

NEXRAD: Still the Best and Getting Better

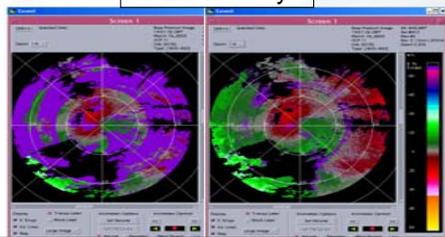
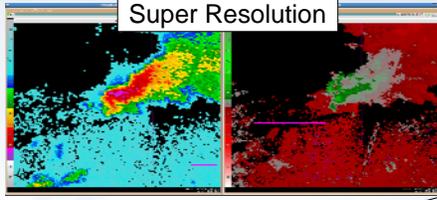
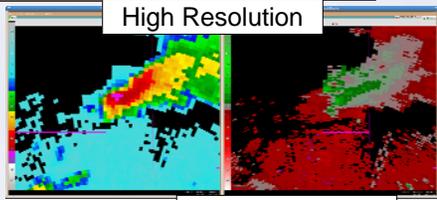
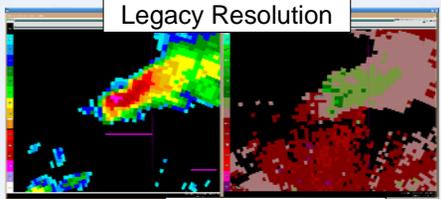
Richard Vogt
Director, NEXRAD Radar Operations Center



With Service Life Extension investment, WSR-88D can remain viable through 2030 or until replacement technology is operational.

WSR-88D is the World's Best Operational Radar thanks to NEXRAD Product Improvement and Tech Refresh investments, and new science infusion. These initiatives have increased capabilities while controlling O&M costs.

Through sustaining engineering and Tech Refresh investments, WSR-88D continues to be upgradable, reliable and maintainable through at least 2020.



SZ2 Velocity

Reduces Range-Folded Data to <10% of the Field

Last WSR-88D Installed 1997 (Avg age 16 yrs)
After installation of WSR-88D, percentage of tornadoes warned for increased from 35% to 60%, while mean lead time on warnings increased from 5.3 to 9.5 min. *Simmons and Sutter, 2005*

Conversion from circular polarization to linear horizontal polarization

First Test Bed WSR-88D Installed



WSR-88D Deployment Began

Operational Support Facility (OSF), now known as the Radar Operations Center (ROC), established

1987

Unisys Contract Award

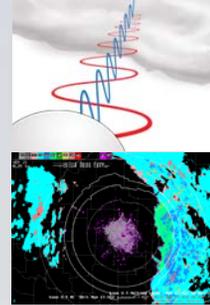
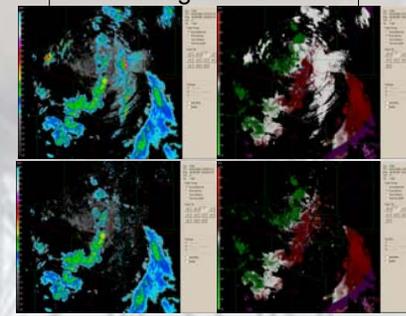
ORDA
Digital Receiver, GMAP Clutter Filter, Open Systems processor and software that support infusion of new science, faster VCPs, etc.,

RPG Tech Refresh

2005

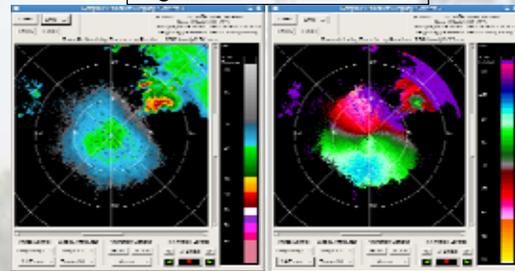
Real-time Level II Distribution

Clutter Mitigation Decision



2000

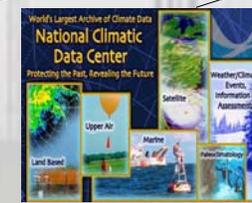
High Resolution Products



ORPG
Open Systems processor and software that support infusion of new science

MPDA, SCIT, REC, MDA, TDA, DVIL, EET, Upgraded Hydromet Algorithms and Products, Snow Accumulation Algorithms and Products, Automated Data Quality Algorithms, etc.,

Digital Communications



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