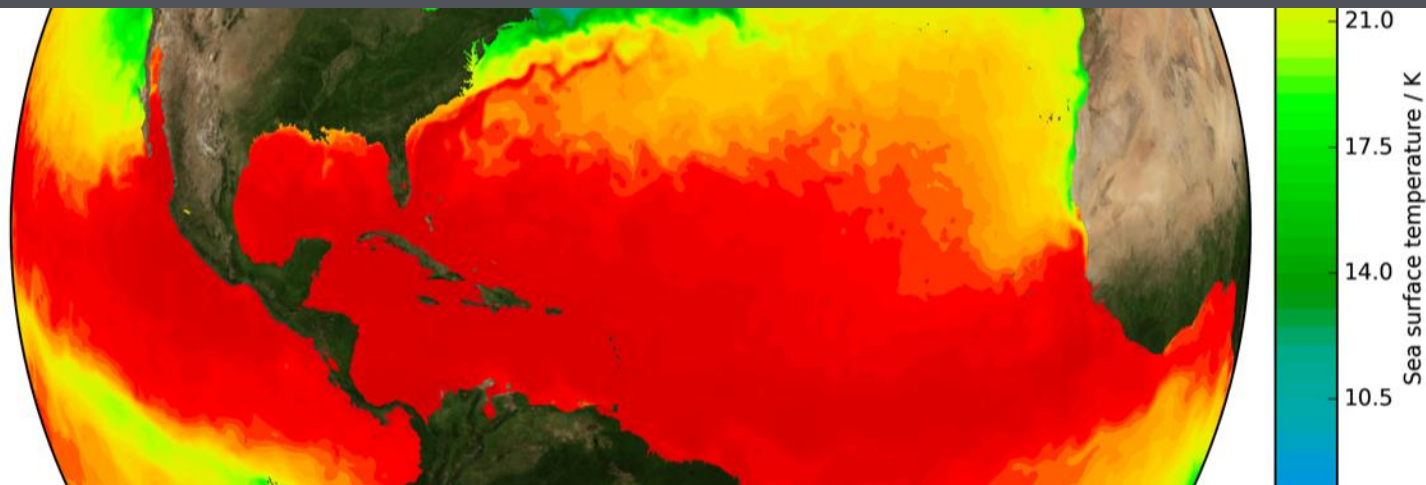


FCDR / CDR / ICDR INTRODUCTION



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CONTEXT

- Presented last year was a Proposed Definition and Guidance for Fundamental Climate Data Records (FCDR)
- Need an agreed definition to help CEOS/CGMS agencies shape their programmes for archiving, reprocessing and disseminating Level 1 data in support of climate programmes
- Decisions last year were
 - Consult more widely and WG Climate to reflect
 - Extend text to give option coherent on CDR and interim CDR definitions
 - Return with updates for decision and recommendation at this meeting

UPDATE

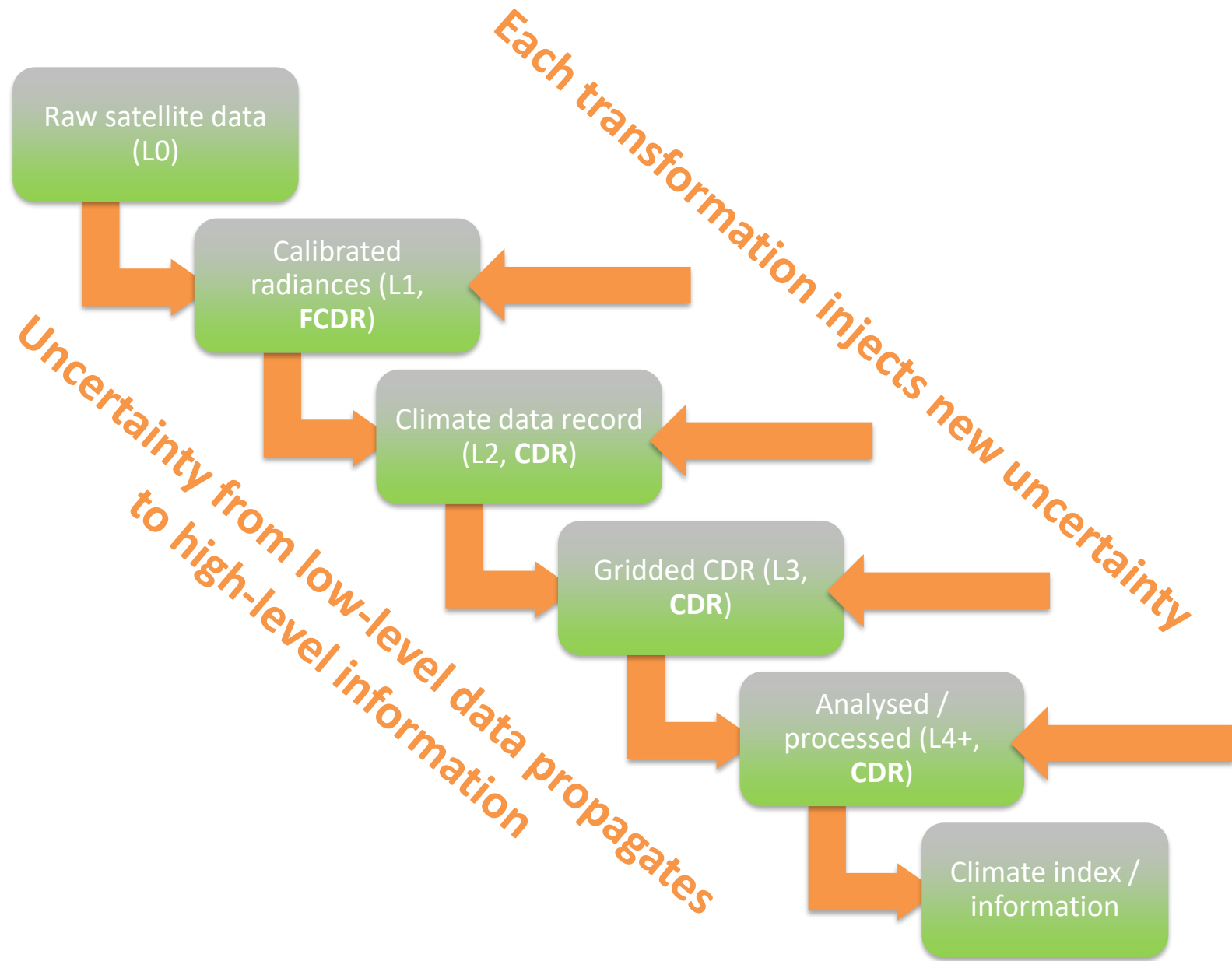
- Consultation on the FCDR definition and guidance
 - Primarily through 1st FIDUCEO workshop in Lisbon (May 2018)
 - Session on the definition/guidance with international participation
 - Comments also solicited online (open invitation) and from WG climate
- Workshop recommendations were implemented and definitions usefully refined
 - Including distinction of FDR / FCDR idea
- CDR and ICDR definitions have been proposed for this meeting, along similar lines to FCDR

Uncertainty recommendations for CDRs

- Provide uncertainty estimates
 - Follow metrological conventions
 - Give u per datum if necessary
 - Uncertain \neq Bad quality
 - Explain the uncertainty info
 - Give advice to users on usage
 - Validate the uncertainties
 - Error correlation matters
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- DOI 10.5194/essd-9-511-2017 – multi-ECV position paper from CCI



CCI+ Collocation



APPROACH TAKEN

- Preamble – context (including the EO context of the definitions)
- Short definition – quotable
- Longer interpretation and guidance – necessary to explain the implications

SHORT DEFINITIONS

- **Fundamental Data Record** : An FDR consists of a consistently reprocessed record of uncertainty-quantified sensor observations that are calibrated to physical units and located in time and space, together with all ancillary and lower-level instrument data used to calibrate and locate the observations and to estimate uncertainty.
- **Fundamental Climate Data Record** : An FCDR consists of a long, stabilised record of uncertainty-quantified sensor observations that are calibrated to physical units and located in time and space, together with all ancillary and lower-level instrument data used to calibrate and locate the observations and to estimate uncertainty.
- **Climate Data Record** : A climate data record consists of a long, stabilised record of uncertainty-quantified retrieved values of a geophysical variable relevant to Earth's climate, together with all ancillary data used in retrieval and uncertainty estimation. The CDR is linked to (an) underlying fundamental climate data record(s).
- **Interim Climate Data Records** : An interim climate data record is a seamless extension in time of a climate data record, in the processing of which a stated level of inconsistency [with the underlying CDR] is present as necessary to meet the required timeliness.