ECDS Environment Climate Data Sweden

FACILITATING A WIDER SHARING OF ENVIRONMENT AND CLIMATE DATA

Environment Climate Data Sweden, ECDS, is a Swedish service facilitating the search, publication and long-term accessibility of data for research in the fields of environment and climate.

Today's science is data intensive. Full, open and trouble-free access to environment and climate data facilitates new ways to analyze, combine and integrate data from many different sources, supporting interdisciplinary science.
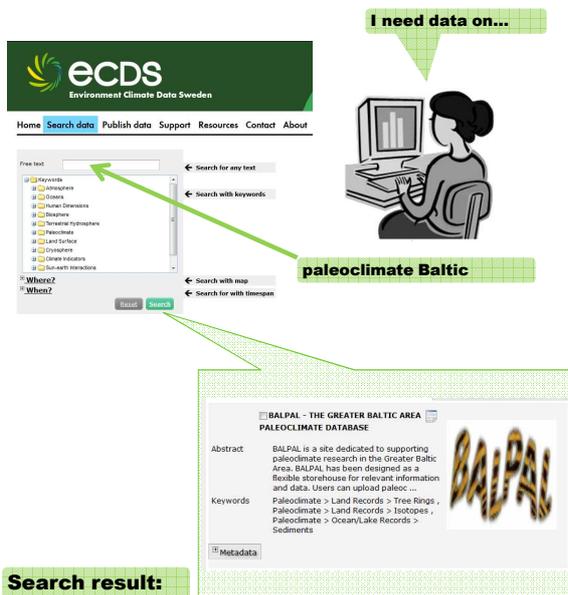
Approach
ECDS helps scientists with:
- ➢ collection and dissemination of information on data relevant for environment and climate research
- ➢ search for, documentation of and publication of data
- ➢ development of information on standards and tools for the documentation and publication of data
- ➢ advice on best practices and recommendations on sharing and long-term storage of data
- ➢ assistance to researchers with data storage needs.

Metadata profile and INSPIRE
ECDS uses a metadata profile in line with ISO19115 and the European INSPIRE-directive. All metadata entries are reviewed and checked for consistency with the ECDS metadata profile before integration into the ECDS metadata catalogue and publication through the portal.

Publish your metadata in the ECDS data portal

Figure 1: ECDS use cases.

Search for data in the ECDS data portal

Figure 2: Discovery of data through the ECDS portal. Today there are 287 datasets available.
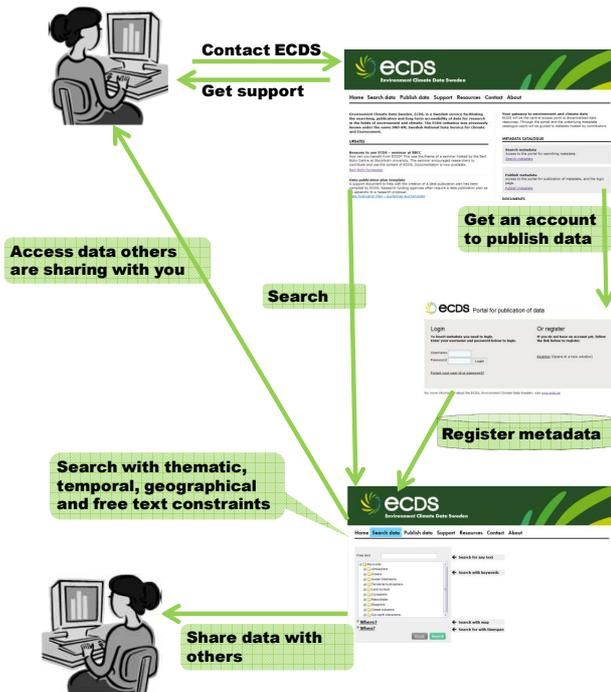
Results
ECDS has already gathered almost 300 descriptions of environment and climate data resources, including data collected within Swedish activities and projects connected to the International Polar Year.

ECDS has developed a function for automated transfer of metadata from other web services to the ECDS portal. First automated transfer of governmental data with open access took place in December 2013, with data from SMHI.

ECDS continues to help scientists with establishing data publication plans, data documentation and data management, so that data from their projects can easily be reused by other scientists.

Conclusion
Achieving open access to environment and climate data requires a dual approach:
- an infrastructure that allows scientists to easily search, document and share environment and climate datasets, and
- explicit incentives (requirements, credits) for scientists to actively engage in data sharing.

SMHI   ECDS   Vetenskapsrådet