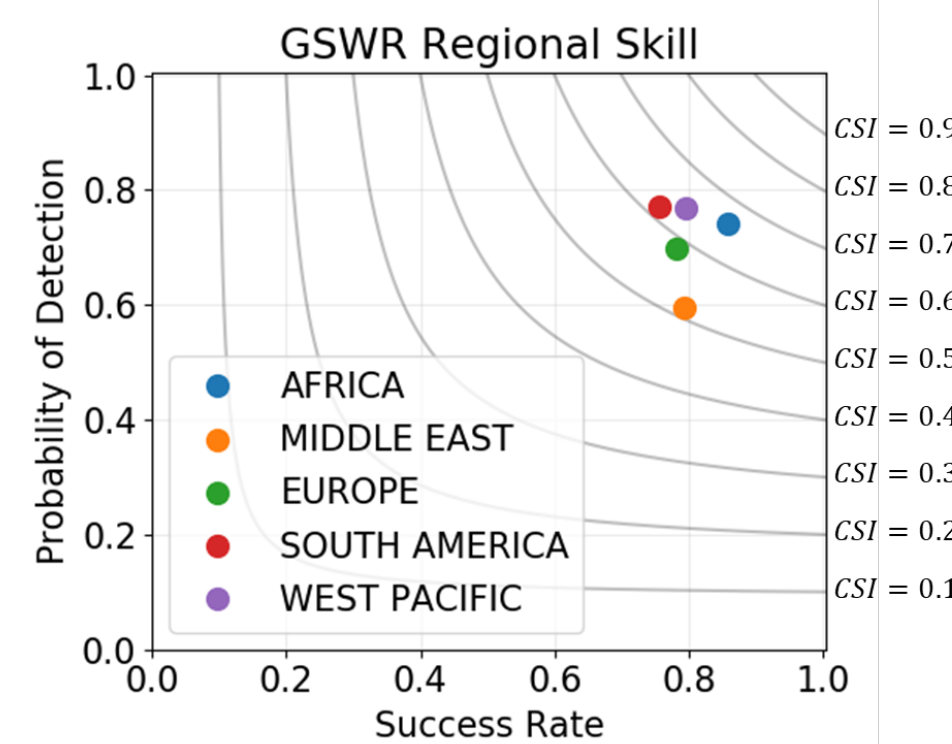
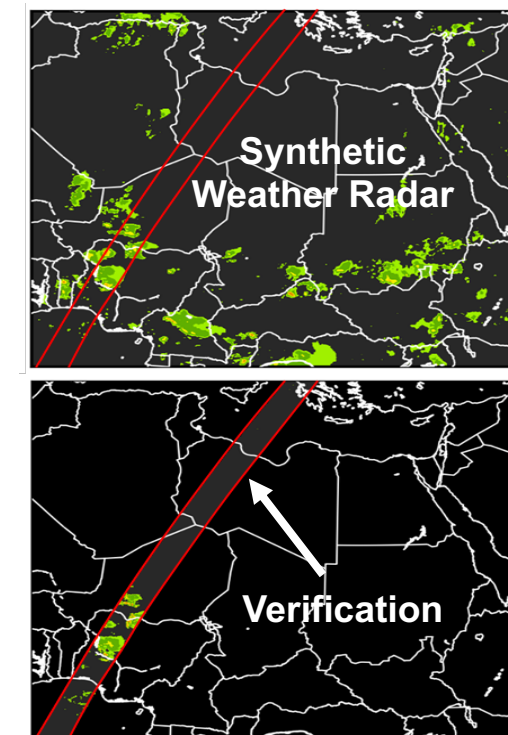
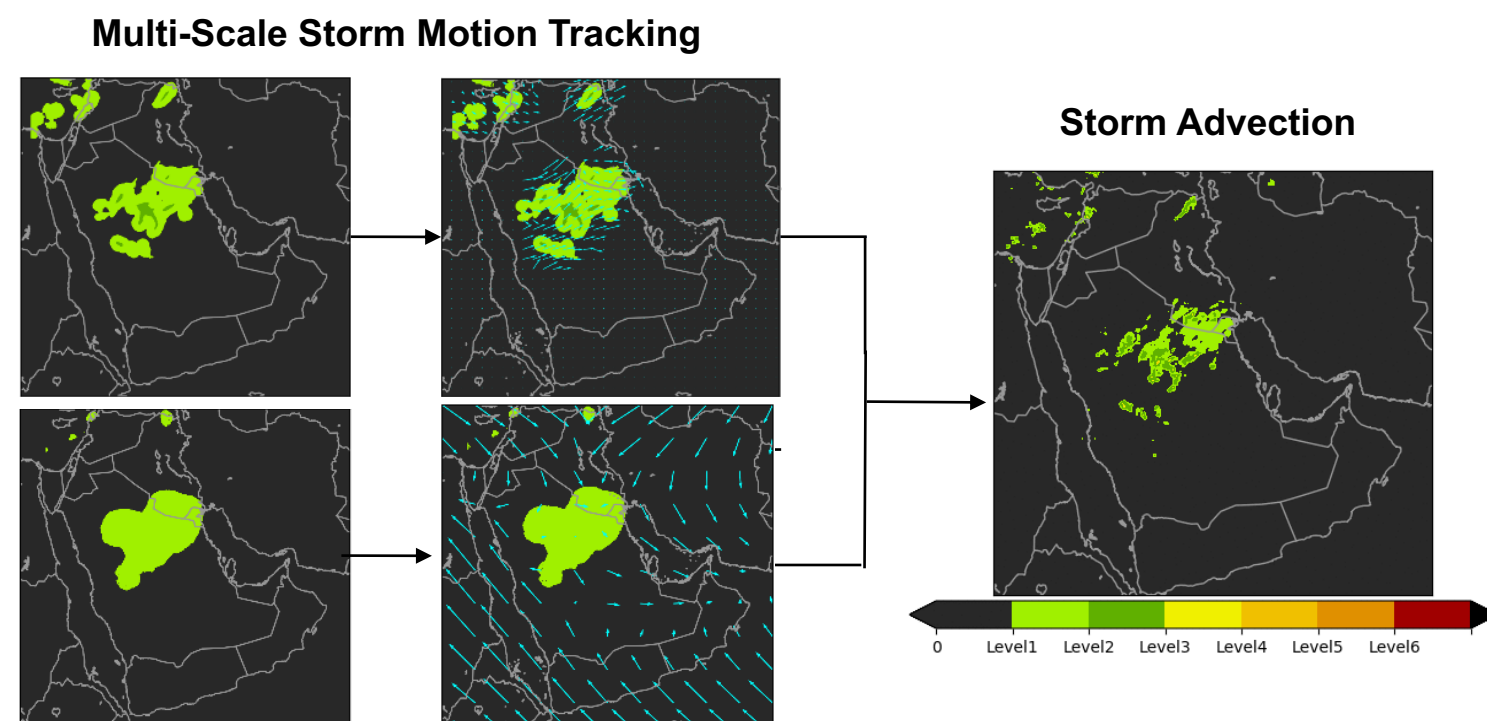
In collaboration with USAF and FAA, MIT LL has developed a Global Synthetic Weather Radar capability to fill gaps in radar coverage



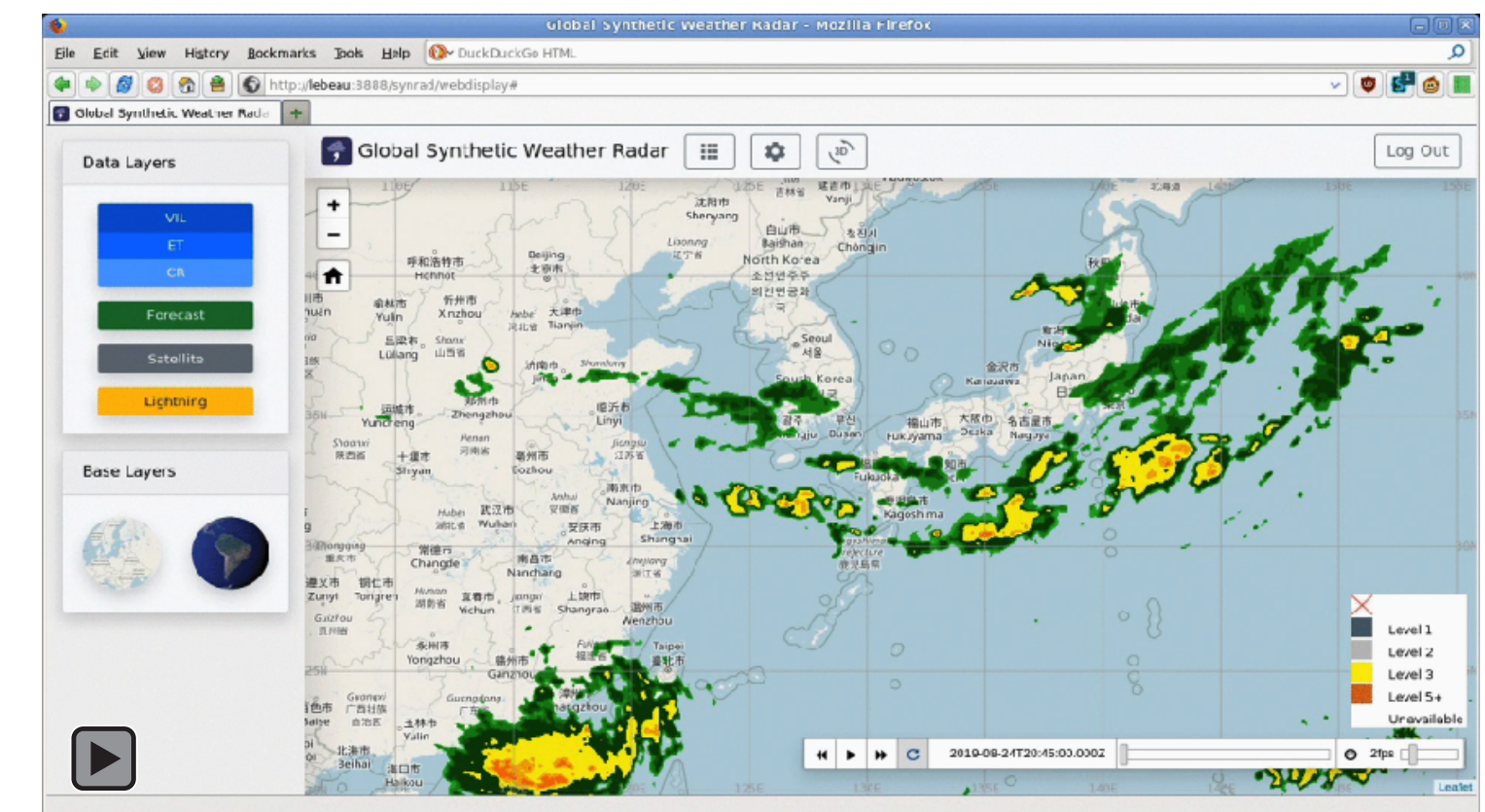
GSRW generates 0-12 hour forecasts by blending short-term storm advection nowcasts with numerical weather forecasts

GSRW is trained and validated using limited spaceborne radar observations provided by the NASA GPM

The GSRW system is being transitioned to a cloud environment for future Air Force evaluation and use



GPM = Global Precipitation Measurement Mission



¹Saltikoff, E., et al. "The Threat to Weather Radars by Wireless Technology, Bull. Amer. Meteor. Soc." (2015).