Science and Technology Facilities Council

RAL Space

ralspace.stfc.ac.uk

Data Stewardship at the Centre for Environmental Data Analysis

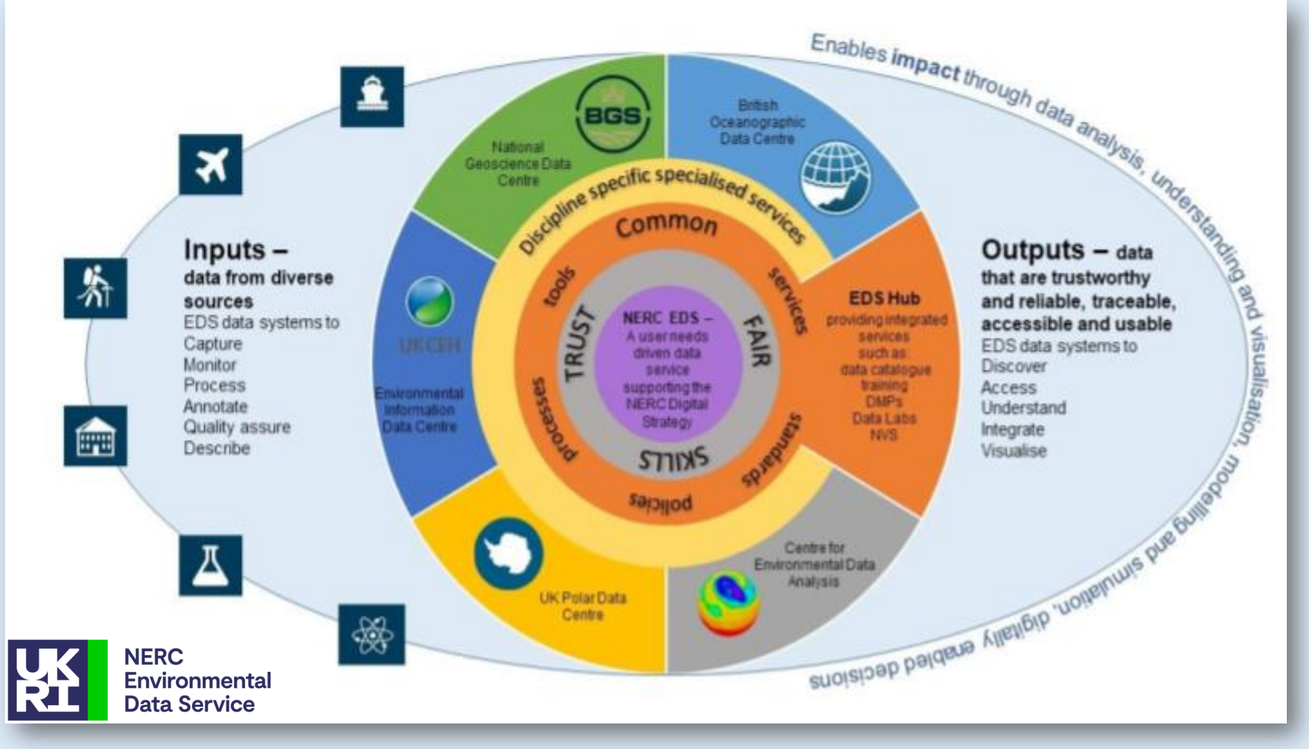
Emily Anderson, Environmental Data Scientist
Centre for Environmental Data Analysis, RALSpace, STFC

Centre for Environmental Data Analysis
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL
NATURAL ENVIRONMENT RESEARCH COUNCIL

The Centre of Environmental Data Analysis

The Centre for Environmental Analysis (CEDA) is part of the Natural Environment Research Council (NERC) Environmental Data Service (EDS) funded by UK Research and Innovation (UKRI). The EDS is an enhanced data service delivered across the constituent data centres ensuring that environmental data can be discovered, accessed and used by the community.

CEDA has been providing an ongoing data operation for over 30 years and delivers the data archive component for the UK National Centre for Earth Observation (NCEO) and the UK National Centre for Atmospheric Science (NCAS). CEDA Provides access to over 27 Petabytes of Earth Observation and Atmospheric data.



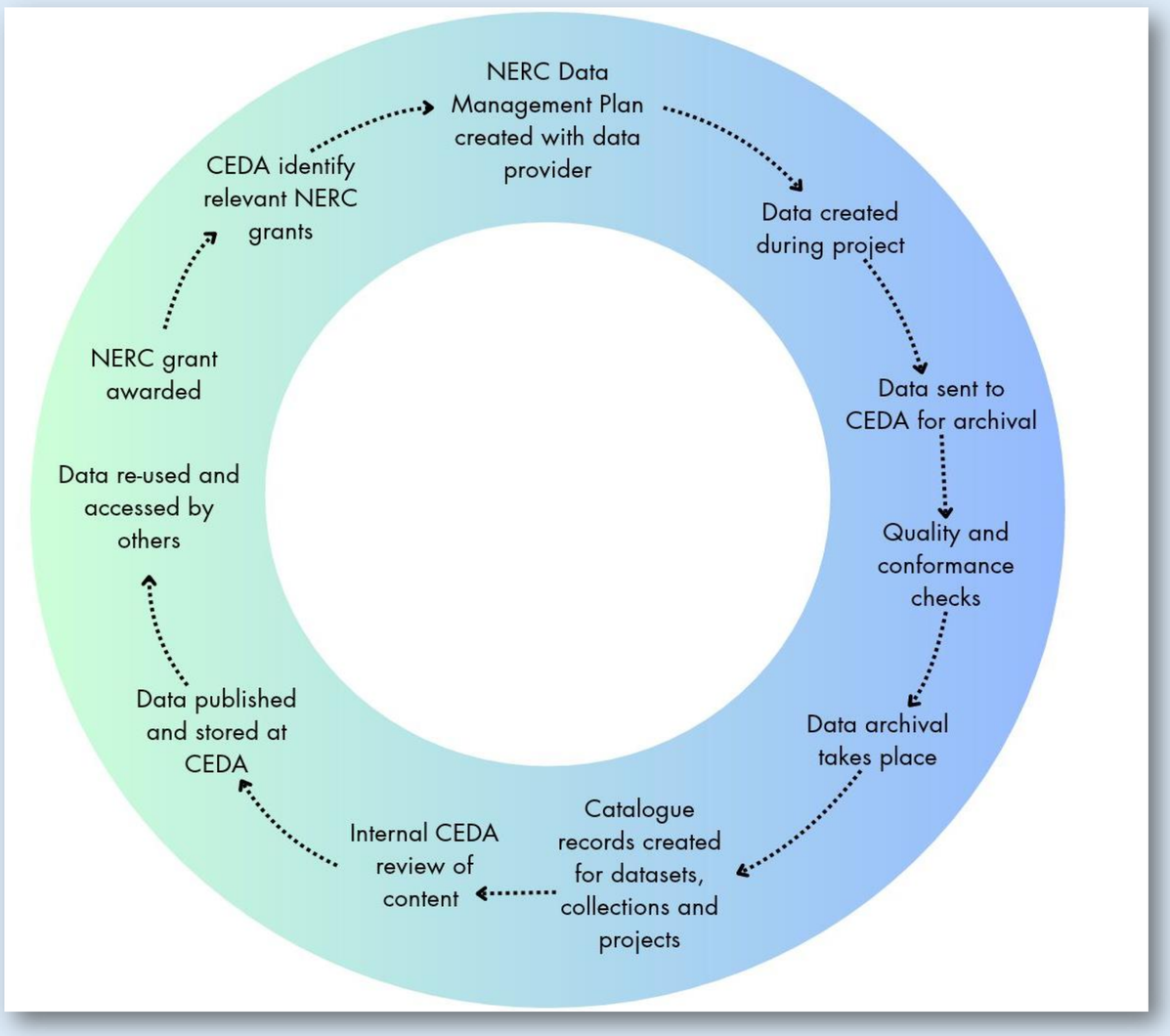


Illustration of CEDA data archival pipeline. Other projects at CEDA use this pipeline with alterations and additions. This pipeline is supported by technical and software expertise.

Find out more about CEDA: https://ceda.ac.uk

Contact CEDA: support@ceda.ac.uk

Search datasets on the CEDA Catalogue: https://catalogue.ceda.ac.uk

Data Stewardship at CEDA

CEDA supports data providers from initial contact all the way through to data publication and beyond. Data Stewardship at CEDA encompasses a wide variety of operational activities to ensure data is FAIR (Findable, Accessible, Interoperable & Reusable), whilst also continually aiming to adapt with developments in the community.

Data holdings at CEDA include UK research funded data from NERC grants as well as international projects such as the ESA Climate Change Initiative (ESA CCI), the Couple Model Intercomparison Project (CMIP), the IPCC Data Distribution Centre, the provision of an ESA Data Hub Relay (DHR), as well as being a key partner in the UK Earth Observation Data Hub (UK EODH).

Ongoing and future developments

- CEDA is constantly involved with efforts to improve data search and access, including current development efforts towards a STAC (SpatioTemporal Asset Catalogues) catalogue at CEDA.
- Recently CEDA has become increasingly involved in the use of Artificial Intelligence (AI), with projects exploring this within CEDA and collaboratively across the EDS.
- CEDA continues to work and collaborate on international projects to promote FAIR environmental data access.
- Continual development of internal processes and procedures to streamline the work of data stewards.
- Ongoing assessment of development and training requirements to maintain and progress skills within CEDA.

