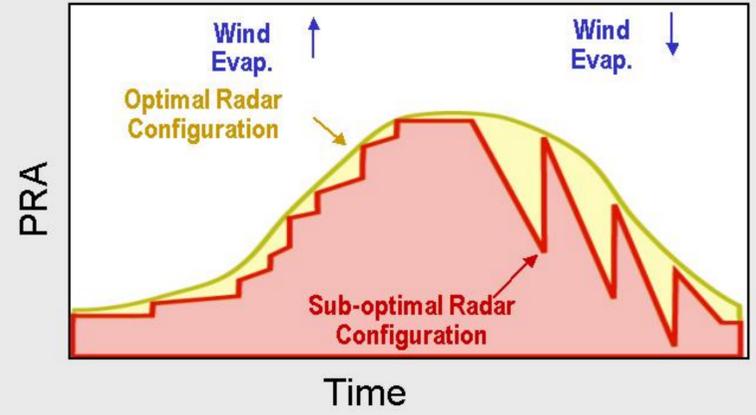
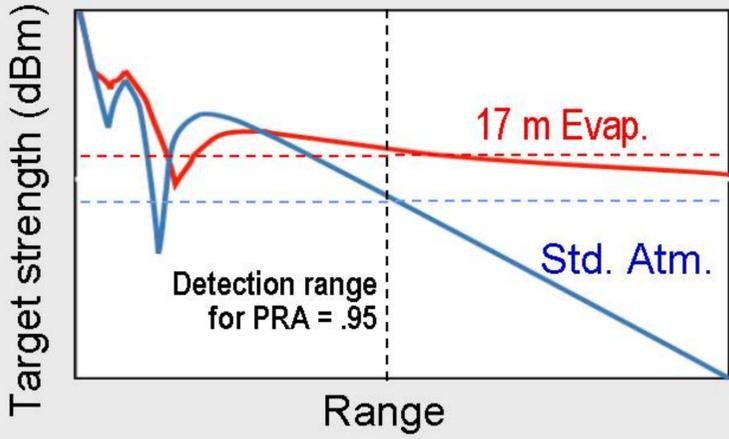


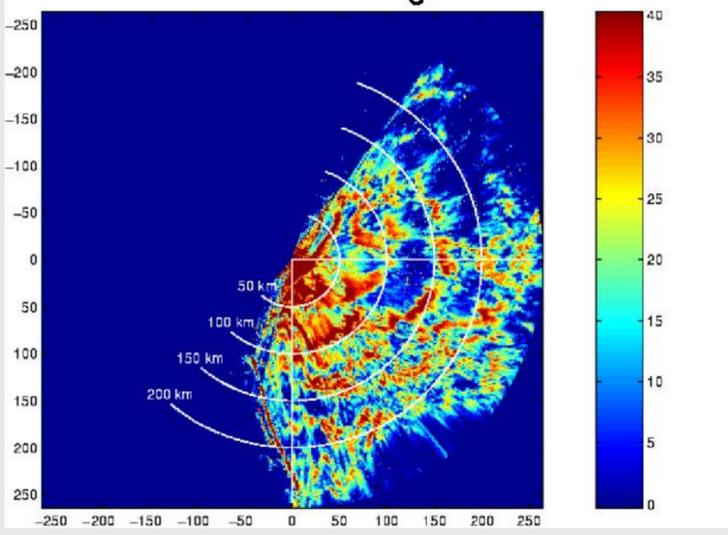
Refractivity-from-clutter (RFC)

Radar capability and optimal setup are functions of ducting conditions.

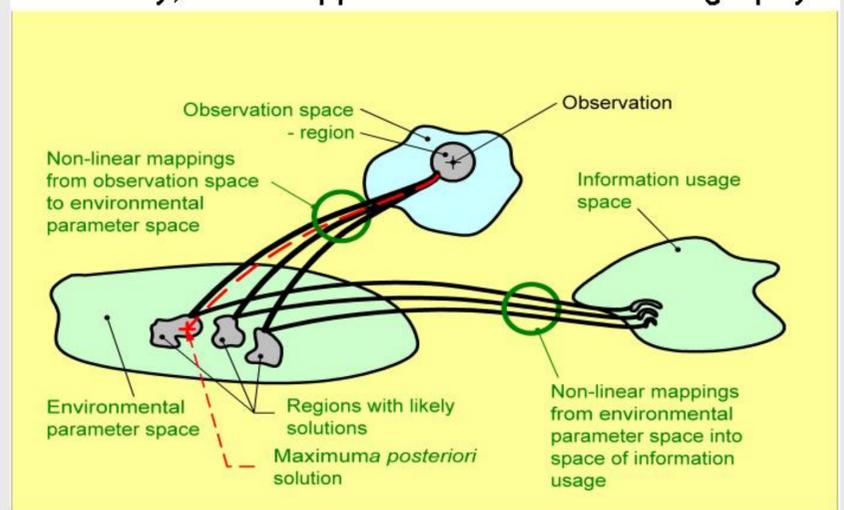


In practice, ducting conditions are poorly known. But the signature of the ducting is embedded in the radar clutter. The challenge: Map radar clutter into propagation.

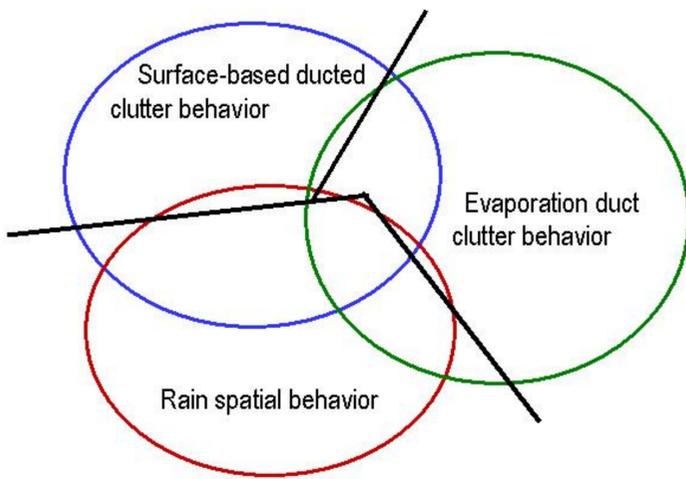
Example of convergence-zone like behavior with surface-based ducting



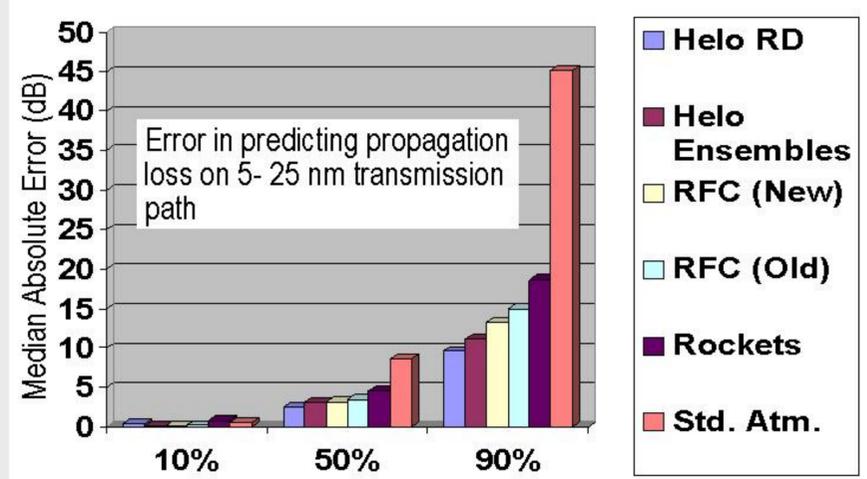
Inverse problem addressed by SPAWAR, Duke University, and Scripps Institution of Oceanography



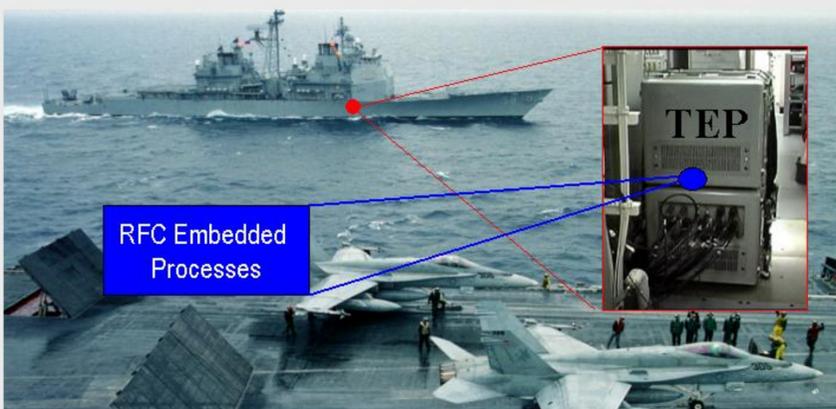
Classification problem addressed by SPAWAR and National Severe Storms Laboratory



System testing provided by the Naval Surface Warfare Center Dahlgren Division



Demonstration unit embedded system development is on schedule.



BG Demonstration FY 05 with Lockheed-Martin TEP System and NRL NOWCAST. Build for Aegis Open Architecture

The Future

- Automated SPY-1 adjustment
- Fusion with NWP model output
- Feed Battlespace EOB picture
- Apply TTS technology to other problems