



NOAA Emerging Technologies Workshop

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NOAA Center for Weather and Climate Prediction (NCWCP)
College Park, Maryland

Workshop Session Chair



John McDonough

NOAA Office of Ocean Exploration and Research

National Oceanic & Atmospheric Administration

John McDonough joined NOAA's Office of Marine and Aviation Operations (OMAO) in January 2017 serving on a detail to develop a framework and process to identify, develop, test, evaluate and transition advanced technologies that support the NOAA mission and are compatible with NOAA vessels and aircraft. This includes specific recommendations on the most promising and affordable technologies that meet multiple NOAA mission requirements and could be transitioned to become a core OMAO provided capability.

Between 1989 and 2002 he served as a physical scientist with NOAA's National Ocean Service where he developed data and geographic information systems related to coastal and marine environments, and developed tools and data products required by marine resource managers to make informed decisions. This included work on interagency efforts to establish a management plan for the Florida Keys National Marine Sanctuary and a Coastal Water Quality Protection Program for central California. He also served as the NOAA project coordinator for the five year Sustainable Seas Expeditions - a collaboration between NOAA and the National Geographic Society to explore the system of NOAA National Marine Sanctuaries.

He joined the NOAA Office of Ocean Exploration and Research as the Operations Coordinator in 2003 and became the office's Deputy Director in 2005 where he planned and executed collaborative ocean exploration campaigns with federal agencies, non-profit organizations, academic institutions and industry both nationally and internationally. He has worked extensively with OMAO throughout his career and has been engaged in several NOAA ship conversions, most notably the conversion of the USN *Capable* to NOAA Ship *Okeanos Explorer*.

Among his many duties he has represented NOAA Research on the NOAA Coral Reef Conservation Program Senior Management Council; served as the NOAA representative on the Executive Committee of the Interagency Extended Continental Shelf Mapping Task Force; established an ongoing partnership between NOAA, the Bureau of Ocean Energy Management, and the US Geological Survey to conduct baseline characterizations of previously unknown marine areas in the Gulf of America and Mid-Atlantic Bight; and in collaboration with NOAA Fisheries and NOAA's National Ocean Service helped establish the NOAA Deep Sea Coral Research and Technology Program.

He has a B. S. in Physical Geography and Coastal Geomorphology from the University of Maryland, and a M. A. in Environmental Science and Policy from the Johns Hopkins University.