

S5P assesses atmosphere over Living Planet

Sentinel-5P TROPOMI CLOUD, AER_AI, CO & NO₂ acquired on 07 May 2019 at 11:48:14 UTC

...
Sentinel-5P TROPOMI CLOUD, AER_AI, CO & NO₂ acquired on 16 May 2019 at 12:23:14 UTC

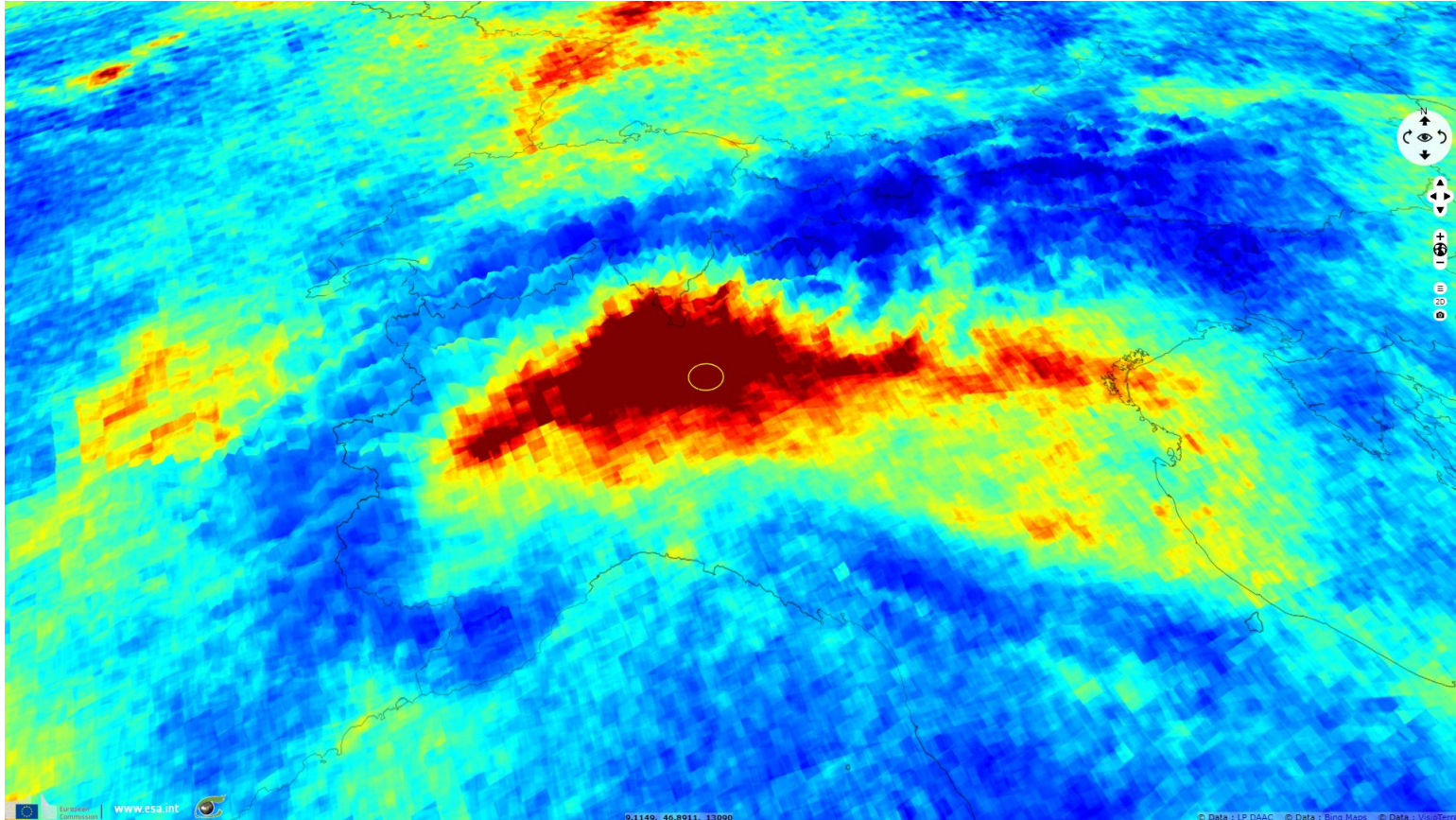
Author(s): Sentinel Vision team, VisioTerra, France - syp@visioterra.fr

Keyword(s): Atmosphere, air quality, pollution monitoring, mountain range, ESA, conference, Italy, Alps

[3D Layerstack](#)

Fig. 1 - S5P TROPOMI (2019.05.07->16) - Tropospheric NO₂ with colour map, 10-days mean - NO₂ level decreases with altitude.

[3D view](#)



The Alps wrap around industrial northern Italy, preventing NO_x to scatter. Similarly, NO₂ also concentrates in the Rhine and the Rhone valley.

Fig. 2 - Total Column CO with colour map, 10-days mean - CO level is rather homogeneous onshore but drops over mountain ranges.

[3D view](#)

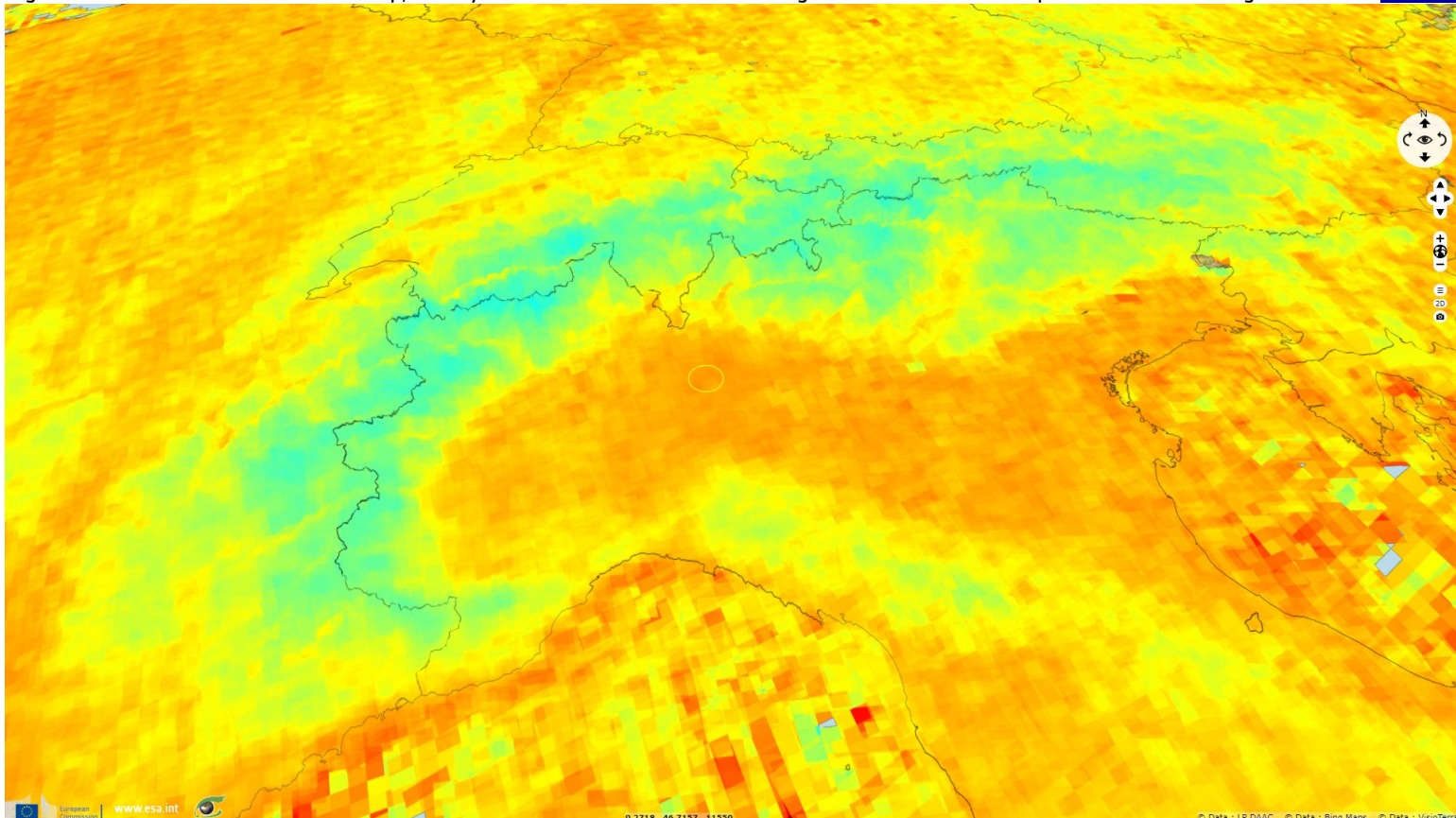


Fig. 3 - Cloud fraction with colour map,10-days mean - Clouds accumulate over mountains owing to orographic lift.

[3D view](#)

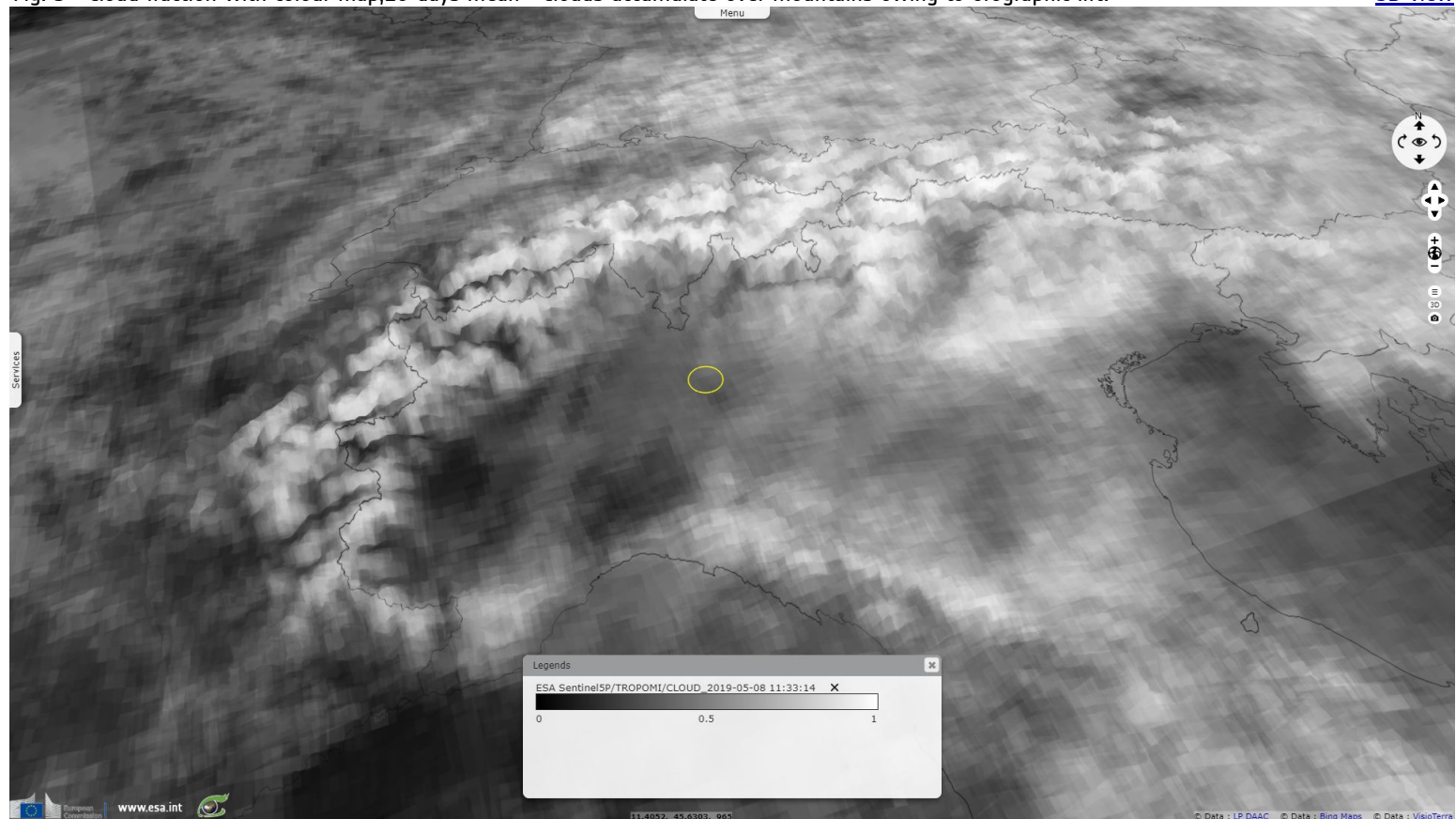
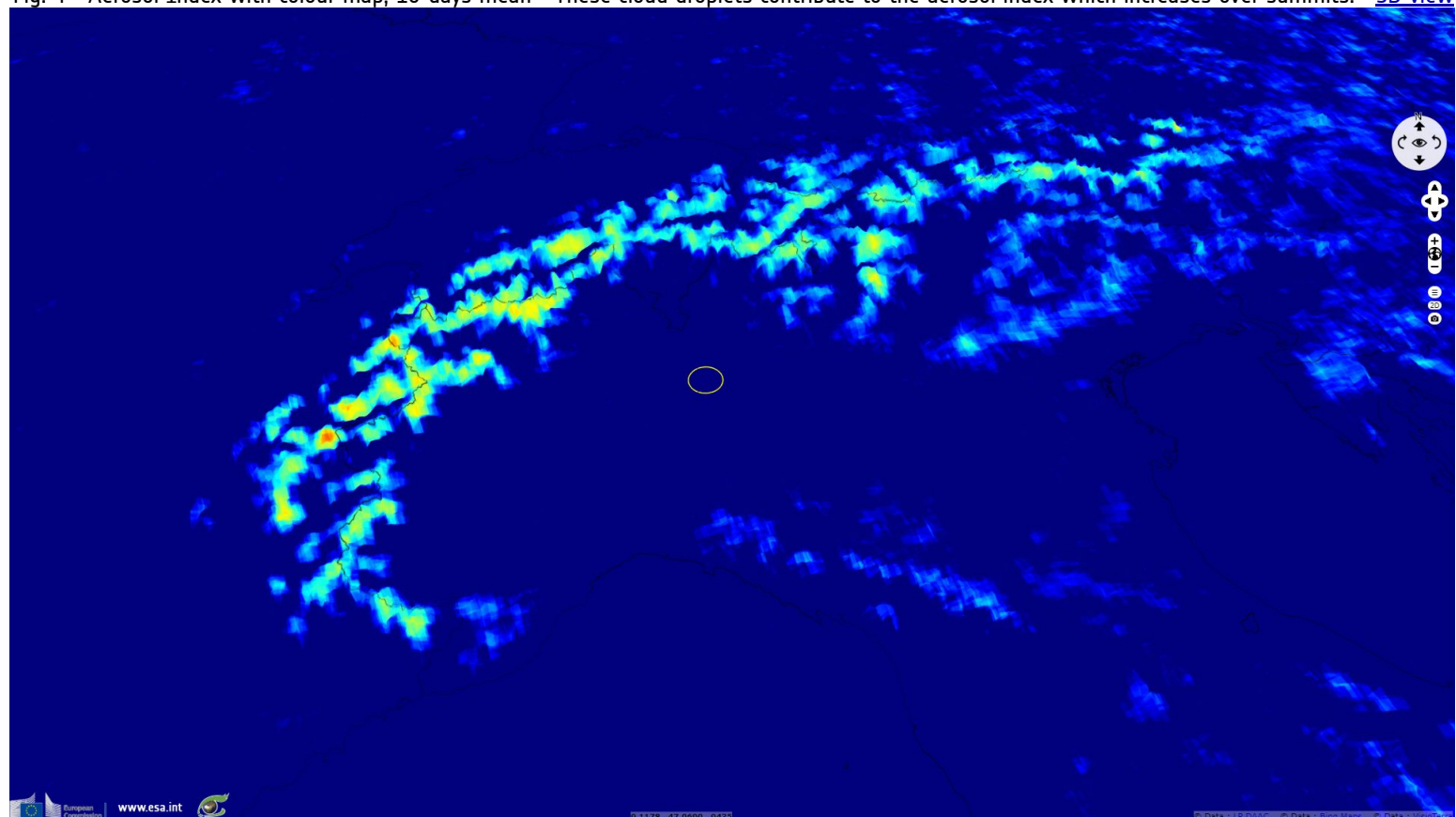


Fig. 4 - Aerosol Index with colour map, 10-days mean - These cloud droplets contribute to the aerosol index which increases over summits. [3D view](#)



*The views expressed herein can in no way be taken to reflect the official opinion of the European Space Agency or the European Union.
Contains modified Copernicus Sentinel data 2019, processed by VisioTerra.*

More on European Commission space:						
More on ESA:				S-1 website	S-2 website	S-3 website
More on Copernicus program:				SciHub portal	Cophub portal	Inthub portal
More on VisioTerra:				Sentinel Vision Portal	Envisat+ERS portal	Swarm+GOCE portal
					CryoSat portal	