Sentinel Vision
SED-381
14 January 2019

2D Layerstack

Nazca canyons

Sentinel-2 MSI acquired on **19 November 2018** at 15:07:11 UTC
Sentinel-1 CSAR IW acquired on **08 January 2019** from 10:22:58 to 10:23:23 UTC
Sentinel-1 CSAR IW acquired on **13 January 2019** at 10:31:18 UTC
Sentinel-1 CSAR IW acquired on **14 January 2019** from 23:23:44 to 23:24:09 UTC

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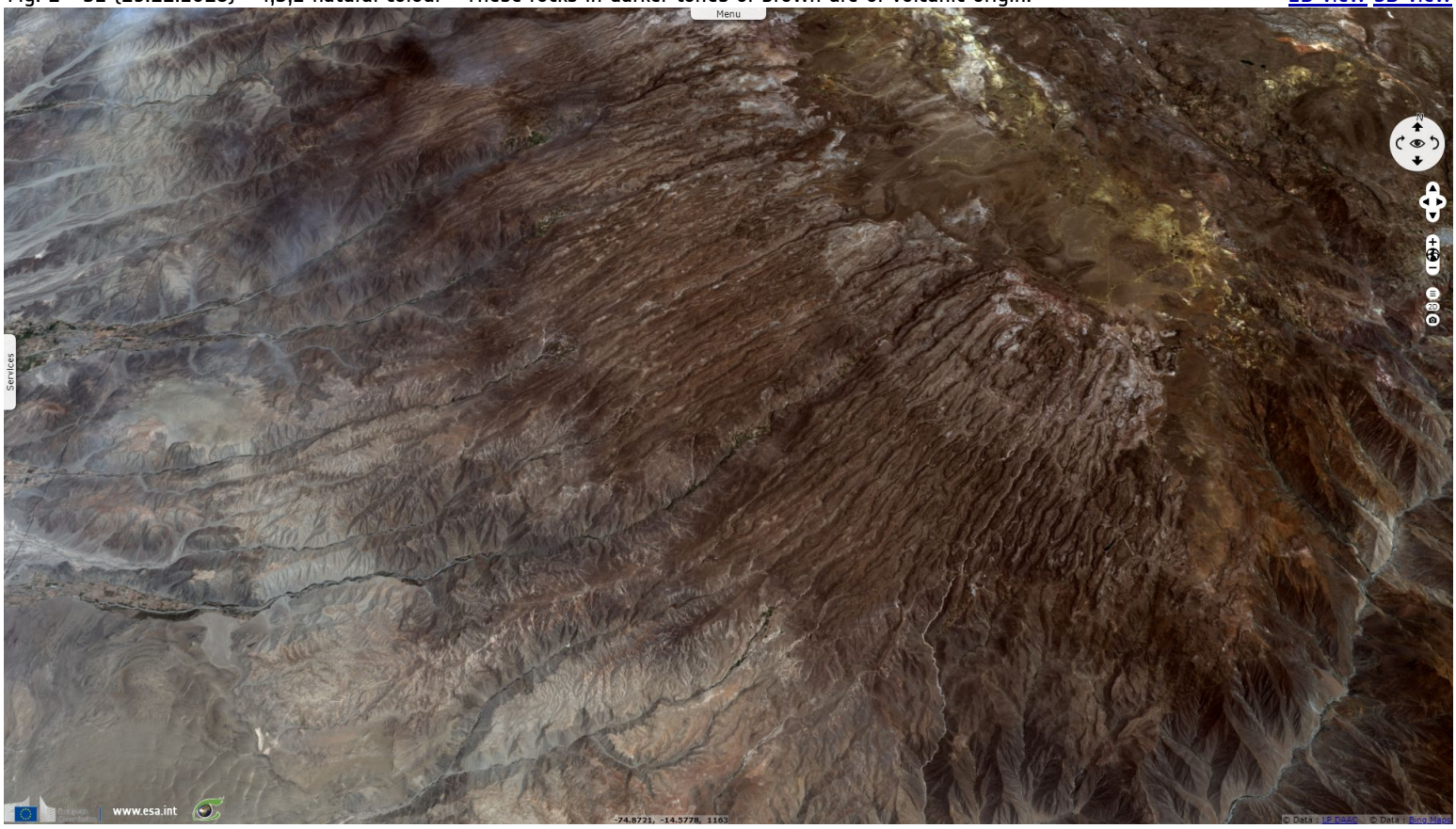
Keyword(s): Hydrology, canyon, valley, erosion, river, coastal, geology, Peru, Andes Cordillera, Pacific Ring of Fire

Fig. 1 - S2 (19.11.2018) - 4,3,2 natural colour - These rocks in darker tones of brown are of volcanic origin. 2D view 3D view



Nazca plate subducts under S. America at 8cm/yr. Today Nazca region is sparred by the active volcanoes located east, in the Central Volcanic Zone.

Fig. 2 - S1 (09.01.2019) - vv,vh,vv colour composite - Ascending view in radar using a pixel-scale on-the-fly orthorectication. 3D view 2D view

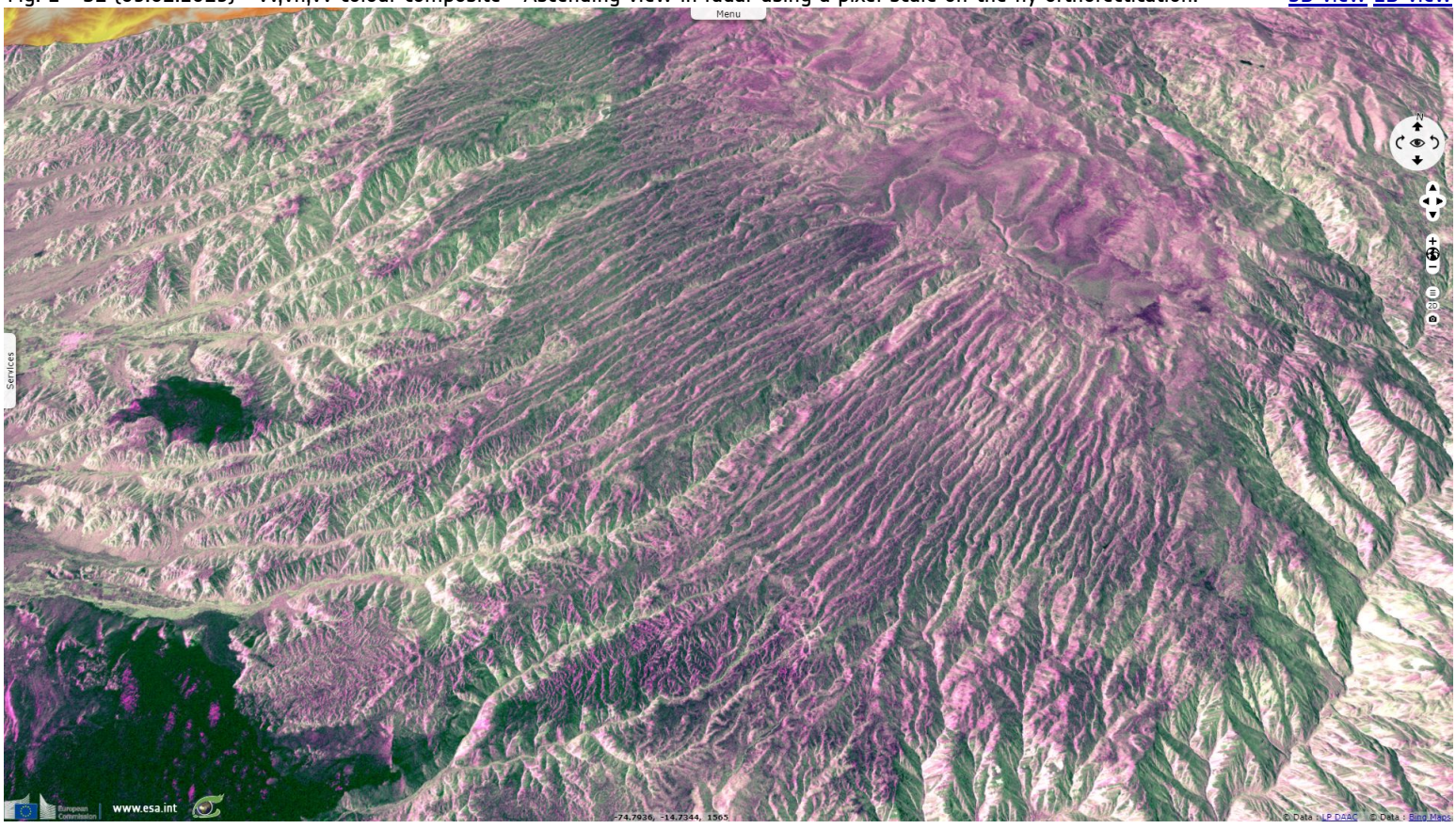


Fig. 3 - 11,8,2 colour composite - Canyons of Rio Aca & Rio Yuaca; notice vegetation of this arid area channels narrow in valleys. 3D view 2D view

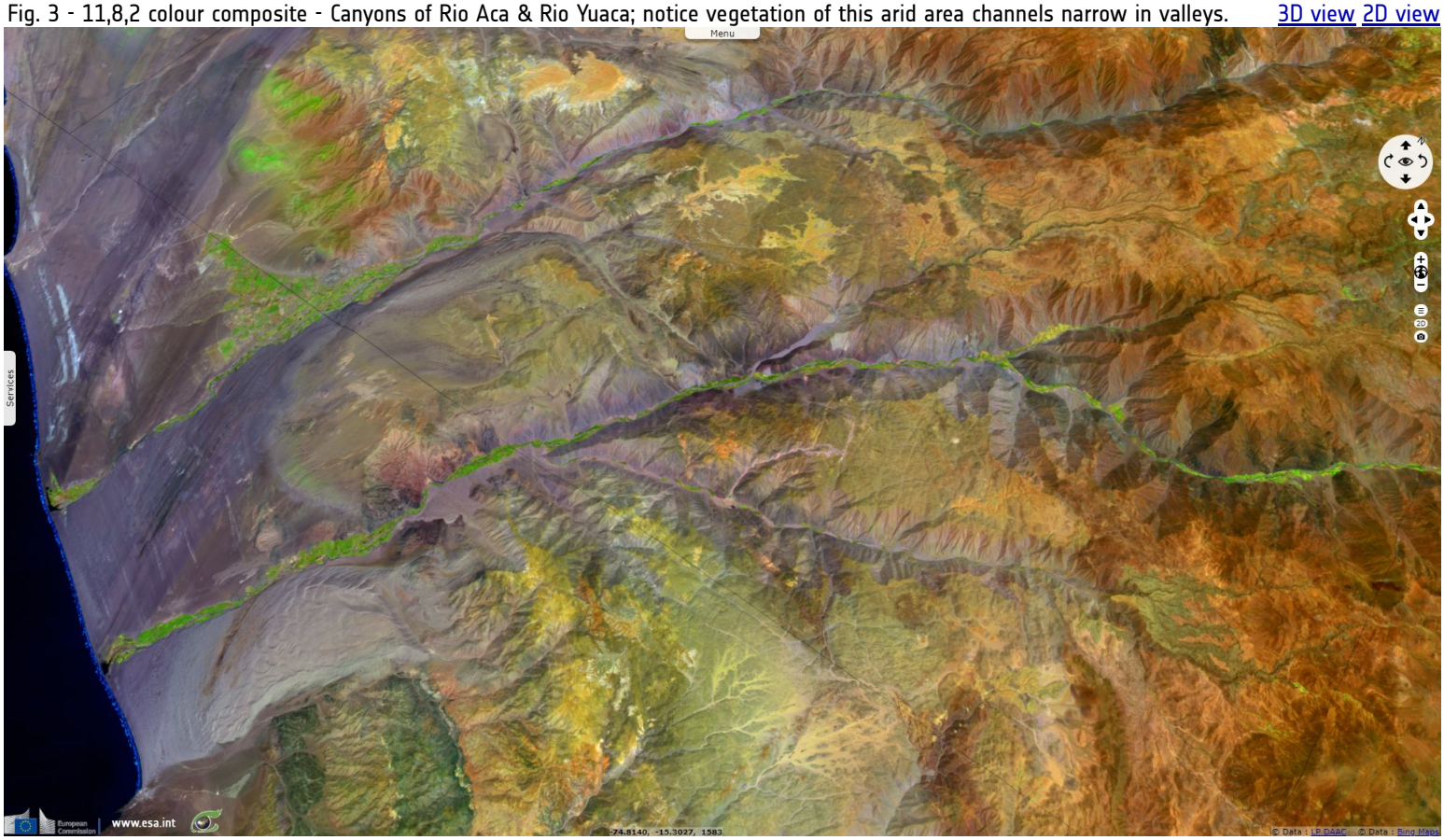
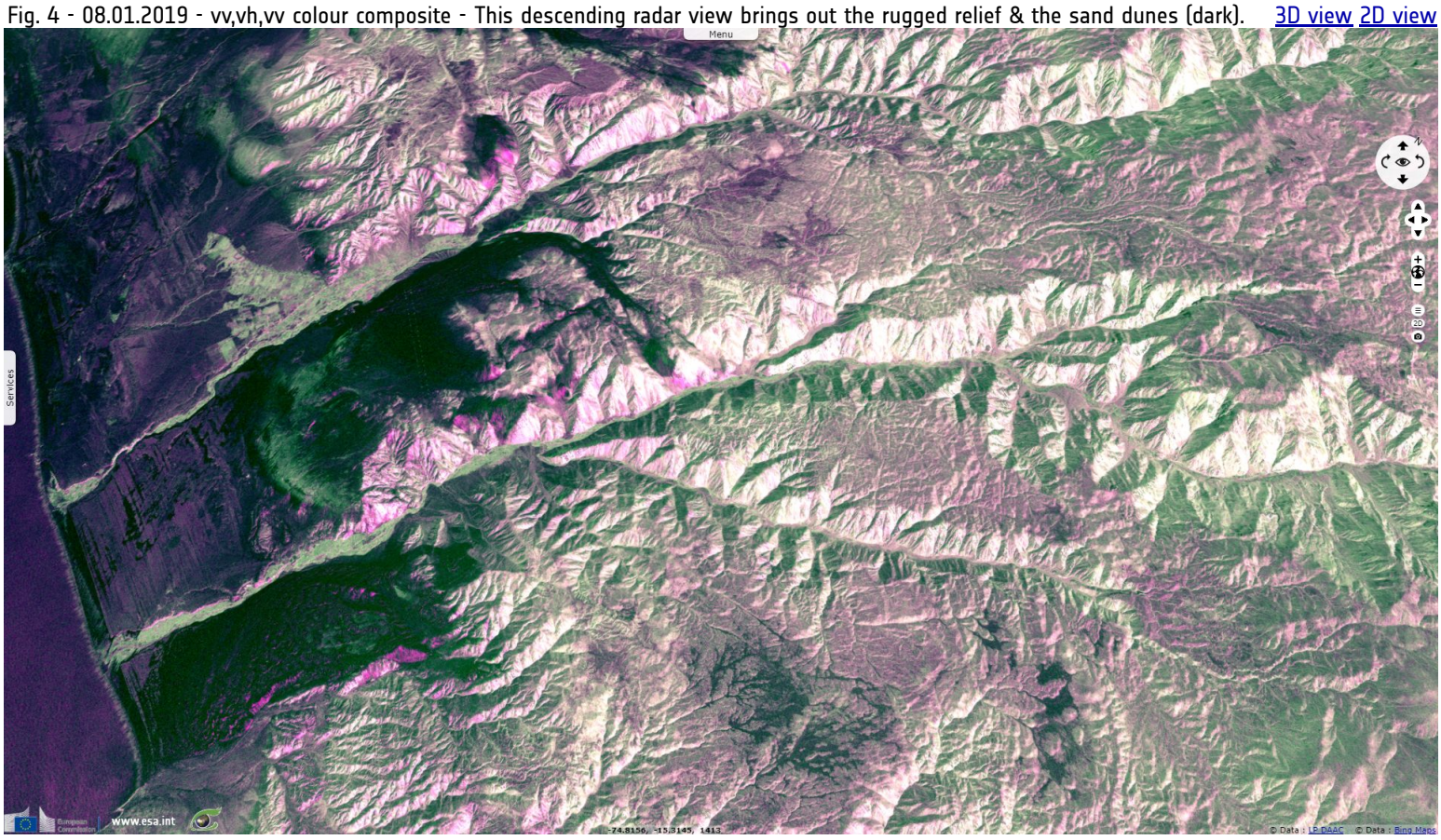


Fig. 4 - 08.01.2019 - vv,vh,vv colour composite - This descending radar view brings out the rugged relief & the sand dunes (dark). 3D view 2D view



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