# Status $CH_4$ product TROPOMI Sentinel-5P

- 17 July'22 improved algorithm (v02.04.00) incl. a.o. 3rd order polynomial spectral fit surface reflectance to reduce artefacts (Lorente et al., 2022)

- March'23 full mission operational dataset reprocessed until 25 July'22 with same version alg.

- 22-29 Nov'23 PDGS update (v2.16.0) - alternative TROPOMI-only cloud mask (bypassing VIIRS) will become fallback in operational processor, and will run in parallel for further validation (*see Landgraf presentation*)

- Alternative TROPOMI-only cloud mask also allows a CH4 NRT product to be developed & implemented (autumn 2024 tbc)

See *Maasakkers presentation* on using TROPOMI CH4 data and integrating methane satellite data at different scales.

- Scientific HDO/H2O product available at SRON (contact Tobias Borsdorff), can also be made operational