



Informatics for multi-disciplinary ocean sciences

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Ocean researchers must work across disciplines to provide clear and understandable assessments of the state of the ocean. With advances in technology, not only in observation, but also communication and computer science, we are in a new era where we can answer questions at the time and space scales that are relevant to our state of the art research needs. This presentation will address three areas of the informatics of the end-to-end process: sensors and information extraction in the sensing environment; using diverse data for understanding selected ocean processes; and supporting open data initiatives. A National Science Foundation funded Ocean Observations Research Coordination Network (RCN) is addressing these areas from the perspective of improving interdisciplinary research. The work includes an assessment of Open Data Access with a paper in preparation. Interoperability and sensors is a new activity that couples with European projects, COOPEUS and NeXOS, in looking at sensors and related information systems for a new generation of measurement capability. A working group on synergies of in-situ and satellite remote sensing is analyzing approaches for more effective use of these measurements. This presentation will examine the steps forward for data exchange and for addressing gaps in communication and informatics.