



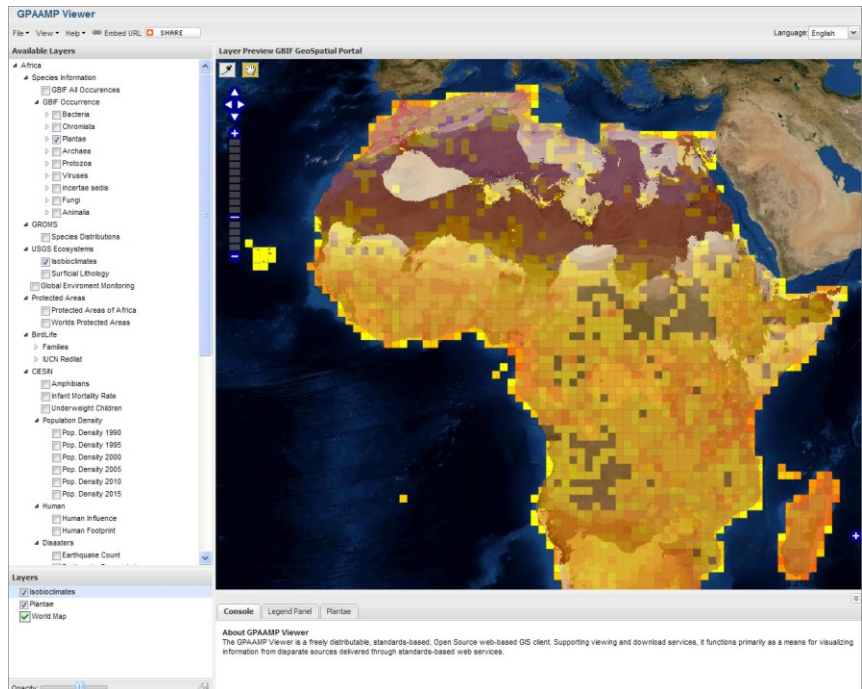
## GEO Protected Areas Assessment & Monitoring Pilot: The GPAAMP Viewer

### The GPAAMP Viewer

The Group on Earth Observations (GEO) Protected Areas Assessment and Monitoring Pilot (GPAAMP) Viewer is a web-based GIS application that focuses on data (e.g., biodiversity, environmental, climate) for African protected areas. Primarily a means for visualising information from disparate sources delivered through standards-based web services, it can aid in the management and assessment of protected areas. In the spirit of GEO Biodiversity Observation Network (BON), it is expected that additional applications from third parties will build on the common services and data products underpinning the application, e.g., enabling species distribution modelling using appropriate datasets.

### GPAAMP

GPAAMP is a proposal for a GEO BON “early product” led by the Joint Research Centre of the European Commission (JRC EC). It aims to provide decision makers with a regularly updated tool—the Digital Observatory for Protected Areas (DOPA)—to assess the state of African protected areas and to prioritize them according to biodiversity values and threats in order to support decision making and fund allocation processes (<http://bioval.jrc.ec.europa.eu/PA/>). The Digital Observatory for Protected Areas, DOPA (<http://dopa.jrc.ec.europa.eu/>) is being realised largely through the EU-funded EuroGEOSS project (<http://www.eurogeoss.eu>), “a European contribution to the Global Earth Observation System of Systems (GEOSS).”



The DOPA is being designed in conformance with the GEOSS Common Infrastructure (GCI) featuring a Service Oriented Architecture model involving many loosely coupled applications and services. By adopting appropriate standards in line with the GCI, relevant data services can be brought together and integrated. By also conforming to the GCI, the GPAAMP Viewer application presented here can be integrated as a component of the DOPA.

### GPAAMP Viewer Development

The development of the GPAAMP Viewer focuses on two areas: i) the web-based GIS client application and its customisation for African protected areas, ii) the data services that can be consumed and processed for presentation by the web-based GIS client (see reverse side for list).

### Availability

The GPAAMP Viewer is an Open Source application and freely distributable. Please check the Global Biodiversity Information Facility (GBIF) tools web site (<http://tools.gbif.org/gpaamp-demo>) for further information, documentation and source code.

*The GPAAMP Viewer is a freely distributable, standards-based, Open Source, web-based GIS client. Supporting viewing and download services, it functions primarily as a means for visualising information from disparate sources delivered through standards-based web services.*



#### Web Service Providers

Web services used by the GPAAMP Viewer have been provided by the following parties, several of which are supported through EuroGEOSS.

#### GBIF

Open Geospatial Consortium (OGC) Web Map Service (WMS) and Web Feature Service (WFS) of African taxon occurrence data (<http://www.gbif.org>)

#### USGS

OGC WMS of world ecosystem classification maps (<http://www.usgs.gov/>)

#### UNEP-WCMC

OGC WFS of World Database of Protected Areas (<http://www.unep-wcmc.org/>)

#### BirdLife/Royal Society for the Protection of Birds

OGC WFS of various types of bird distributions including breeding areas, migration paths, wintering grounds (<http://www.birdlife.org/>; <http://www.rspb.org.uk/>)

#### Joint Research Centre of the European Commission

An alert service (KML format) on the status of African protected areas including drought, fire, etc. (<http://ec.europa.eu/dgs/jrc/>)

#### CIESIN

OGC WMS of disasters, human pressures on African protected areas (<http://www.ciesin.columbia.edu/>)



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