

Off-season cevenol storm affects South of France

Sentinel-1 CSAR IW acquired on 01 March 2022 from 17:39:01 to 17:39:26 UTC

Sentinel-2 MSI acquired on 03 March 2022 at 10:38:39 UTC

Sentinel-1 CSAR IW acquired on 12 March 2022 from 05:52:32 to 05:52:57 UTC

Sentinel-3 SLSTR RBT acquired on 12 March 2022 from 10:03:42 to 10:06:42 UTC

Sentinel-1 CSAR IW acquired on 13 March 2022 from 17:39:01 to 17:39:26 UTC

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[2D Layerstack](#)

Fig. 1 - S3 SLSTR (12.03.2022) - An off-season cevenol storm affected South of France, causing orographic rainfalls.

[2D view](#)

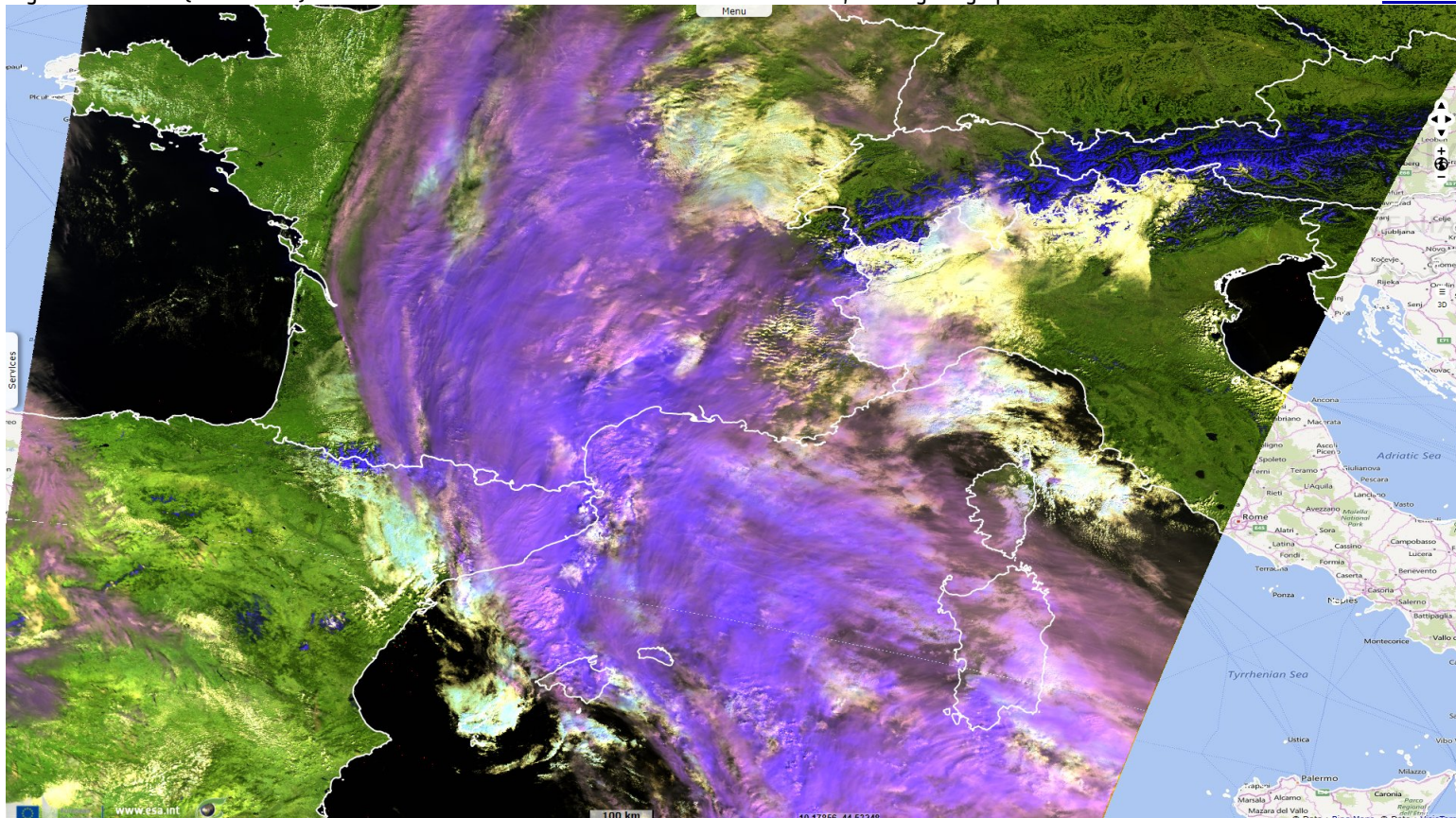
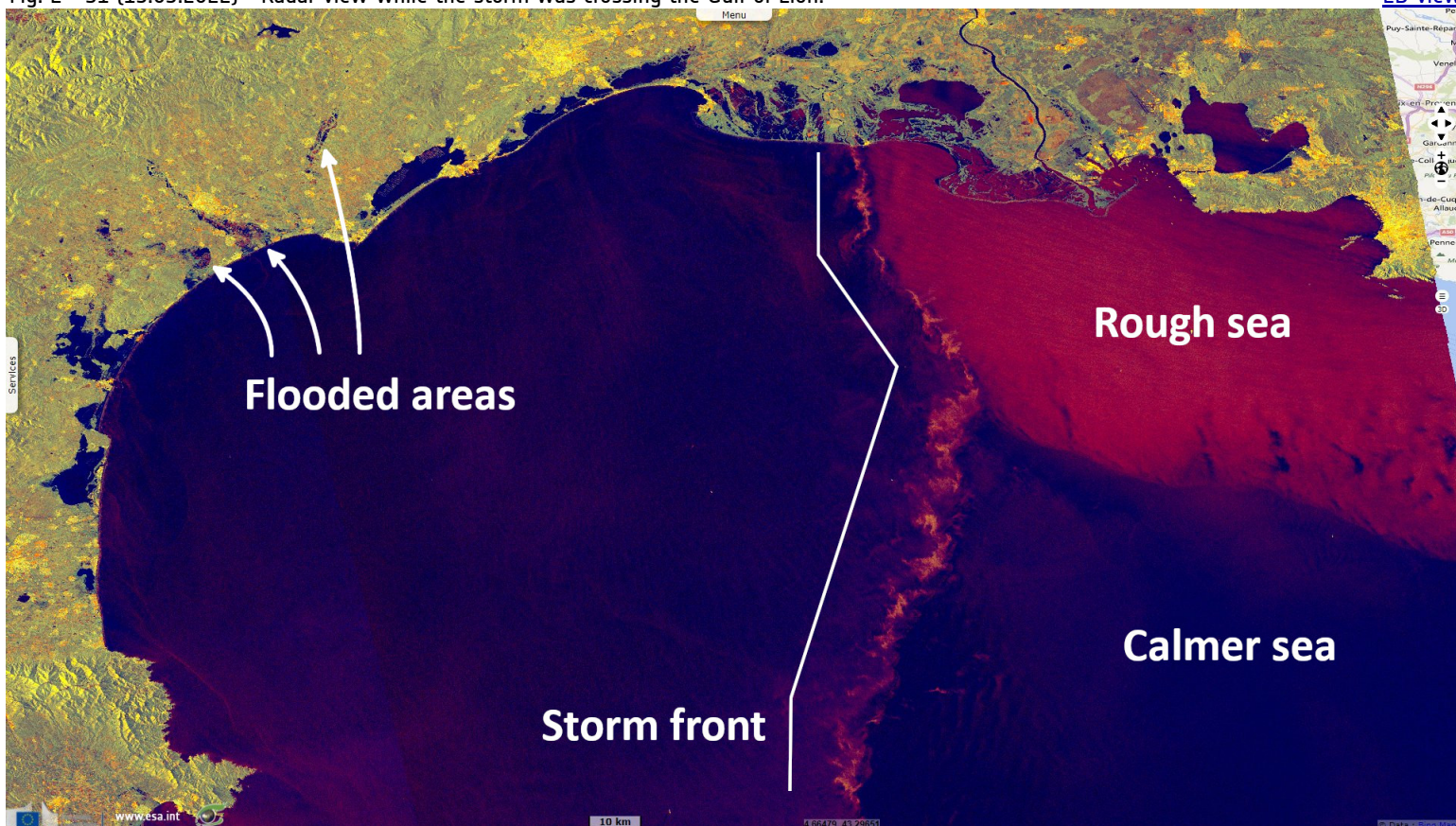


Fig. 2 - S1 (13.03.2022) - Radar view while the storm was crossing the Gulf of Lion.

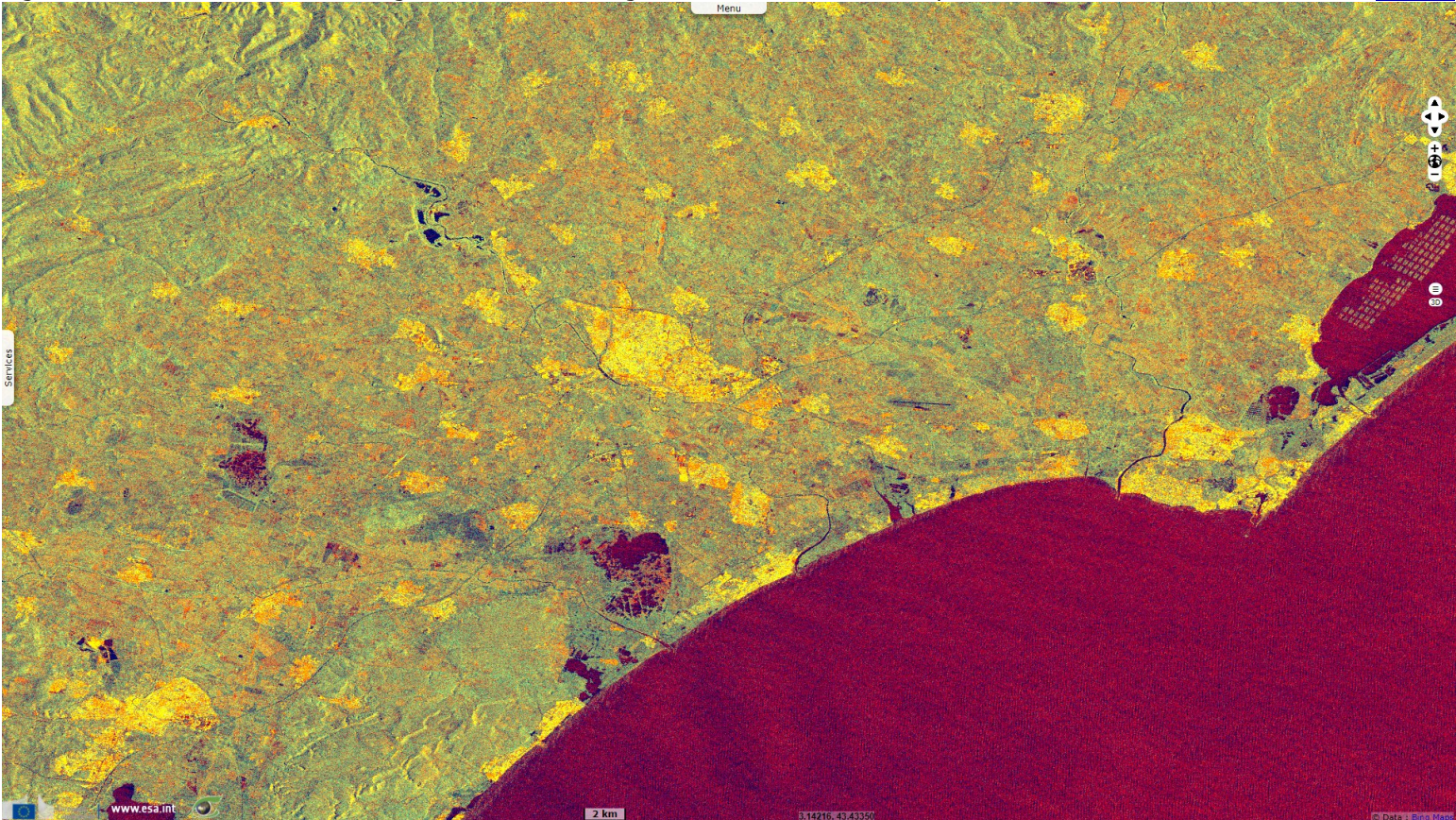
[2D view](#)



It is a record Cevenol episode for the month of March, the equivalent of 2 to 3 months of rain. A strong deterioration took place this weekend over the Languedoc after several months of drought.

Fig. 3 - S1 (12.03.2022) - View of the region beneath the Montagne Noire hours before the heavy rainfall.

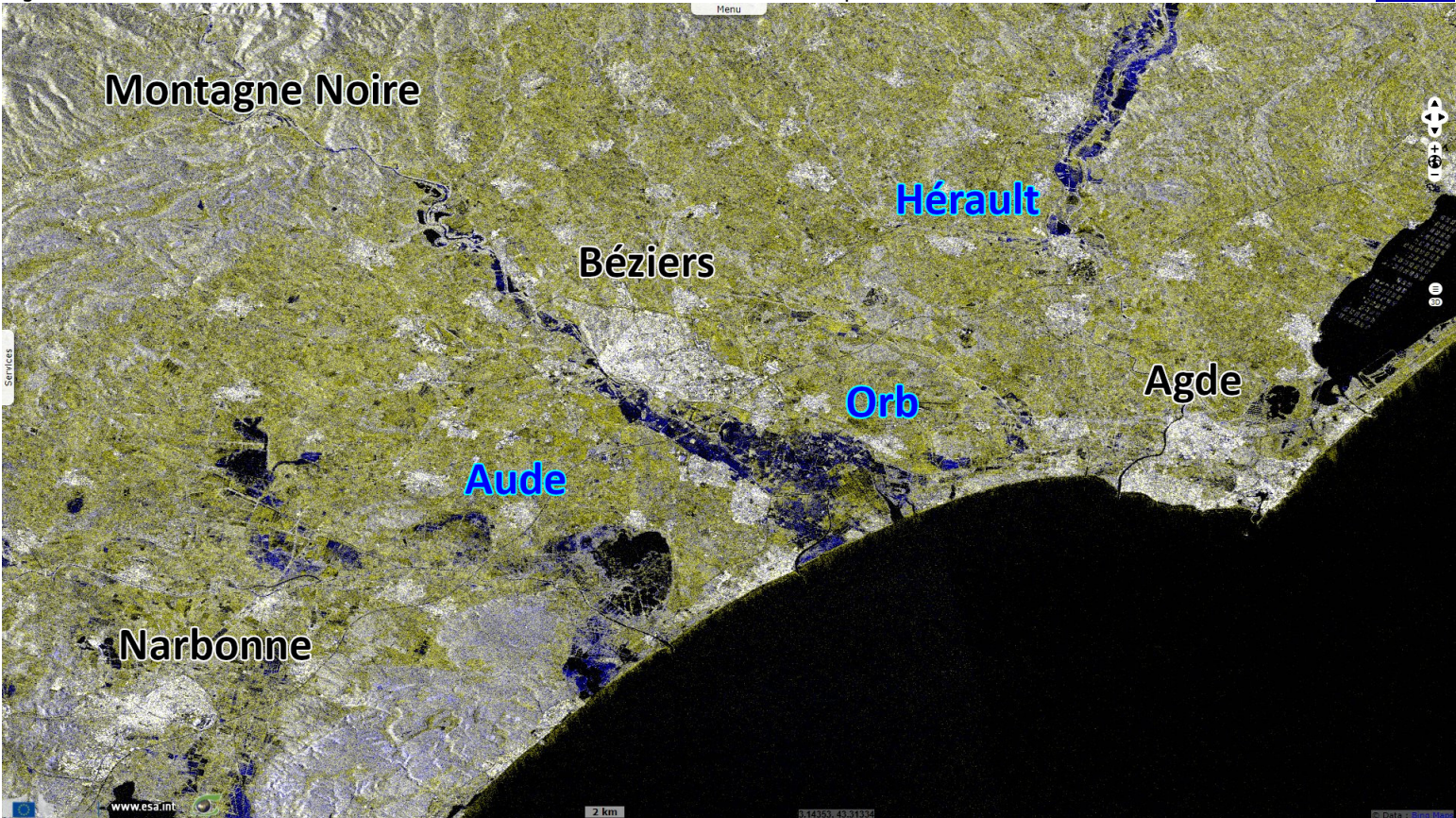
[2D view](#)



Two to three months of rain fell over the 12-13 March: 300 to 400 mm on the Montagne Noire, 100 to 200 mm from the Espinouse massif to the Cévennes and 50 to 100 mm on the Hérault coast.

Fig. 4 - S1 (01 & 13.03.2022) - Swollen rivers show in dark blue on this multidade composite.

[2D view](#)















On the Cévennes and the Aubrac, it fell 20 to 50 cm of heavy snow from 1300 meters of altitude.

Fig. 5 - S2 (03.03.2022) + S1 (13.03.2022) - Mask of the open water area after the flooding over the last pre-flooding optical view. [2D view](#)



This Cevenol episode was accompanied by a sea wind with gusts between 80-90 km/h on the Hérault coast and a gust of wind in the Toulouse region up to 90 km/h.

*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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