Global Land and Marine Observations Database

- Collect, merge and harmonise all sub-daily, daily and monthly observations in a single data model
- Ensure compliance with WMO metadata standards (e.g. WIGOS station IDs)
- Strong collaboration with NOAA/NCEI
- **Land**: mining and merging >300 sources of station data
- **Marine**: Modernisation and improved quality control based on ICOADS
C3S Data Rescue Service Portal - beta version

C3S data rescue service

Portal

Registry

Climate reanalysis and other use cases

Services and Impacts

CDS users, climate change assessments

“Big hopper” with original data sources

Merged and harmonised data holdings

C3S global database

Images

Raw transcriptions.xls

Exchange format.sef
Managing the CDS catalogue of datasets

• What are the criteria for including a dataset?
  – User requirements, quality, documentation, reliable access ...

• If users want non-C3S data, can we support this?

• What about research datasets? (latest CCI, ERA-20C, ...)

• What about data from other Copernicus services? SAFs?

• How many datasets can we handle? 100? 1000?

• How many datasets can users handle?
## Introducing C3S support levels

<table>
<thead>
<tr>
<th>Data access</th>
<th>Toolbox compliance</th>
<th>Quality assurance</th>
<th>User support</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast, reliable; old versions are archived, permanently available</td>
<td>All data can be used in the toolbox</td>
<td>Full QA following C3S standards, independent assessments</td>
<td>Expert support, fast response</td>
<td>Most C3S funded datasets (ERA5, ECVs)</td>
</tr>
<tr>
<td>Speed depends on contention; not always reliable</td>
<td>Some of the data can be used in the toolbox</td>
<td>Limited QA following C3S standards</td>
<td>Limited support, best effort</td>
<td>Some datasets from operational providers (NOAA?)</td>
</tr>
<tr>
<td>May be slow; availability cannot be guaranteed</td>
<td>Limited toolbox functionality, not interoperable</td>
<td>Best effort</td>
<td>Knowledge base &amp; user forum</td>
<td>Research datasets (ERA-20C, latest CCI, …)</td>
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