

Record snowfalls this year in Sierra Nevada range, California, USA

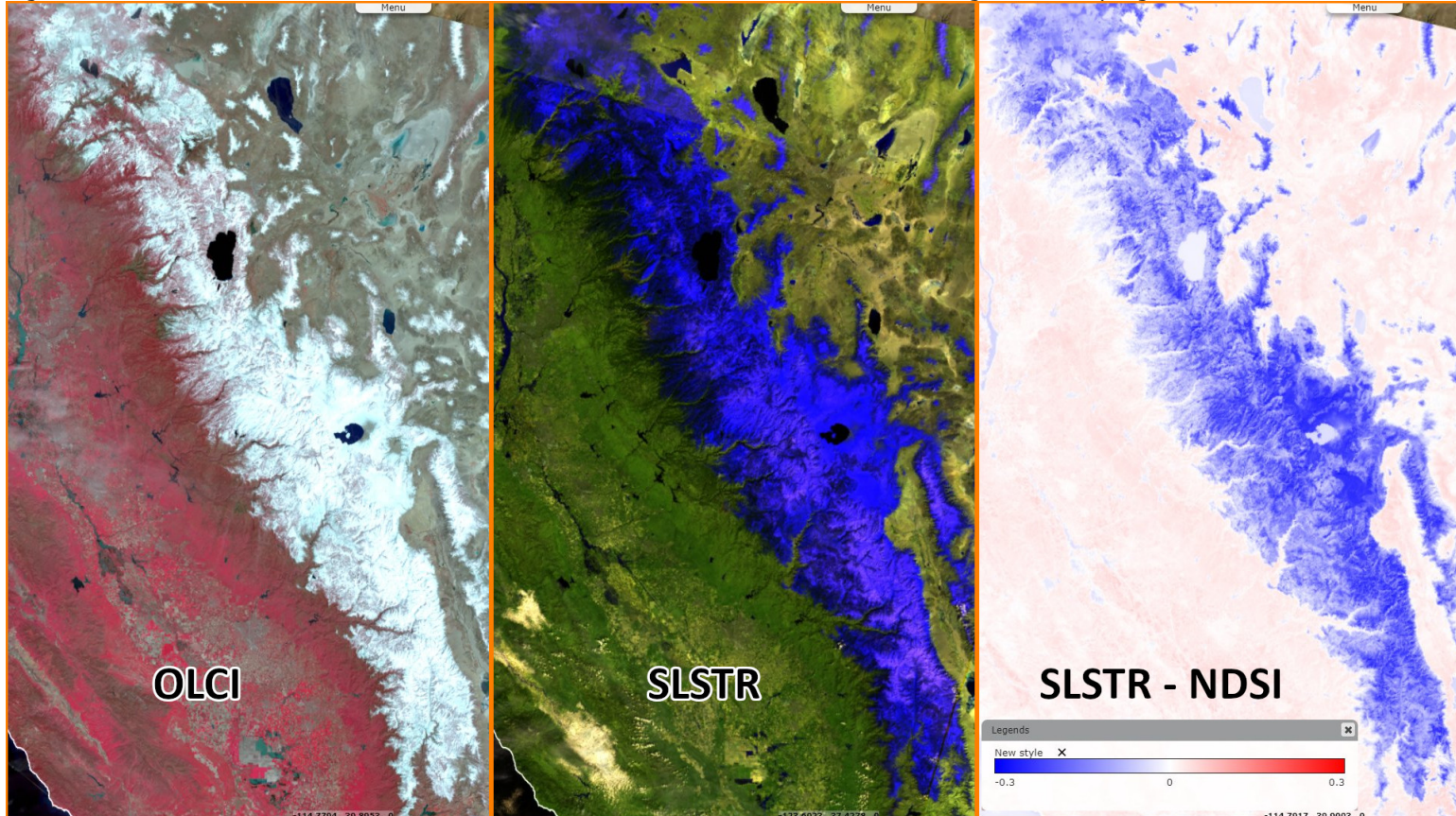
Sentinel-2 MSI acquired on 17 March 2023 at 18:41:11 UTC
Sentinel-1 CSAR IW acquired on 21 March 2023 at 01:51:30 UTC
Sentinel-1 CSAR IW acquired on 26 March 2023 at 01:59:40 UTC

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Sentinel-3 OLCI FR & SLSTR RBT acquired on 27 March 2023 at 18:18:42 UTC

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Fig. 1 - S3 OLCI & SLSTR (17 & 27.03.2023) - The mountains of California have seen record-breaking snow this spring. [2D view](#) [2D view](#) [2D view](#)



Entire towns and Yosemite national park have shut down. The California governor has declared a state of emergency in 13 counties due to the unusual precipitation.

Fig. 2 - S2 (17.03.2023) - Several records have been beaten in Yosemite national park.

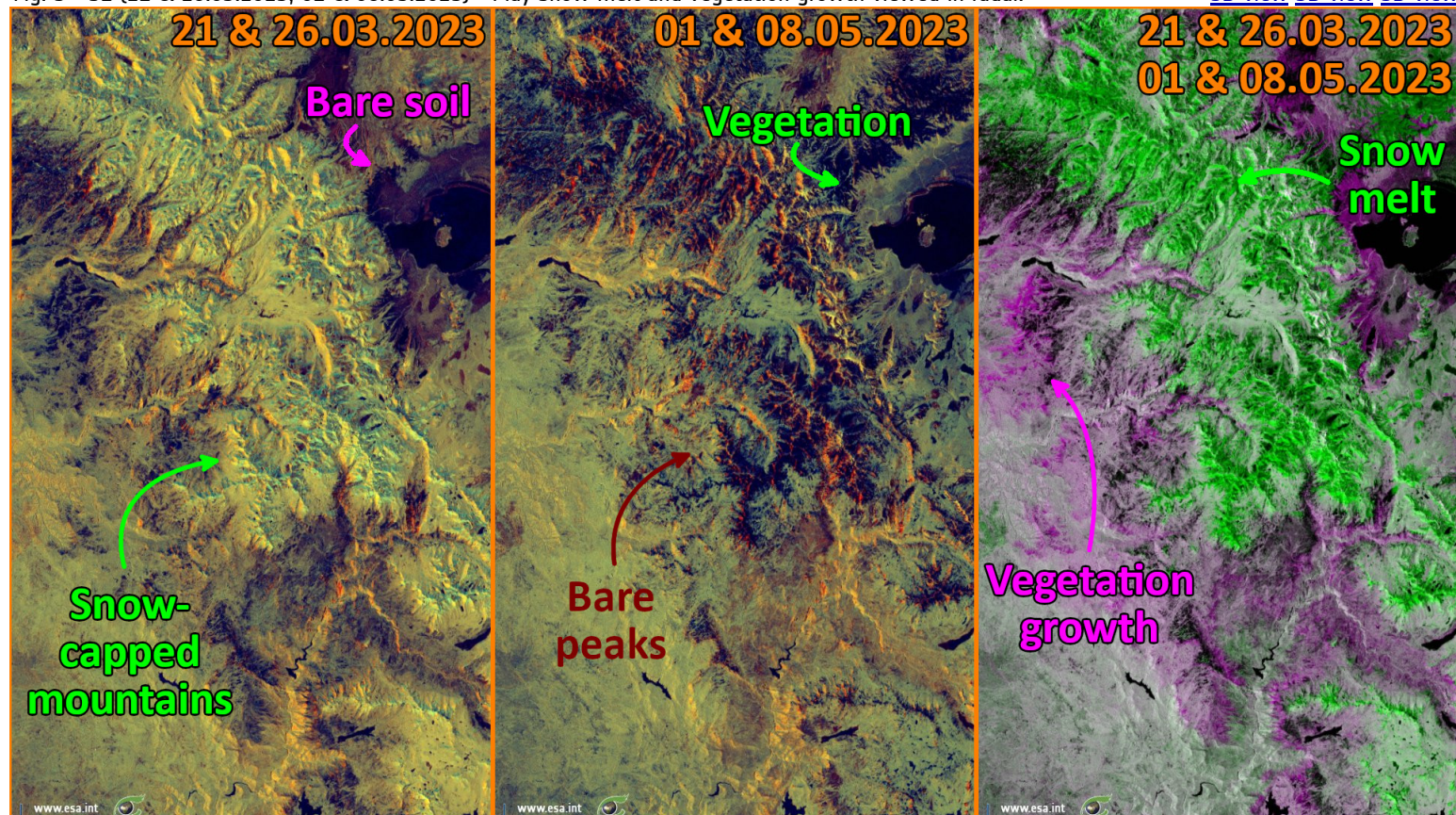
[2D view](#)















The record average snow depth since 1930 happened this year with 4.49m measured in the valley of Tuolumne Meadows as against 4.27m in 1983.

Fig. 3 - S1 (21 & 26.03.2023; 01 & 08.05.2023) - May snow melt and vegetation growth viewed in radar.

[3D view](#) [3D view](#) [3D view](#)



In April, a daily snowfall record exceeding with 1m has beaten the 1969 record of 90cm. Temperatures of -27°C have been hit the same month. The total new snow this season reached 4.3m, three times the historical average of 1.4m.

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