

# IMS4 Maps

IMS4 Maps is a tool for processing, editing and sharing on the web of the geospatial data, both static data sets (topography) as well as current, historical or forecast, surface or upper air meteorological, climatological, hydrological, radiation and/or other environmental ones.

## Data Inputs

Integrating the best of the IT as well environmental science worlds, IMS4 Maps process the data in numerous formats:

- SQL geospatial data such as PostGIS, Oracle Spatial, ArcSDE
- Shapefiles, GeoTIFF, JPEG2000
- GTOPO30, ECW, MrSID
- Web based maps such as OpenStreetMaps, Google Maps, Bing Maps, etc.
- OPMET data such as SYNOP, METAR/SPECI, TAF, SIGMET, IWXXM, etc.
- NWP/dispersion/climatic/marine model data such as GRIB, GRIB2, NetCDF
- Weather radar data such as BUFR (OPERA), HDF
- Radiation data such as ANSI N42.42
- Satellite data such as XRIT (EUMETSAT, HIMAWARI, COMS)

## Data Output

The IMS4 Maps produces the data in KML, GML, Shapefile, GeoRSS, GeoJSON, PDF, JPEG, GIF, PNG, SVG and more formats on output. The 2D data sets can be displayed in the forms of the colored fields, isolines, wind barbs. In addition, one can edit data via the WFS transactional profile (WFS-T). Although IMS4 Maps come with the integrated web client for previewing data layers, thanks to compliance with the OGC standards any OGC web service enabled client software can access the IMS4 Maps server.

## IMS4 Maps Client

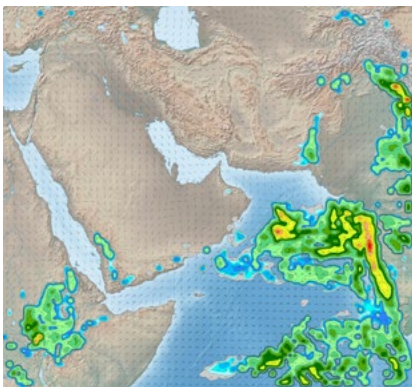
The built-in IMS4 Maps web client provides users with an easy-to-use interface to access, browse and animate various data layers which include but are not limited to:

- Overlay, switch on/off, reordering of the layers
- Setting layer transparency
- Applying custom filtering and styles to layers for enhanced visualization
- Zoom in/zoom out, pan, rotate functionality
- Browsing the model data through model runs, forecast times, vertical coordinates
- Smart tooltips showing the actual values, trends or additional information
- Time dimension animation over multiple layers simultaneously
- Measurement of distances, areas etc. with option to select the specific unit.

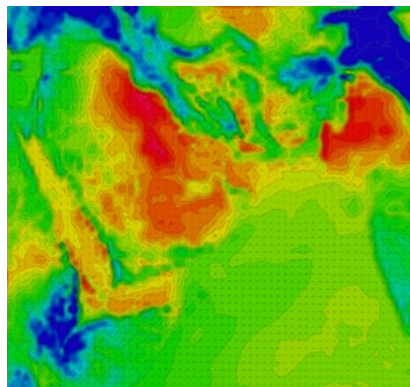


## Compliance with Standards

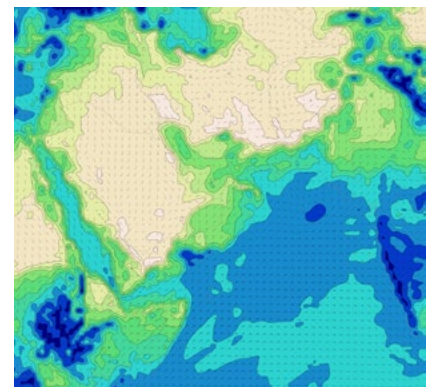
- ICAO Annex 3 Meteorological Service for International Air Navigation
- WMO No. 306 Manual on Codes
- OGC Web Map Service 1.3.0, 1.1.1
- OGC Web Feature Service 2.0.0, 1.1.0, 1.0.0
- OGC Web Coverage Service 2.0.1, 1.1, 1.1.1, 1.1.0, 1.0.0
- OGC Web Process Service 1.0.0
- ISO 19142 = WFS 2.0.0
- ISO 19128 = WMS 1.3.0



Wind and Precipitation



Wind and Temperature



Wind and Relative Humidity