Noaa Weather Radar Resolution Loop

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Acid Test at Grand Island DIANE Publishing
NOAA Weather Wire Service is part of National Disaster Warning Communication System (NADWARN).
NOAA Weather Radio National Academies Press
During the 1980s and 1990s, the National Weather Service (NWS) undertook a major program called the Modernization and Associated Restructuring (MAR). The MAR was officially completed in 2000. No comprehensive assessment of the execution of the MAR plan, or comparison of the promised benefits of the MAR to its actual impact, had ever been conducted. Therefore, Congress asked the National Academy of Sciences to conduct an end-to-end assessment. That report, The National Weather Service Modernization and Associated Restructuring: A Retrospective Assessment, concluded that the MAR was a success. Now, twelve years after the official completion of the MAR, the challenges faced by the NWS are no less important than those of the pre-MAR era. The three key challenges are: 1) Keeping Pace with accelerating scientific and technological advancement, 2) Meeting Expanding and Evolving User Needs in an increasingly information centric society, and 3) Partnering with an Increasingly Capable Enterprise that has grown considerably since the time of the MAR. Weather Services for the Nation presents three main recommendations for responding to these challenges. These recommendations will help the NWS address these challenges, making it more agile and effective. This will put it on a path to becoming second to none at integrating advances in science and technology into its operations and at meeting user needs, leading in some areas and keeping pace in others. It will have the highest quality core capabilities among national weather services. It will have a more agile organizational structure and workforce that allow it to directly or indirectly reach more end-users, save more lives, and help more businesses. And it will have leveraged these capabilities through the broader enterprise. This approach will make possible societal benefits beyond what the NWS budget alone allows.
National Severe Local Storms Operations Plan
Weather radar is a vital instrument for observing the atmosphere to help provide weather forecasts and issue weather warnings to the public. The current Next Generation Weather Radar (NEXRAD) system provides Doppler radar coverage to most regions of the United States (NRC, 1995). This network was designed in the mid 1980s and deployed in the 1990s as part of the National Weather Service (NWS) modernization (NRC, 1999). Since the initial design phase of the NEXRAD program, considerable advances have been made in radar technologies and in the use of weather radar for monitoring and prediction. The development of new technologies provides the motivation for appraising the status of the current weather radar system and identifying the most promising approaches for the development of its eventual replacement. The charge to the committee was to determine the state of knowledge regarding ground-based weather surveillance radar technology and identify the most promising approaches for the design of the replacement for the present Doppler Weather Radar. This report presents a first look at potential approaches for future upgrades to or replacements of the current weather radar system. The need, and schedule, for replacing the current system has not been established, but the committee used the briefings and deliberations to assess how the current system satisfies the current and emerging needs of the operational and research communities and identified potential system upgrades for providing improved weather forecasts and warnings. The time scale for any total replacement of the system (20- to 30-year time horizon) precluded detailed investigation of the designs and cost structures associated with any new weather radar system. The committee instead noted technologies that could provide improvements over the capabilities of the evolving NEXRAD system and recommends more detailed investigation and evaluation of several of these technologies. In the course of its deliberations, the committee developed a sense that the processes by which the eventual replacement radar system is developed and deployed could be as significant as the specific technologies adopted. Consequently, some of the committee's recommendations deal with such procedural issues.
Severe Storms
Microwave FM-CW radars have been used for about 5 years to monitor the structure of atmospheric regions with large refractive-index fluctuations. We have recently devised a scheme that retrieves the Doppler velocity spectrum for each range resolution cell measured by an FM radar. In this paper we report initial results of meteorological measurements with this new capability and discuss its potential in remote sensing of the boundary layer.
National Weather Service
NOAA Weather Wire Service is part of National Disaster Warning Communication System (NADWARN).
NOAA Weather Radio

All Hazards NOAA Weather Radio

NOAA Hurricane Forecasting

Secretary's Report to Congress on Adequacy of NEXRAD Coverage and Degradation of Weather Services Under National Weather Service Modernization for 32 Areas of Concern

World Conference on Radio Meteorology Incorporating the Eleventh Weather Radar Conference

Operations of the National Weather Service

NOAA.

NOAA Products and Services of the National Weather Service, National Environmental Satellite Service, Environmental Data Service, and the Environmental Research Laboratories

Introduction to Weather Radar

FCM.

National Weather Service Radar Code User's Guide

NOAA Program Plan

National Weather Service

Worldwide Marine Radiofacsimile Broadcast Schedules

NOAA Weather Radio