

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*

1995
 Conversion from circular polarization to linear horizontal polarization
 First Test Bed WSR-88D Installed

1990
 WSR-88D Deployment Began
 Operational Support Facility (OSF), now known as the Radar Operations Center (ROC), is established

1987
 Unisys Contract Award

364 NEXRAD: Still the Best and Getting Better

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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.

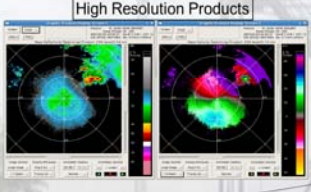
Through Sustaining Engineering and Tech Refresh investments, WSR-88D continues to be upgradable, reliable and maintainable through at least 2020

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

RPG Tech Refresh

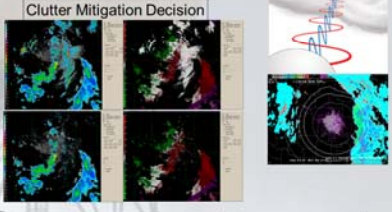
2005
 Real-time Level II Distribution

2000



Emerging Technologies
 With Service Life Extension Investment, WSR-88D can remain viable until replacement technology (e.g., MPAR) is operational

2020
 Future Dual Pol & Super Resolution Science
2010
Dual Polarization
 Improved QPE, Hydrometeor Classification, etc



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

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

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 The views expressed are those of the authors and do not necessarily represent those of NOAA's National Weather Service