SeaDataCloud: Tunisian marine data management

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Access to oceanographic data is of vital importance for marine research. Data acquired from various observational activities and techniques have problems of heterogeneous data sources, accessibility and standardization. SeaDataNet, SeadataNet II and now SeaDataCloud projects have built a leading infrastructure for marine and ocean data management. It is a Pan-European infrastructure for managing, indexing and providing access to marine data and metadata in compliance with the INSPIRE directive (ISO 19139 standards). National Institute of Marine Sciences and Technologies INSTM and especially its Marine Environment Laboratory (LMM) is being involved in this project since 2011 and is regularly providing new data and metadata in the infrastructure. The majority of Tunisian marine data managed in the framework of SeaDataNet concerns physical oceanography especially Conductivity, Temperature and Deph (CTD) and bottle measurements.

Recently INSTM started to measure high frequency data using a FerryBox system installed on board of the Tunisian ship of opportunity Carthage (CTN, Compagnie Tunisiennes de Navigation). A Tunisian workflow was set up from data acquisition to distribution. The main steps are: error checks, MedAtlas or ODV format file creations, quality control and metadata generation for indexation in Seadatanet catalogues. Finally, Tunisian ocean and marine data of LMM are standardized (ISO19139) and interoperable enabling to improve national and international research.

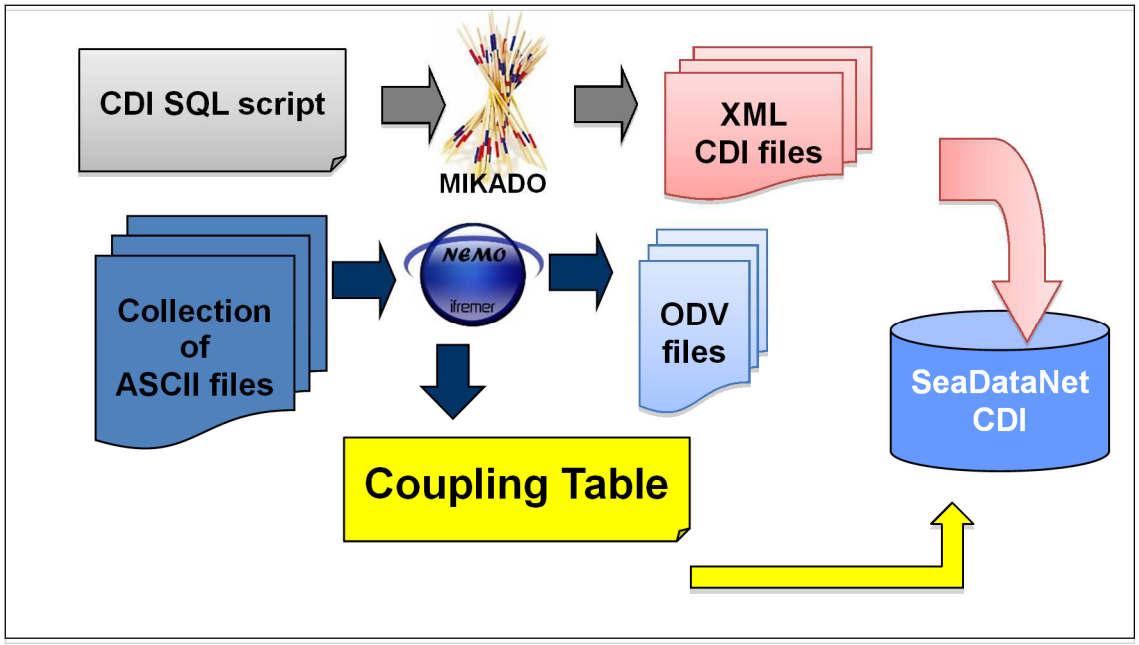

Figure 1: INSTM Methodology for setting up CDI, ODV and coupling table