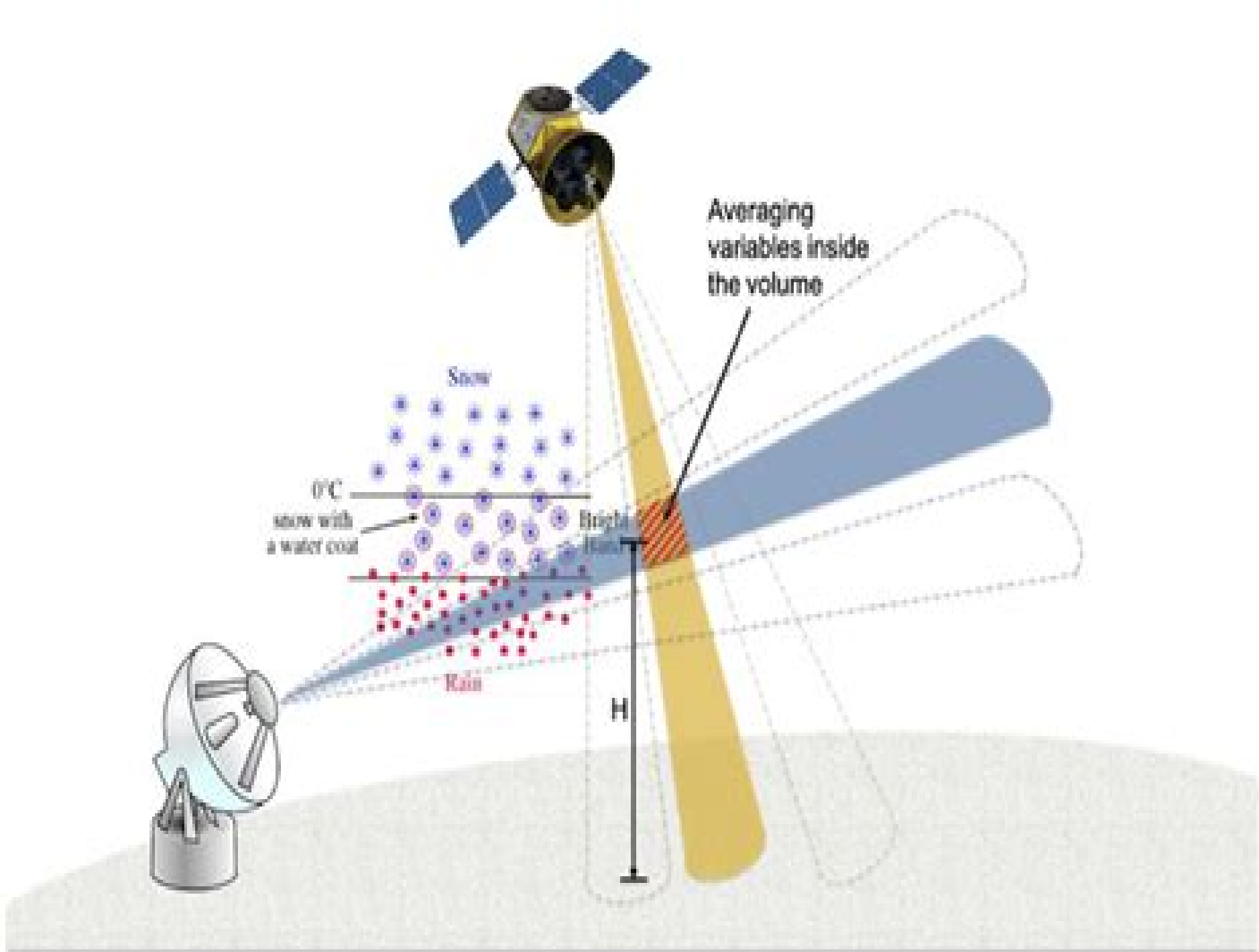




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help provide weather forecasts and issue weather warnings to the public The current Next Generation Weather Radar NEXRAD system provides Doppler radar coverage to most regions of the United States NRC 1995 This network was designed in the mid 1980s 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

Air & Space Power Journal sum 04 , Doppler Radar & Weather Observations Richard J. Doviak, Dusan S. Zrnic, 2014-08-27 This book reviews the principles of Doppler radar and emphasizes the quantitative measurement of meteorological parameters It illustrates the relation of Doppler radar data and images to atmospheric phenomena such as tornados microbursts waves turbulence density currents hurricanes and lightning Radar images and photographs of these weather phenomena are included Polarimetric measurements and data processing An updated section on RASS Wind profilers Observations with the WSR 88D An updated treatment of lightning Turbulence in the planetary boundary layer A short history of radar Chapter problem sets

Radar in Meteorology David Atlas, 2015-03-30 This fully illustrated volume covers the history of radar meteorology deals with the issues in the field from both the operational and the scientific viewpoint and looks ahead to future issues and how they will affect the current atmosphere With over 200 contributors the volume is a product of the entire community and represents an unprecedented compendium of knowledge in the field

Hurricane Monitoring With Spaceborne Synthetic Aperture Radar Xiaofeng Li, 2017-05-17 This book discusses in detail the science and morphology of powerful hurricane detection systems It broadly addresses new approaches to

monitoring hazards using freely available images from the European Space Agency's ESA's Sentinel 1 SAR satellite and benchmarks a new interdisciplinary field at the interface between oceanography meteorology and remote sensing Following the launch of the first European Space Agency ESA operational synthetic aperture radar satellite Sentinel 1 in 2014 synthetic aperture radar SAR data has been freely available on the Internet hub in real time This advance allows weather forecasters to view hurricanes in fine detail for the first time As a result the number of synthetic aperture radar research scientists working in this field is set to grow exponentially in the next decade the book is a valuable resource for this large and budding audience

Radar and Atmospheric Science Roger Wakimoto, 2015-03-30 This book is a tribute to one of the leading scientists in meteorology Dr David Atlas It was written by a group of specialists and presented at a symposium to honor Dr Atlas life and career as meteorologist It serves as a comprehensive resource for scientists and educators and also as an inspiring historical record of scientific research and important discoveries in the field of meteorology

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