



Options for Radiosonde Launches with EUMETSAT Satellite Overpasses – Update

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Background

Discussed Contract Setup

Next Steps

Note: presented service is still TBC!

Background





- EPS-SG B satellite instruments MWI/ICI identify a need for a dedicated radiosonde campaign, to support their Cal/Val activities
 - Several other EPS-SG instruments plan to use radiosondes within their Cal/Val activities, as do other EUMETSAT satellite instruments
 - Radiosondes are also highly beneficial for instrument long term monitoring
- => EUMETSAT started to look into options for radiosonde provision (high quality, including uncertainties)
- => started to have regular discussions with GRUAN /WMO/GCOS / NOAA and others regarding a possible setup



- Service need has been identified, including preliminary budget
- *Request for Quotation* justification approach with CNR/GRUAN provided
- Service planned through Scientific Framework Contract:
 - Work Orders will determine the activity over the next TBC months
 - Allows flexibility to e.g. support certain instrument campaign (ramping up number of launches)
 - Allows to issue optional Work Orders (further flexibility, e.g., requesting non-GRUAN station launches, multiple launches, or other instruments)
 - Each Work Order is kind of a mini-SoW, requiring a proposal (proposal preparation work highest with first one)

Discussed Contract Setup





- Have a single Service Provider *Point of Contact* for EUMETSAT
- Avoid a cascade of sub-contracts of Service Provider with stations (pay per sonde launch scheme)
- EUMETSAT will provide through Work Order desired observation conditions, as well as number of launches
- Throughout the Work Order period covered, EUMETSAT will provide satellite overpass information
- Service Provider / Station will decide if observation conditions are fulfilled for launch, Provider will perform QC after launch

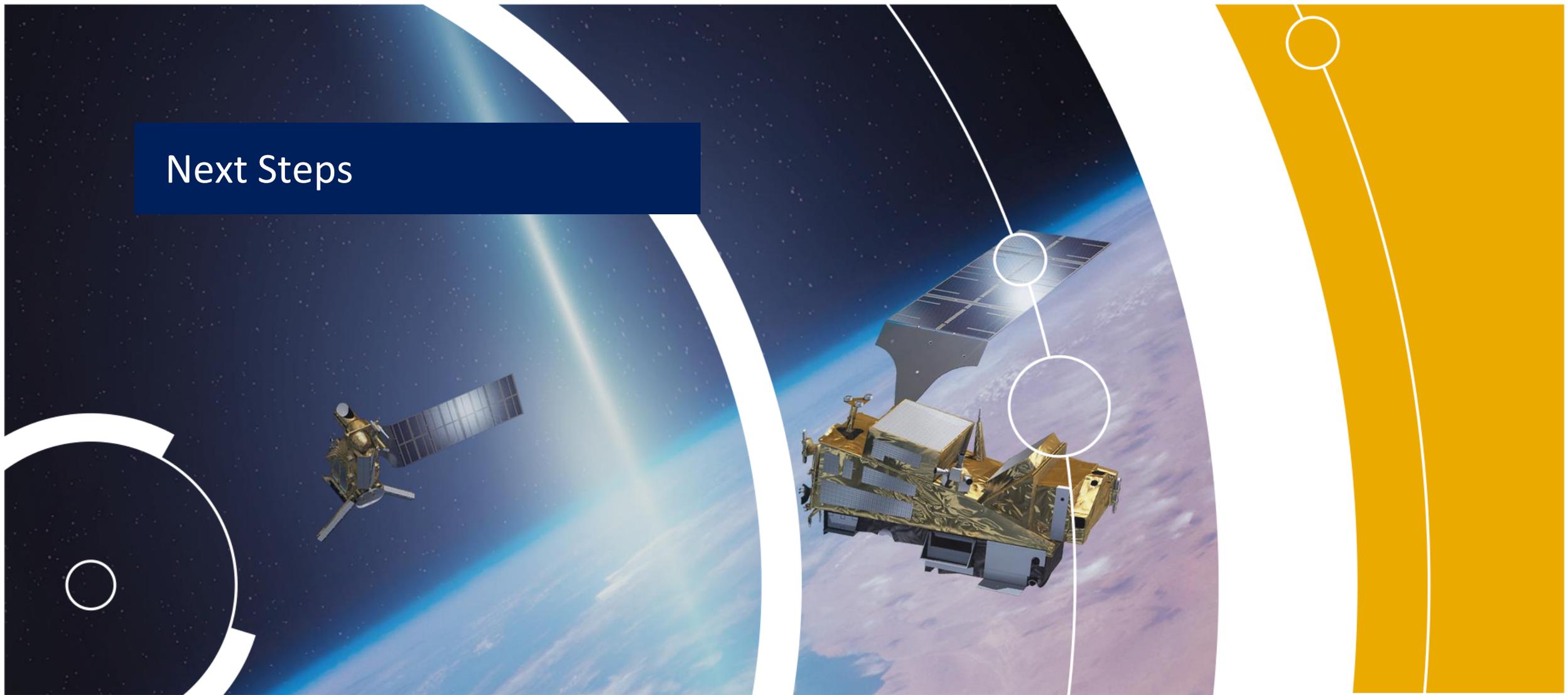
Note: presented service is still TBC!



- EUM acquired data remains free / within GRUAN archive
- Planned activities (Work Orders):
 - **Activity 1:** Service Setup and first Proof of Concept (~2025)
 - **Activity 2:** Monitoring activities, support to EPS-SG A1 Cal/Val and preparation for EPS-SG B1 MWI/ICI Cal/Val (~2026)
 - **Activity 3:** Monitoring activities and support to EPS-SG B1 MWI/ICI Cal/Val (~2027)
 - **Activity 4:** Monitoring activities and support to EUMETSAT missions (~2028)
 - ...

Note: presented service is still TBC!

Next Steps





- Statement of Work going through internal review
- Work Order for Activity 1 preparation
- Formal internal release of SoW / WO
- Setup of TEB board, etc for proposal evaluation

Questions to clarify with GRUAN/CNR:

- How to ensure e.g. cloud free and stable conditions (are ceilometer data available?)

Note: presented service is still TBC!



Thank you!
Questions are welcome.