

**CDS observations**

The diagram shows the CDS observations flow as a single row of chevron-shaped boxes:

Observations → Global estimates of ECVs from satellite and in-situ observations → Reprocessed CDRs, reference observations → Support for data rescue, climate data collections

	Value	Topic	Start	Notes
C3S_311b (DN)	5.5M	Satellite data reprocessing	2016Q2	Contract signed with EUMETSAT
C3S_51 (Lot 2)	2.5M	EQC on ECV products from observations	2016Q4	Contract negotiated
C3S_312a	4.2M	Gridded ECV products (1)	2016Q4	9 contracts being negotiated
C3S_311a	9M	In situ observations	2016Q4	4 Lots, 6 bids under evaluation
C3S_311c	2.2M	Satellite data rescue	2017Q1	PIN has been published
C3S_322	8.6M	Regional reanalysis	2017Q1	PIN has been published
C3S_511	5M	EQC on observations and reanalysis	2017Q1	PIN has been published
C3S_312b	8M	Gridded ECV products (2)	2017Q3	Additional 4-6 contracts

Logos: ECMWF, European Commission, Copernicus

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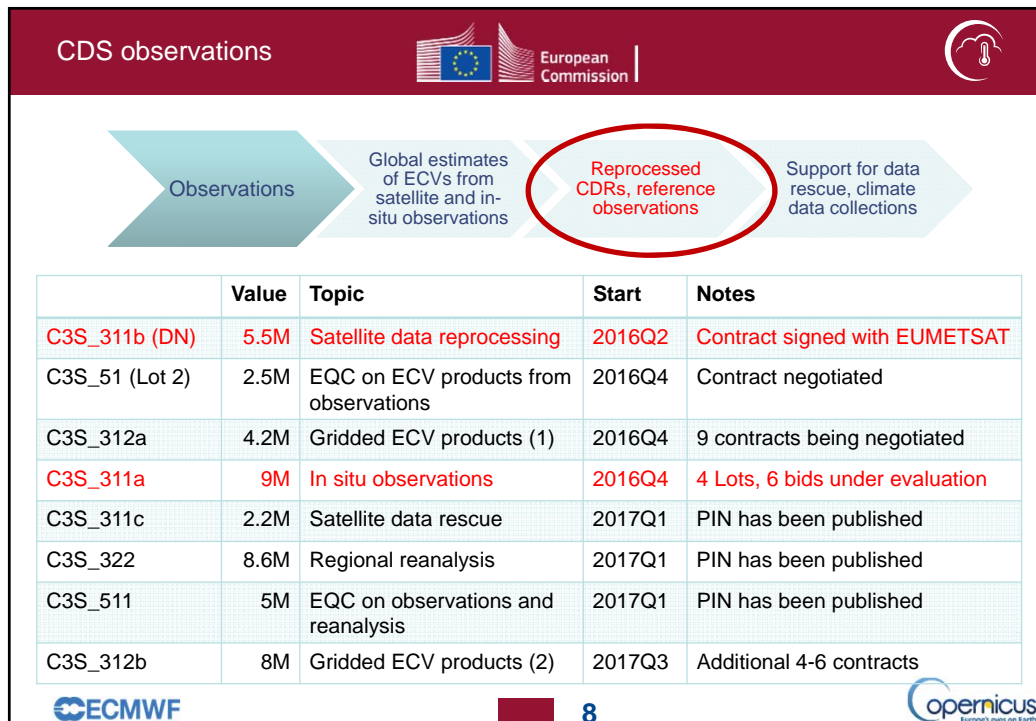
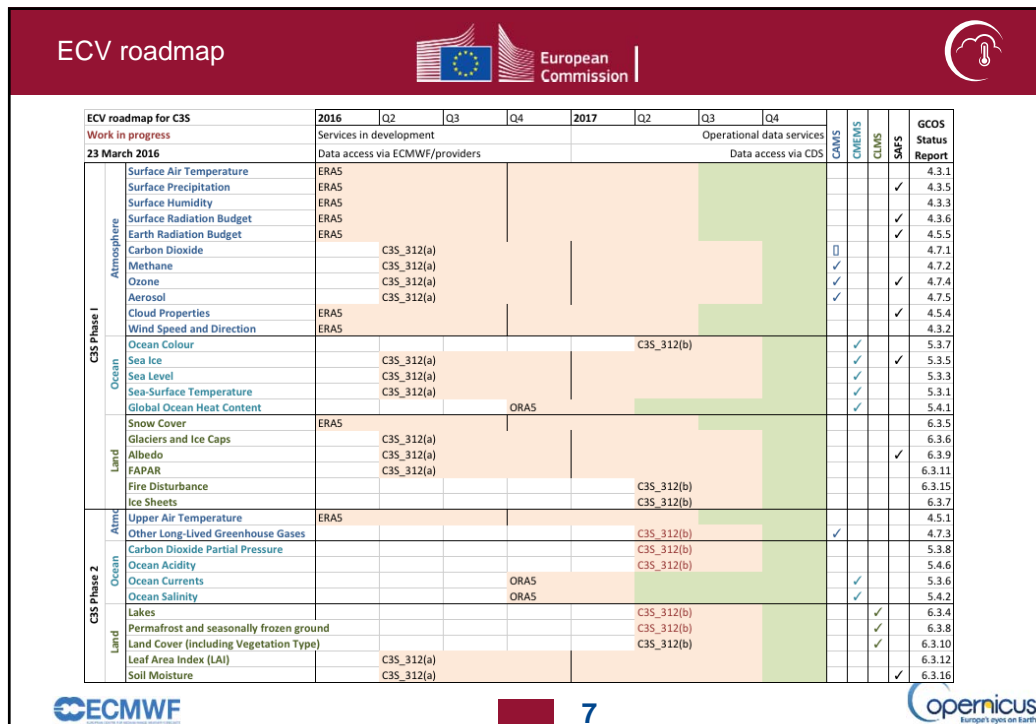
CDS observations

**C3S\_312a: Gridded ECV products (9 contracts)**  
 CDRs and ICDRs primarily from satellite data  
 Building on ESA CCI and EUMETSAT SAFs


**C3S\_311a Lot 4: In situ data products for Europe**  
 High-resolution maps and homogenised time series  
 Strong involvement of EUMETNET and EEA


**C3S\_312b: Gridded ECV products (4-6 contracts)**  
 Mix of data from space and in situ  
 Jointly with CAMS, CMEMS, GLS where possible


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CDS observations









**C3S\_311b: Reprocessing of level-1 data (DN with EUMETSAT)**

WP Number	WP Title	Start	End
WP1	Atmospheric Sounding FCDRs	Q1/2017	Q3/2019
WP2	Radio Occultation FCDRs	Q2/2017	Q2/2021
WP3	Scatterometer FCDR	Q1/2020	Q1/2021
WP4	Meteosat Radiance FCDR	Q4/2016	Q1/2021
WP5	Atmospheric Motion Vectors TCDRs	Q2/2017	Q4/2020
WP6	Polar Multi-Sensor Aerosol Product	Q3/2019	Q2/2021
WP7	Operational Preparation Activities	Q1/2018	Q2/2021
WP8	International Coordination	Q1/2020	Q2/2021
WP9	Activity Coordination and Management	Q4/2016	Q2/2021


**C3S\_311a Lot 3: Access to networks of observation sites**  
 Harmonise data access from reference and baseline networks  
 One bid on atmospheric reference data; one on hydrological data





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CDS observations









**C3S\_311a Lot 1: Coordination of data rescue activities**  
 Data rescue registry and support services  
 Building on ACRE, I-DARE, ERA-CLIM(2)

**C3S\_311a Lot 2: Access to global climate data archives**  
 Harmonise data access, formats and metadata conventions  
 One bid on atmos/ocean surface data; one on hydrological data


**C3S\_311c: Satellite data rescue**  
 Preservation of perishable data and expert knowledge  
 Aim for maximum impact on climate record  
 Building on ERA-CLIM(2)





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CDS observations







**C3S\_322: Regional reanalysis**  
 Building on UERRA  
 European and Arctic domains  
 Spatial resolution ~10km?  
 2 separate contracts

Foster competition:


- Allow for some development
- ECMWF provides data archiving and data access services




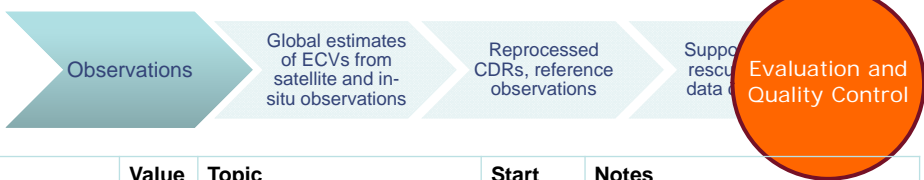


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CDS observations

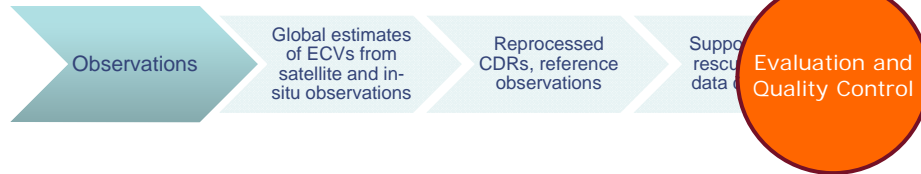






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**C3S\_51 Lot 2: EQC for gridded ECV products from observations**

Metrological approach based on QA4ECV, FIDUCEO  
Framework for error traceability and documentation  
Elements of System Maturity Matrix (CORE-CLIMAX)  
Web portal for submitting uncertainty information

**C3S\_511: Quality assessment of ECV products**

Multiple ECVs, multiple products  
Routinely assess CDRs and ICDRs for C3S  
Compare with reanalyses and existing CDRs (e.g. NOAA)