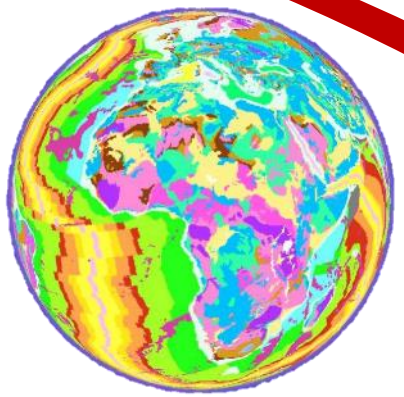
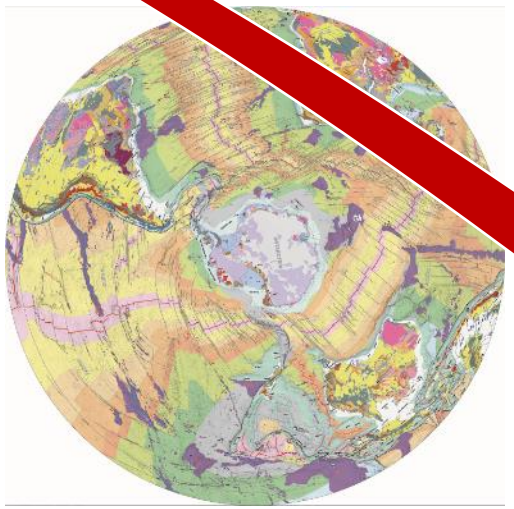
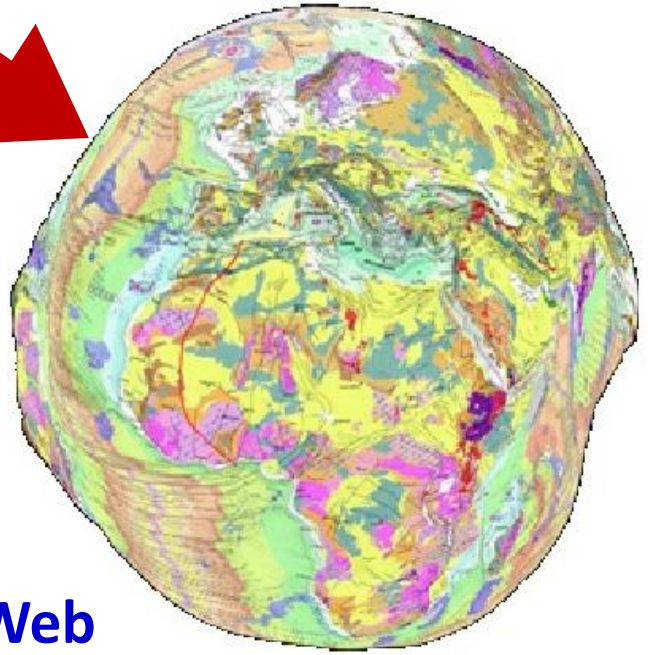
European Geosciences Union
GIFT – Geosciences Information For Teachers

# VtWeb from VisioTerra for CGMW

*At booth 29*
*Exhibition Hall*







United Nations
Educational, Scientific and
Cultural Organization

IUGS
IUGG

## THE COMMISSION FOR THE GEOLOGICAL MAP OF THE WORLD

http://visioterra.net/VtWeb

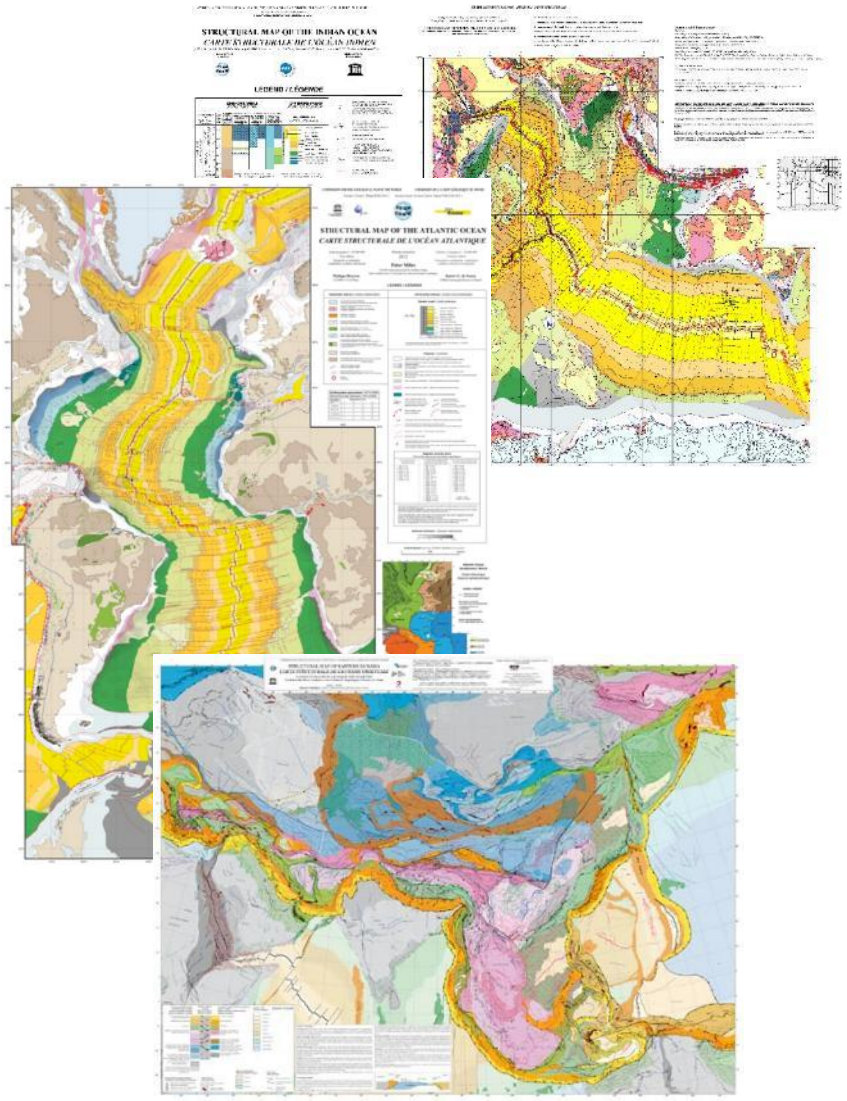
The Commission for the Geological Map of the World (CGMW) is responsible for coordinating, designing and publishing solid Earth Sciences maps of continents, oceans, major regions of the Earth and for developing cartography in the solid Earth Sciences.
Its aim is to facilitate the circulation of the scientific information in order to ensure the best quality information provided in the syntheses.

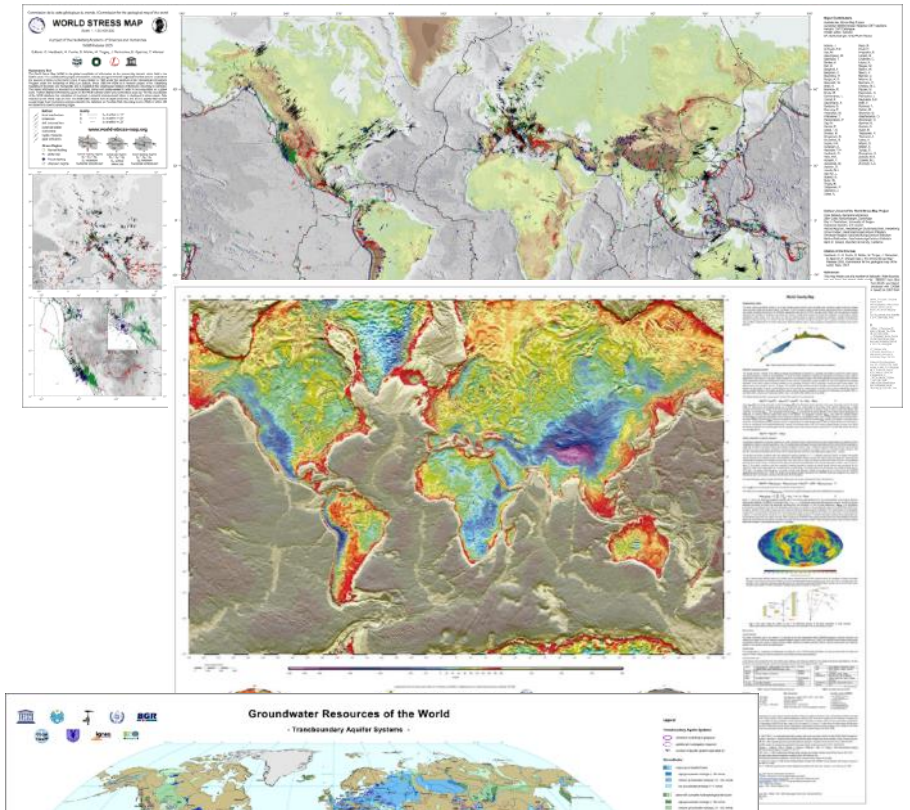
The primary data and workforce for CGMW mapping programs is provided by Geological Surveys and the Academia.

*CGMW maps are carried out in partnership with:*

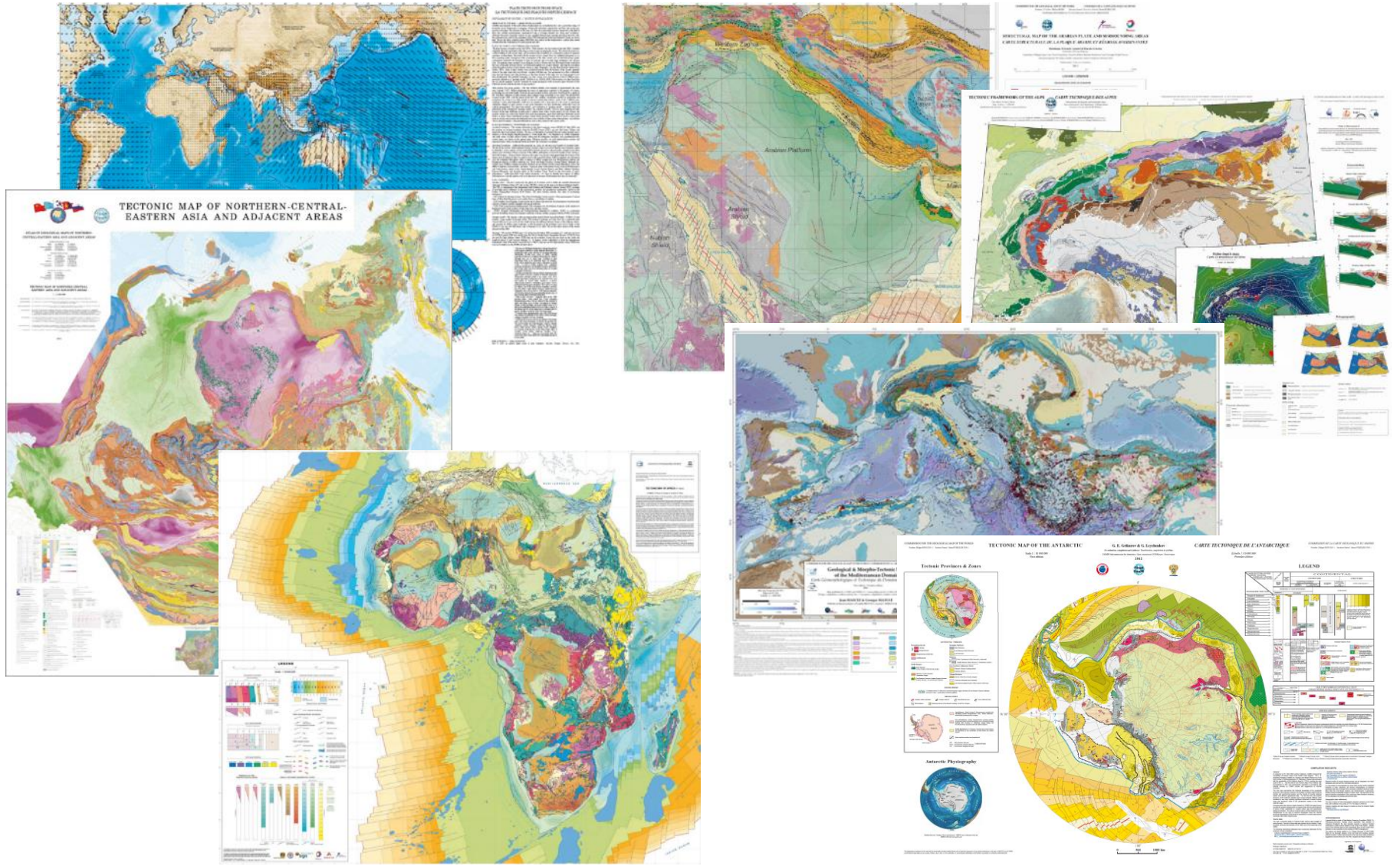
- **CGMW Statutory members** that are national organizations responsible for solid earth and ocean science mapping of all the countries or territories (i.e. Geol. Surveys) of the World;
- **Associate members**, public or private organizations, interested in and supportive of the CGMW's work;
- in close coordination and with the **support** of UNESCO, IUGS and sponsors.

# Global and regional mapping samples



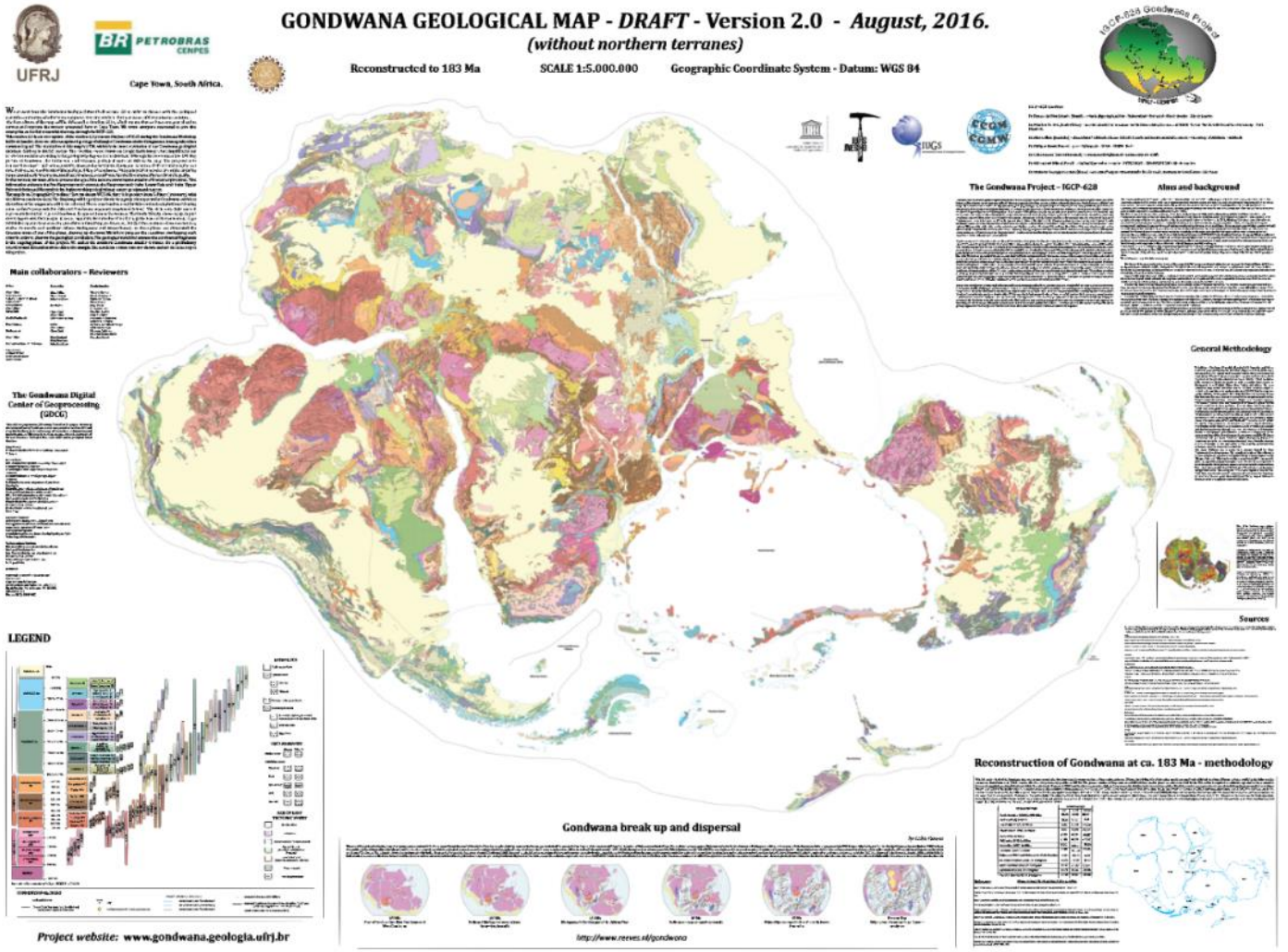



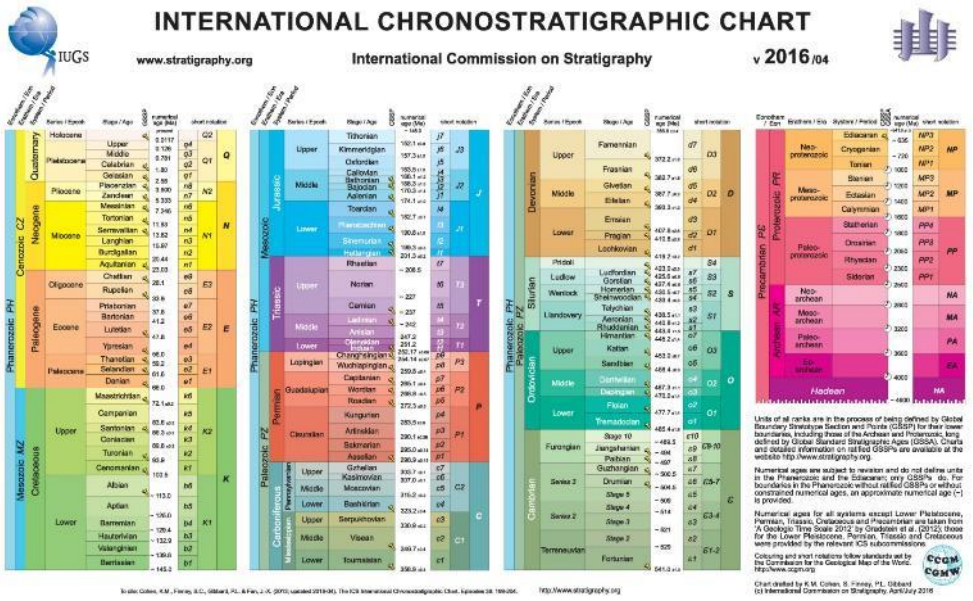

# Zooming in and out on structural and tectonic mapping



# THE GONDWANA MAP PROJECT

## **IGCP 628.** Prof. Renata Schmitt, Coordinator





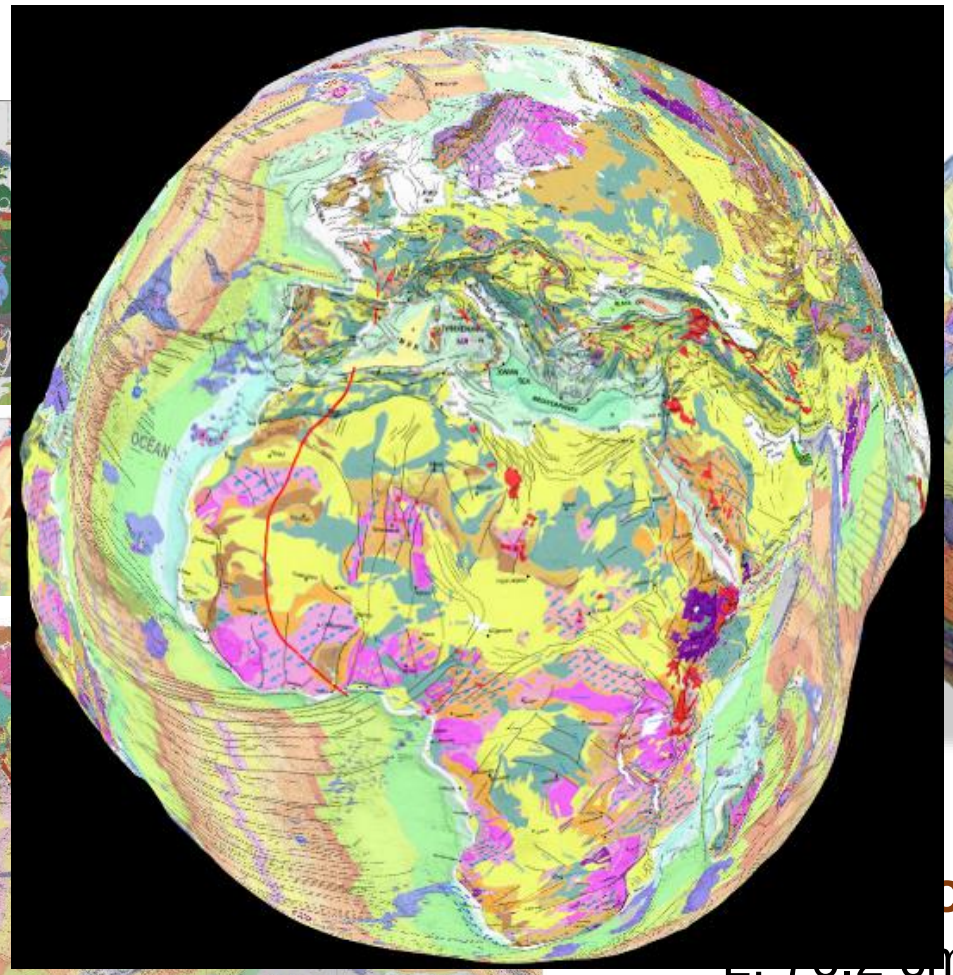

ICS Stratigraphic chart
2016/04

International Commission on Stratigraphy

# The Geological Map of the World

1990

2016



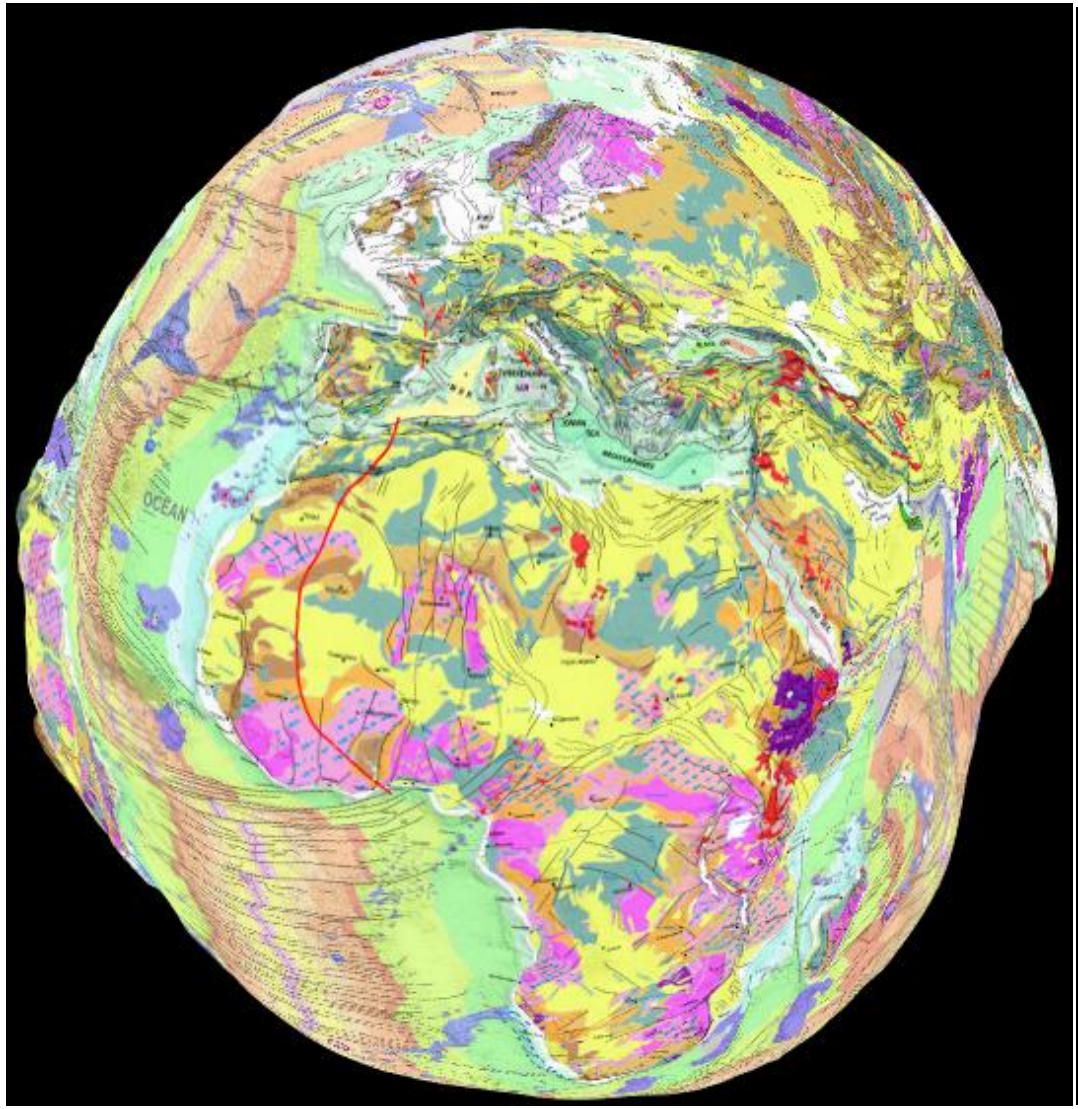
2016

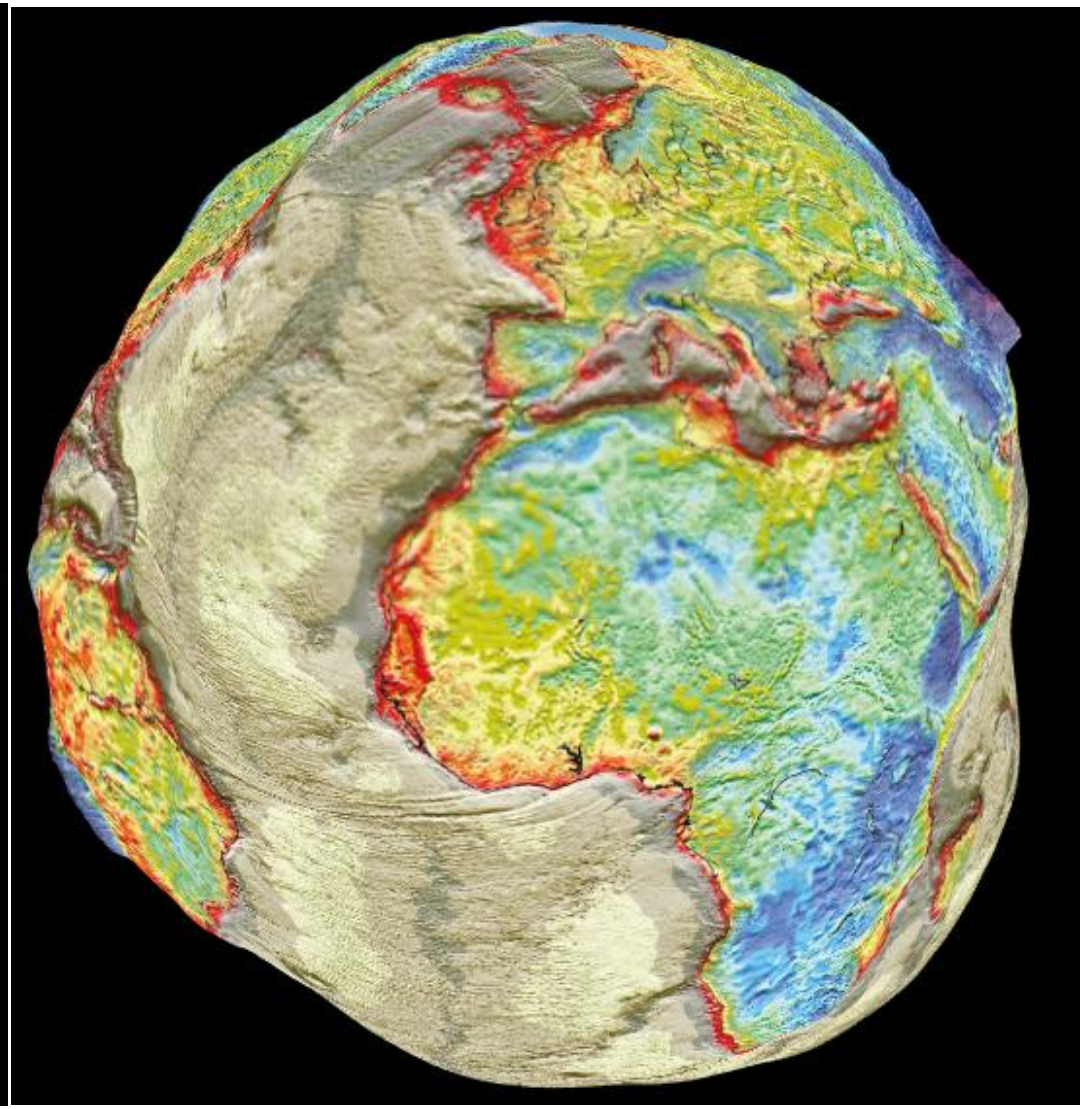
## ogical Globe of the World

L: [illegible] cm - M: 45.7 cm - S: 25.4 cm.

**A partnership with Real World Globes (USA)**

# VtWeb from VisioTerra for CGMW



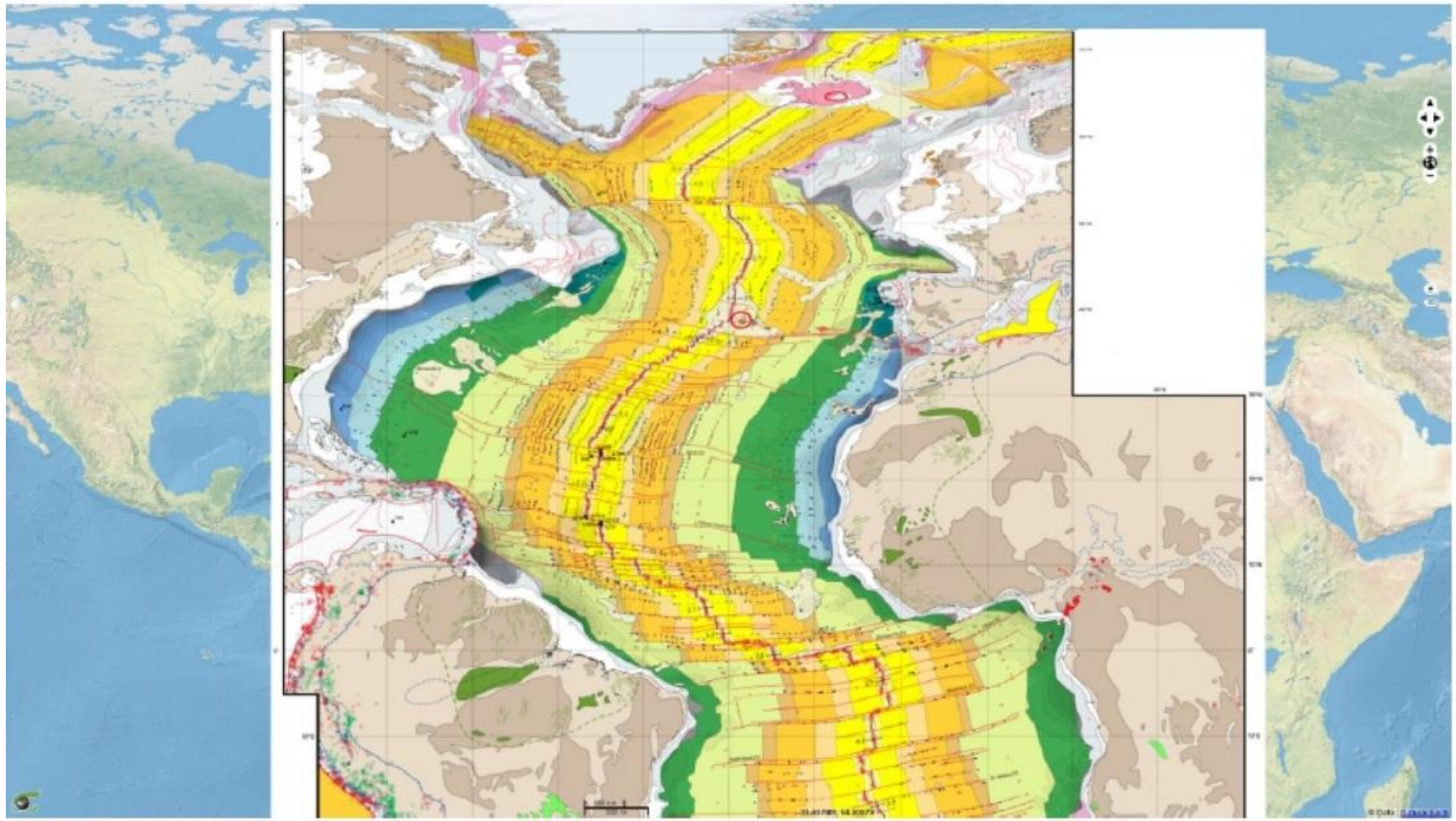



VisioTerra

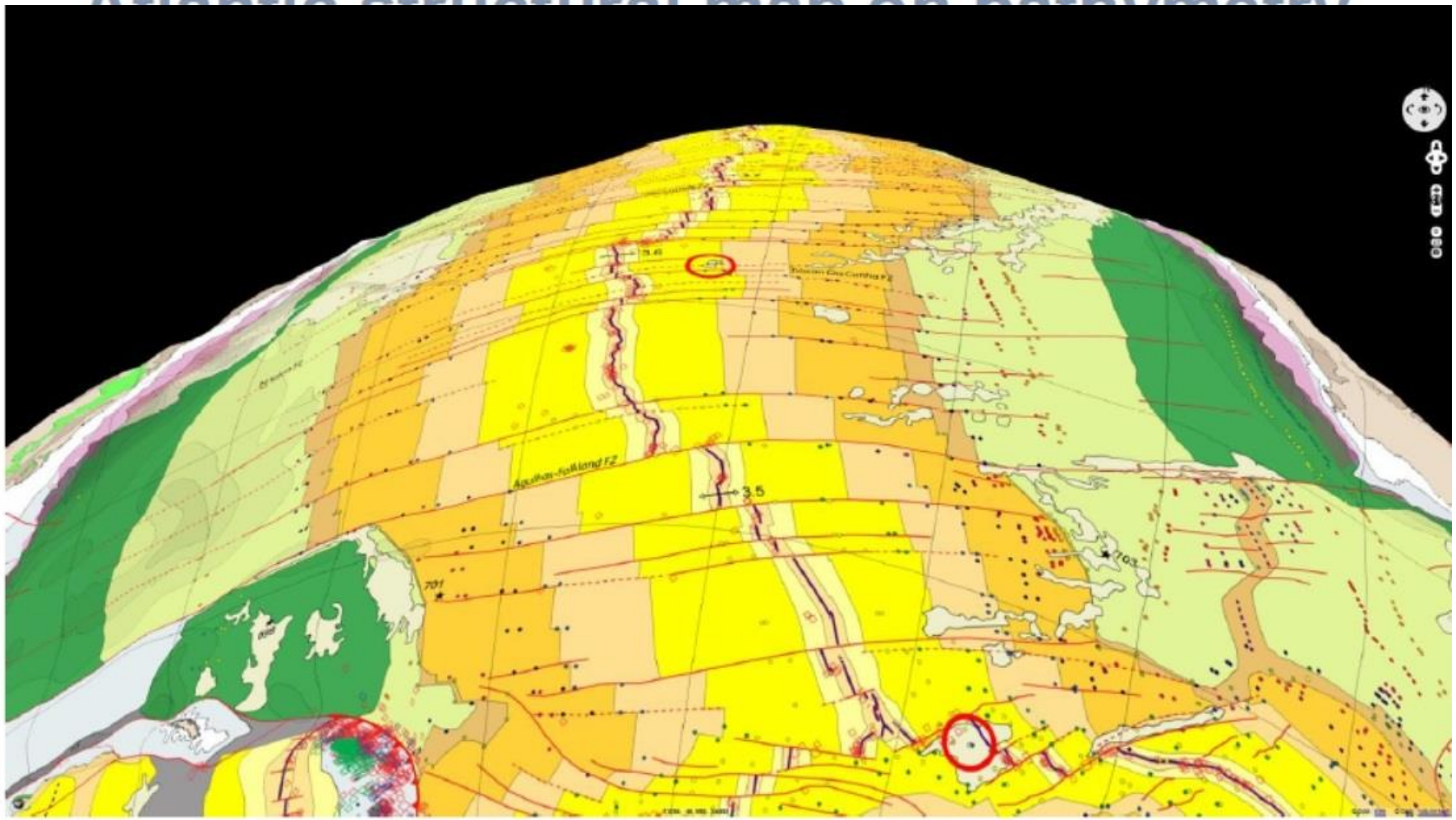
http://visioterra.net/VtWeb

# Structural map of Atlantic Ocean

1:20 000 000 Atlantic structural map published by CGMW in 2012 and GOCE geoid



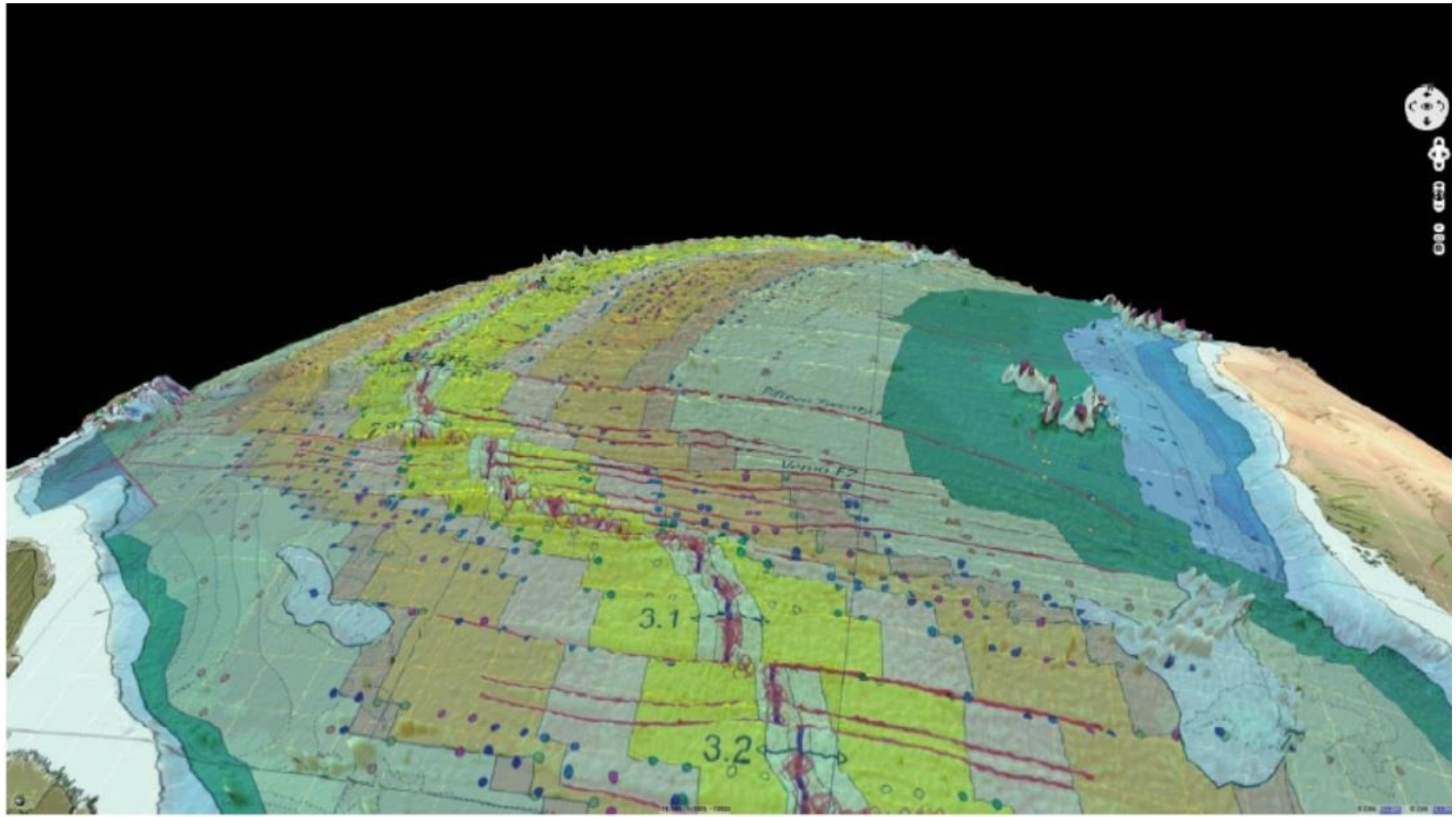
# Atlantic structural map on bathymetry



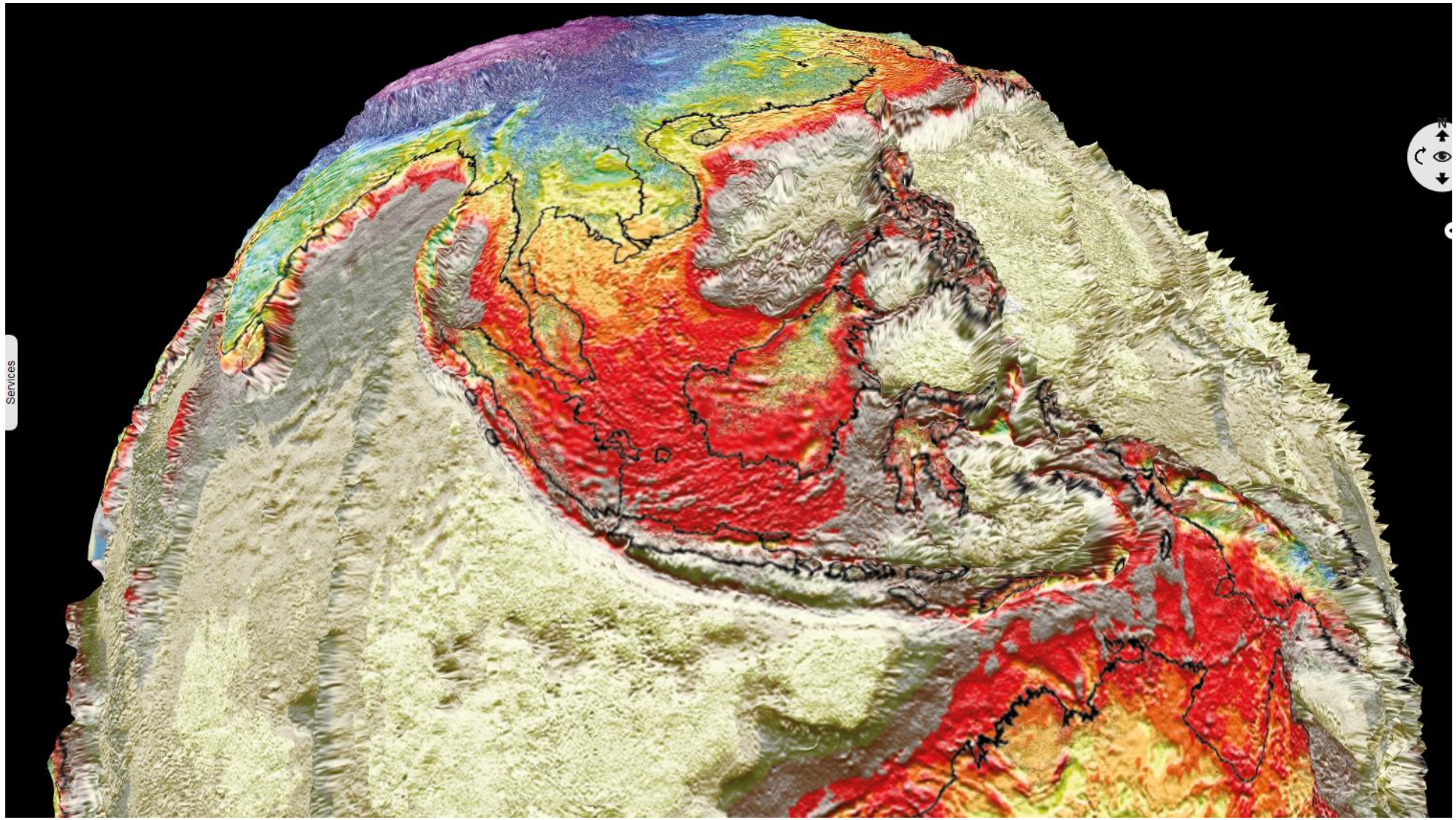

3D view of the south Altantic ridge displaying seafloor transform faults 3D view



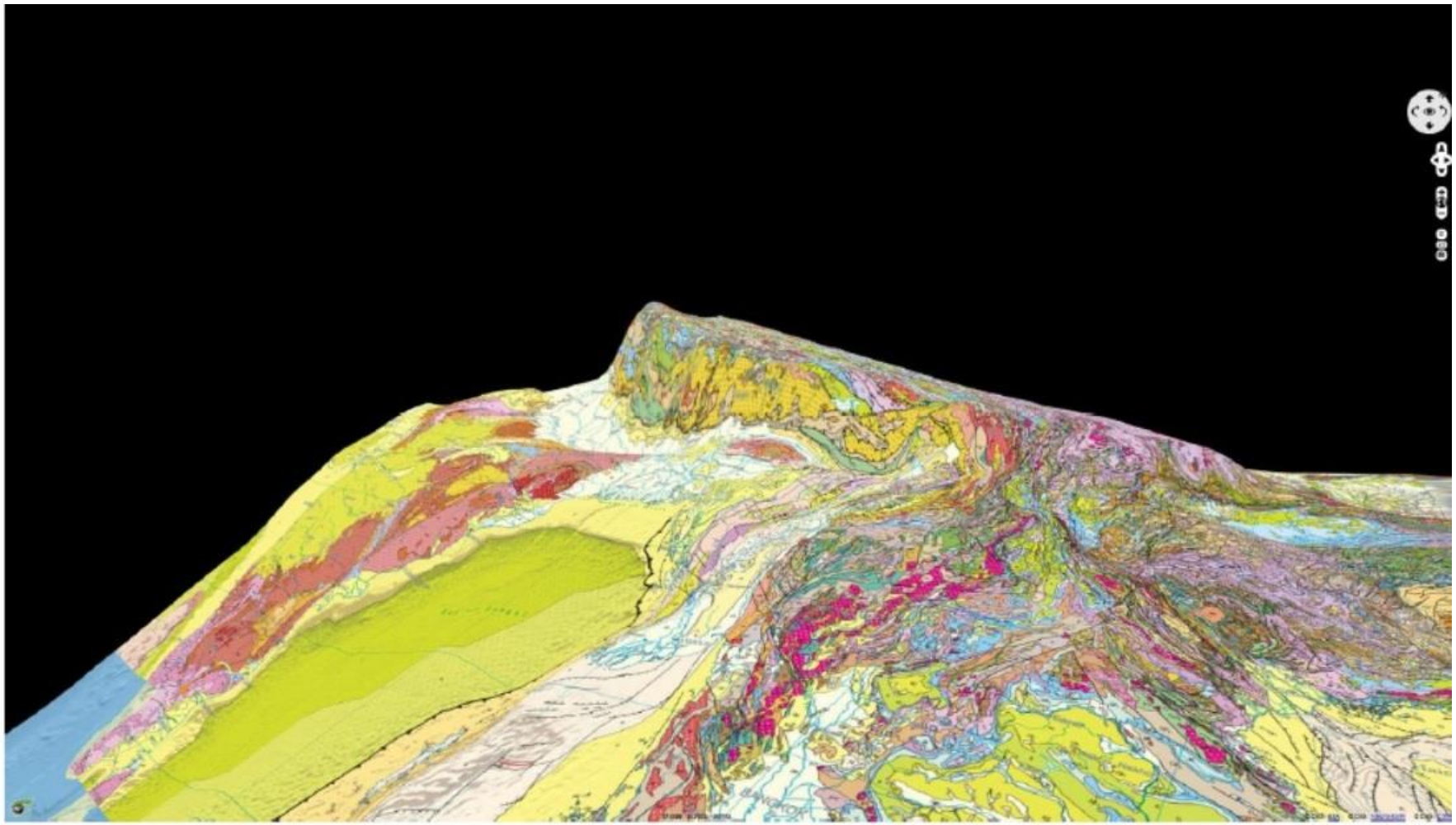
General view of the mid Atlantic ridge 2D view



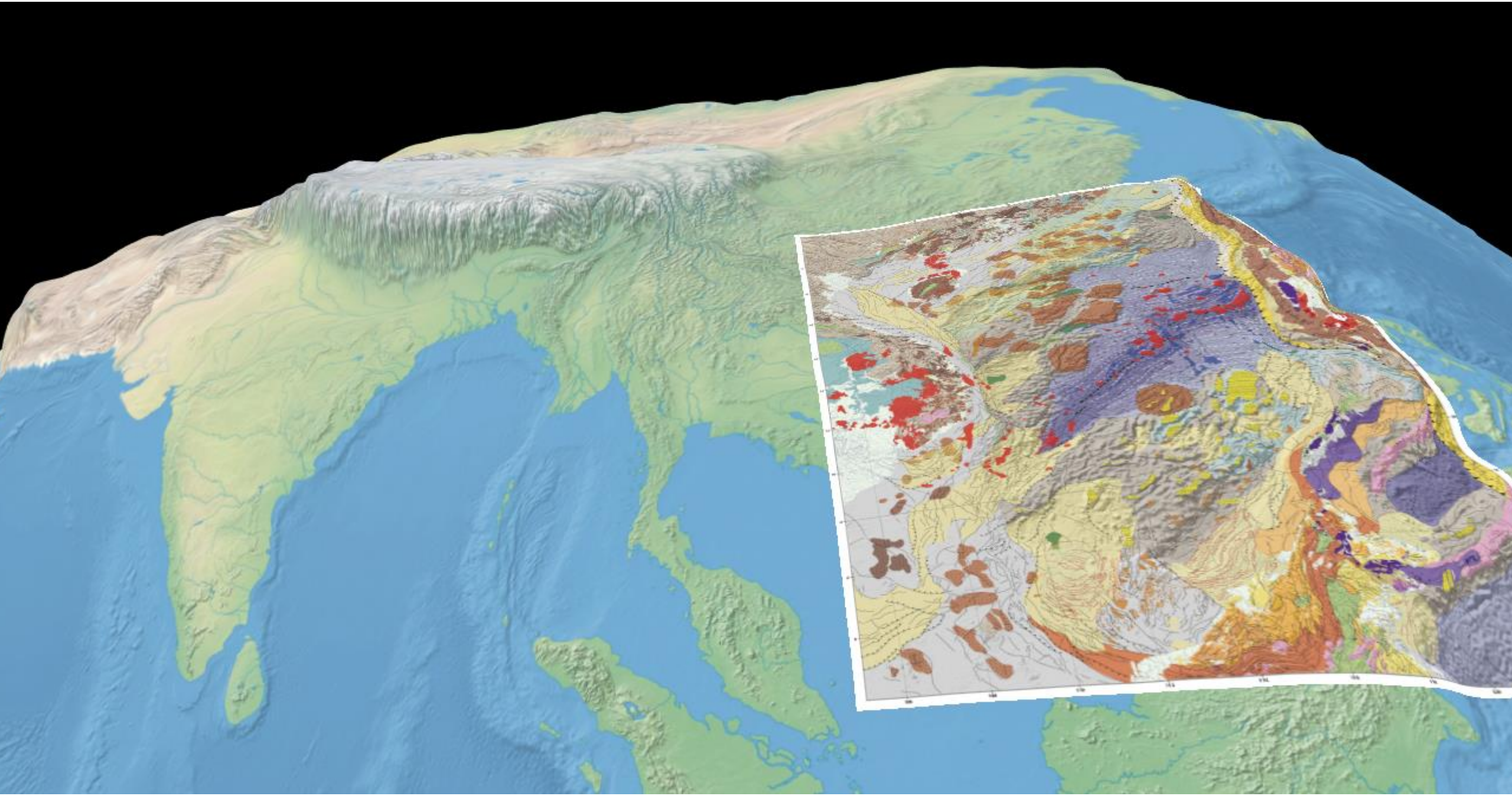

View of the mid Altantic ridge with 3D seafloor 3D view

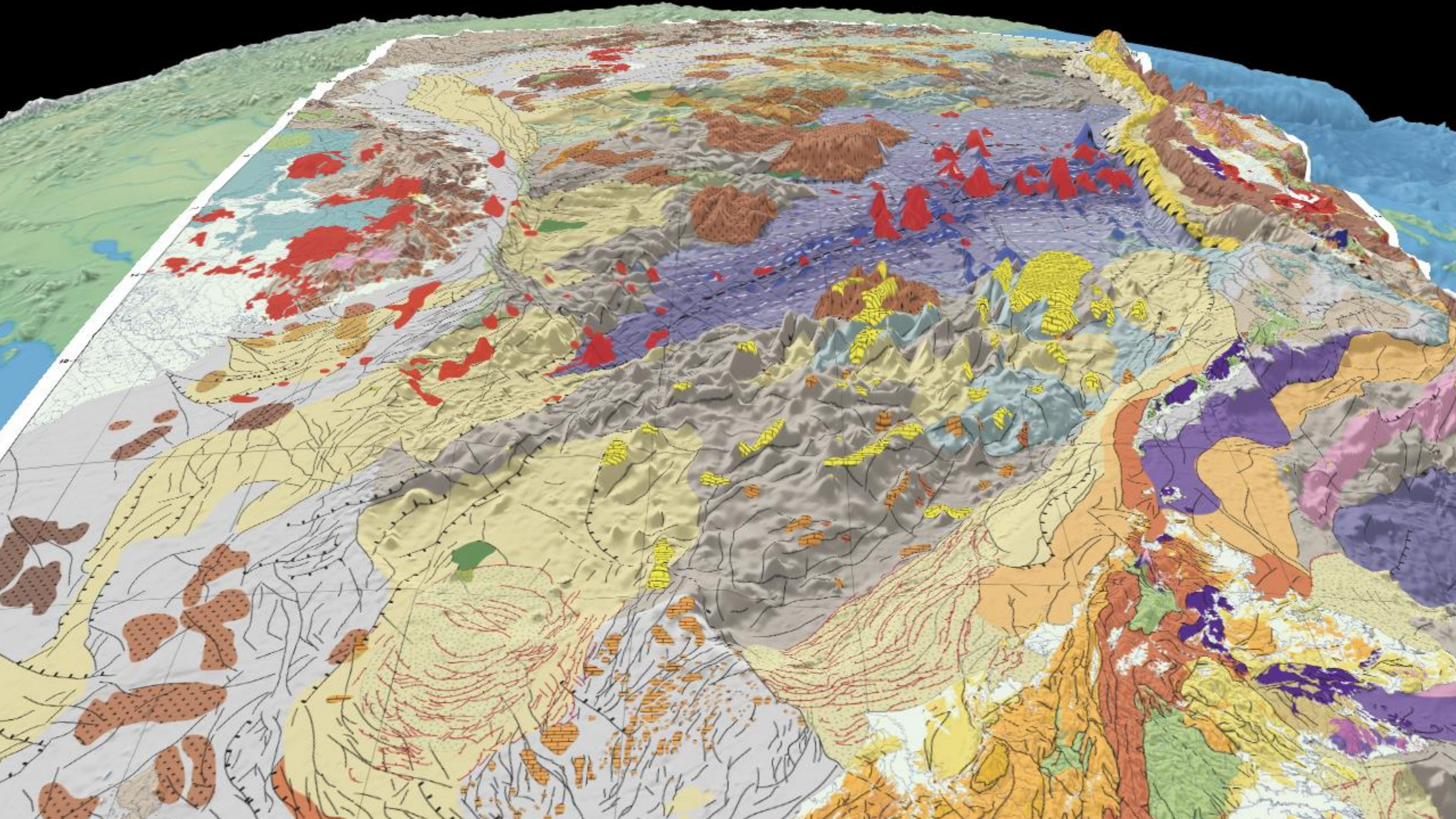

Services
N

Indochina block
Wang Chau fault
Sibumasu block
Mekong
Con Son basin
South China
Sea
Sunda block
Services
2D
N



Focus on the Himalayas 3D view





http://visioterra.net/svp/gallery/thematic
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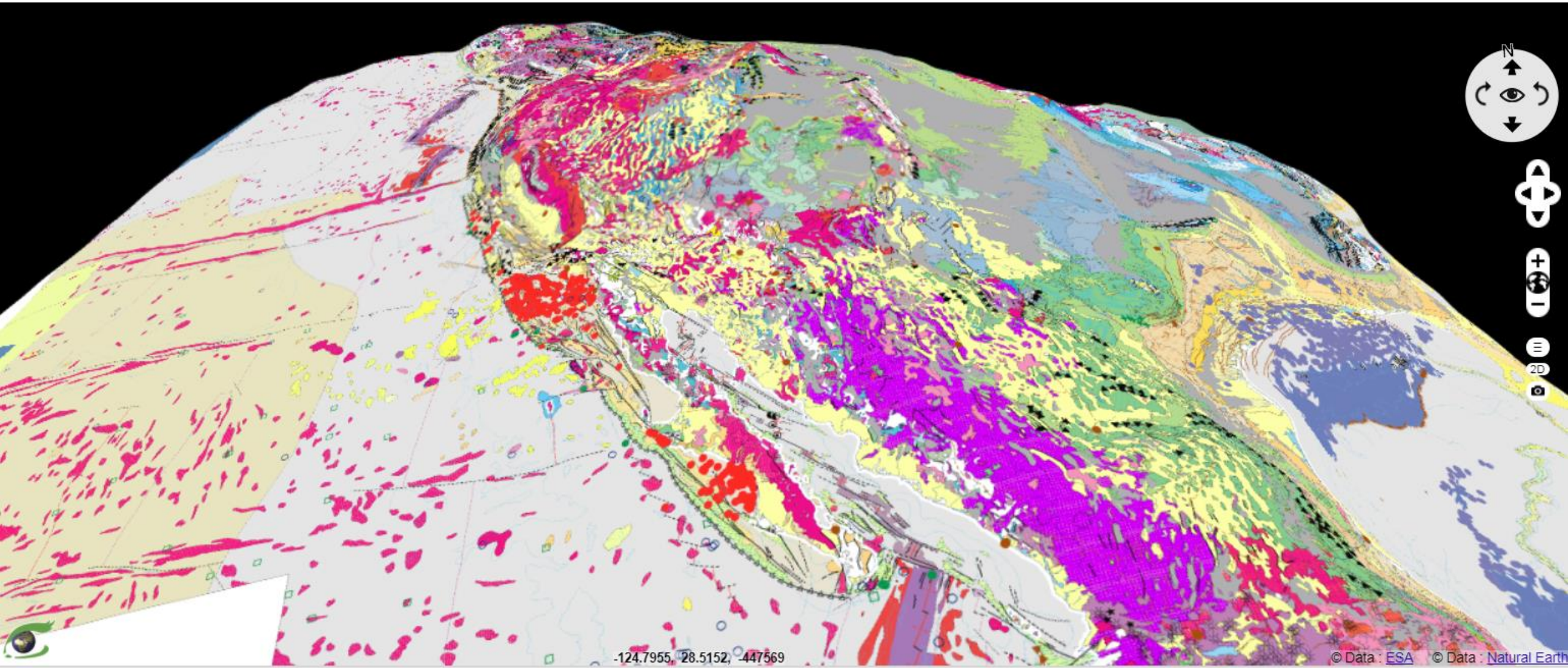


003

23 March 2017

2D 3D

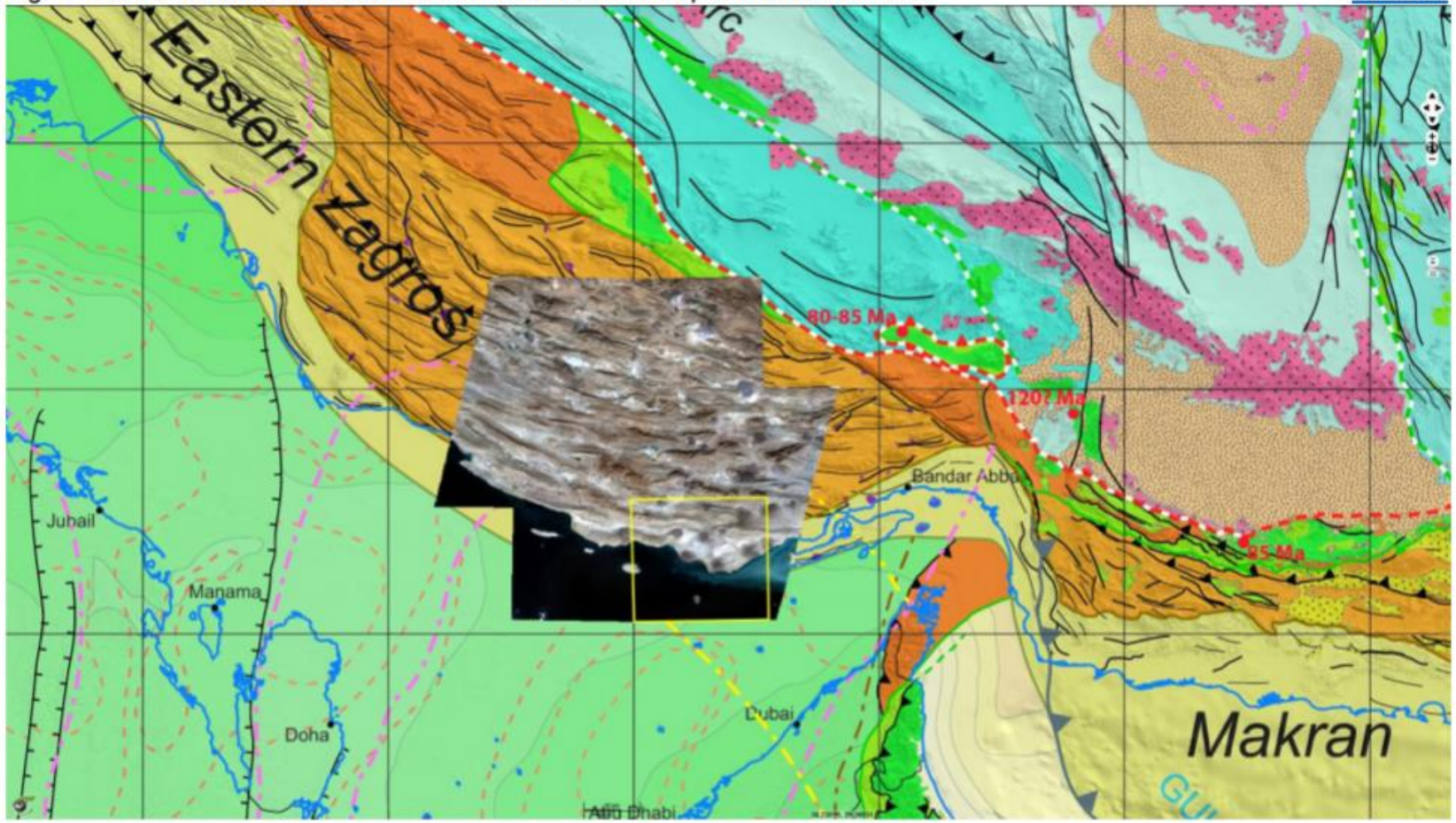
# Geology in Zagros as an open book

**Sentinel-2 MSI** acquired on **7 January 2017** at 07:03:01 GMT

Author(s): Sentinel Vision team. VisioTerra, France - svp@visioterra.fr

Keywords : land, geology, structural geology, tectonics, sebkhra, diapir, Iran, Zagros

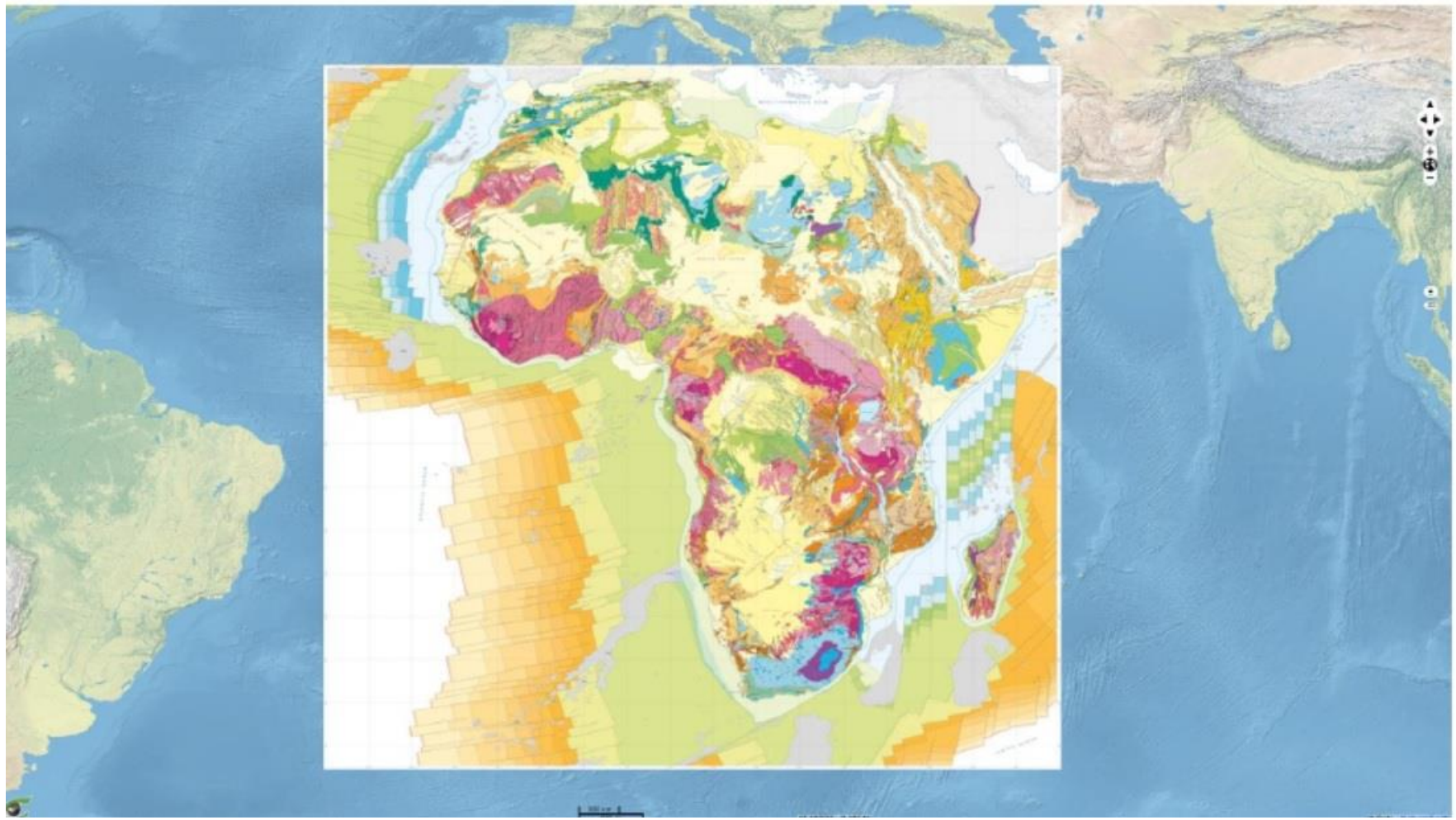
Fig. 1 - View of 10 tiles of the S2A scene on the Structural Map of the Arabian Plate. 2D view

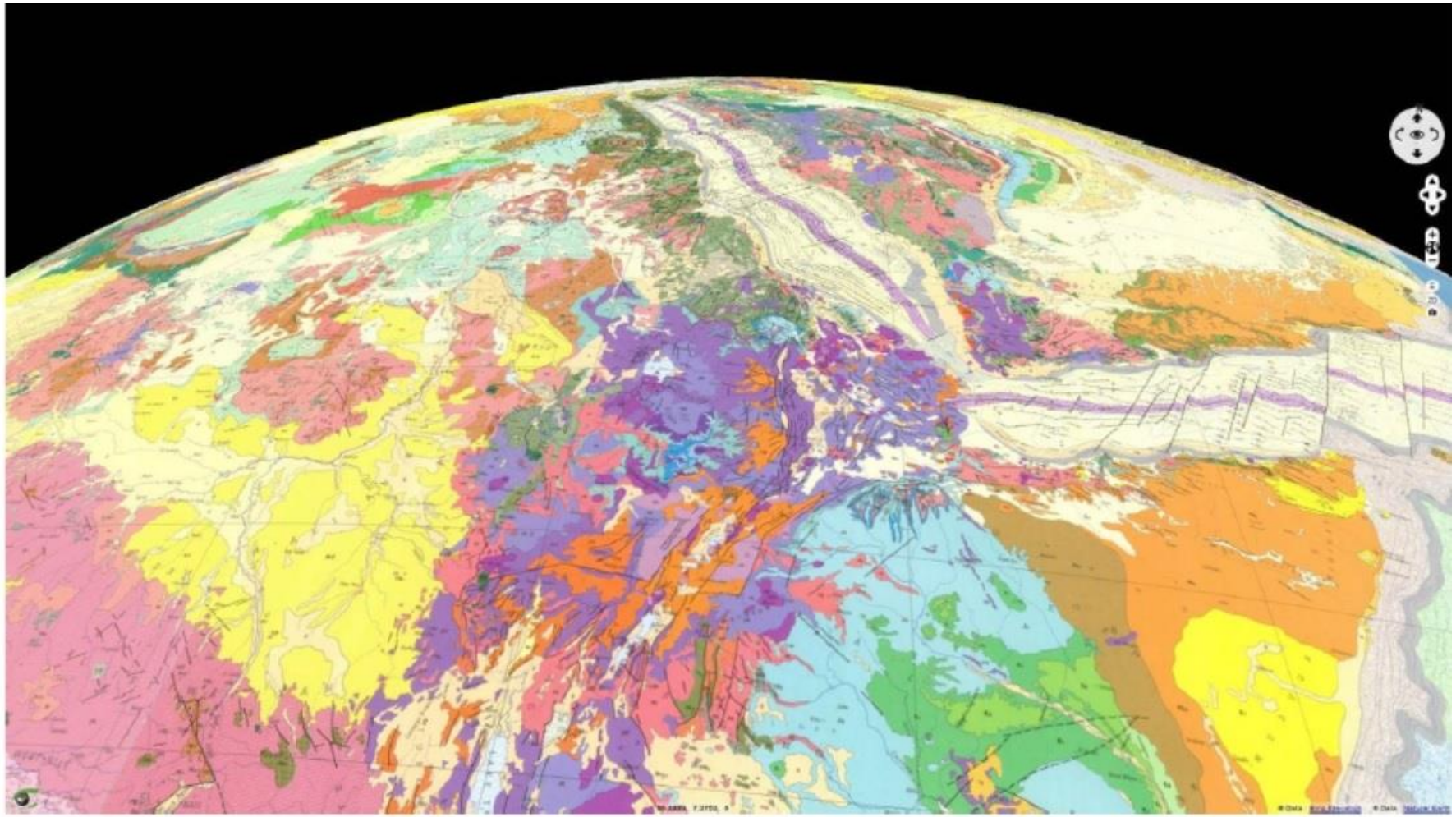



Pr. Jean Chorowicz, emeritus Professor of University Paris 6 said: "*The Sentinel-2 scene acquired over Iran on 7 January 2017 is divided into 100x100 km tiles but some are not displayed. The colour composite image in 'true colours' - B4 in red, B3 in green, B2 in blue - shows here in the context of the "Structural Map of the Arabian Plate and Surrounding Areas" (distributed by the Commission for the Geological Map of the World, CGMW, see legend and covers a part of the Fars area in the Zagros (Iran) along the northern shore of the Persian Gulf, one of the oldest studied and exploited petroleum provinces of the world.*

# New Geological map of Africa

1:5 000 000 Africa geological map published by CGMW in 2016



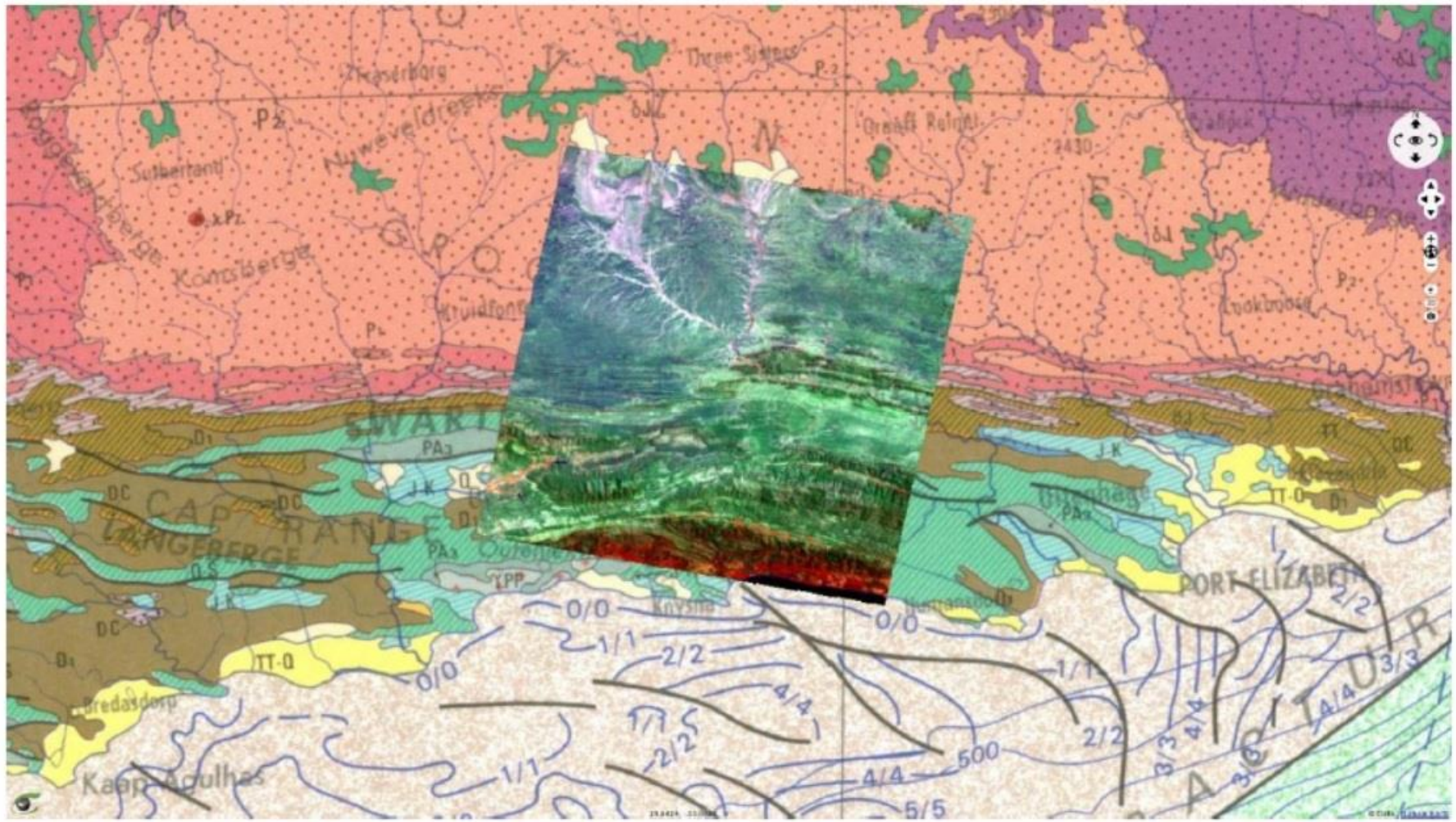


View of the East African rift: 3D view

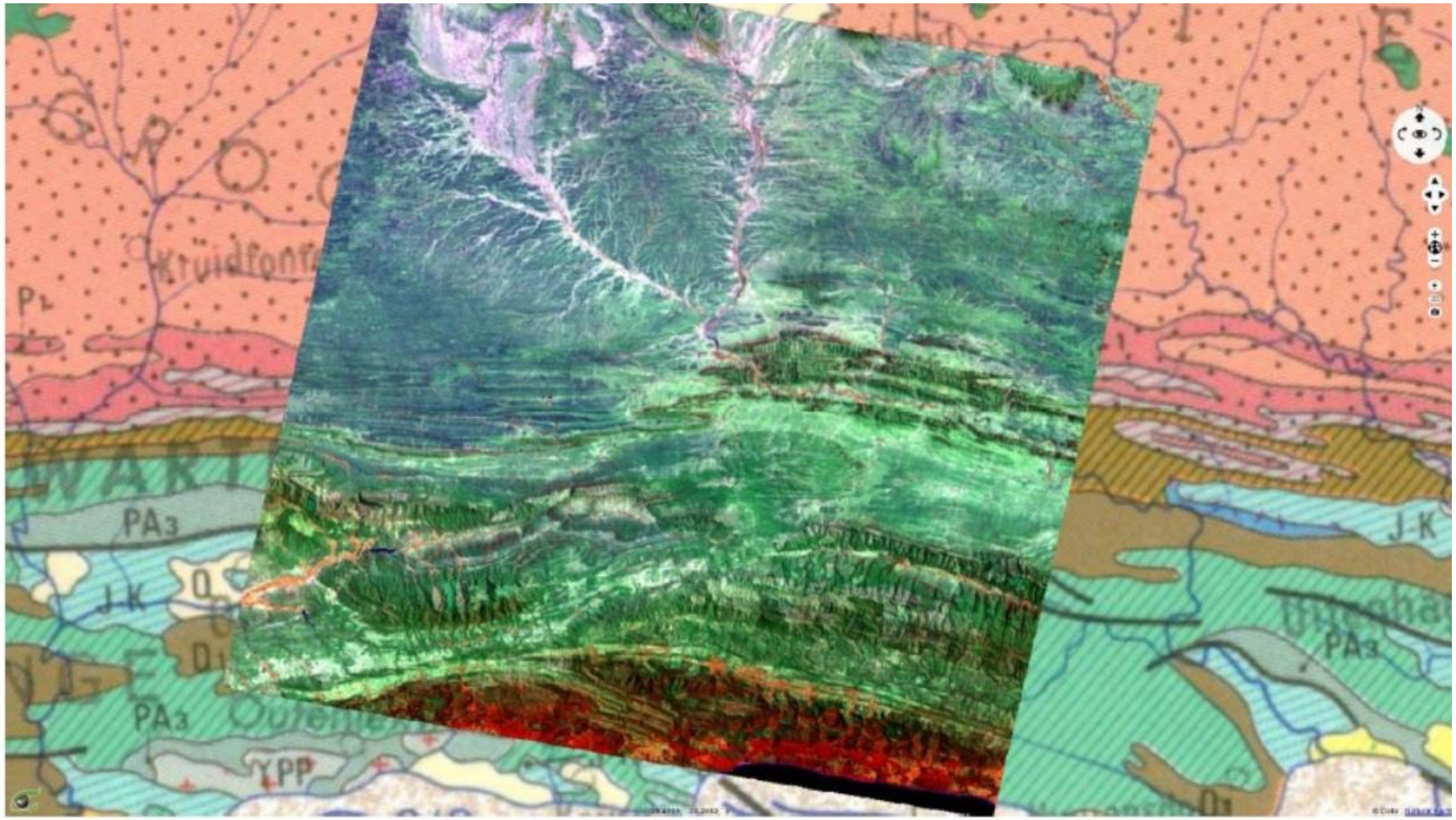
# Geological map with Landsat data

1:5 000 000 Africa geological map published by CGMW in 1990

**Landsat TM on 12.19.1986 over the Swartberge mountains (South Africa)** 3D stack



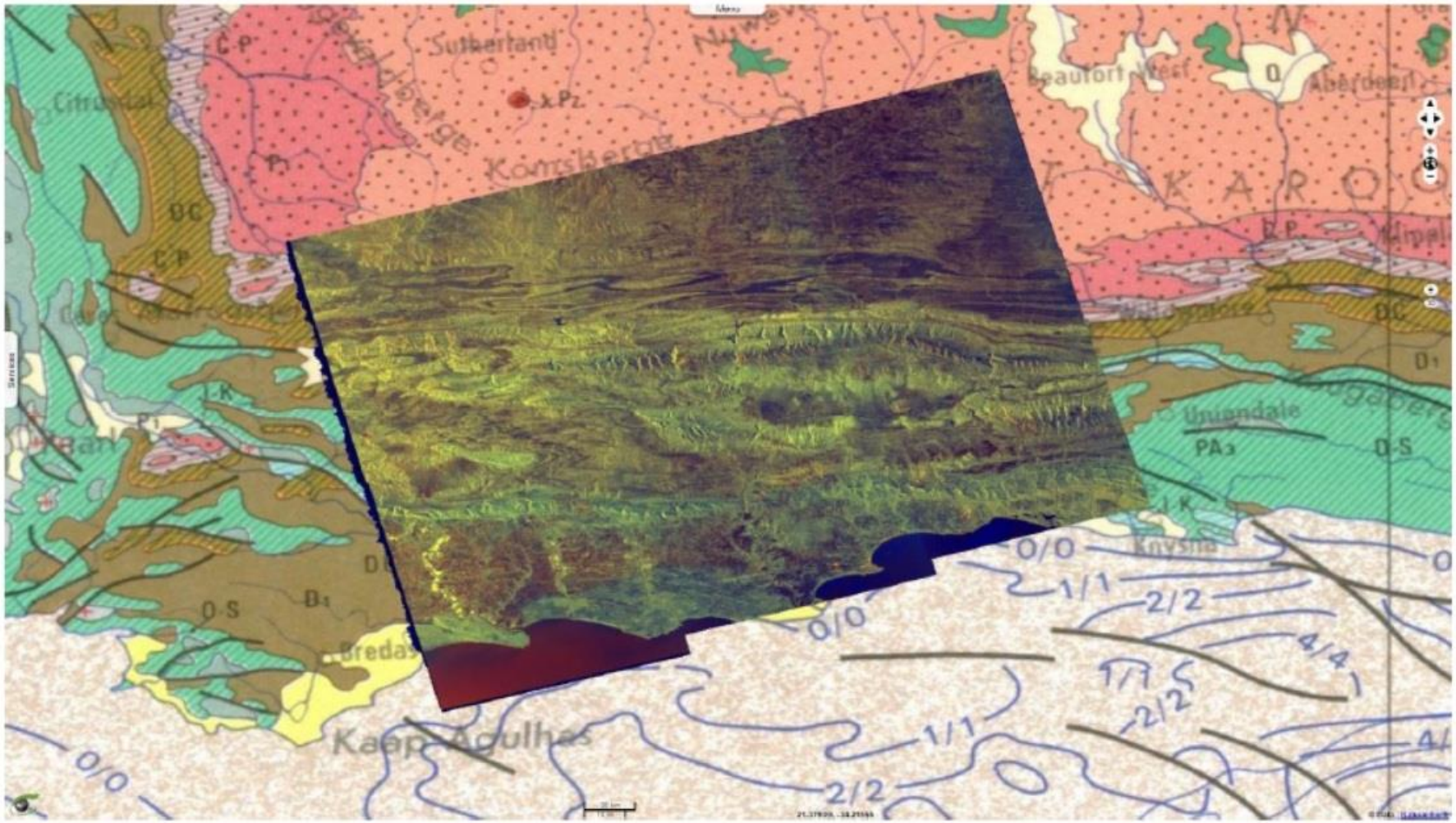

Bands 4-5-3 : 2D view



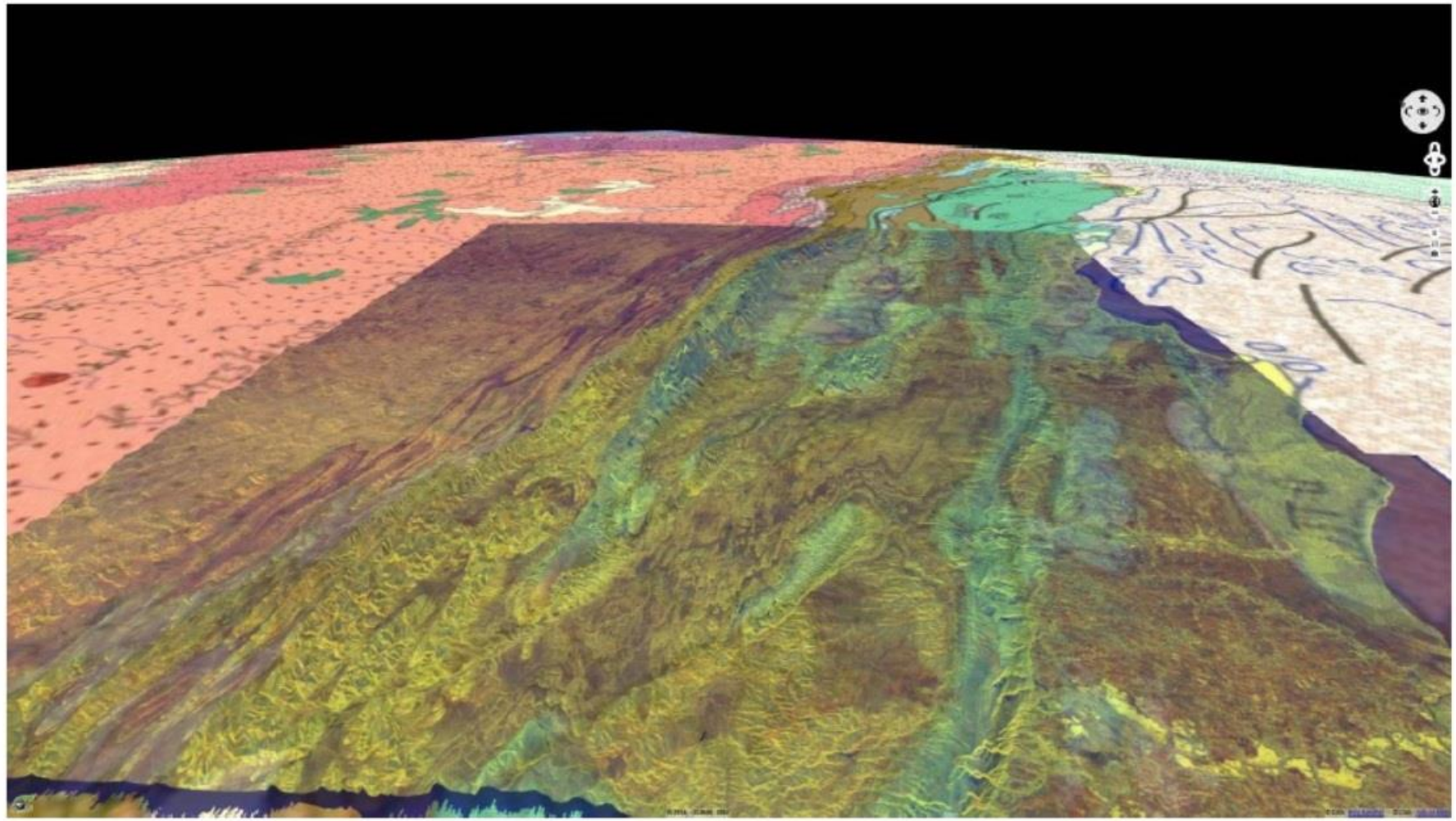

Focus on landsat picture showing different litology related to the geological map : 3D view

# Geological map with Sentinel-1 data

1:5 000 000 Africa geological map published by CGMW in 1990
ESA Sentinel-1A CSAR IW on 14.03.2015 17:17:13 GMT



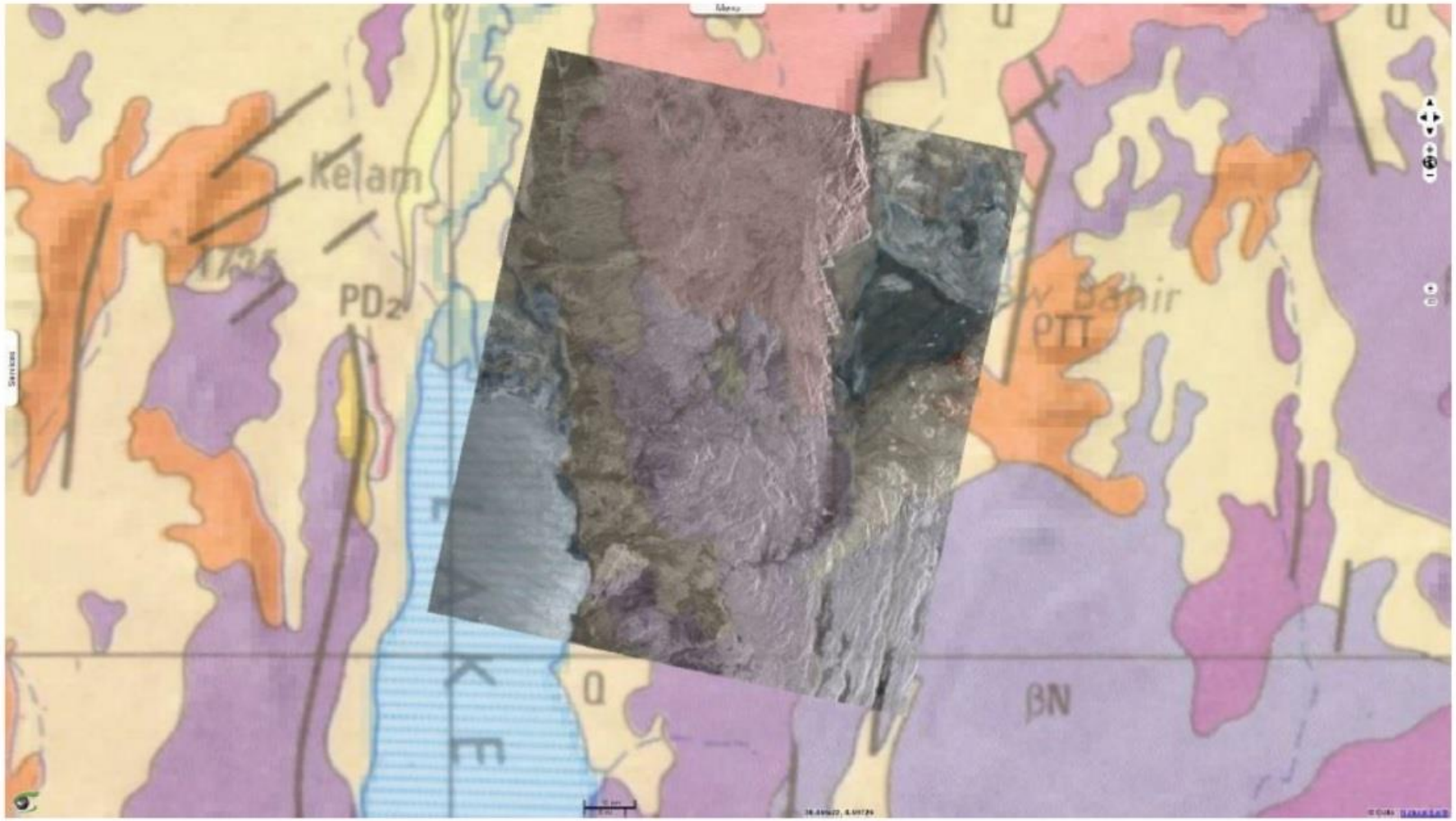

Geological map of South Africa with Sentinel-1A scene 2D stack



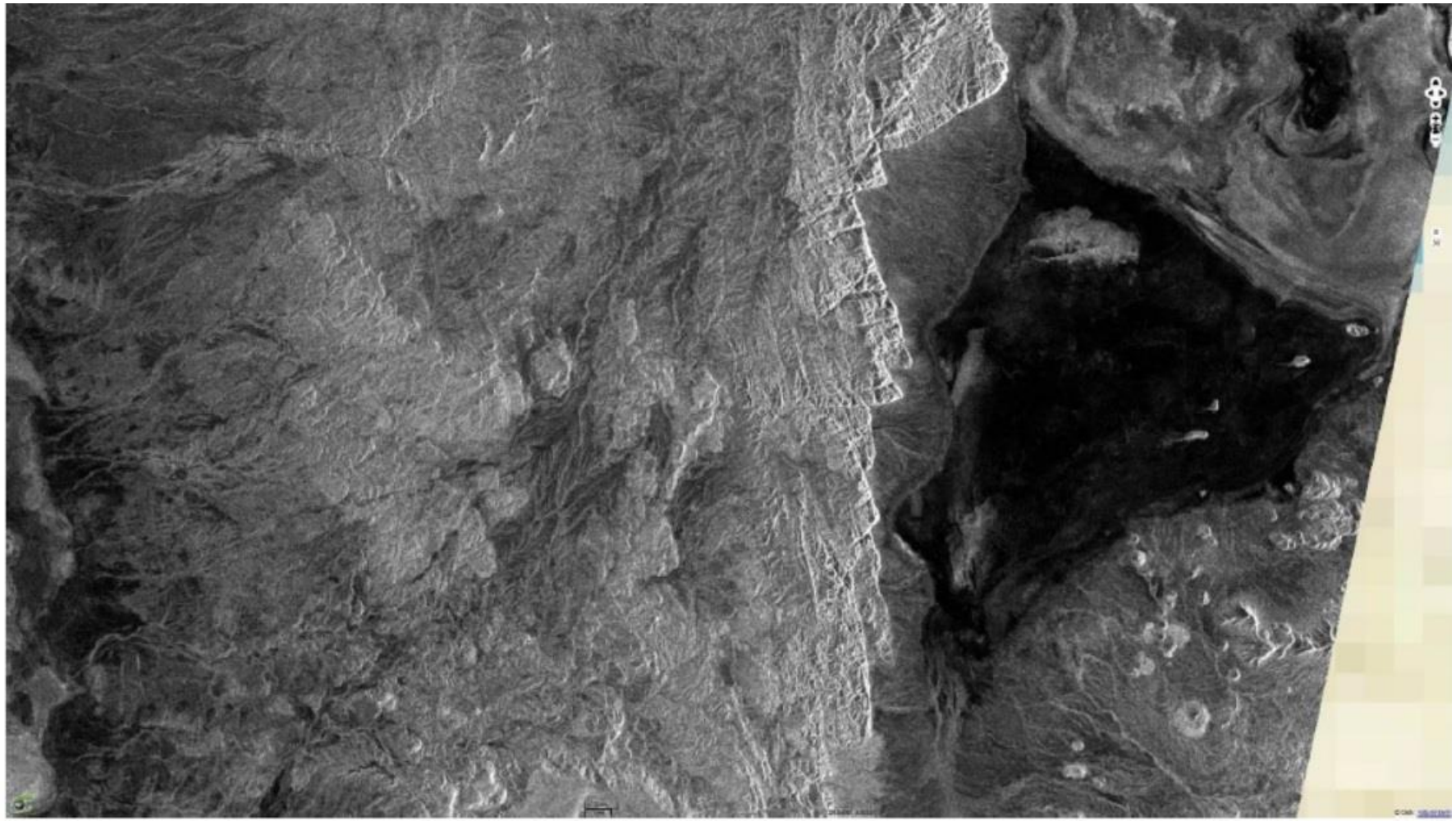
Sentinel-1 scene over geological data (vertical exageration: x4) 3D stack

# Geological map with ERS data

1:5 000 000 Africa geological map published by CGMW in 1990
ESA ERS SAR PRI on 27.09.1999 07:55:55 GMT



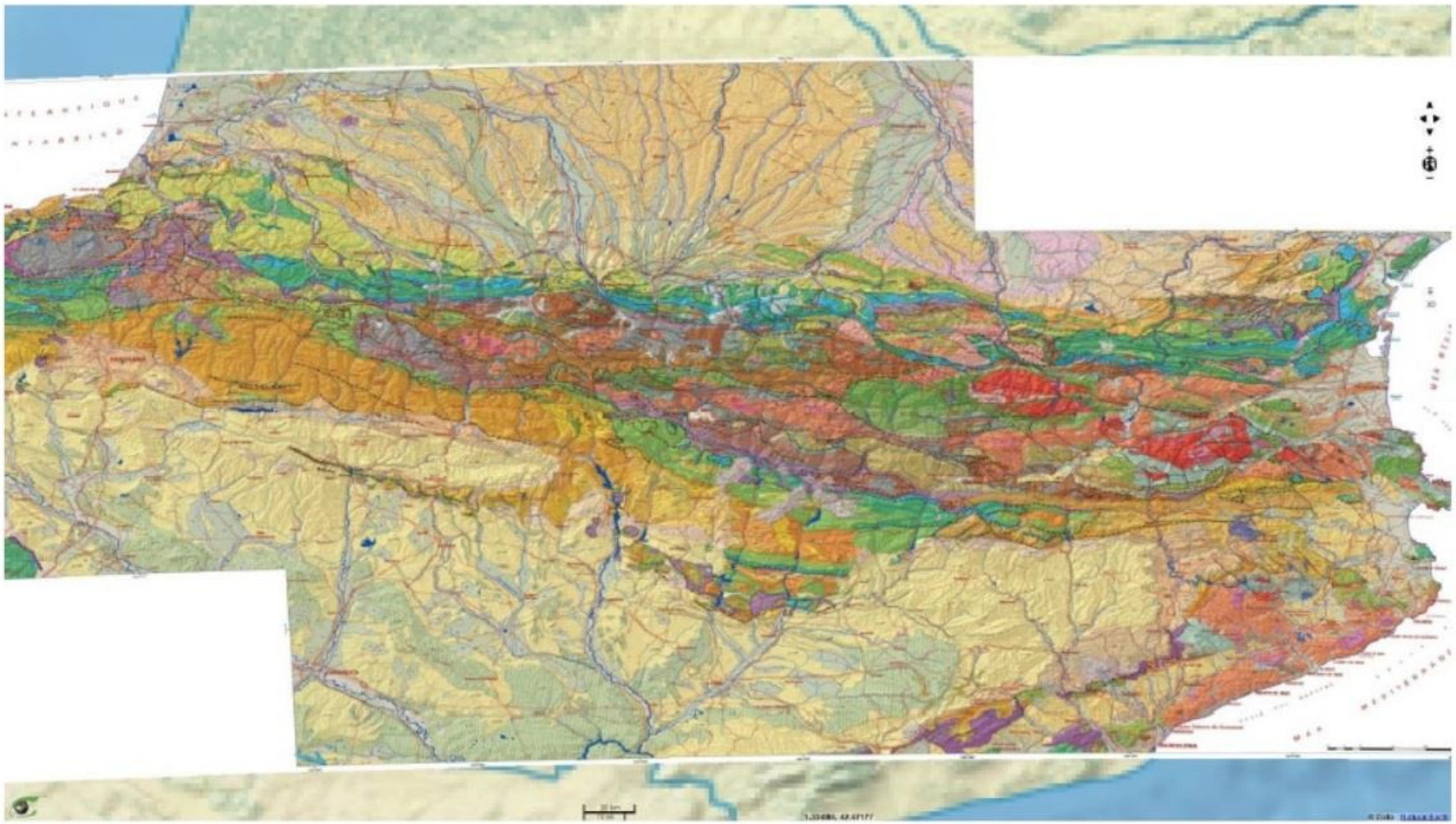

Geological map of Africa with ERS scene 2D stack



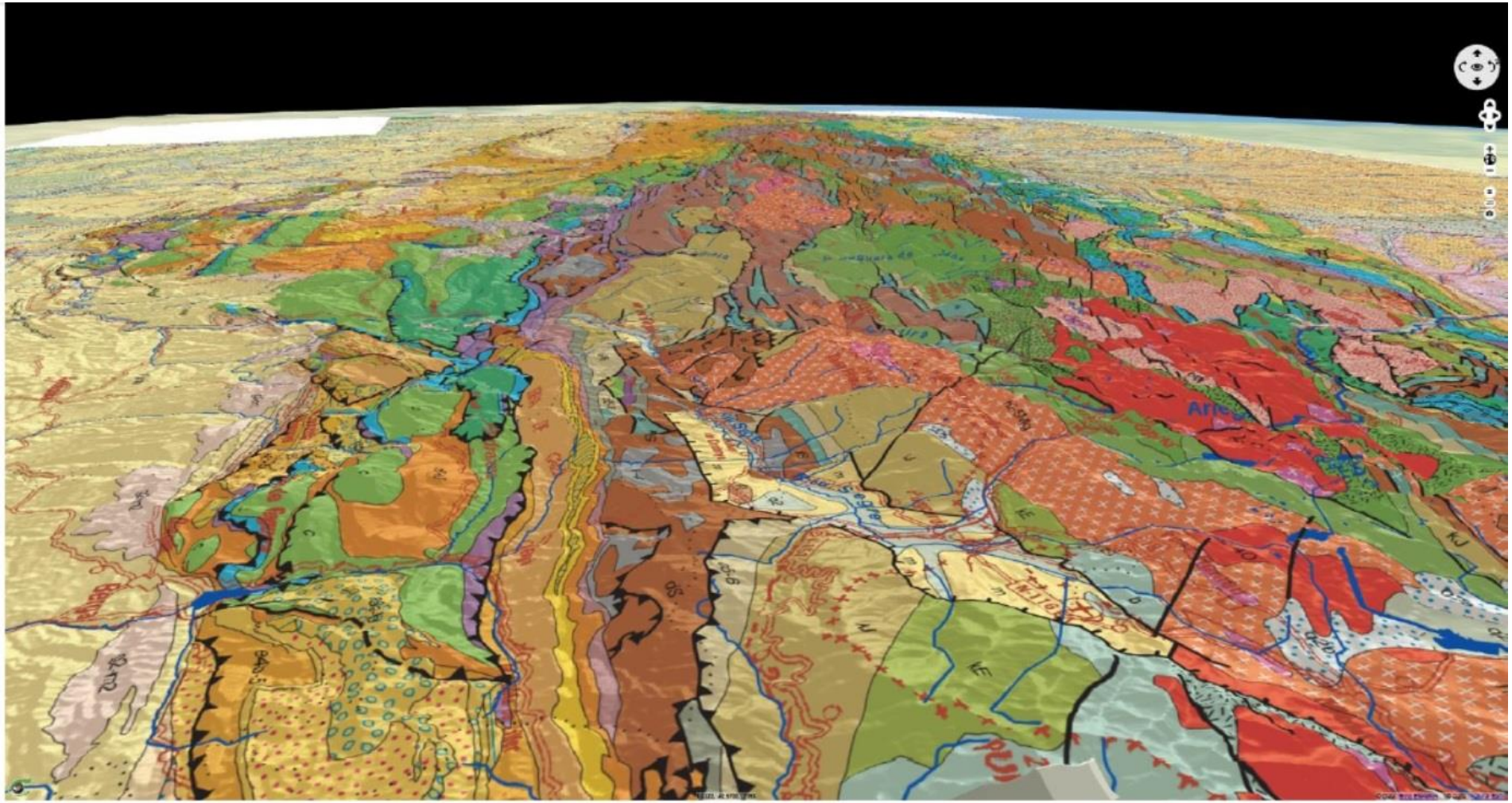
ERS scene showing fault trends, hydrographic network and alluvial fans 2D view

# Pyrénées Geological map

1: 400 000 CGMW Pyrénées geological map (France - Spain)



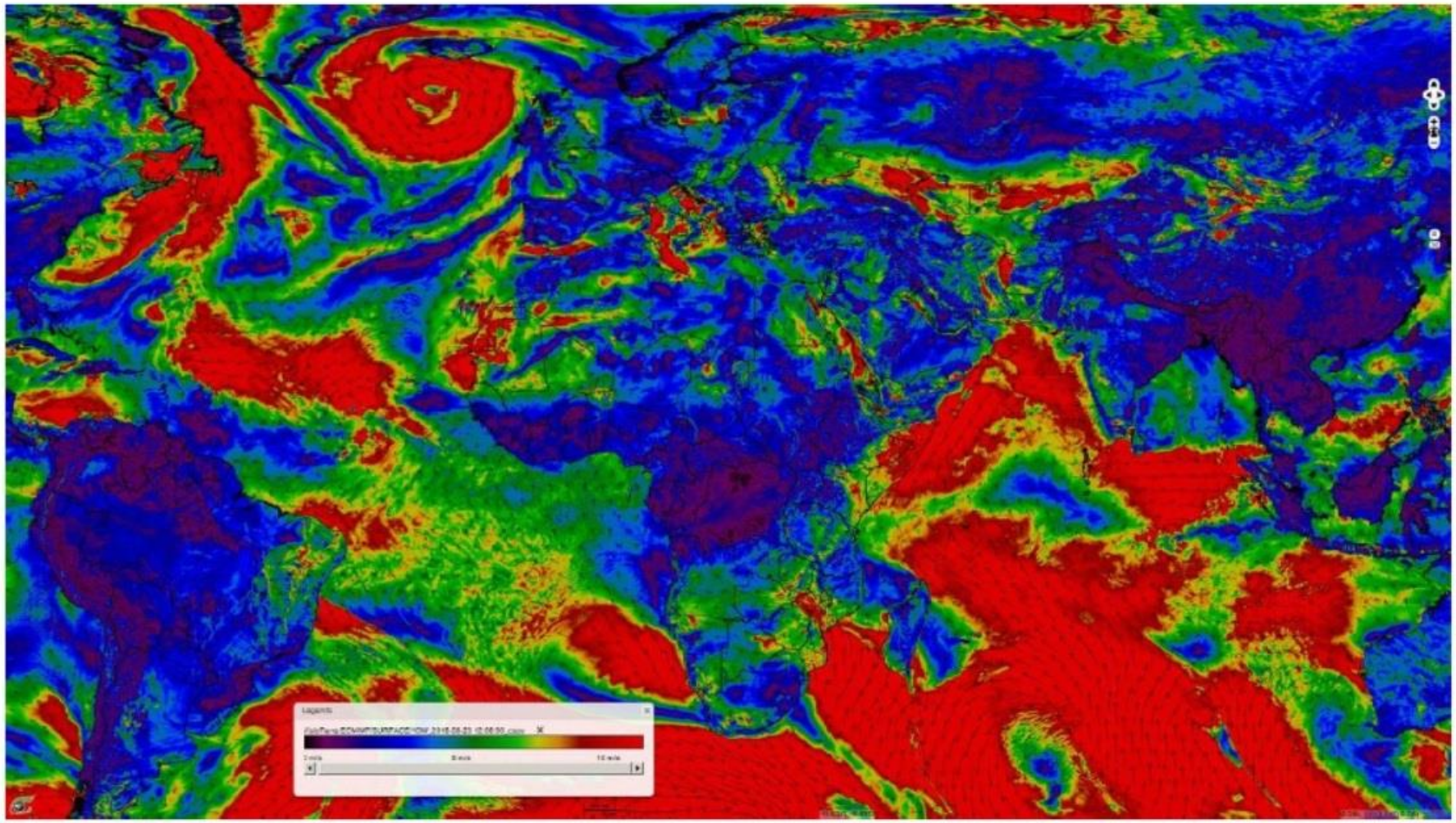
Geological map of the Pyrénées mountains 2D view



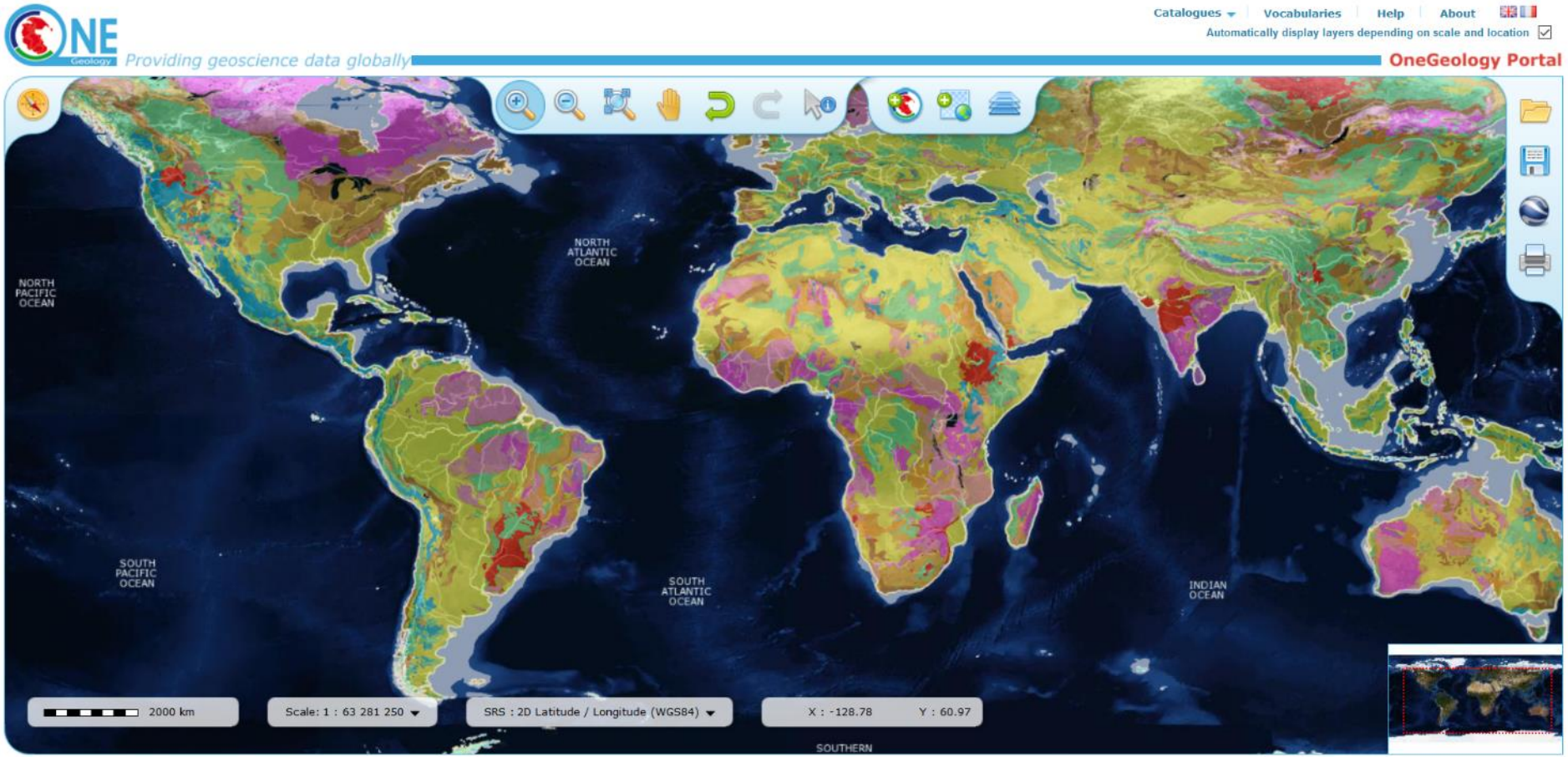
Geological map and topography showing major Pyrenean thrust 3D view

# Wind direction and intensity

ECMWF surface winds on 23.08.2016 12:00 GMT



Africa surface wind: 2D_stack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NORTH ATLANTIC OCEAN
SOUTH PACIFIC OCEAN
SOUTH ATLANTIC OCEAN
INDIAN OCEAN
SOUTHERN
2000 km
Scale: 1 : 63 281 250
SRS : 2D Latitude / Longitude (WGS84)
X : -128.78
Y : 60.97