VtWeb from VisioTerra for CGMW

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

(without northern terranes)

Rennet to 105 Ma.
SCALE 1:6,000,000 Geographic Coordinate System - Datum: WGS 84

LEd

Project website: www.gondwana.geologia.ufrj.br
The Geological Map of the World

The Geological Globe of the World

L: 76.2 cm - M: 45.7 cm - S: 25.4 cm.

A partnership with Real World Globes (USA)
VtWeb from VisioTerra for CGMW

http://visioterra.net/VtWeb
Structural map of Atlantic Ocean

1:20 000 000 Atlantic structural map published by CGMW in 2012 and GOCE geoid
http://visioterra.net/svp/gallery/thematic
http://visioterra.org/VtWeb/hyperlook/ce1e65be2b484c89a75502dfad23ad5e
http://visioterra.fr/transfert/CLIENT_ESRIN/P268_ESRIN_SENTINEL_VISION/stories/
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)

Bands 4-5-3: 2D view
Focus on landsat picture showing different lithology 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
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
ERS scene showing fault trends, hydrographic network and alluvial fans 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