Easy access of satellite data to the user community

SCIAMACHY short wave IR geophysical data products

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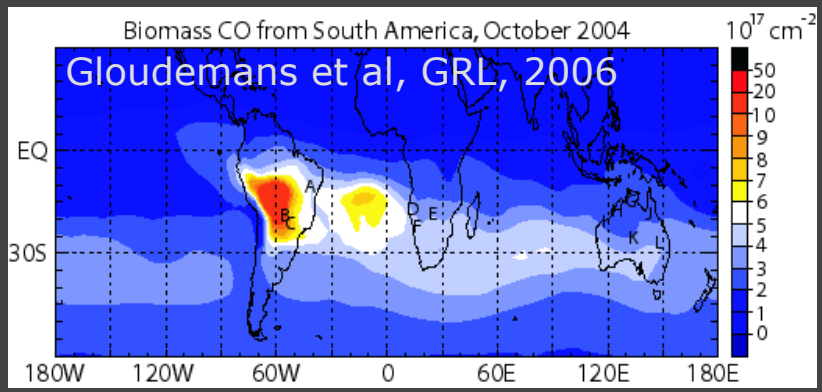
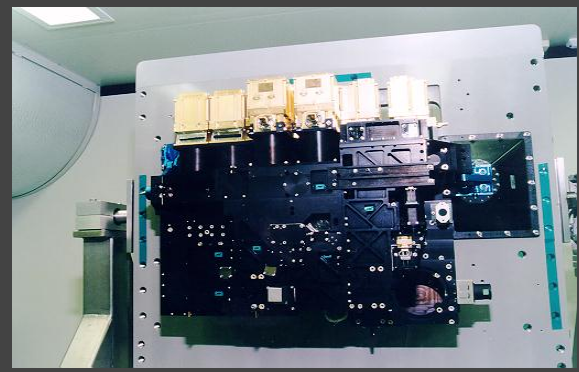
SCIAMACHY SWIR data products

- SRON's goal: To deliver a top quality data product – column or profile of trace gas
- ADAGUC objective: make these results easily accessible to a broad user community (started with the KNMI-SRON SCIAMACHY Data Center)
- ADAGUC: allows for easy combination of data sets of several satellite instruments



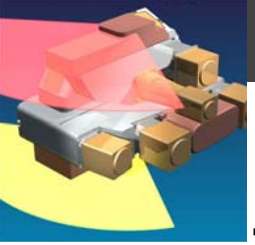


SCIAMACHY optical bench, including the eight detector modules, which were developed and built by SRON, on top.

Example: Google Earth

- Combining SCIAMCHY CO measurements and MODIS fire counts

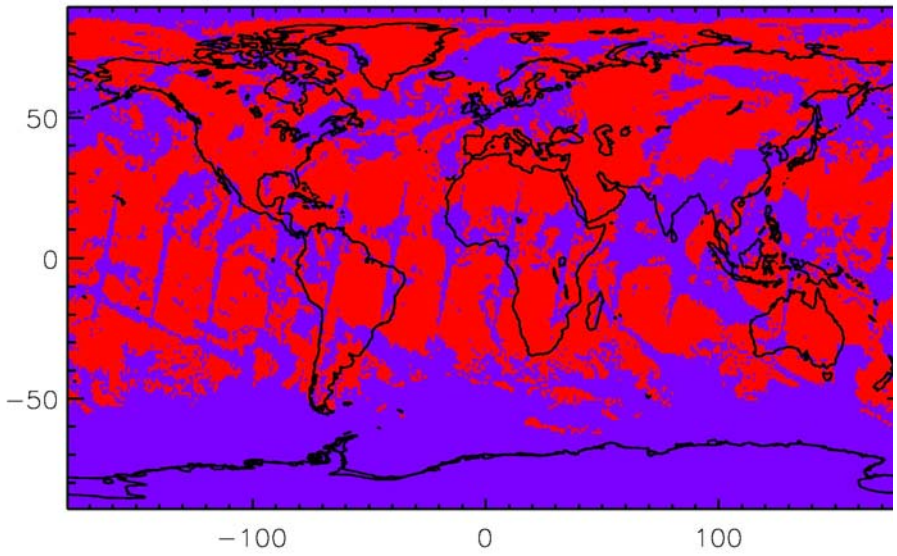
  Movie (55 sec): 3 years of data



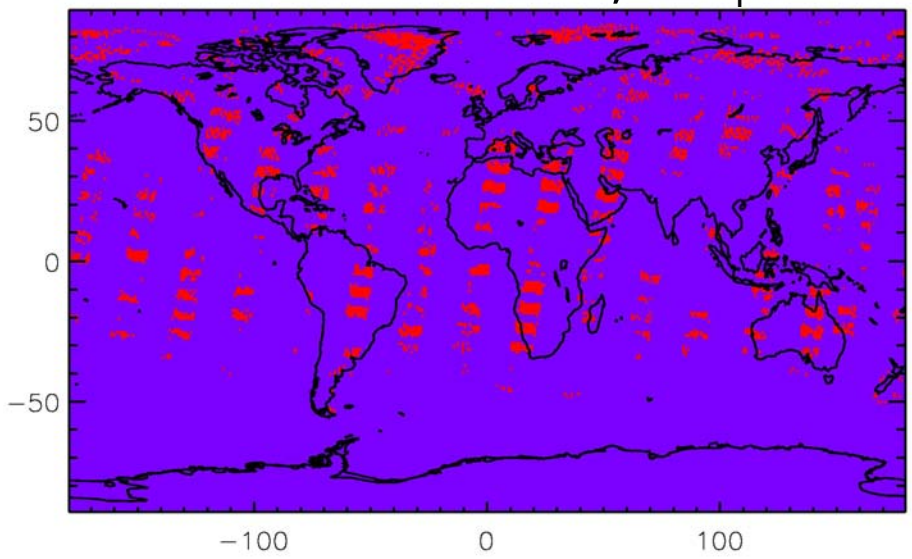
1 day coud-free sampling :

Red : cloud-free measurements of CO and CH_4

TROPOMI CO , CH4



SCIAMACHY CO, CH_4



10 km x 10 km
2300 km swath

120 km x 30 km
960 km swath

In ≈ few days as much as cloud-free pixels as SCIA in 1 year !!

After SCIA, TROPOMI will be the only instrument for CH4 in EU and for CO in the world with sensitivity down to the Earth's surface

SRON