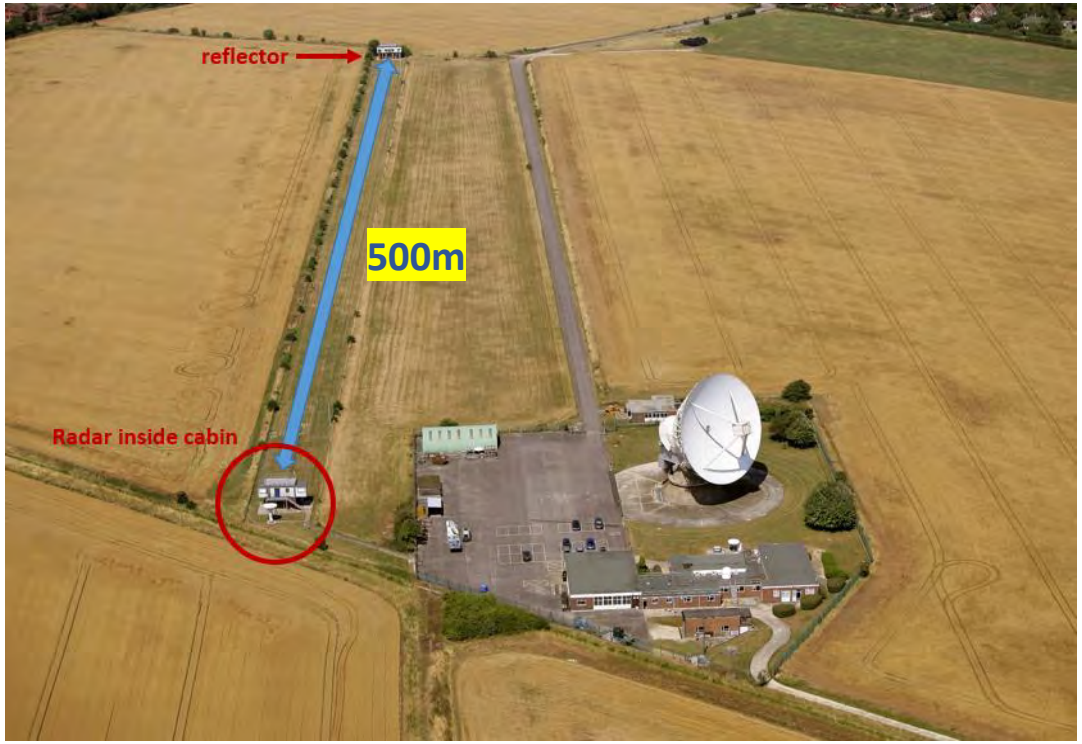
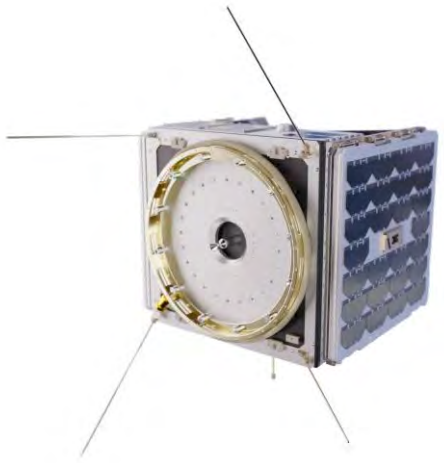
CEOI-Funded Triple Channel DAR

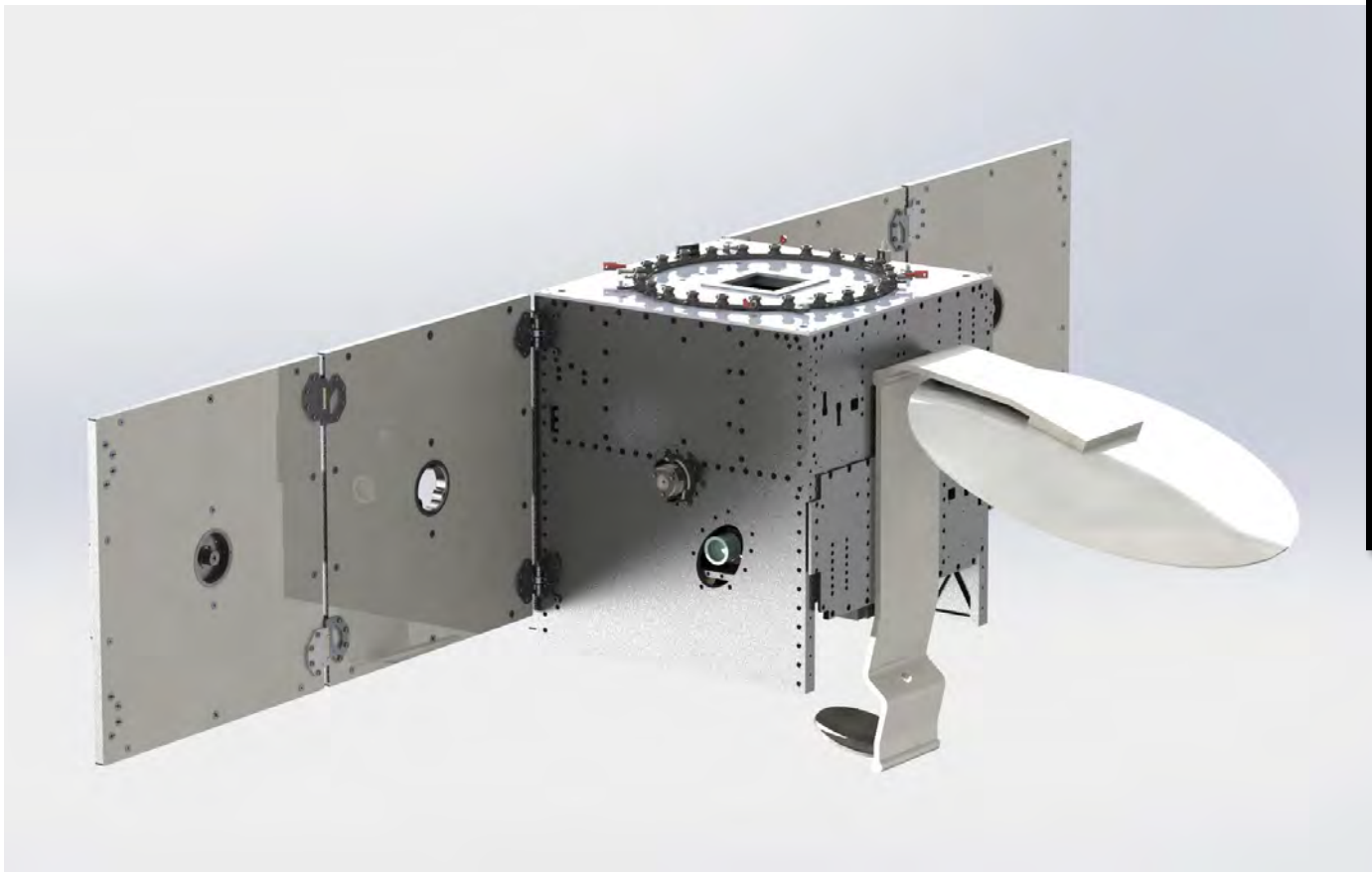
- **Three channel radar**
- **Data processing SW**
- **Field trial at Chilbolton Observatory**

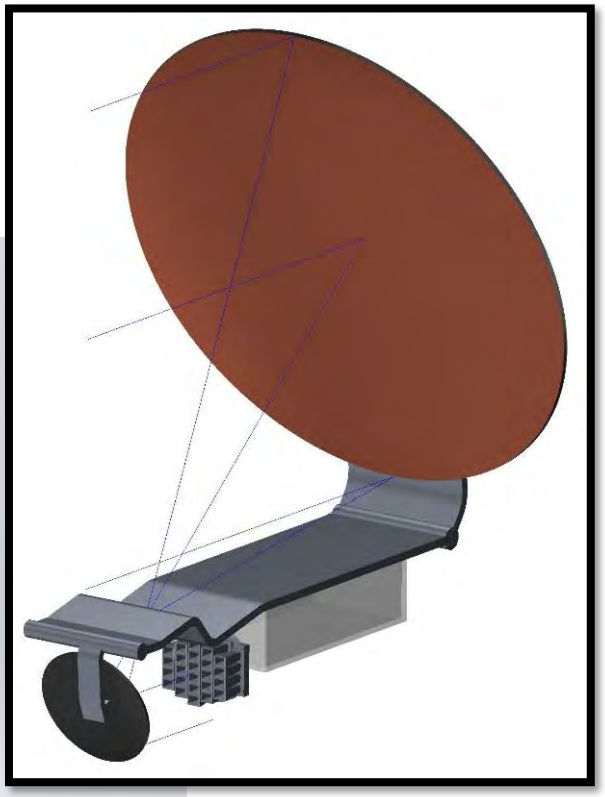


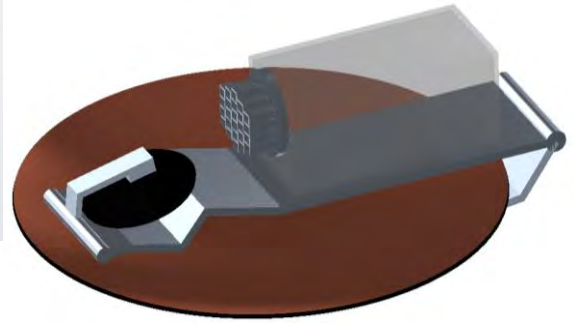
CEOI-Space Mission Design Study

- Collaboration with **Kongsberg-Nano Avionics** and **Plextek** Services Ltd.



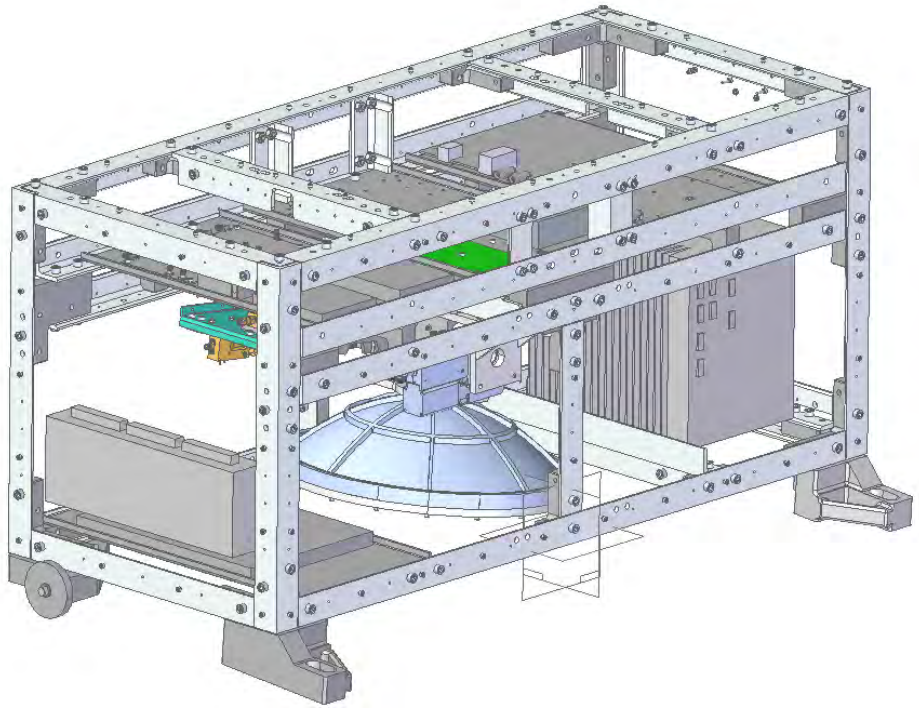






MP42 – Modular Microsatellite Bus

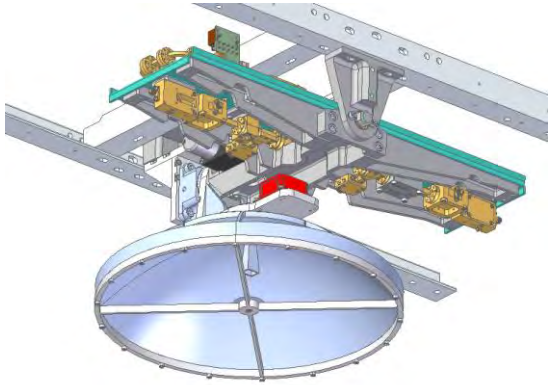
ESA Funded Airborne Demonstrator



FAAM: Facility for Airborne Atmospheric measurements

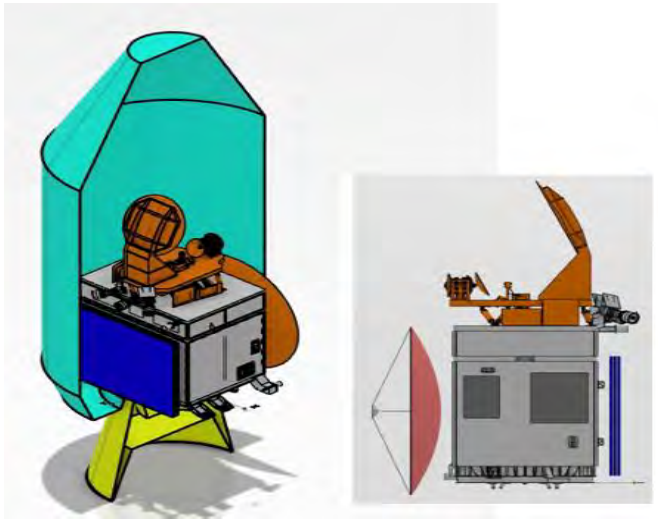
Politecnico di Torino

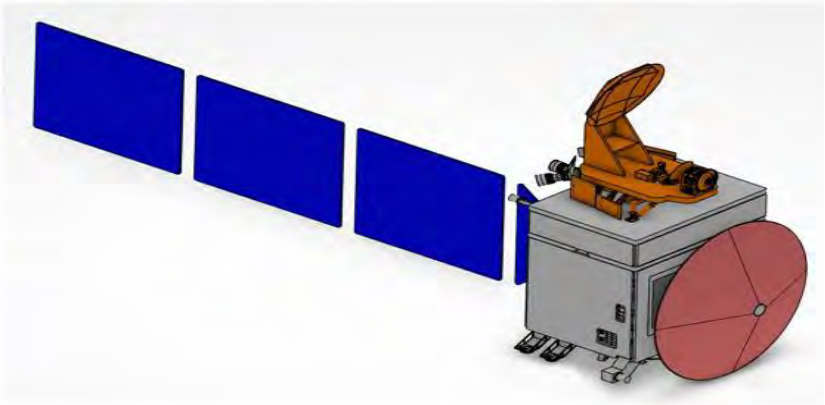
EOSOL

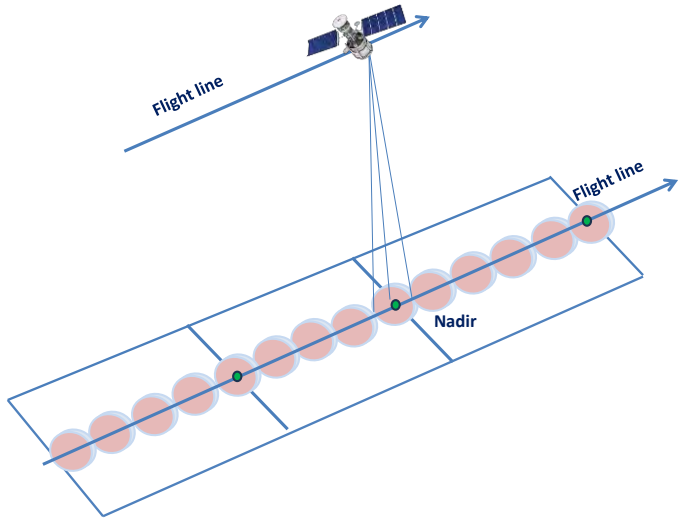


BARODAR Mission Impact

- Dramatically improve the prediction accuracy of the **lead time, path, and intensity of extreme events,** including the prediction of the **center of storms** and **tropical cyclones to save lives**.
- Better **climate monitoring** by **establishing the start of global records** of surface pressure observations.
- Dramatically **improve sea height measurements** and therefore **storm surges predictions.**
- **Saves lives and Infrastructure.**







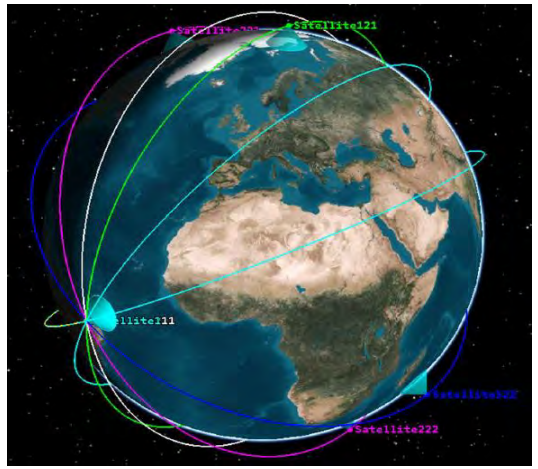
Summary

- BARODAR provides global and greatly enhanced coverage over the oceans and polar regions compared to what is currently available.
- BARODAR delivers **great economical, societal, and scientific impact**!!

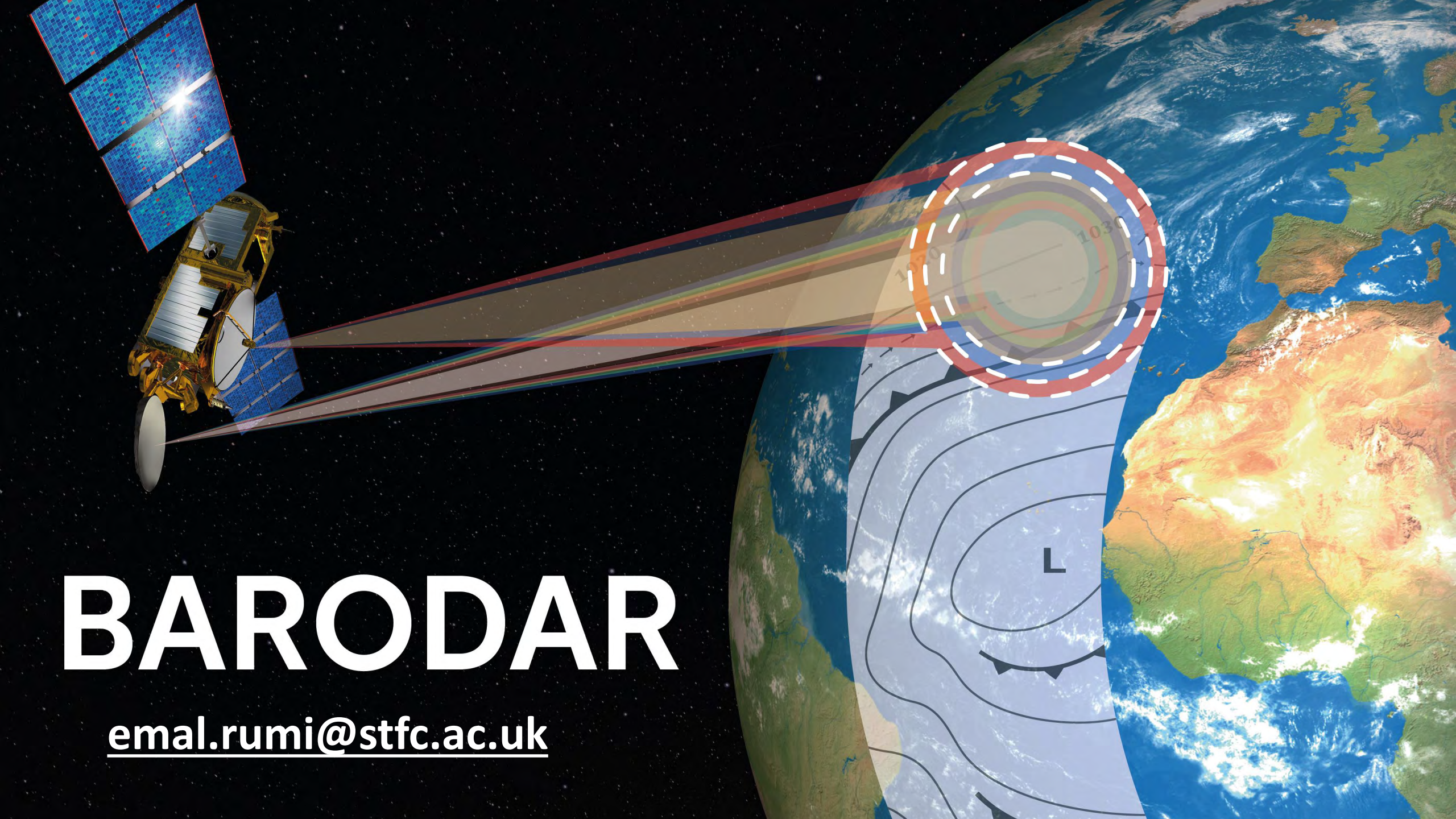
FAAM: Facility for Airborne Atmospheric measurements

Future plans:

- **Complete the airborne demonstrator. Funded**.
- Fly on-board **FAAM** including **MWR** to verify retrieval methodology, water vapour correction algorithms, and to optimise the selected frequencies. **Not funded yet**.
- Implement **Phase 0 for ESA EE-12**, if selected.
- Complete **Market research.**
- Pursue UK bilateral/multi-lateral satellite demonstrators, **small satellite constellation**.



There is an urgent need for BARODAR to be put in space.
This can only be possible with urgent and full support from the UK and other governments.


BARODAR
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