



Implementing a data management quality management framework at the Marine Institute, Ireland

Adam Leadbetter, Rob Thomas, Sarah Flynn, Will Meaney, Siobhan Moran, and Ramona Carr
Marine Institute, Ocean Science & Information Services, Oranmore, Ireland (adam.leadbetter@marine.ie)

The International Oceanographic Data and Information Exchange of UNESCO's Intergovernmental Oceanographic Commission (IOC-IODE) released a quality management framework for its National Oceanographic Data Centre (NODC) network in 2014 [1]. This document is intended, amongst other goals, to provide a means of assistance for NODCs to establish organisational data management quality management systems. The IOC-IODE's framework also promotes the accreditation of NODCs which have implemented a data management quality management framework adhering to the guidelines laid out in the IOC-IODE's framework.

In its submission for IOCE-IODE accreditation, Ireland's National Marine Data Centre (hosted by the Marine Institute) included a Data Management Quality Management model; a manual detailing this model and how it is implemented across the scientific and environmental data producing areas of the Marine Institute; and, at a more practical level, an implementation pack consisting of a number of templates to assist in the compilation of the documentation required by the model and the manual.

In this presentation, we will expand on the content of the implementation pack, which consists of the following:

- Data management plan
- Requirements document, including acceptance criteria
- Data management process flow, including issues register and General Data Protection Regulation criteria
- Standard operating procedure(s)
- Data catalogue entry, adhering to the ISO19115 data model
- Data management process performance evaluation
- Summary of lessons learned and feedback on the data management quality management framework

References

[1] Paris. Intergovernmental Oceanographic Commission of UNESCO. 2013. IODE Quality Management Framework for National Oceanographic Data Centres. (IOC Manuals and Guides 67) 34 pp. (English) (IOC/2013/MG/67).