Story Title:

What are medicanes?
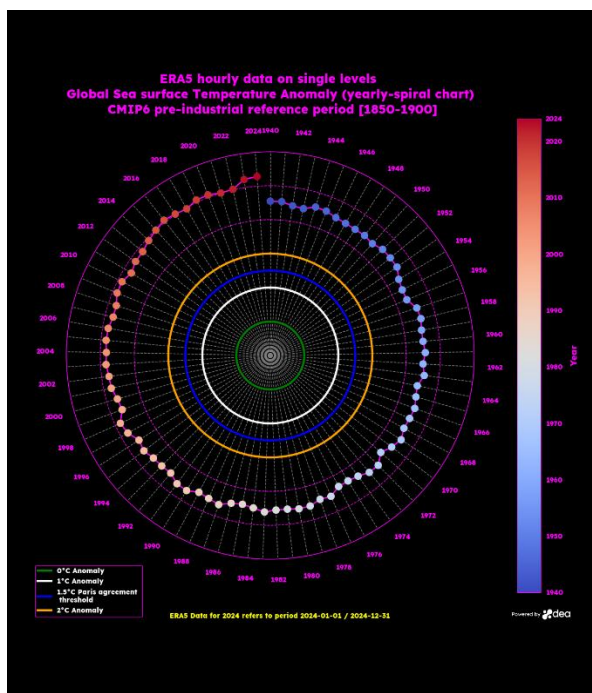
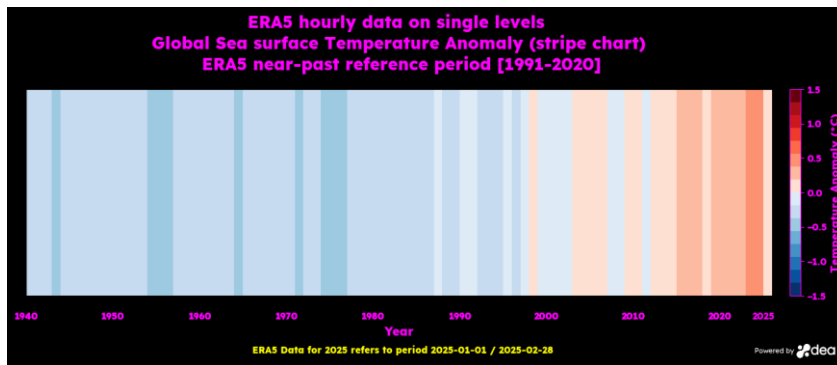**Description:**

Hurricanes on Mediterranean Sea

Slide 1

Title:

Mediterranean Tropical-Like Cyclones and Rising Sea Surface Temperature

Text

The long-term Sea Surface Temperature (SST) increase associated with climate change is identified by comparing detrended and original anomalies. Detrending removes the effect of the intensification of SST anomaly over time, revealing that no significant anomalies generally emerge in the early stages of the Tropical-Like Cyclones lifetimes. Conversely, winter events exhibit early-stage positive SST anomalies. Also, high SST values were observed during the intensification of the most intense cyclones. **A cold SST anomaly is left after the passage of the cyclones, due to the intense sea surface fluxes extracting heat from the sea.**
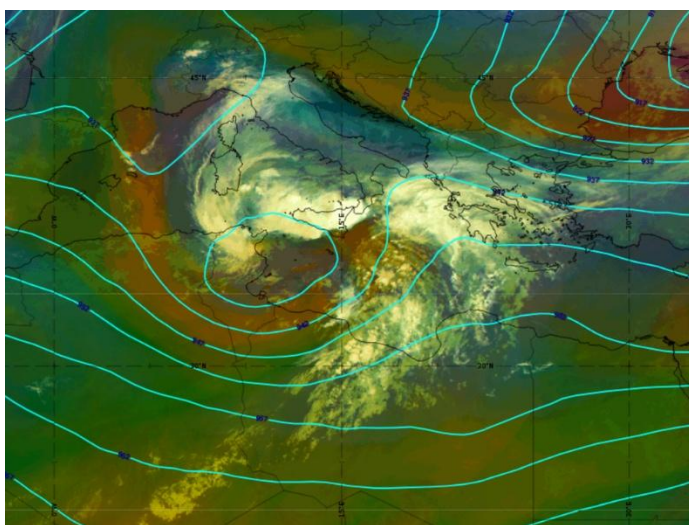
Slide 2

Title:

Apollo, 23 October - 2 November 2021

Text

Between 23 October and 2 November 2021, **a series of upper-level lows caused disturbances (including a Medicane), in the western Mediterranean/northern Africa area, bringing torrential rainfall to the adjacent countries, in particular Algeria, Tunisia and southern Italy**.

Southern Italy was the most severely affected by catastrophic rain, in particular Sicily, which was hit three times in one week — 24, 26 and 28-29 October (after experiencing record temperatures of 50°C this summer). The Sicilian meteorological agency, Servizio Informativo Agrometeorologico Siciliano, reported 312.2mm of rain fell in 24 hours to 25 October at a weather station at Linguaglossa, while the station at Lentini recorded 279.8mm during the same period.

Slide 3

Title:

Another look from Copernicus

Text

https://www.youtube.com/embed/1XOd2IPGt4A?showinfo=0

On the map: **Apollo captured also by Copernicus Sentinel-3 on October 21 2021**, in a false colour image.

Slide 4

Title:

Apollo at dawn

Text

Apollo: satellite images at dawn

Background video: -

https://www.youtube.com/embed/Zct8WJ8W-Oc?autoplay=1&loop=0&controls=1&modestbranding=1&showinfo=0&mute=0&autopause=0&rel=0&playlist=Zct8WJ8W-Oc