



Deep Ocean Observing Strategy
Terms of Reference
Draft: March 2017

1. *Build understanding on what is most important to observe.*
 - Identify important science and societal questions and relevant variables for stakeholders
 - Identify the high priority processes and phenomena in the deep ocean to observe
2. *Provide a hub for integration opportunities:*
 - Act as an agent to coordinate existing deep observing activities across disciplines to form a systematic, sustained deep-ocean observing system.
 - Act as an integrator to create linkages among appropriate research, intergovernmental, industry, regulatory and funding agencies to achieve deep-ocean societal objectives through science.
 - Foster observing activities at community identified multi-use, multi-disciplinary sites, representing different key biogeochemical and ecological regimes and questions.
3. *Coordinate observations to:*
 - Utilize existing platforms for new sensors or integration of physical, biogeochemical and biological sensors in order to improve observing efficiency.
 - Document the state of deep-ocean observing
 - Identify standards and best practices for observing the deep sea
4. *Develop deep observing requirements*
 - Identify the EOVs specific to the deep ocean and add deep-ocean specifications to existing GOOS EOVs
 - Identify gaps (knowledge, geographic, variables, technical, data) and emerging systems relative to the key science and societal questions
5. *Build readiness in observing technology and techniques*
 - Promote new technology developments and assess their suitability to address key scientific questions, management issues, or early warning of ocean hazards/extreme events.
 - Build ability to use technologies, and facilitate transfer of technology to developing countries
6. *Foster availability, discoverability, and usability of deep ocean data.*
 - Promote fit –for-purpose data
7. *Create a common community science implementation guidance / plan for deep-ocean observing*
 - *Advocate for deep observations particularly as outlined within the science implementation plan*