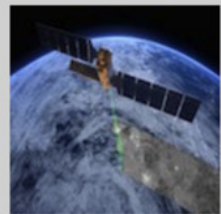


About Copernicus



Overview

Copernicus is the most ambitious Earth observation programme to date. It will provide accurate, timely and easily accessible information to improve the management of the environment,



Space Component

The success of Copernicus will be achieved largely through a well-engineered Space Component for the provision of Earth-observation data to feed into a range of services for monitoring the environment

ESA's Sentinel satellites



Overview

ESA is developing a new family of missions called Sentinels specifically for the operational needs of the Copernicus programme. Each Sentinel mission is based on a constellation of two satellites



S-1A S-2A S-3A

Info Legend

SENTINEL-1A

Start time: 29/05/2017 14:01:20

End time: 29/05/2017 14:02:37

Absolute orbit: 16796

Relative orbit: 99

Polarisation: DV

Tracking Acquisition Achievements 3D model Missi

S-1 S-2 S-3

IMU MSI Solar Array

Tracking Acquisition Achievements 3D model Missi

Fogo, Cape Verde

Radar images from the Sentinel-1A satellite are helping to monitor ground movements of the recently erupted Fogo volcano.

Located on Cape Verde's Fogo island, the volcano erupted on 23 November 2014 for the first time in 19 years and has been active ever since. Lava flows are threatening nearby villages, and local residents have been evacuated.

Radar scans from the Sentinel-1A satellite are being used to study the volcano. The image above - an 'interferogram' - is a combination of two radar images from 3 November 2014 and 27 November 2014, before and during the eruption.

Deformation on the ground causes changes in radar signals that appear as the rainbow-coloured patterns.

Map produced in the TIGER NET framework

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