

# **GSICS Research Working Sub-Group UV**

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1. Name:

Thorsten Fehr

2. Full Affiliation

Sensor Performance, Products and Algorithm Section  
Earth Observation Ground Segment Department  
Directorate of Earth Observation Programmes  
European Space Agency (ESA)

3. Experience

Since 2005 at ESA in the EO Ground Segment and Mission Management Department  
PhD in Clouds Physics with 10 years research experience (DLR/Univ. Munich)

4. Missions / Instruments

2005-2011 responsible for the ESA/Envisat atmospheric chemistry products (SCAMACHY, GOMOS, MIPAS)

2009-present support to Ground Segment development and science preparation of EarthCARE

2009-present acting Mission Manager for the Sentinel-5 Precursor mission



## 5. Representative Publication(s)

Co-author on a number of publications related to the Envisat atmospheric chemistry missions

## 6. Objective(s) for Participating GRWG UV Group

Important trace gases and aerosol information retrieved in the UV (O<sub>3</sub>, Formaldehyde, SO<sub>2</sub>, Aerosol parameters, BrO, OCIO)

Provision of high quality information need very good single instruments calibration for AQ and excellent instrument inter-calibration for long time series ECVs

Coordination/linking of GRWG with ESA activities (e.g., ESA Level 1 Quality Working Group)

Objective is to define inter-agency agreed procedures and products allowing the efficient inter-calibration of satellite and correlative UV spectra

## 7. Recommendation(s) to the UV Group

Define inter-agency agreed procedures and products allowing the efficient inter-calibration of satellite and correlative UV spectra

Database for calibration products and documentation

Exchange with user science communities and services (e.g. through workshops)

