

STEPHEN VOLZ, Ph.D.



SPACE AGENCIES' OUTLOOKS

Our planet is incredibly complex and constantly changing. NOAA's Satellite & Information Service (NESDIS) aspires to provide a truly integrated digital understanding of our Earth environment through products, services, and comprehensive data delivery and stewardship that can evolve quickly to meet changing user expectations by leveraging our own capabilities as well as partner expertise. In addition, NESDIS seeks to promote and protect our environment, security, economy and quality of life through the secure and timely access to global environmental data and information, and forward looking development of novel data sources and systems.

NOAA's pursuit of Earth system science relies on NESDIS and partners pushing new boundaries with our products, service delivery, and in enabling integrated environmental system modeling and climate service delivery. NESDIS is evolving our approach to common ground systems, satellite architecture, data stewardship, data distribution, and user preparedness to ensure we are a more mission-effective, integrated, adaptable organization that anticipates and responds efficiently to changing technology, emerging partnerships and evolving observation requirements. Recent new investments at NOAA are focused on enhancing climate information services. Through next generation system planning and development, NESDIS is incorporating user feedback, expanding data access to more communities, envisioning and communicating the future capabilities and outcomes unlocked by next generation system advancements.

In this presentation, we provide an overview of NOAA's current satellites and plans for future satellites, our important partnerships, and examples of our products and applications of potential interest to users around the world.

CV

Stephen Volz, Ph.D., serves as the Assistant Administrator for NOAA's Satellite and Information Service.

Dr. Volz has 35 years of professional experience in aerospace. As the NOAA lead for all space Earth Observations, Dr. Volz helps define the space and information architecture for NOAA, and, working in partnership with NASA and other US agencies, helps guide the U.S. approach to future civil space observations. He is a leader in the international Earth observation community, serving as the NOAA Principal both to the Committee on Earth Observation Satellites (CEOS) and to the Coordinating Group of Meteorological Satellites (CGMS). Dr. Volz is the U.S. Principal to the Executive Committee of the international Group on Earth Observations (GEO), and in this capacity he helps lead efforts coordinating with global participants on the use of global Earth Observations data, including satellite-based

observations, to further the delivery of comprehensive environmental information to communities around the world. He serves as the Co-Chair of the NOAA Observing Systems Council and is also a member of the NOAA Executive Council. Dr Volz also served as Acting Assistant Secretary of Commerce for Environmental Observation and Prediction (ASEOP), for almost 33 months over two periods between 2016-2022.

Dr. Volz previously served as the Associate Director for Flight Programs in the Earth Science Division of NASA's Science Mission Directorate where he managed all of NASA's Earth Science flight missions and associated activities. Prior to serving as the Flight Program Director, Dr. Volz was the Earth Science program executive for a series of Earth Science missions, including EO-3 GIFTS, CloudSat, CALIPSO, and ICESat, and he led the Senior Review for the Earth Science operating missions. Dr. Volz worked in industry at Ball Aerospace and Technologies Corporation from 1997–2002, where he was the Project Manager for the Spitzer Space Telescope (formerly the Space Infrared Telescope Facility) superfluid helium cryostat and other flight projects. From 1986–1997 Dr. Volz worked for NASA's Goddard Space Flight Center as an instrument manager, an I&T Manager, a systems engineer, and a cryogenic systems engineer on missions and instruments including the Cosmic Background Explorer (COBE), among others.

Dr. Volz is a member of several professional societies, including the International Committee on Remote Sensing of the Environment (ICORSE), the American Physical Society, the American Astronomical Society, the American Geophysical Union, and the American Meteorological Society . He is a senior member of the Institute of Electrical and Electronics Engineers and an active member of and participant in the Geoscience and Remote Sensing Society.