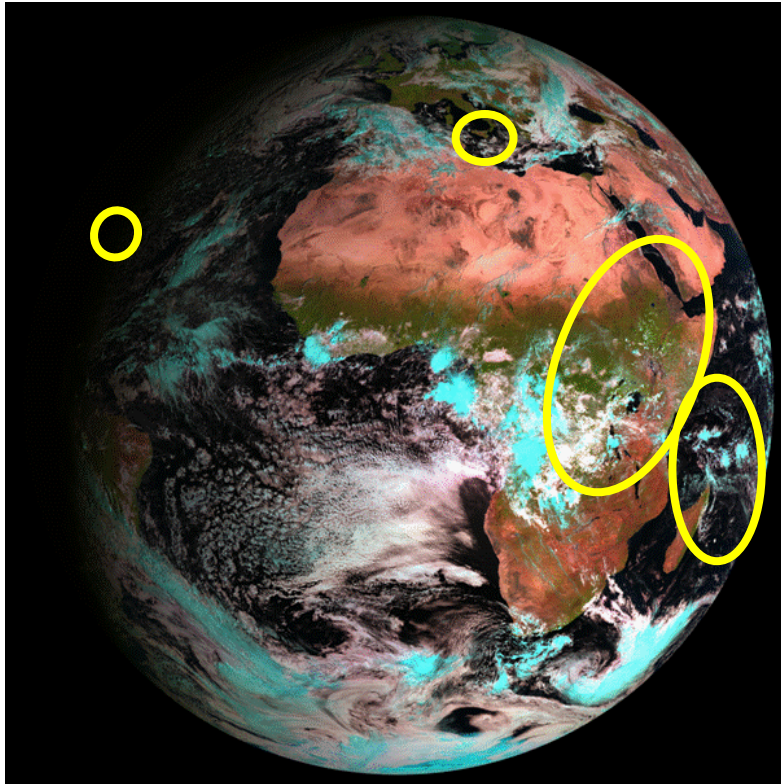


European Volcano Observatory Space Services

Funded in the FP7 2nd call Space with G.A. 242535 CP



Location map – *The Region of Interest (the METEOSAT full disk). Main focus is on the areas including volcanoes that have undergone at least one eruptive episode, or a major unrest in the last 20 years (in yellow) in Europe, Africa and the Caribbean*

Focussed on the higher end of volcano dynamics (**from sustained unrest to eruption**), scaled on major crises experienced 1995-2010 at Soufriere Hills, 2002 at Nyiragongo, 2003 at Karthala, 2007 at Piton de la Fournaise

EVOSS was conceived to act in **Supra-regional operations theatres**, encompassing spatially scattered, long lasting crises (months to years);

In EVOSS, **very-high temporal resolution is given priority** over high spatial resolution, a methodological breakthrough in real-time monitoring operations

Sustainability of data provision has priority: the cost of space-borne data is increasingly non-compatible with the real duration of major unrest cycles, spanning from months to years, or even decades at explosive volcanoes.

Development of 'intelligent' business models are expected to assist in **designing sustainability**

EVOSS builds on the achievements of ESA's Data User Element project **GlobVolcano**, due for completion in 2010

Most recent eruptions in the Region of Interest

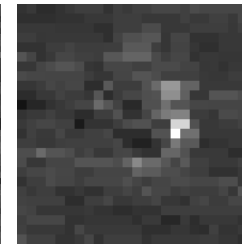
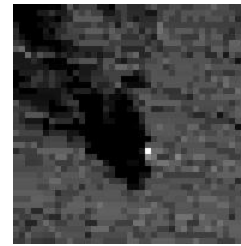
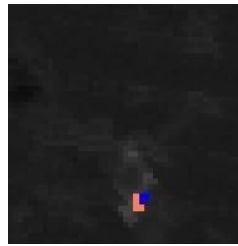


France	Piton de la Fournaise (2010), Mt. Pelée (1929), Soufrière de Guadeloupe (1976)
Greece	Santorini (1950), Nysiros (1888)
Italy	Etna (2008), Stromboli (2007), Vesuvius (1944), Pantelleria (1891), Vulcano (1890), Phlegrean Fields (1538), Ischia (1302), Lipari (580)
Portugal	Capelinhos (1957), San Jorge (1907), Sete Cidades (1880), Terceira (1999-2000 and 1867), Pico (1720), Furnas (1630), Agua de Pau (1563)
Spain	Lanzarote (1824), Teide (1909), Cumbre Vieja (1971)
UK	Michael (ongoing), Soufriere Hills (ongoing), Tristan de Cunha (1962)

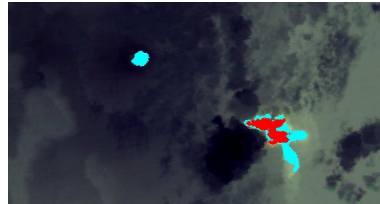
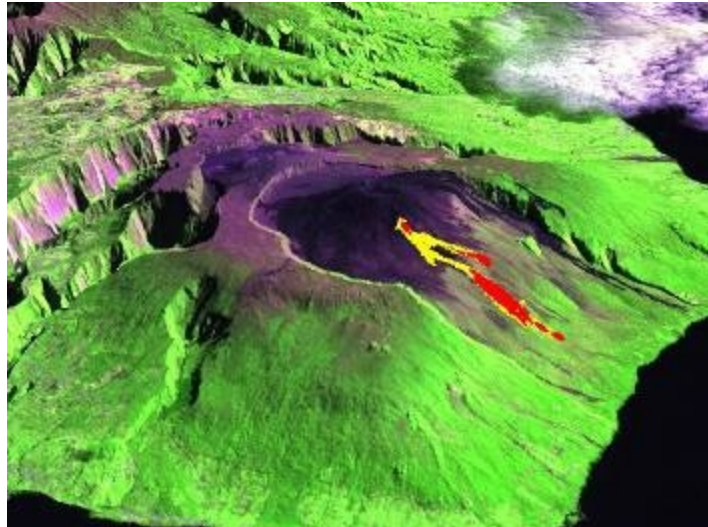
Cameroon	Mt. Cameroon (2000)
Comoros	Karthala (2007)
Congo	Nyamuragira (2006), Nyiragongo (ongoing), Visoke (1951)
Djibouti	Ardoukôba (1978)
Equatorial Guinea	Santa Isabel (1923)
Eritrea	Dubbi (1861)
Ethiopia	Alayta (1915), Dabbahu (2005), Dalaffilla (2008), Dallol (1926), Dama Ali (1631), Fentale (1820), Kone (1820), Manda Hararo (2007), Erta' Ale (ongoing), Manda-Inakir (1928)
Kenya	South Island (1888), The Barrier (1921),
Tanzania	Kieyo (1810), Mount Meru (1910), Ol Doinyo Lengai (ongoing)
Yemen	Jebel at Tair (2008), Jebel Zubair (1824)



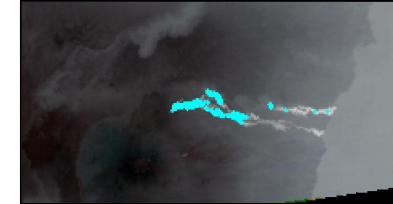
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**Soufriere Hills,
Montserrat**
EVOSS leader test-site for
explosive volcanism



Active flow 2007



Cooling flow 2005

20070330 19:15	20070330 19:30	20070330 20:00	20070330 20:15	20070330 20:30	20070330 21:00
Er =0 m ³ /s	Er =0 m ³ /s	Er =1.18 m /s	Er =1.91 m /s	Er =2.63 m /s	Er =3.31 m /s

Piton de la Fournaise, Réunion Island
EVOSS leader test-site for effusive volcanism

Quantitative onset of the 2007 flow observed with geostationary MSG-2 (SEVIRI)



The Partnership

Partners

Institut de Physique du Globe de Paris	(coord.)	France
Belgisch Instituut voor Ruimte-Aëronomie		Belgium
Booz & Co. Italia		Italy
NERC – British Geological Survey		United Kingdom
Carlo Gavazzi Space		Italy
Deutsches Zentrum für Luft und Raumfahrt		Germany
Koninklijk Nederlands Meteorologisch Instituut		The Netherlands
IES Consulting		Italy
Science [&] Technology		The Netherlands
Tele-Rilevamento Europa		Italy
Terrasphere		The Netherlands
Université Libre de Bruxelles		Belgium
Centro Ricerche Progetto San Marco – Università Roma I		Italy

End-Users

- Volcanic Ash Advisory Centre (VAAC), Toulouse, France
- Centre d'Etude et Recherche de Djibouti (CERD), Arta, Djibouti
- Geological Survey of Tanzania (GST), Dodoma, Tanzania
- Goma Volcano Observatory (OVG/CRSN), Goma, Congo
- Karthala Volcano Observatory (OVK/CNDRS), Moroni, Comoros
- Addis Ababa Science Faculty (Geophysical Observatory), Ethiopia
- Seismic Research Centre, University of the West Indies
- Montserrat Volcano Observatory

