The GEOSS Portfolio for Science and Technology

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Featuring:

Biodiversity: GEO Protected Areas Assessment & Monitoring Pilot: The GRAAMP Viewer
GEO Protected Areas Assessment & Monitoring Pilot: The GPAAMP Viewer

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

GPAAMP

GPAAMP is a proposal for a GEO BON “early product” led by the Joint Research Centre of the EC (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 partly through the EU-funded EuroGEOSS project (www.eurogeoss.eu), “a European contribution to GEOSS”.

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.
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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.
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GPAAMP Viewer Development

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. The GPAAMP Viewer application presented here, by also conforming to the GCI, can be integrated as a component of the DOPA.
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Availability

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