

Earth and Space Sciences in Europe using CNES balloons

ESA Perspectives

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- In Atmospheric Sciences, ESA has two type of activities
 - Mission development and Commissioning Phase
 - These activities are linked to the development of new instruments and to gather enough information to prepare the initial version of the algorithms and data processing facilities.
 - It also covers the preparation of Calibration activities
 - Mission Operation Phase
 - Mainly Long term Routine Calibration and Validation

- A proposal for another concept is being proposed
 - Long term Multi-Mission Calibration and Validation support
 - To support Cross Calibration of overlapping missions
 - To have the possibility for a longer term planning
 - To de-correlate the funding from a specific mission.
 - Support sciences between missions
 - So far that concept has difficulties to make its way
 - Might be a topic of a future Balloon Science workshop

- Routine Phase
 - Envisat and ERS-2 are flying for another few years.
 - Limited by funding and technology
 - Some scenarii foresee new calibration campaigns
 - Future missions in preparation but still in the early phases
 - So far no plan to cover any gap between missions

- Mission development and Commissioning Phase
 - Some proposals linked to the ADM-Aeolus mission.
 - Preparation work for balloon contributions for SWARM.