

Datation of oil spills, St Briec wind farm site, France

Sentinel-1 CSAR IW acquired on 08 June 2021 at 17:57:18 UTC

Sentinel-3 OLCI FR acquired on 13 June 2021 at 10:56:06 UTC

Sentinel-2 MSI acquired on 13 June 2021 at 11:21:11 UTC

Sentinel-1 CSAR IW acquired on 14 June 2021 at 17:56:25 UTC

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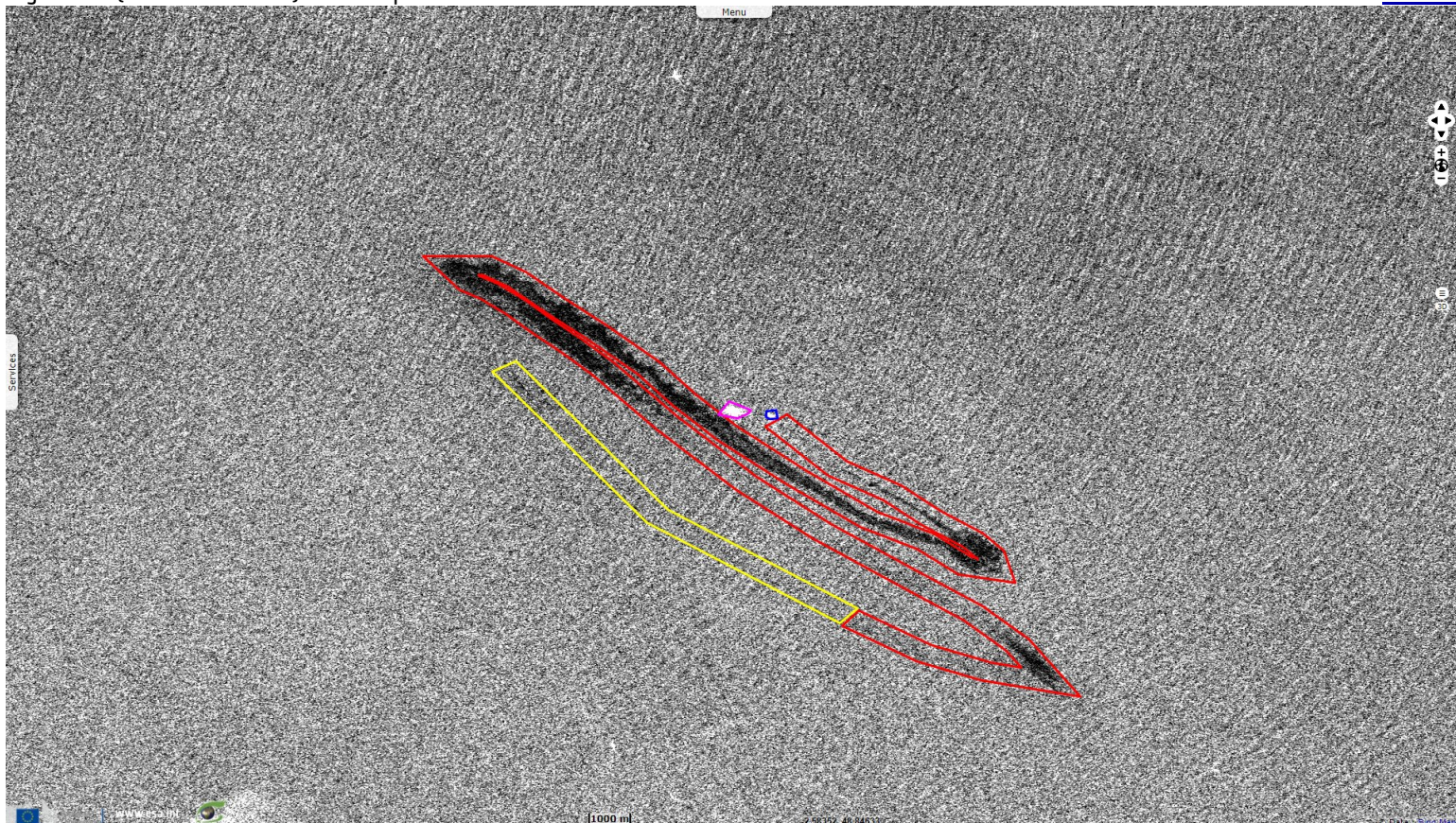
Keyword(s): Oil spill, pollution, marine environment, emergency, man-made disaster, ship, Normandy, France, Channel



[2D Layerstack](#)

Fig. 1 - S1 (14.06.2021 17:56) - The ship Aeolus declared that it had leaked 100 litres of oil.

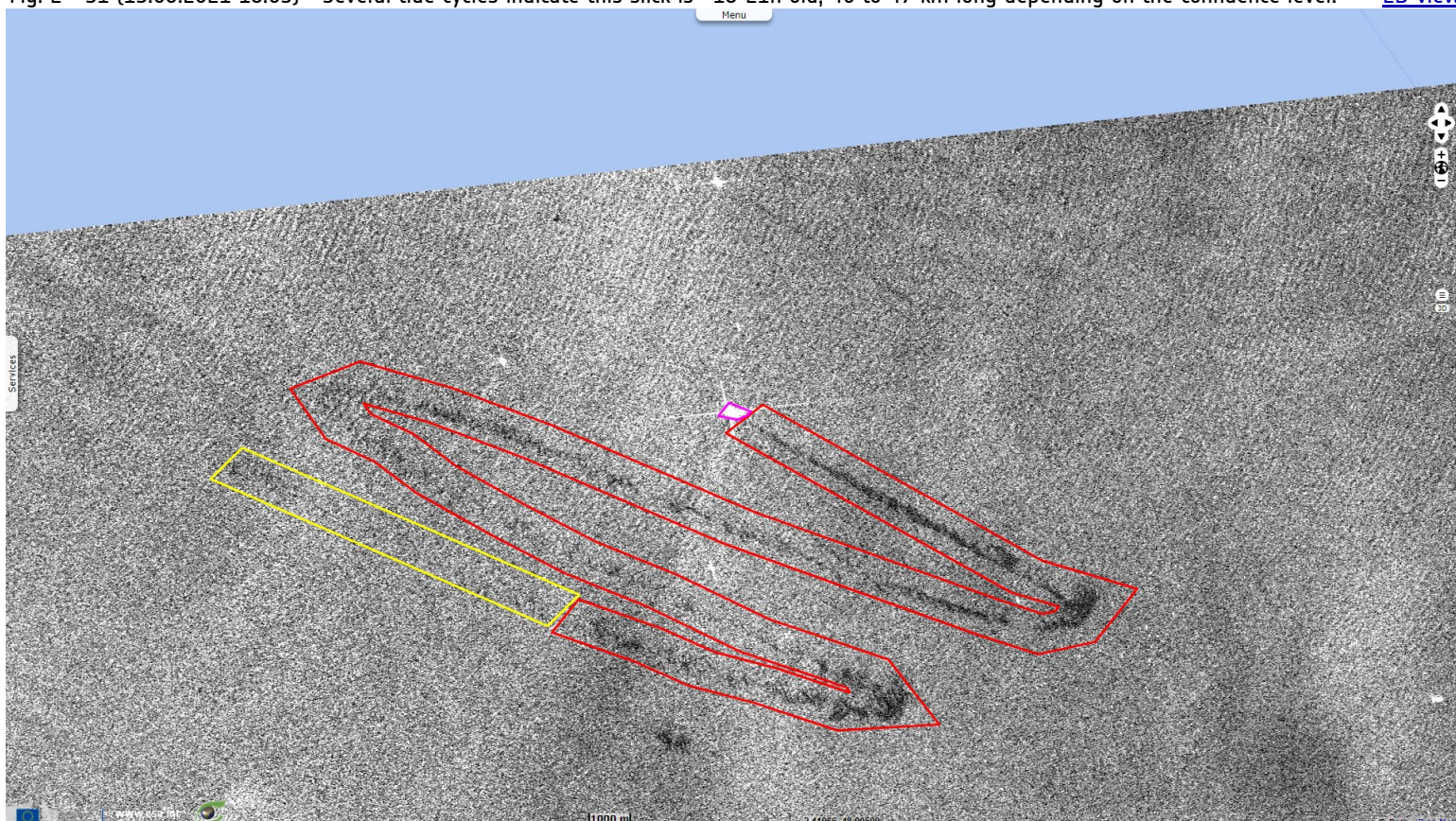
[2D view](#)



The oldest part visible on the spill has likely been emitted 17 (conservative estimate, red) to 20h (lower confidence estimate, yellow) before.

Fig. 2 - S1 (13.06.2021 18:03) - Several tide cycles indicate this slick is ~18-21h old, 40 to 47 km long depending on the confidence level.

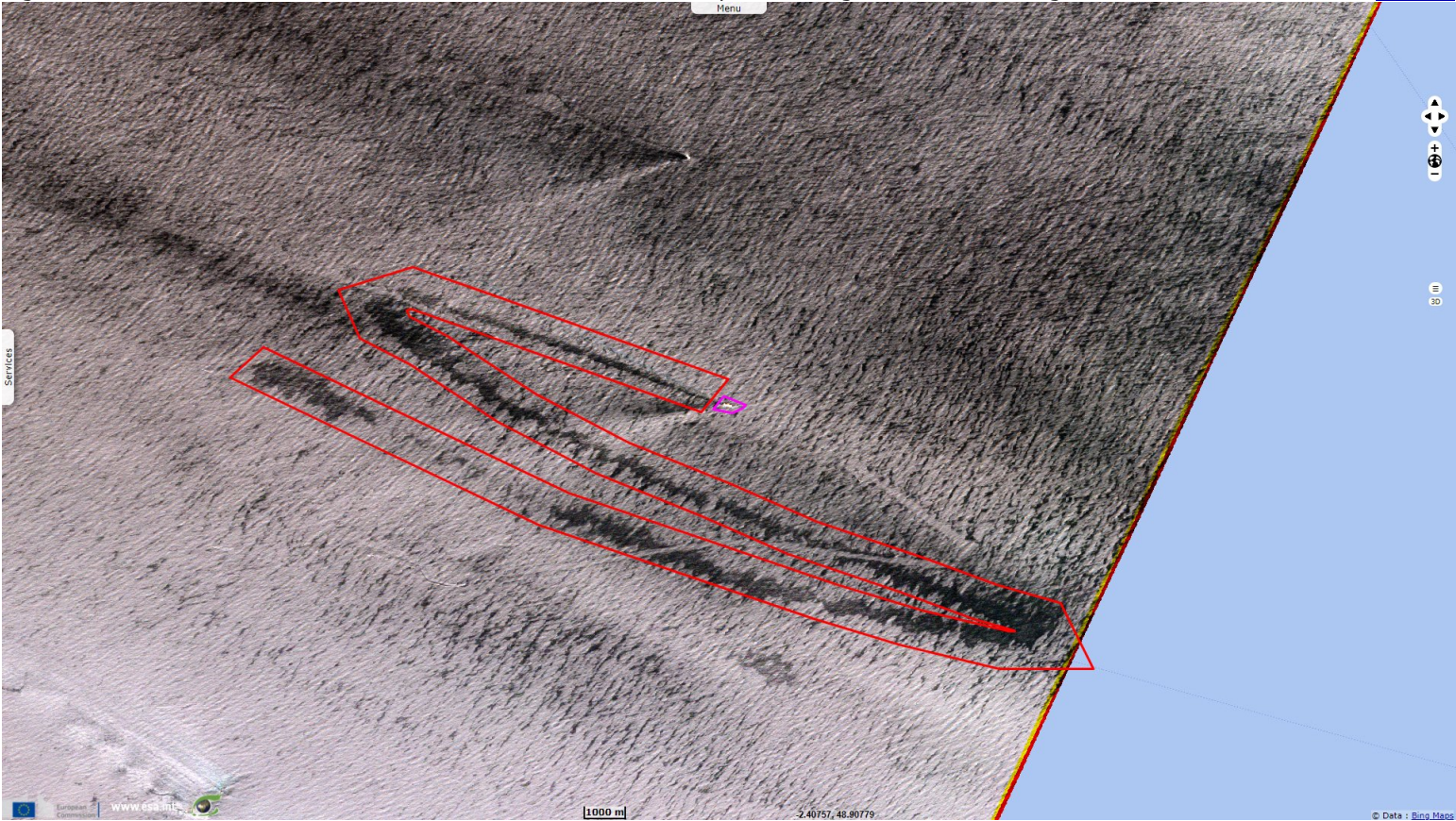
[2D view](#)



To be made of 62 200 m high turbines, the first eolian park of France is being constructed by the Dutch ship Aeolus. The site was however affected by an oil spill declared at 6:30 am on Monday 14 and estimated by the authorities as 16 km long.

Fig. 3 - S2 (13.06.2021 11:21) - This is the same slick 7 hours before the previous image, visible in the sun glint.

[2D view](#)



According to the tidal charts, it can be estimated at 15h old, it is coherent with the above estimate. Darker areas at south west are difficult to estimate reliably.

Fig. 4 - S3 OLCI (13.06.2021 10:56) - The same spill, not seen in the sun glint, can be found to be between 14h and 26h old.

[2D view](#)



Fig. 5 - Landsat-8 (12.06.2021 10:58) - The three cyan lines show 3 slicks at north-west, the oldest slick must be over 24h old.

[2D view](#)

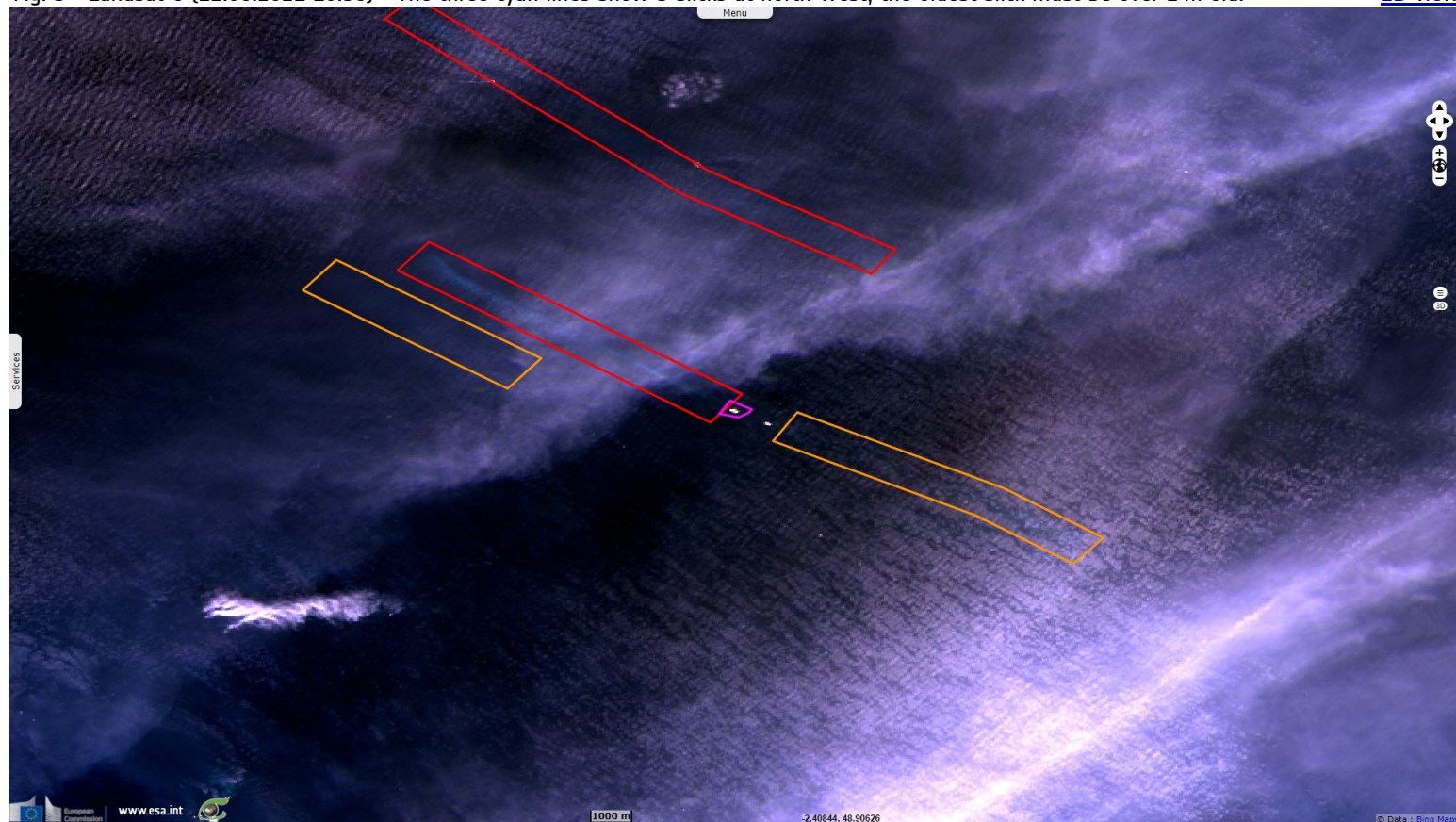
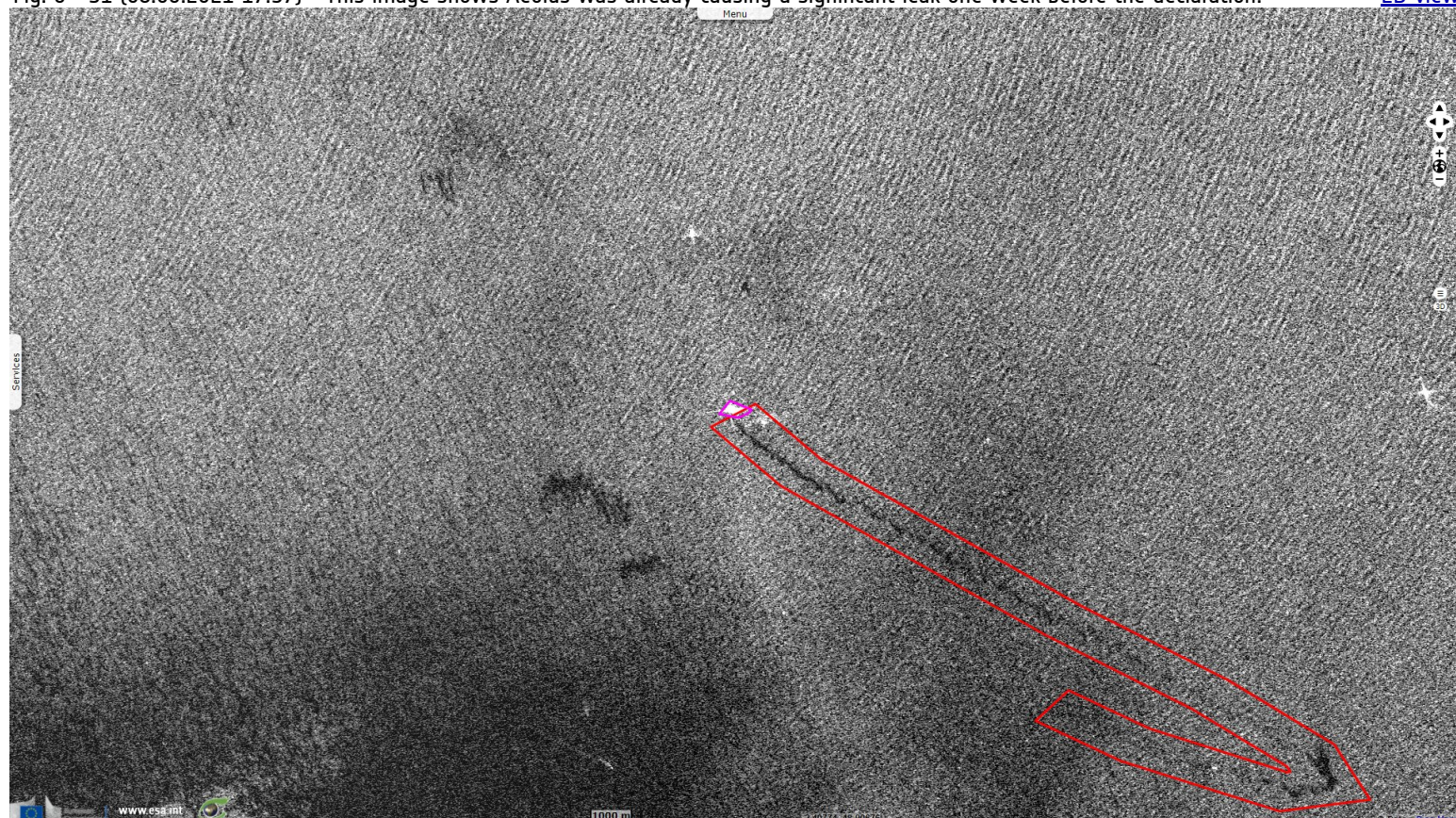














Fig. 6 - S1 (08.06.2021 17:57) - This image shows Aeolus was already causing a significant leak one week before the declaration.

[2D 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.
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