A Climate Data Record is defined as "a time series of sufficient length, consistency, and continuity to determine climate variability and change" [NRC, 2004]
ECV Consistency

Broad topic!
We would like ECVs to be easy to use and there to be no conflicting results...

ECVs can be designed to be consistent in various ways:
• Output formats, metadata standards, dissemination mechanisms
• Product specification (snow vs. glaciers vs. ice sheets vs. land cover)
• Use the same auxiliary data (e.g. land/sea mask, meteorology)
• Use the same input data, calibration data, orbit models, etc
• Coverage (and sampling) in time and space
• Where there are common retrieval models/assumptions, use the same ones

But often there are good reasons for inconsistency:
• Different input data required for different ECVs
• Different retrievals suited to different ECVs
• Not clear which auxiliary data or retrieval models/assumptions are best

=> Perfect consistency probably cannot be achieved!
AGENDA

Users' View of CCI ECV Consistency:
- Dirk Notz (MPI)
- Rossana Dragani (ECMWF)
- Ulrike Willen (SMHI)

Summary
- Roger Saunders (Met Office)

Discussion
- All
### Target Requirements

<table>
<thead>
<tr>
<th>Variable/Parameter</th>
<th>Horizontal Resolution</th>
<th>Vertical Resolution</th>
<th>Temporal Resolution</th>
<th>Accuracy</th>
<th>Stability</th>
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<td>3h</td>
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<td>0.003 – 0.03</td>
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<td>3h</td>
<td>15hPa – 50hPa</td>
<td>3hPa – 15hPa</td>
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<td>1K – 5K</td>
<td>0.2K – 1K</td>
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<tr>
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<td>1%–2%</td>
</tr>
</tbody>
</table>
AGENDA

Long Term Stability of CCI ECVs
- Sea Level (Jean Francois Legais, CLS)
- Ozone (Michel Van Roozendael, BIRA)

Discussion
- All
ECV Stability

Questions

- Have CCI projects achieved the GCOS requirements for stability?
- If not, what more is needed (in CCI+ and external activities)?