

Marine Technician Professional Development

Short Course on Automated Underway Meteorological Observation

This short course comprises a series of explanations, hands-on activities, and interactive discussions designed to address concerns frequently encountered by marine technicians and other personnel responsible for the collection of meteorological data on research vessels. Topics include the importance of collecting accurate data, minimum requirements for marine applications, and a brief overview of marine meteorology; common sensors and measurement systems; sensor location and exposure; adjusting observations for ship motion and sensor height; and quality assurance and quality control.

Facilitators

Meteorologist Chris Fairall, lead scientist for the NOAA ESRL PSD Weather and Climate Physics Branch, has developed instrumentation to measure air-sea fluxes on research vessels for several decades. He has participated in dozens of research cruises on numerous US and international research vessels.

Meteorologist Dan Wolfe, a former Marine Science Technician with the US Coast Guard and field technician at NCAR, has been with NOAA since 1975. He has participated in numerous ship-based research cruises, including cruises on the *Healy*, *Knorr*, *Atlantis*, *Ronald Brown*, *Ka'imimoana*, and *Moana Wave*.

Meteorologist Shawn Smith is a research scientist and manager of the research vessel data center at the Florida State University. He has participated in two Antarctic field programs, leads the Shipboard Automated Meteorological and Oceanographic System Initiative, and contributes to marine climate data activities for the World Meteorological Organization.