



Как мы делаем это

Журналистика о науке

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Звуки животных



ЗВУКИ ЖИВОТНЫХ



Композитные материалы

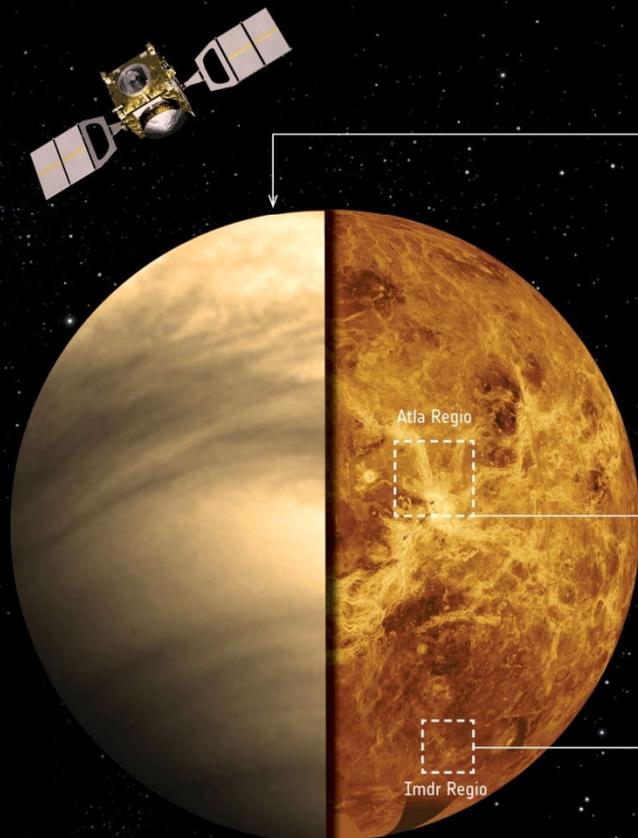


Вулканы на Венере



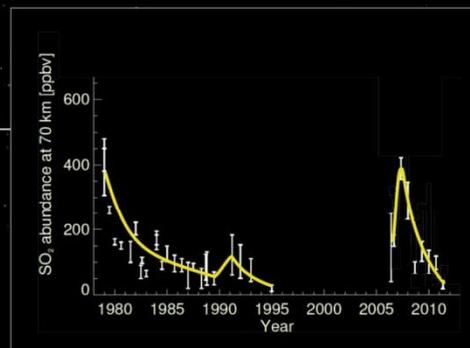
Вулканы на Венере

→ EVIDENCE FOR ACTIVE VOLCANOES ON VENUS



Left: False-colour image of Venus cloud tops (credits: ESA/MPS/DLR/IDA);
 right: Magellan radar map of Venus (credits: NASA/JPL)
 The cloud tops image is a local view over high southern latitudes
 whereas the radar image is a global view centred on the equator.

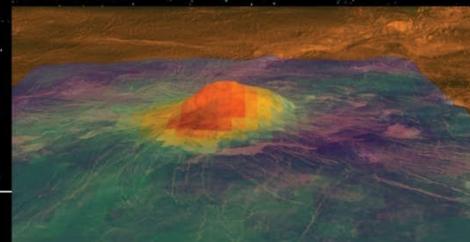
ATMOSPHERIC CHANGES



The rise and fall of sulphur dioxide (SO₂) in the upper atmosphere of Venus over the last 40 years, seen by NASA's Pioneer Venus and other spacecraft between 1978 and 1995, and ESA's Venus Express between 2006 and 2012. A possible explanation is the injection of SO₂ into the atmosphere by volcanic eruptions.

Credits: E. Marq et al (2012)

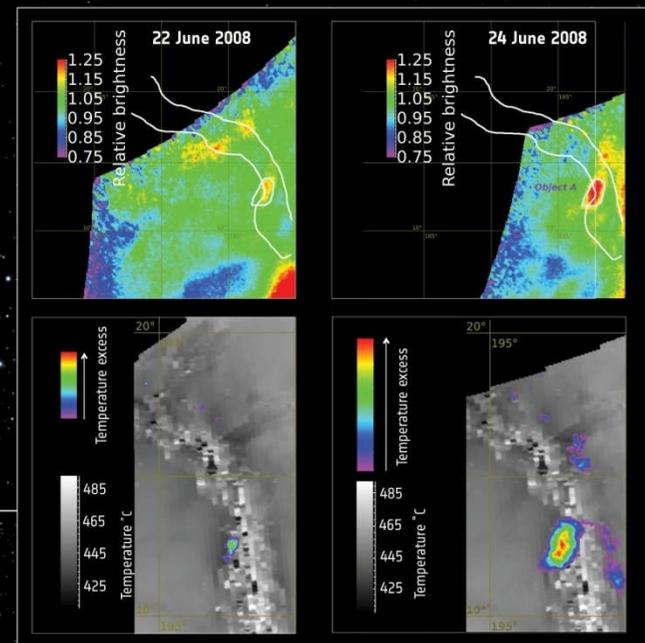
YOUNG LAVA



Venus Express found that the area around Idunn Mons in Imdr Regio was unusually dark compared with its surrounds, suggesting a different, younger, composition, pointing to lava flows within the last 2.5 million years. The map shows near-infrared emissivity; red-orange is high emissivity (darkest), purple is the lowest emissivity.

Credits: ESA/NASA/JPL/S. Smrekar et al (2010)

TRANSIENT HOT SPOTS



Four transient hotspots were detected by Venus Express in the Ganiki Chasma rift zone in Atla Regio (labelled Objects A–D in the radar map, right). Changes in relative brightness (top row) and temperature (bottom row) are shown for Object A. Some changes due to clouds are also visible in the top row. The bottom row shows the temperature excess compared with the average surface background temperature. Taking into account atmospheric effects, hotspot A is likely only 1 square km with a temperature of 830°C.

Credits: E. Shalygin et al (2015)



Самые низкие температуры





Бессонница

Жители северных морей





Жители северных морей

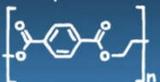
Технологии «Звёздных войн»

$YBa_2Cu_3O_7$

Nb_3Sn



Технологии «Звёздных Войн»



$$C = \epsilon \cdot \epsilon_0 \cdot S / d$$

$$\vec{F} = q\vec{E} + q\vec{v} \times \vec{B}$$

