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WP7

Observations - Breakout Session

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WP7 – Observations Archive: Task 7.1 and 7.2

Satellite Datasets

(Soil Moisture, Snow, Vegetation, Albedo, LST)

In Situ Observations

- ✓ Flux Tower sites
- ✓ Soil moisture & Snow networks

Mostly for verification purposes

- To be available in a Central Archive (ECMWF)
- Data Inventory – Suggest everyone to revise Table at:
<https://confluence.ecmwf.int/display/C3SEV/WP7++++Land-atmosphere+interface+observations>
Identify priorities [longer datasets for inter-annual variability; shorter periods acceptable for process assessment]
- NetCDF
- Satellite: Native grid + Regular grid (TBD)
- In-Situ/Satellite: Satellite matchups/cut-outs of similar/closely linked variables to be added to in situ observations
- In-Situ: Data Acknowledgment Statement to be distributed with In Situ – to include in publications
- Timeline
 - A complete (recent) year by T0+6; Raw data may be provided < T0+6
 - Subset of high priority data (NetCDF + gridded): T0+12
 - Full datasets by T0+24

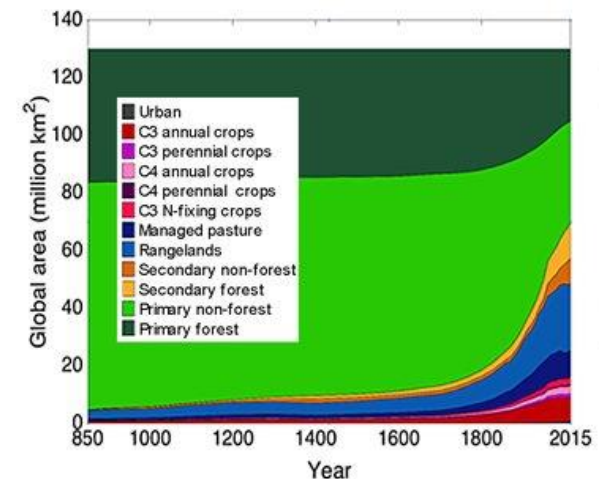
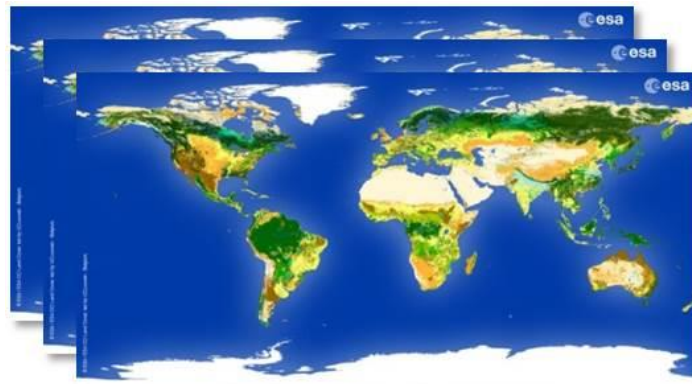
WP7 – Surface Characterization: Tasks 7.3/7.4

Task 7.3: Create and assess a consistent extension of CONFESS vegetation data back to 1925 at nominal 1km resolution for reanalysis (Etienne Tourigny, **BSC**)

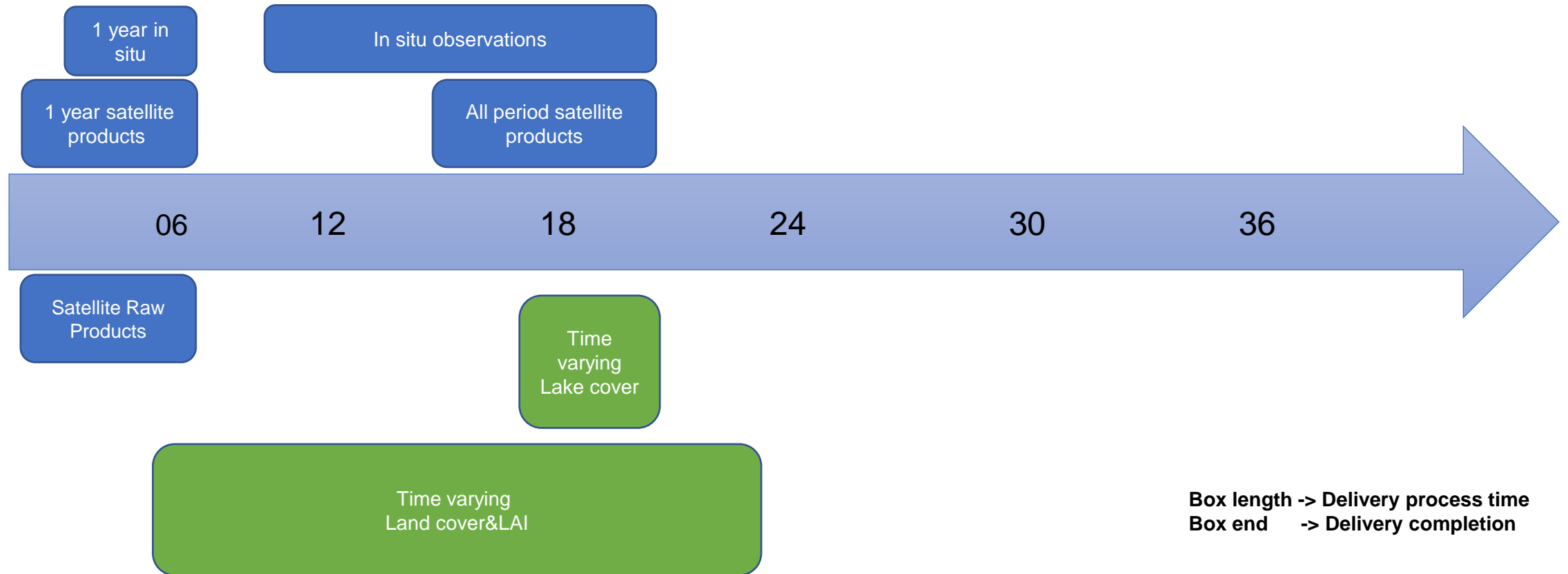
- First version available in M24 (using Lake Cover final version), Final version available in M28 .
- Meeting planned with WP4 in June/July to discuss the timing and delivery of preliminary data
- Existing and comparable LC/LAI data from CONFESS can be used for initial prototype.

Task 7.4: Create and assess simple representations of time-variation of IFS lakes back to 1925 (Margarita Choulga, **ECMWF**)

- Create a time-varying lake fraction dataset at 1km resolution.
- Extend the data back in time before 1984.
- Final version in M24.



WP7 timeline





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Thank you

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