Sentinel Vision
SED-1237
20 February 2023

2D Layerstack

Sentinel-3 satellites follow Cyclone Freddy from Oceania to Africa

Sentinel-3 SLSTR RBT acquired on **06 February 2023** from 13:42:47 to 14:44:36 UTC
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Sentinel-3 SLSTR RBT acquired on **22 February 2023** from 19:29:37 to 19:32:37 UTC

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Fig. 1 - S3 (07->21.02.2023) - Aggregation of day acquisitions of cyclone Freddy made by both Sentinel-3 SLSTR instruments. 2D view 2D animation

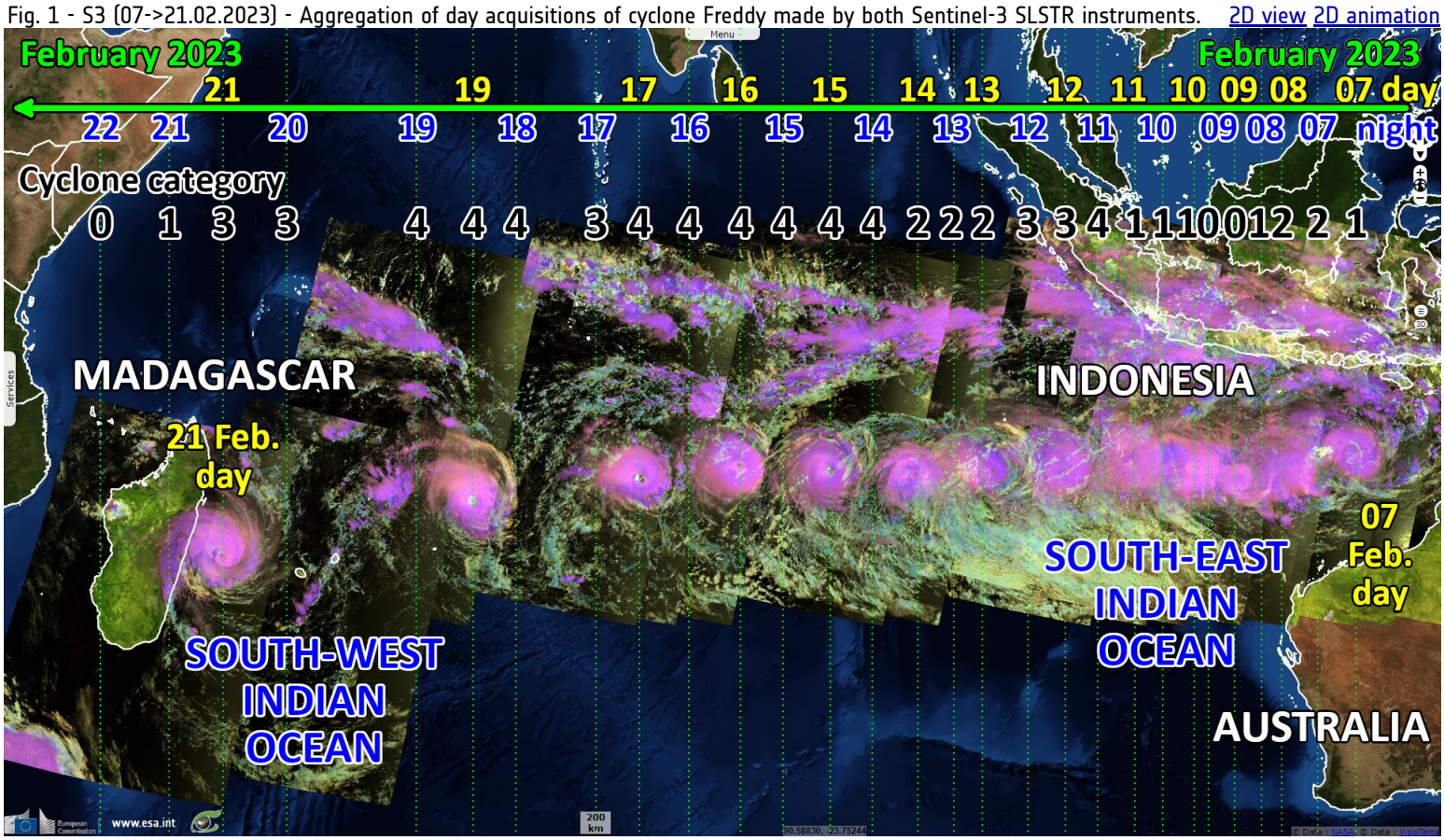
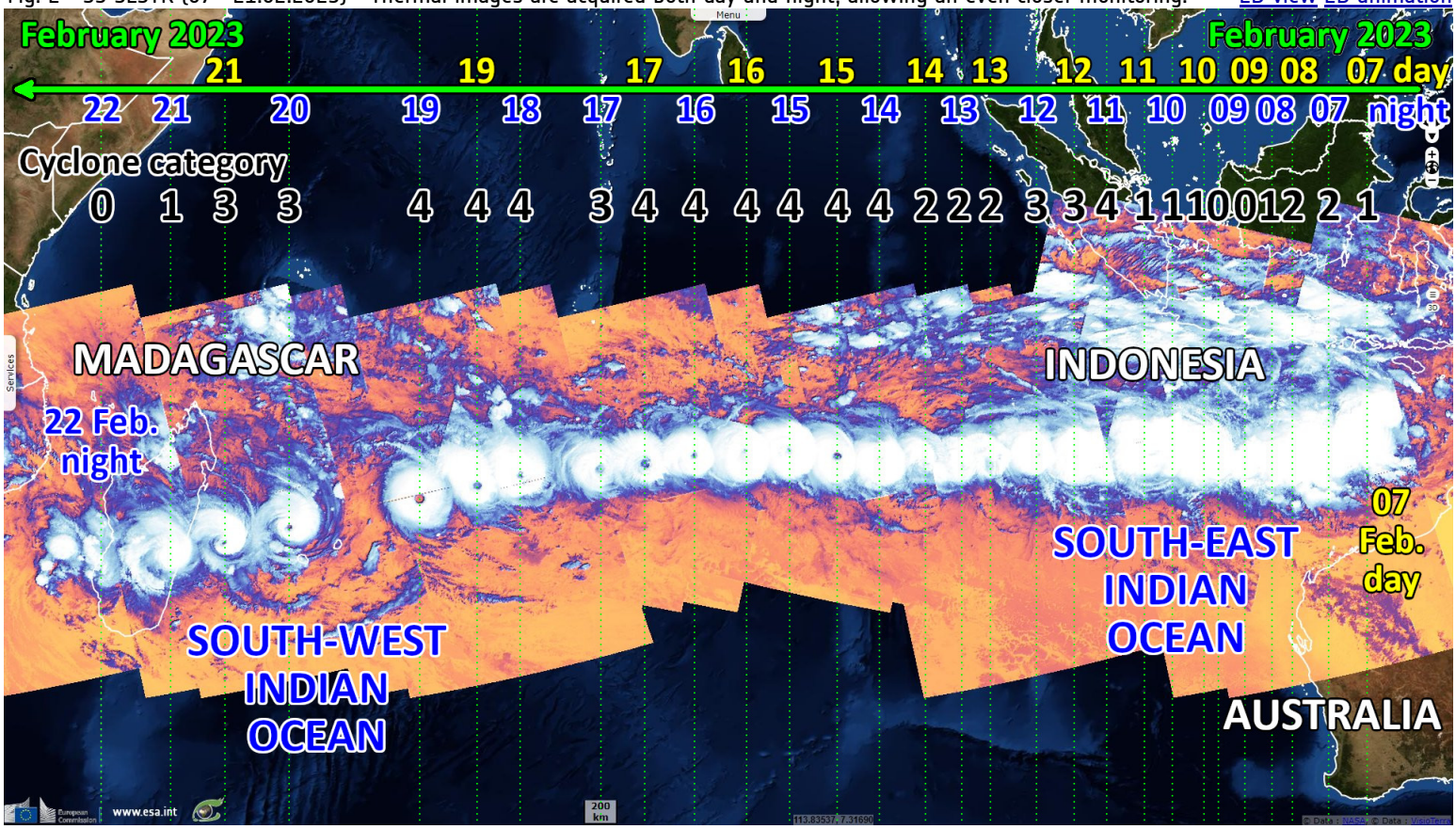
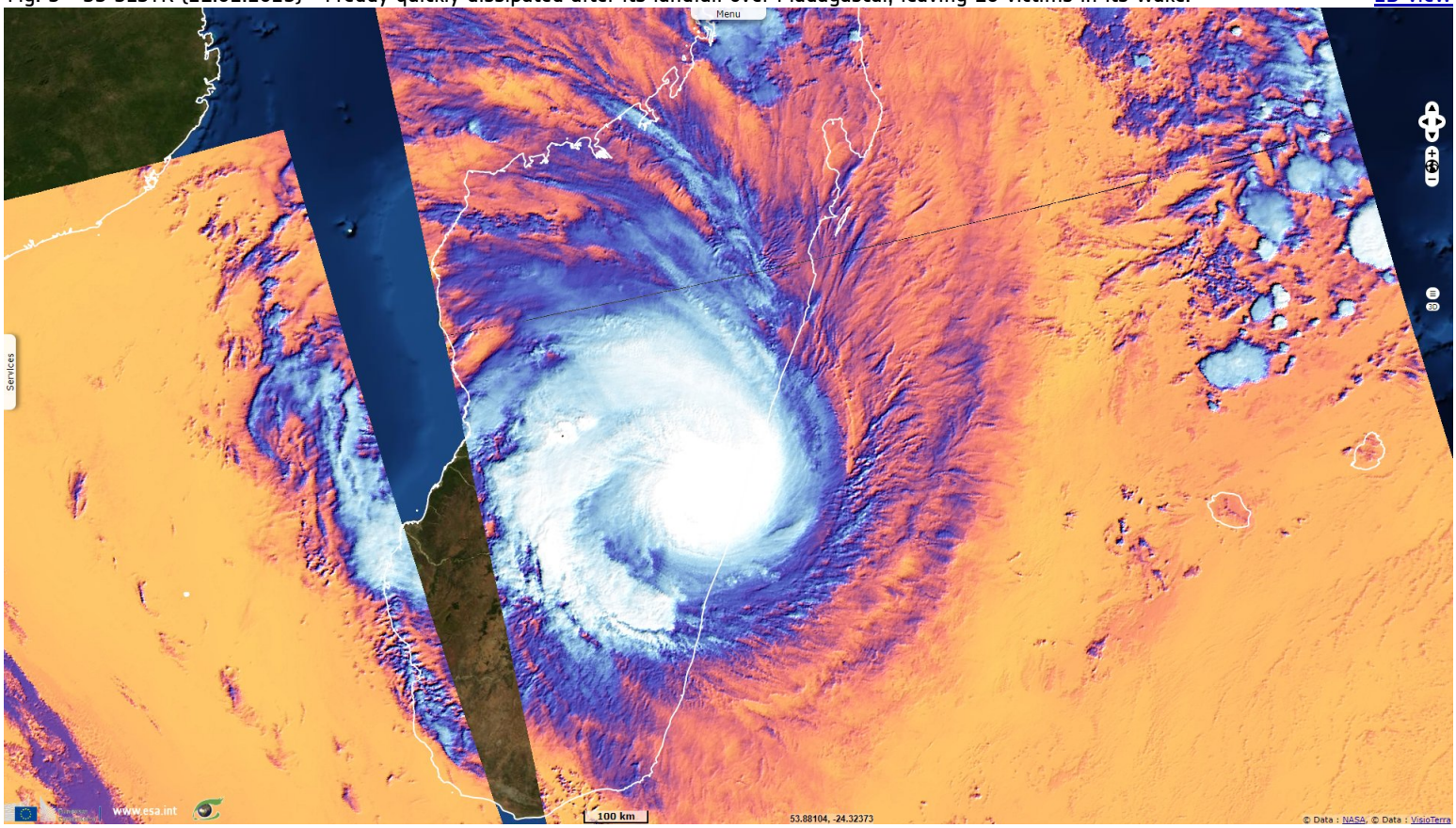


Fig. 2 - S3 SLSTR (07->21.02.2023) - Thermal images are acquired both day and night, allowing an even closer monitoring. 2D view 2D animation



Freddy was the first system in over 20 years to traverse the entirety of the southern Indian Ocean from east to west. It is the only known tropical cyclone to achieve four separate rapid intensification cycles, reaching 270 km/h (category 5) at peak strength. Cyclone Freddy holds the record for the all-time highest accumulated cyclone energy of a tropical cyclone in the Southern hemisphere.

Fig. 3 - S3 SLSTR (21.02.2023) - Freddy quickly dissipated after its landfall over Madagascar, leaving 16 victims in its wake. 2D view



On 21 February, Tropical Cyclone Freddy made landfall as a category 3 cyclone on the southeastern coasts of Madagascar. The cyclone hit four of the six provinces in the country. More than ten million residents have been exposed to the cyclone's maximum intensity.

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