

CEOS Atmospheric Composition joint meeting 2023

Brussels, 24-27 October 2023



BELSPO



Belgian Science Policy Office (BELSPO)

- 10 federal scientific institutes (BISA, RBINS, RMI...)
- Funding of national research programmes
- Management of national and international coordination
- No Belgian Space Agency → Space department



Belgian Space Strategy

- Belgian participation in international organisations dealing with space:
 - ESA (BE 5th largest contributor)
 - ECMWF, EUMETSAT, ESO
 - EU programmes (Copernicus, Galileo,...)
- Bilateral cooperations: BE/France + BE/Argentina
- National programmes: STEREO + TERRASCOPE (<https://terrascope.be/en>)



ALTIUS

https://www.esa.int/Applications/Observing_the_Earth/Altius



- ALTIUS = Atmospheric Limb Tracker for Investigation of the Upcoming Stratosphere
- ESA mission carries a high-resolution spectral imager and uses a limb-sounding technique to deliver profiles of ozone and other trace gases in the upper atmosphere.
- ESA mission financed by BEL with contributions from CAN, LUX, ROM
- Validation (Call by ESA for external contributions soon)

2D

spectral limb sounder

3 days

global coverage

266 kg

satellite mass

668 km

orbital altitude



EO Cal/Val Activities in Belgium (1)

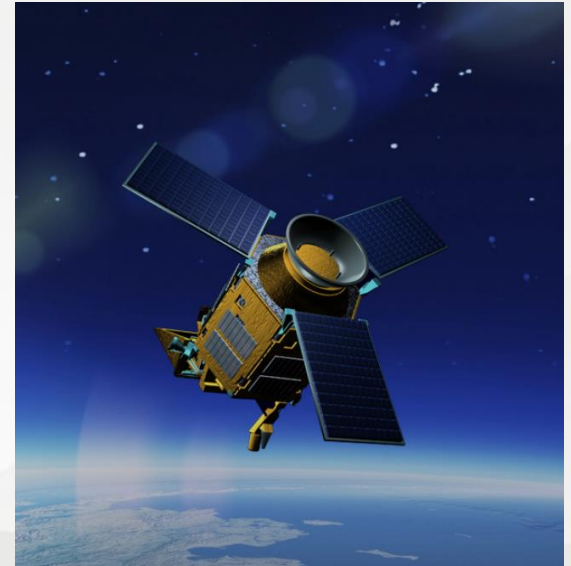
- Belgium highly involved in cal/val activities
 - Atmosphere
 - Land
 - Marine
- BELSPO support to validation and calibration via:
 - National STEREO Programme
 - ESA (Future-EO, PRODEX)



EO Cal/Val Activities in Belgium (2)

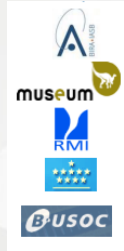
Few examples:

- ALTIUS
- Sentinel O-MPC
- Sentinel-5P validation / ATM-MPC
- Hypernets
- Harmonization VGT-1, VGT-2 PROBA-V and Sentinel 3
- ...



EO Cal/Val Activities in Belgium (3)

- Federal Scientific Institutes under BELSPO authority



- Royal Belgian Institute for Space Aeronomy, BIRA-IASB
- Royal Institute of Natural Sciences of Belgium, RBINS
- Royal Meteorological Institute of Belgium, RMIB
- Royal Observatory of Belgium, ROB
- Belgian User Support and Operation Centre, B-USOC

- Regional partners and SME



- Belgian Interregional Environment Agency, IRCEL-CELINE
- Centre spatial de Liège, CSL
- Rayference
- Université de Liège, ULiège
- Université libre de Bruxelles, ULB
- Universiteit Antwerpen, UA
- Vlaamse Instelling voor Technologisch Onderzoek, VITO

Wish you all a fruitful joint meeting

https://www.belspo.be/belspo/space/index_en.stm

