Sentinel Vision
SED-1353
11 September 2023

3D Layerstack

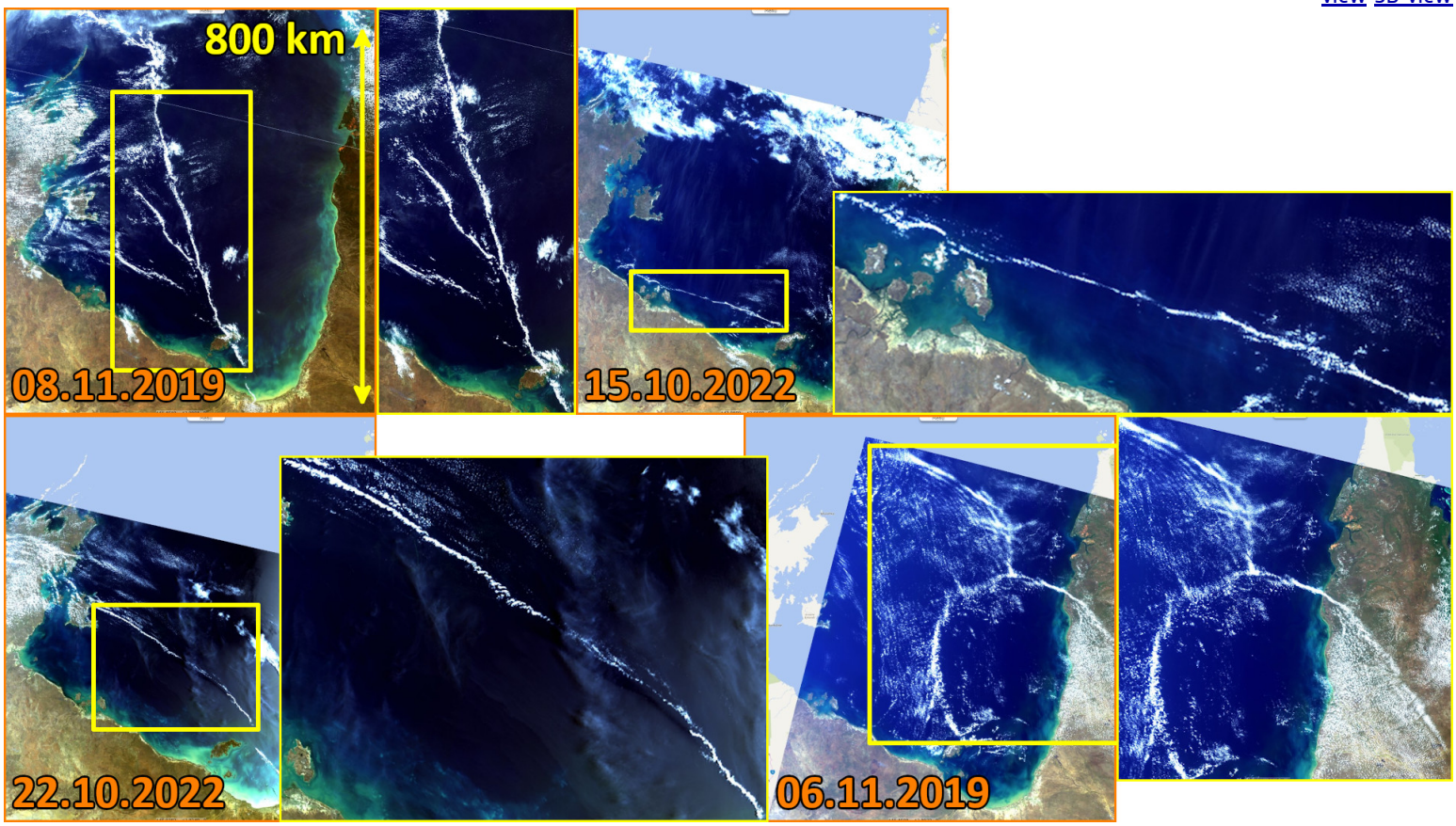
Morning glory clouds in the Bay of Carpentaria, Australia

Sentinel-3 OLCI FR acquired on **22 October 2018** from 00:22:46 to 00:25:06 UTC
Sentinel-3 OLCI FR acquired on **30 October 2018** from 00:07:07 to 00:17:37 UTC
...
Sentinel-3 OLCI FR acquired on **06 November 2022** from 00:16:46 to 00:19:46 UTC

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

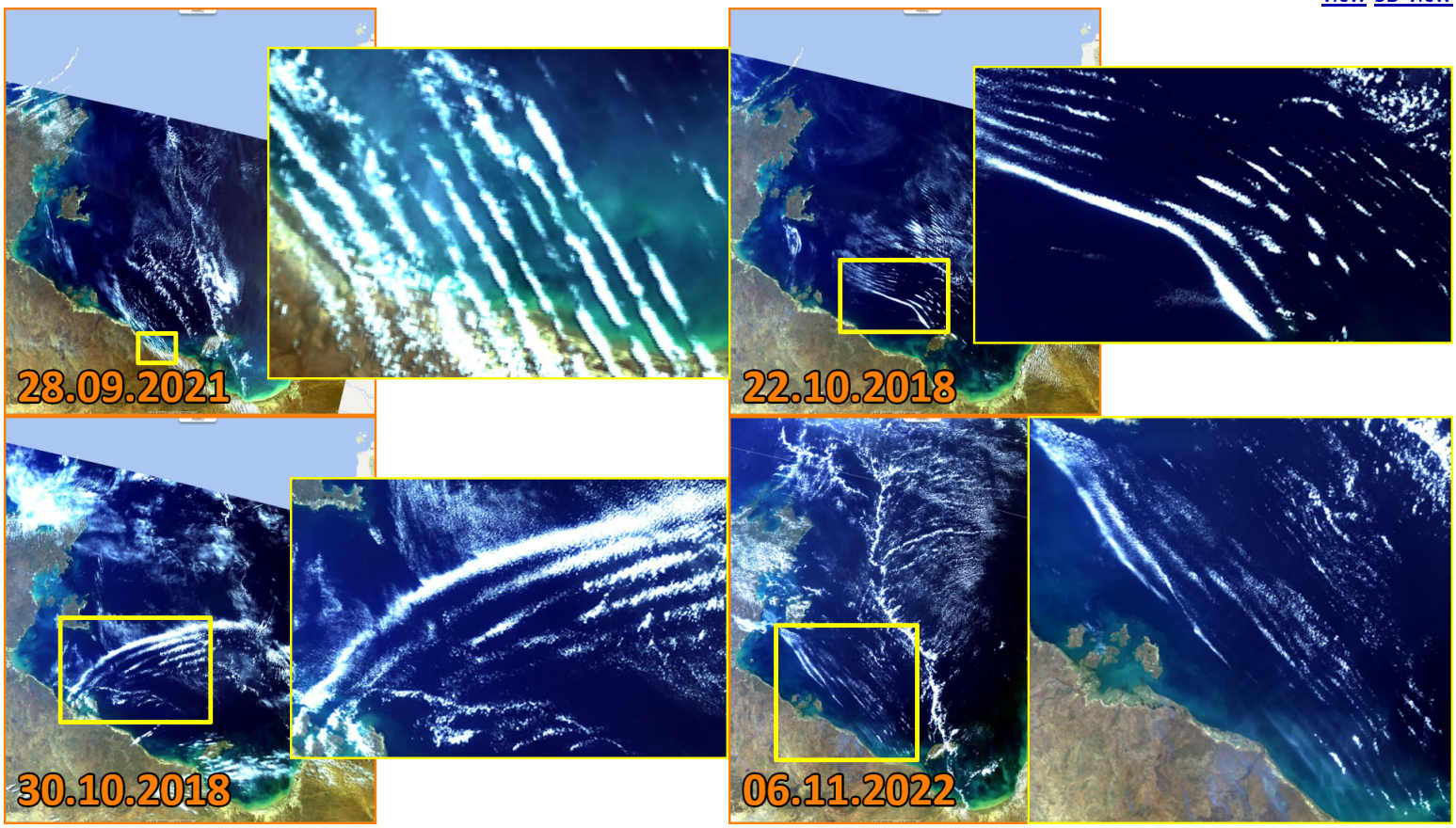
Keyword(s): Atmosphere, clouds, Australia

Fig. 1 - S3 OLCI (08.11.2019; 15.10.2022; 22.10.2022; 06.11.2019) - Single, hundreds of kilometres-long morning glory clouds. 3D view 3D view 3D view 3D view



The volutus extra long cloud better known as morning glory cloud is a rare phenomenon consisting of a low-level atmospheric solitary wave and associated cloud. The southern part of the Gulf of Carpentaria in Northern Australia is the only known location where it can be observed regularly.

Fig. 2 - S3 OLCI (28.09.2021; 22.10.2018; 30.10.2018; 06.11.2022) - Morning glory clouds in the form of bands of parallel rolls. 3D view 3D view 3D view 3D view



The wave often occurs as an amplitude-ordered series of waves forming bands of roll clouds.

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Funded by the EU and ESA SED-1353-SentinelVision powered by VisioTerra