

Heatwave causes massive melt of Greenland ice sheet

Sentinel-3 OLCI FR & SLSTR LST acquired on 29 July 2021 from 13:14:58 to 13:17:58 UTC

Sentinel-3 OLCI FR acquired on 30 July 2021 from 12:48:47 to 12:51:47 UTC

Sentinel-3 SLSTR LST acquired on 30 July 2021 from 13:47:25 to 13:53:25 UTC

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[2D Layerstack](#)

Fig. 1 - S3 SLSTR (29.07.2021) - Greenland's ice sheet has experienced a "massive melting event" during a heatwave, ~ 8 billion tons a day. [2D view](#)

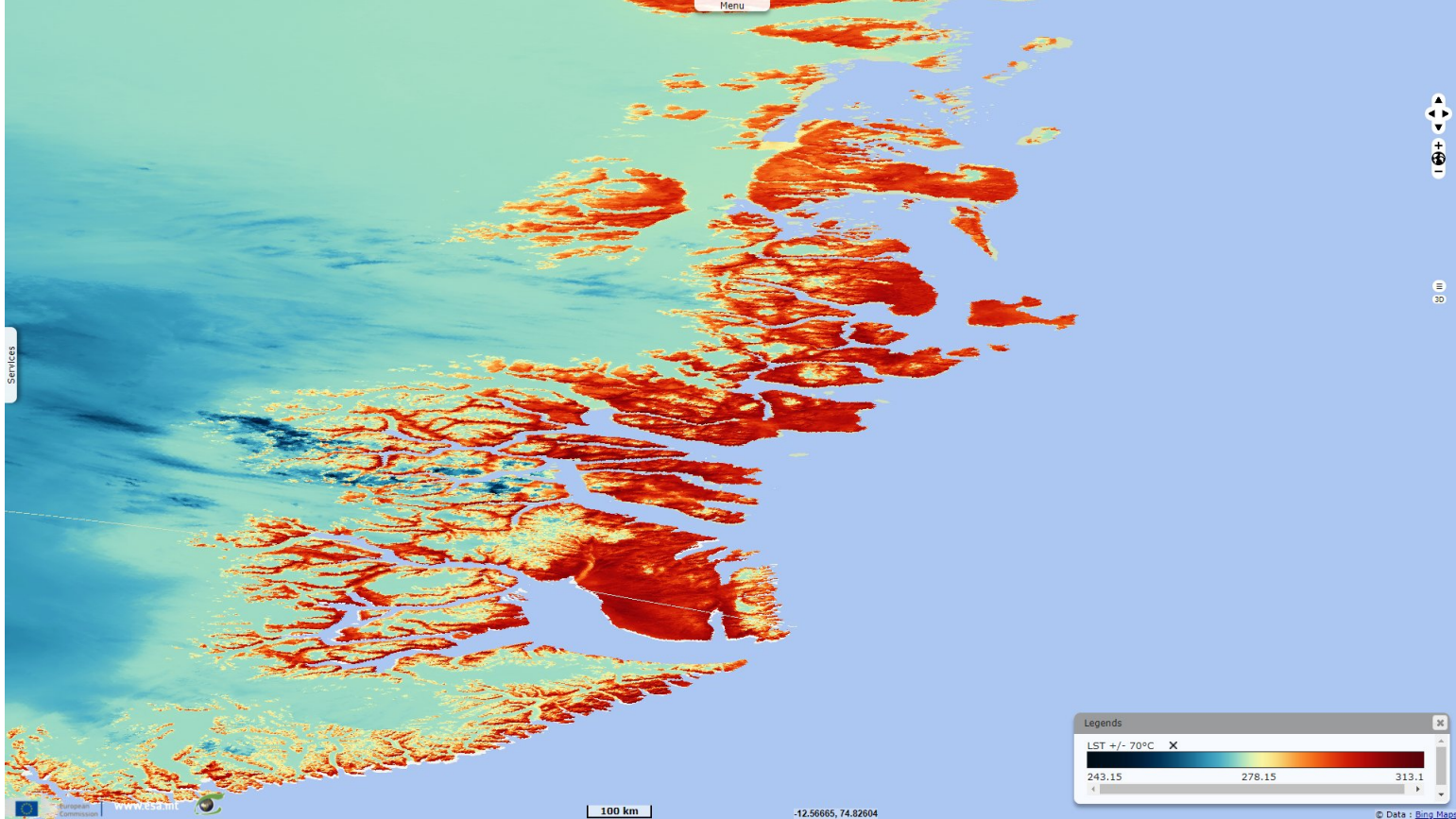
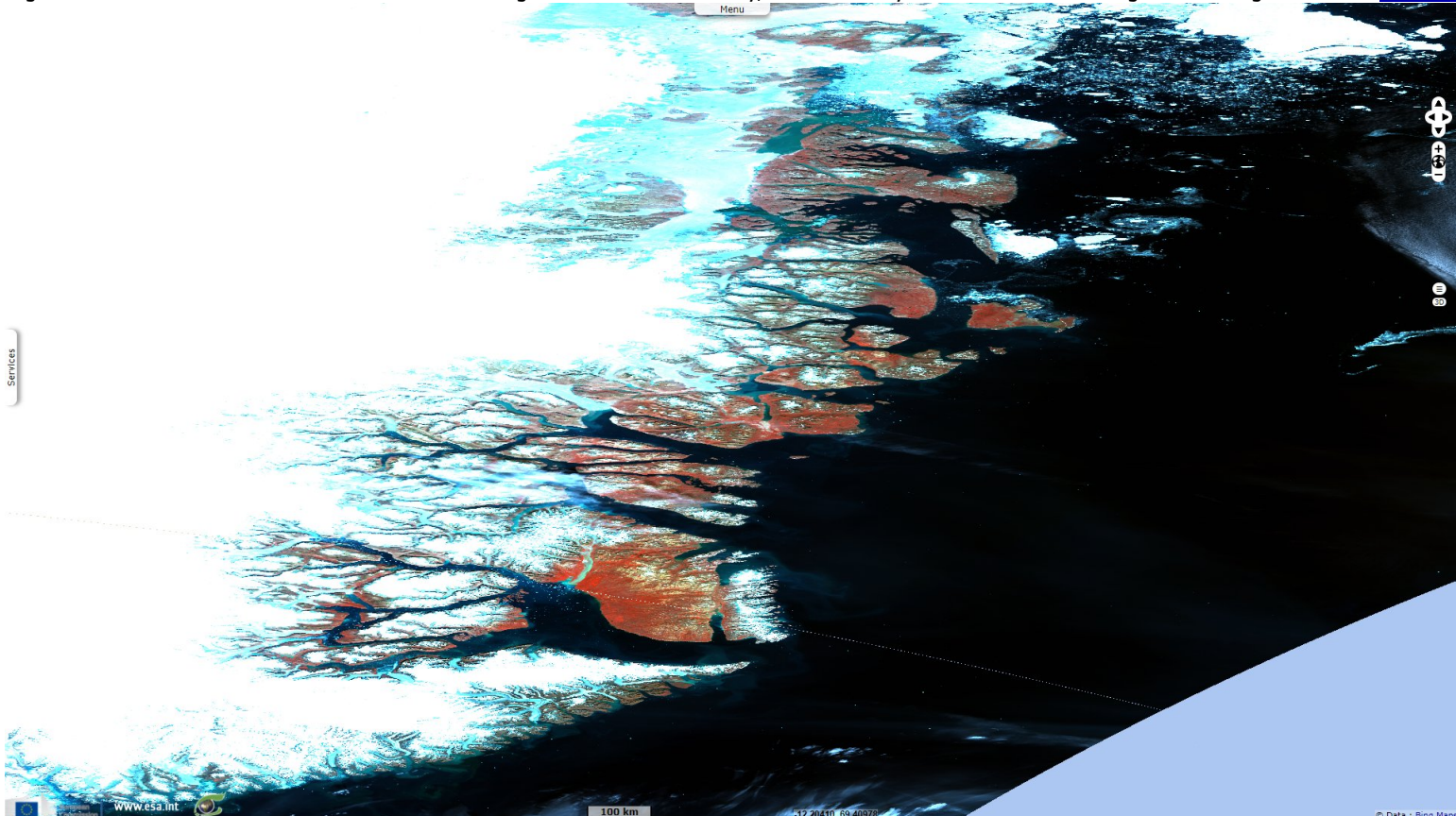


Fig. 2 - S3 OLCI (29.07.2021) - The ice sheet covering the vast Arctic territory, has melted by twice its normal average rate during summer. [2D view](#)



The Danish Meteorological Institute reported temperatures over 20°C, over twice the normal average summer temperature, in northern Greenland.

Fig. 3 - S3 OLCI (30.07.2021) - Nerlerit Inaat airport in the northeast of the territory recorded 23.4°C on 29 July, the highest recorded there. [3D view](#)

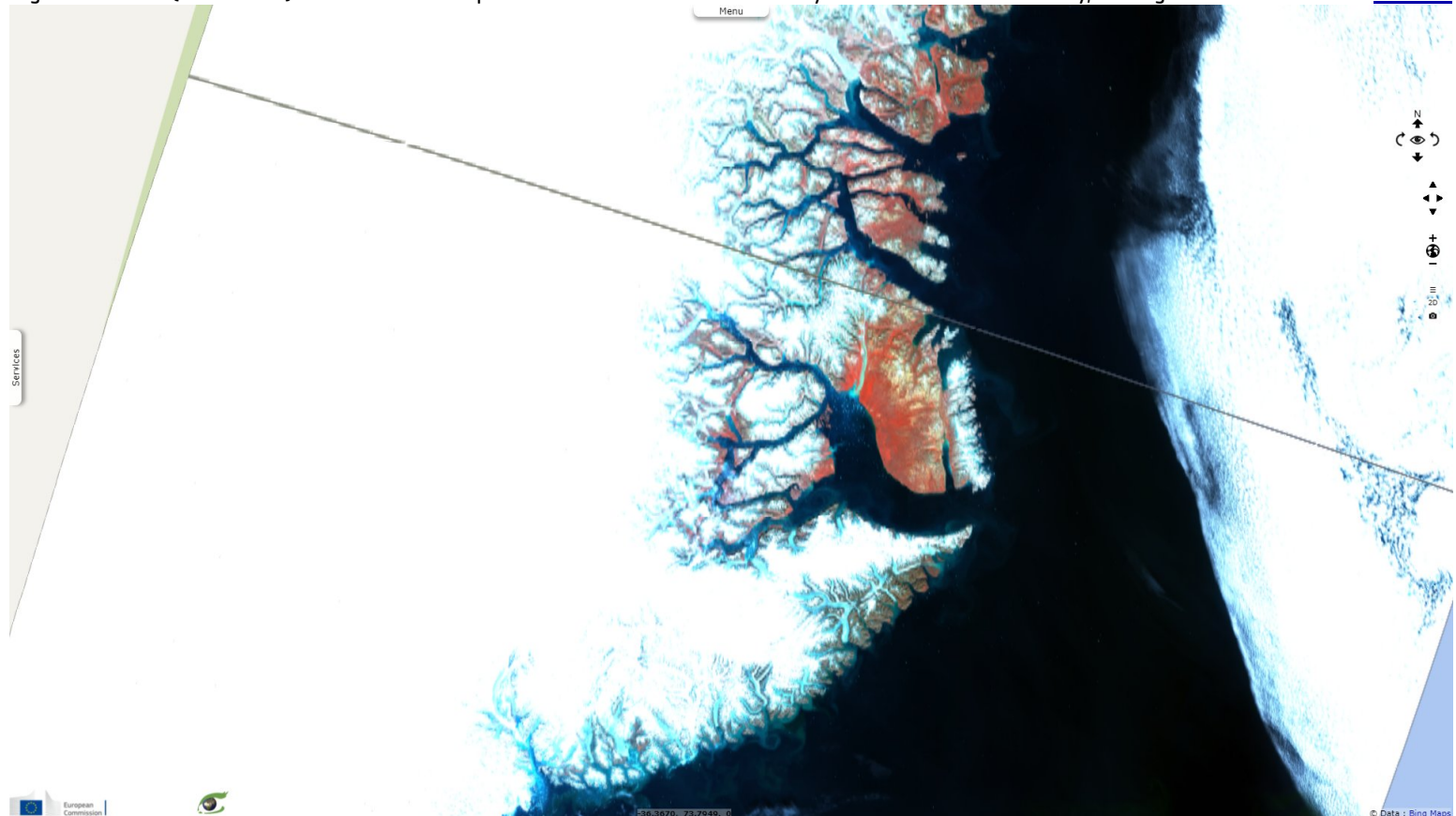
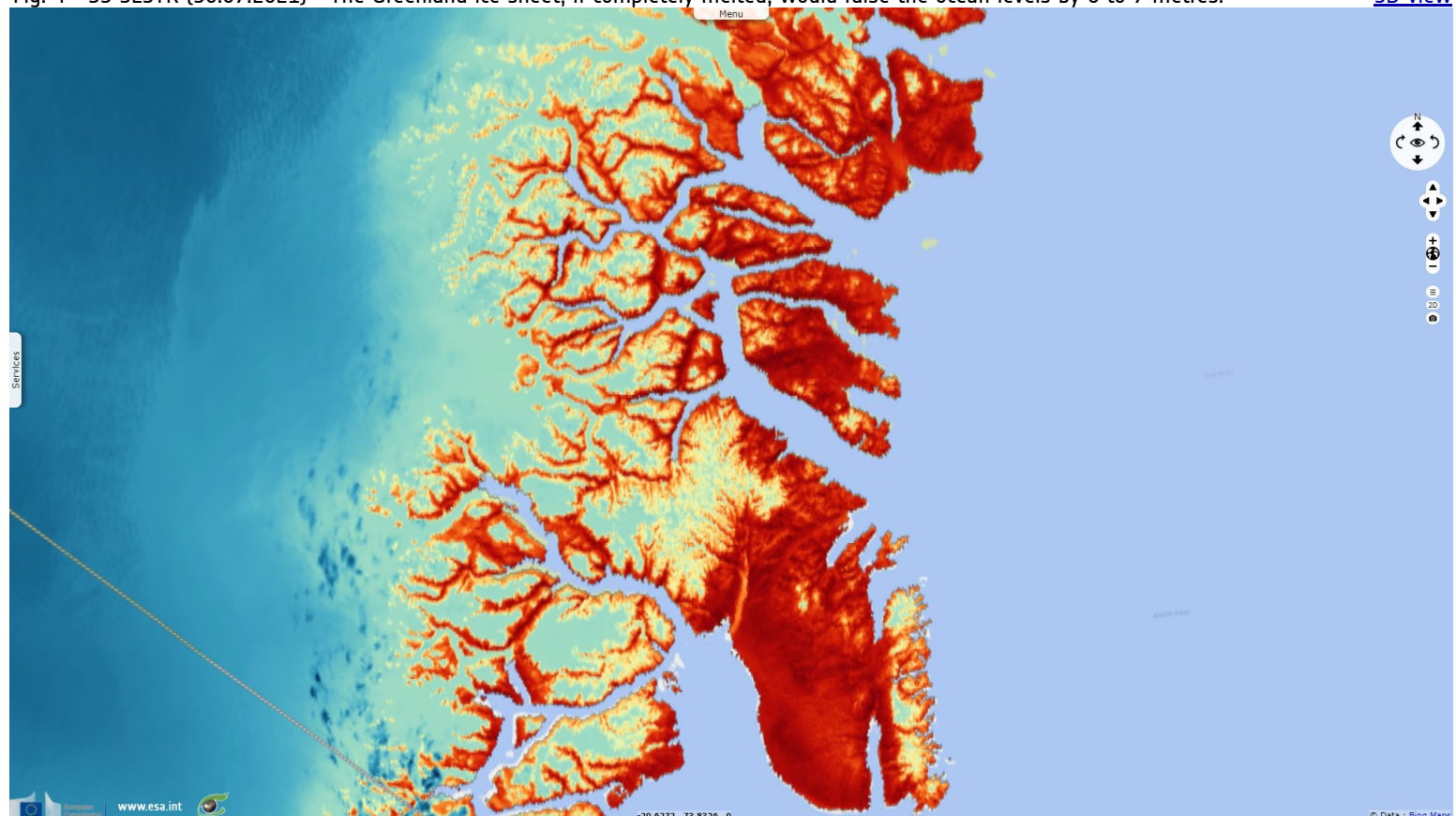














Fig. 4 - S3 SLSTR (30.07.2021) - The Greenland ice sheet, if completely melted, would raise the ocean levels by 6 to 7 metres. [3D view](#)



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