

Table 1. Data inventory attributes

Attribute	Description	Example entry
Dataset name	Unique dataset name	ESA Lakes Climate Change Initiative (Lakes_cci): Lake products, Version 2.0.1
Description	Description of dataset/dataset-product	This dataset contains [...] based on [...].
Variable	Main variable of dataset	Lake Surface Water Temperature
Unit	Unit of main variable	degrees Kelvin
Spatial Resolution	Spatial sampling used	20 metres
Spatial extent	Spatial coverage of dataset	Germany, Austria
Temporal resolution	Temporal sampling used	weekly
Temporal extent	Temporal coverage of dataset	1992-09-26 to 2020-12-31
URL	URL to access dataset	https://climate.esa.int/en/projects/lakes/data/
DOI	Digital Object Identifier for dataset (if available)	10.5285/a07deacaffb8453e93d57ee214676304
References	Associated references as DOI or text (if available)	Messenger, M., Lehner, B., Grill, G. et al. Estimating the volume and age of water stored in global lakes using a geo-statistical approach. Nat Commun 7, 13603 (2016).
Data type	Description of data type (e.g. tabular, vector, raster) and provided dataformat (e.g. shapefile, csv, netCDF)	Tabular (csv)
Catchment	Associated SOS-Water case study	Mekong-Delta
Type	Type of dataset (e.g. Earth Observation, In-Situ)	Earth Observation
Comment	Additional comments (e.g. accessibility restrictions, limitations of dataset, available ancillary variables)	Dataset is only accessible with registered DANUBIS ICPDR/DanubeGIS account.