ENVRIplus Community Efforts on Data Identification & Citation and Their Applications in Research Infrastructures

Alex Vermeulen (1), Margareta Hellström (1), Maria Johnsson (2), Frank Toussaint (3), Stephan Kindermann (3), Dan Lear (4), Robert Huber (5), Markus Stocker (6), Ingemar Häggström (7), Carl-Fredrik Enell (7), and Zhiming Zhao (8)

(1) ICOS ERIC, Carbon Portal at Lund University, Lund, Sweden, (2) Lund University, Library service, Lund, Sweden, (3) Deutsches Klimarechenzentrum GmbH (DKRZ), Hamburg, Germany, (4) Marine Biological Association, Plymouth, United Kingdom, (5) Marum Research Facility, University of Bremen, Bremen, Germany, (6) TIB Leibniz Information Centre for Science and Technology, Hannover, Germany, (7) EISCAT Scientific Association, Kiruna, Sweden, (8) University of Amsterdam, Dept of System and Network Engineering, Amsterdam, The Netherlands

Environmental research infrastructures are often built on a large number of distributed observational or experimental sites, run by hundreds of scientists and technicians, financially supported and administrated by a large number of institutions. If these data are shared under an open access policy it becomes therefore very important to acknowledge the data sources and their providers. There is also a strong need for common data citation tracking systems that allow data providers to identify downstream usage of their data so as to demonstrate their importance and show the impact to stakeholders and the public.

The overarching objective of ENVRIplus Work Package 6 (WP6), "Inter RI data identification and citation services", is to improve the efficiency of data identification and citation in the environmental and Earth science fields by providing access to convenient, effective and interoperable identifier management and citation services. In this WP we outlined a suggested common system design for Identification and Citation, and mapped the landscape of publishers, PID service providers and other actors in the scholarly data management and curation world.

In joint workshops with representatives of the RIs, publishers and citation services we performed an analysis of the latest statuses of existing technologies and business models that are in use now. We also worked on development of two use case studies. We will present the outcomes of two of these, a) the implementation of an on-line, standards-based publication mechanism for marine biological data and b) the development of a workflow and guidance for citation tracking models.