



S5P-TROPOMI: The Operational XCH₄ Data Product

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SRON

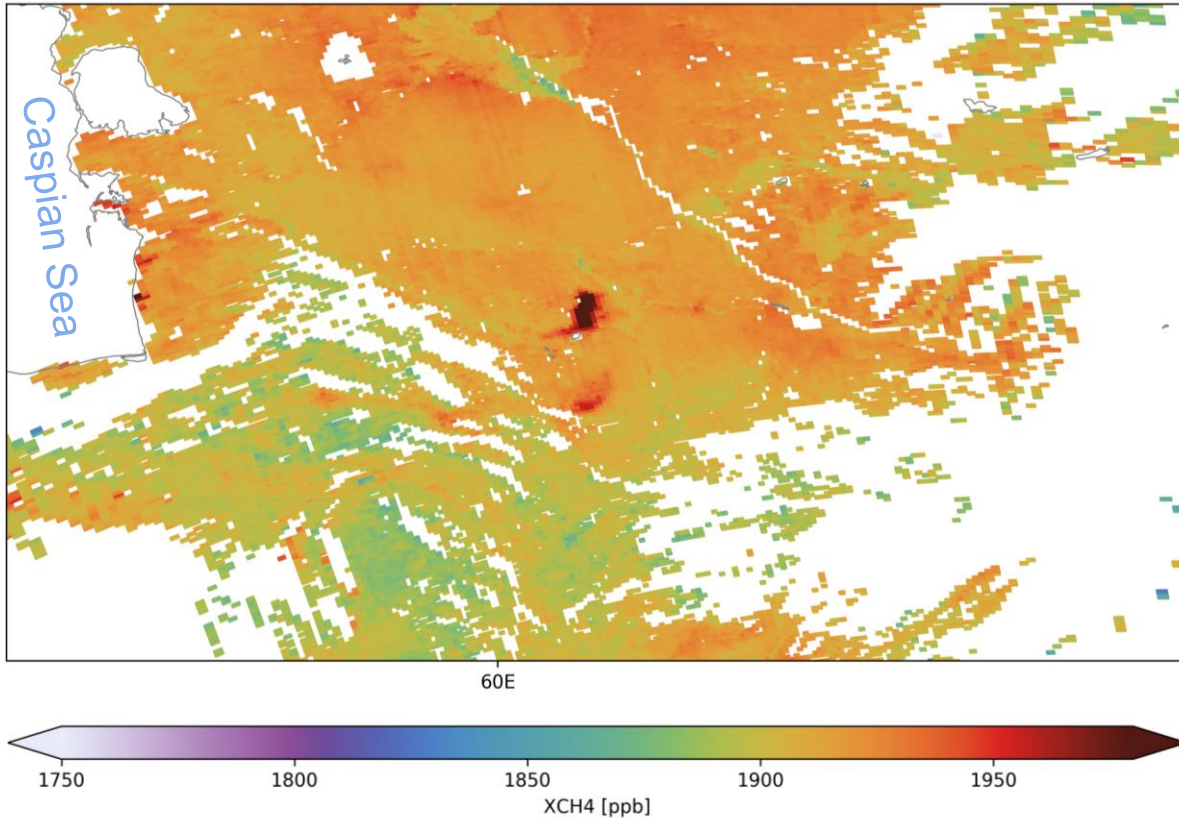
Main Message of Today

Stable operational XCH₄ data product

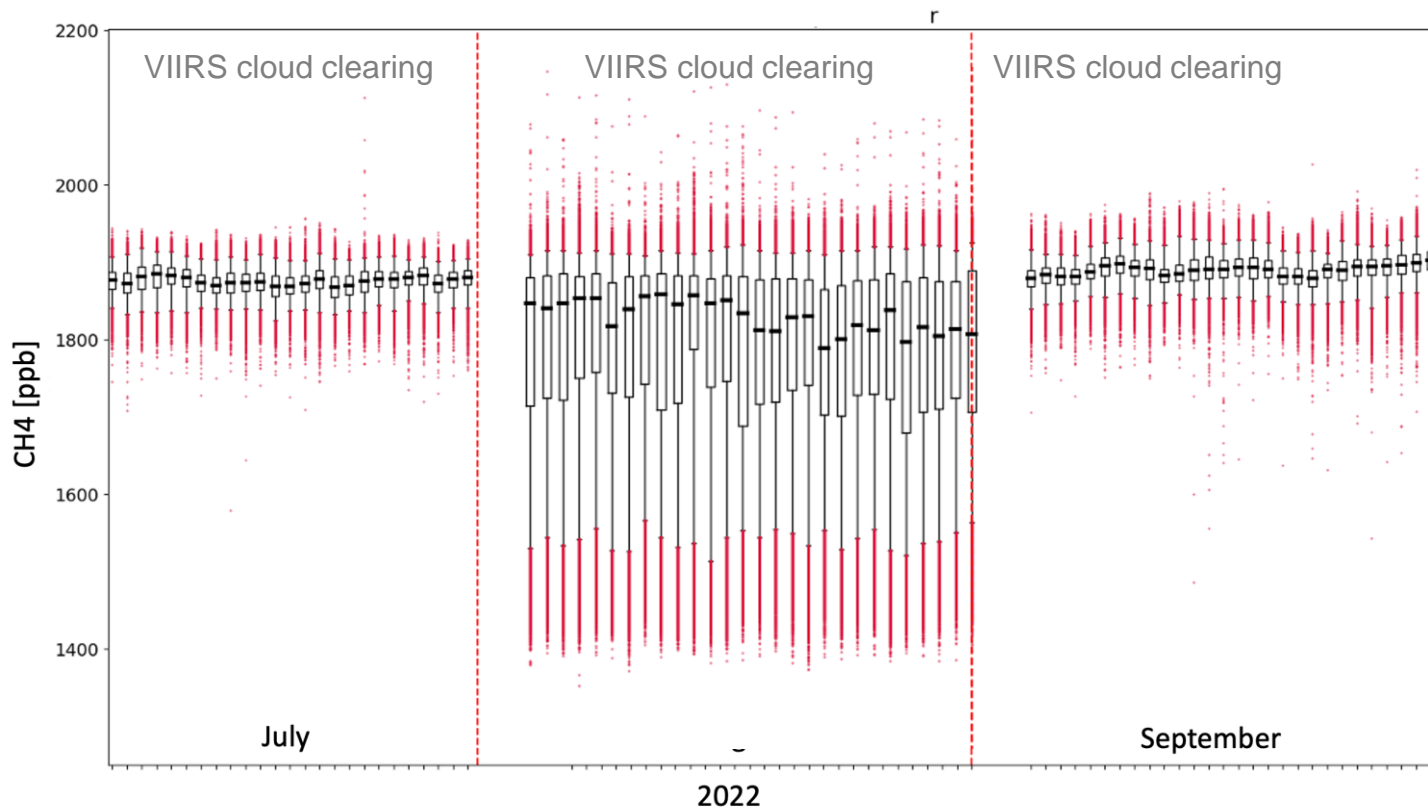
- **Recent improvements:**
 - Surface albedo (implemented)
 - De-stripping (prototype)
 - Cloud filter (50 % more data, prototype)
- **Next step:**
 - Flexible data quality flags



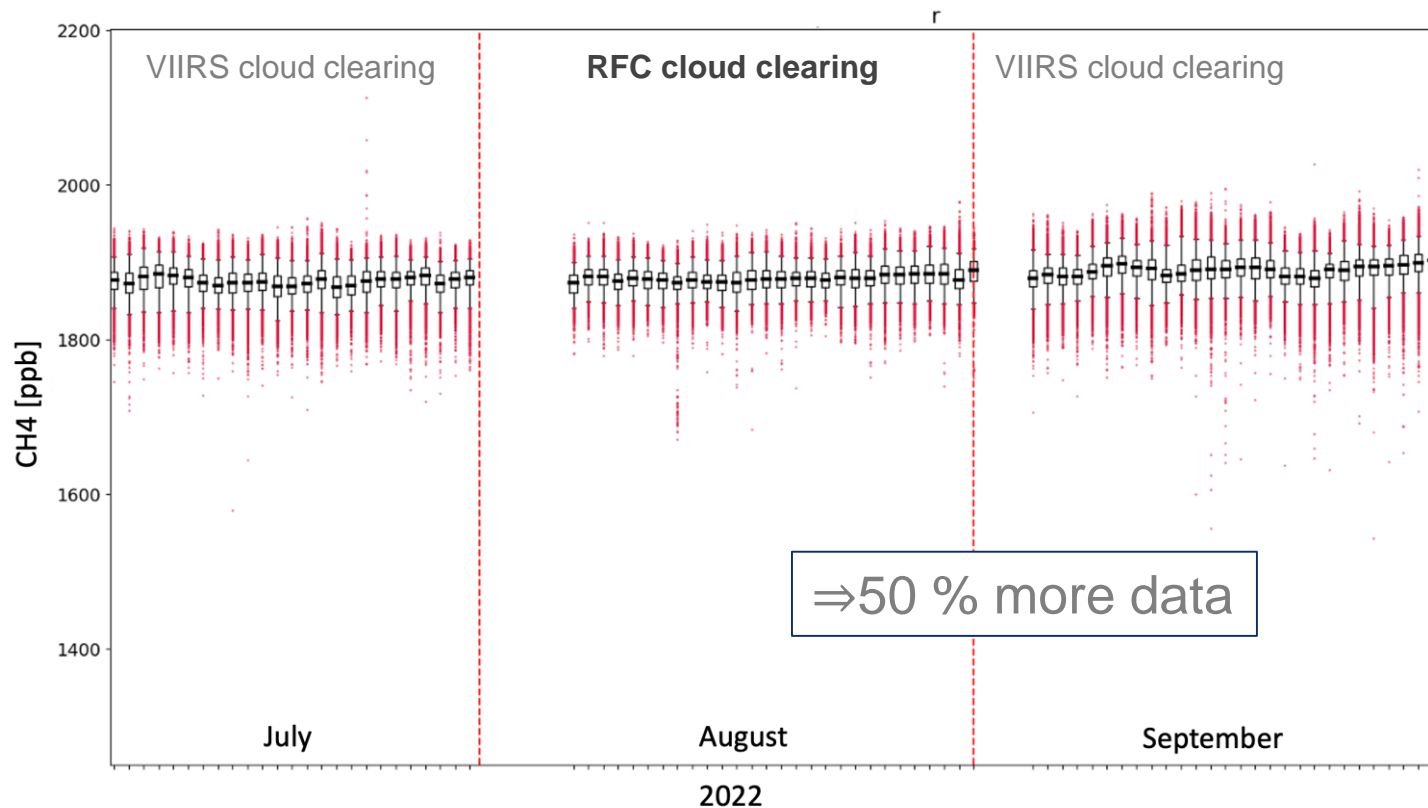
De-stripping of XCH₄ (using running median filtering)



Missing VIIRS data

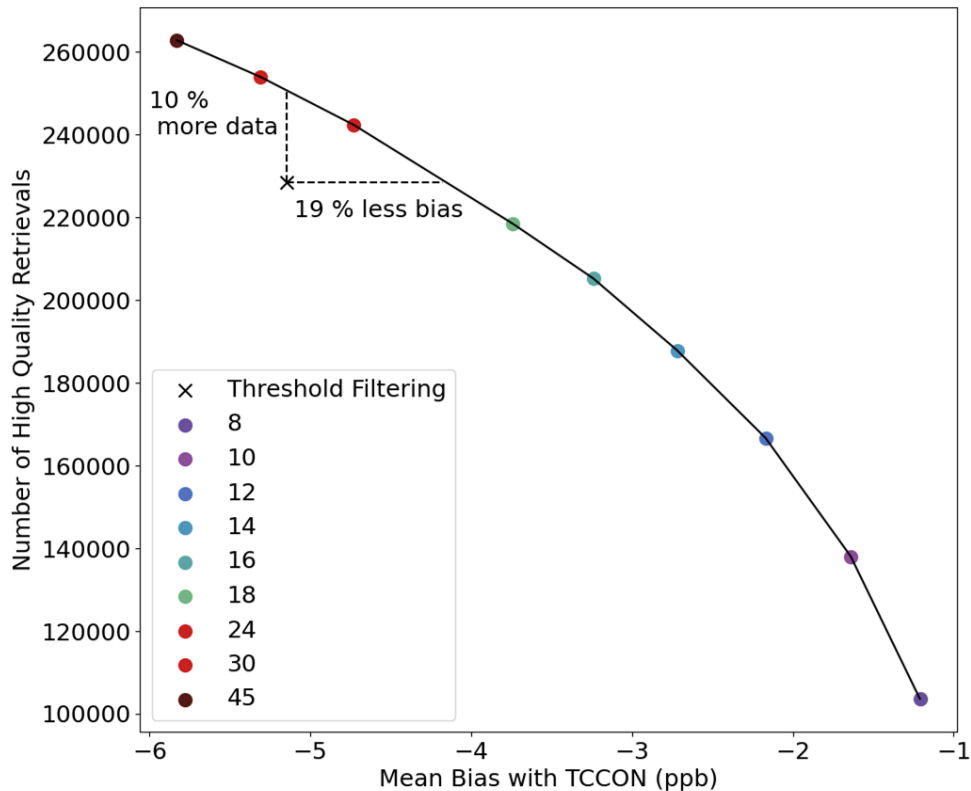


Missing VIIRS data – AI cloud filter



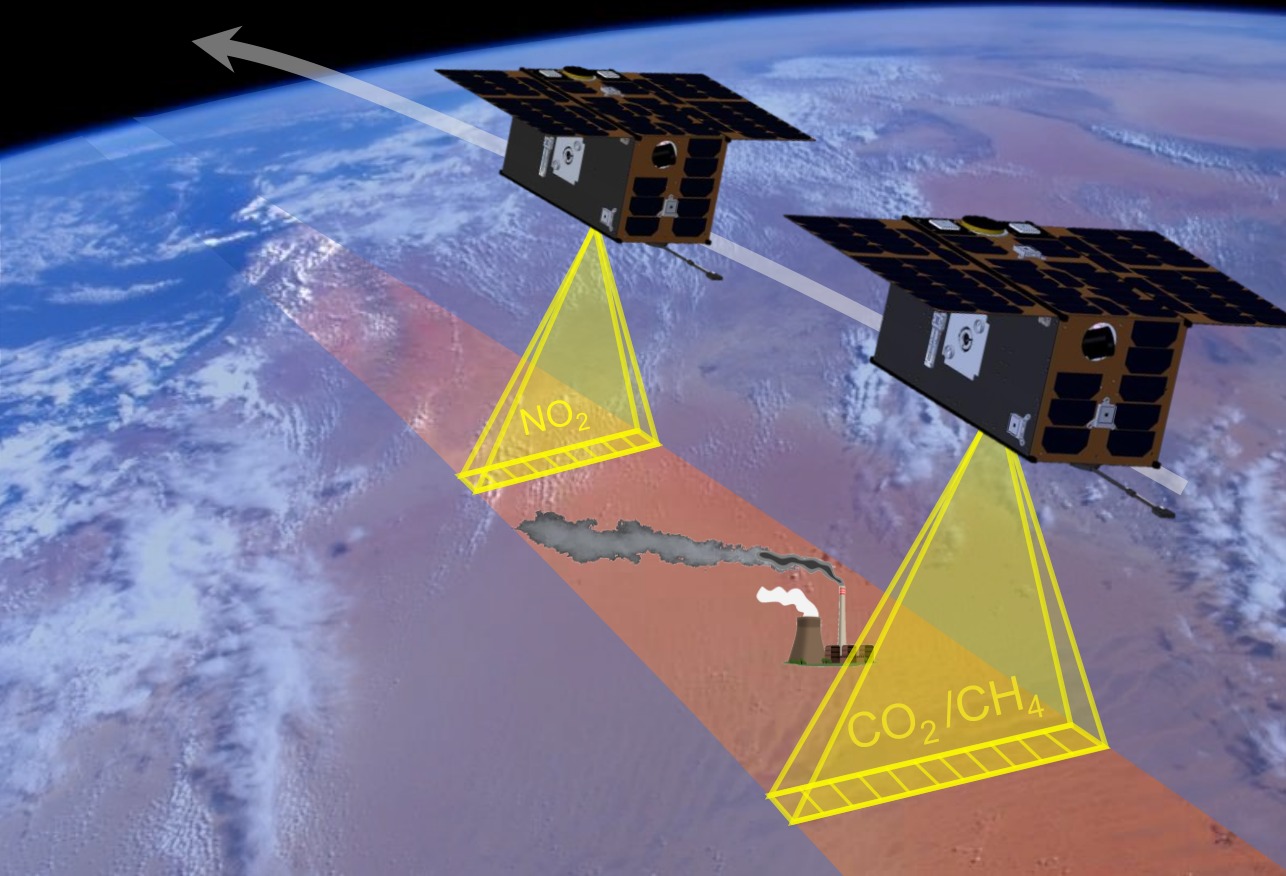
GOSAT-2 data flagging:

...to be developed for TROPOMI as well





Two CubeSats (16 U): TANGO-Carbon and TANGO-Nitro



- Collocated CO₂/CH₄ and NO₂ measurements
- 30 × 30 km² field of view with a spatial resolution of 180/ 300 m
- Science mission
- Open data - open-source policy
- To be implemented into the ESA's SCOUT program
- Launch: 2017