OGC SERVICES - WMS

The Open Geospatial Consortium (OGC) has defined Web Mapping Service (WMS) specification protocols for the transfer of geospatial data from servers to client applications. A Web Map Service (WMS) produces *an image* (e.g. GIF, JPG) of geospatial data.

1. URL list

WMS gives clients access to an image of data without storing a local copy of the dataset. Using a specially structured http request, you can call a dataset into your GIS software application.

1.1. Mediterranean Sea and Black Sea scale

Base map
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/BaseMaps_36/MapServer/WMSServer?
Elevation
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Elevation_37/MapServer/WMSServer?
Sea regions
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/SeaRegions_38/MapServer/WMSServer?
Maritime units
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/MaritimeUnits_39/MapServer/WMSServer?
Socioeconomics
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Socioeconomics_45/MapServer/WMSServer?
Threats
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Threats_47/MapServer/WMSServer?
Geology
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Geology_46/MapServer/WMSServer?
Oceanography
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Oceanography_43/MapServer/WMSServer?
Biodiversity
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Biodiversity_51/MapServer/WMSServer?
Habitat suitability
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/HabitatSuitability_48/MapServer/WMSServer?
Habitat and biotopes
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/HabitatsAndBiotopes_40/MapServer/WMSServer?
Mediterranean Sea – wind
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Mediterranean_Sea_-_Wind_61/MapServer/WMSServer?
Black Sea – SeaWindII
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Black_Sea_-_SeaWind_II_62/MapServer/WmsServer?
Offshore Wind Farms
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/OffshoreWindFarms_60/MapServer/WMSServer?
Protected sites
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/ProtectedSites_44/MapServer/WMSServer?

1.2. Pilot project areas scale

Elevation
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Elevation_53/MapServer/WMSServer?
Oceanography
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Oceanography_58/MapServer/WMSServer?
Habitat mapping
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/HabitatMapping_57/MapServer/WMSServer?
Connectivity
http://gismarblack.bo.ismar.cnr.it:6080/arcgis/services/published_moka/Connectivity_59/MapServer/WMSServer?

2. How to use WMS services

To connect to a WMS, select and copy a WMS link and paste the link where your software asks to specify a WMS URL. The next two paragraphs show how to use WMS services in ArcGIS (ESRI) and QGIS (Free and Open source).

2.1.   ArcGIS

- Click "Add Data" and in the "Look In" window, scroll down near the bottom to "GIS Servers"
- Choose "Add WMS Server"
- In the window that opens (Fig1), copy/paste the WMS URL link and click "Get Layers" to initiate a connection. Once the Server Layers window is populated, click OK.
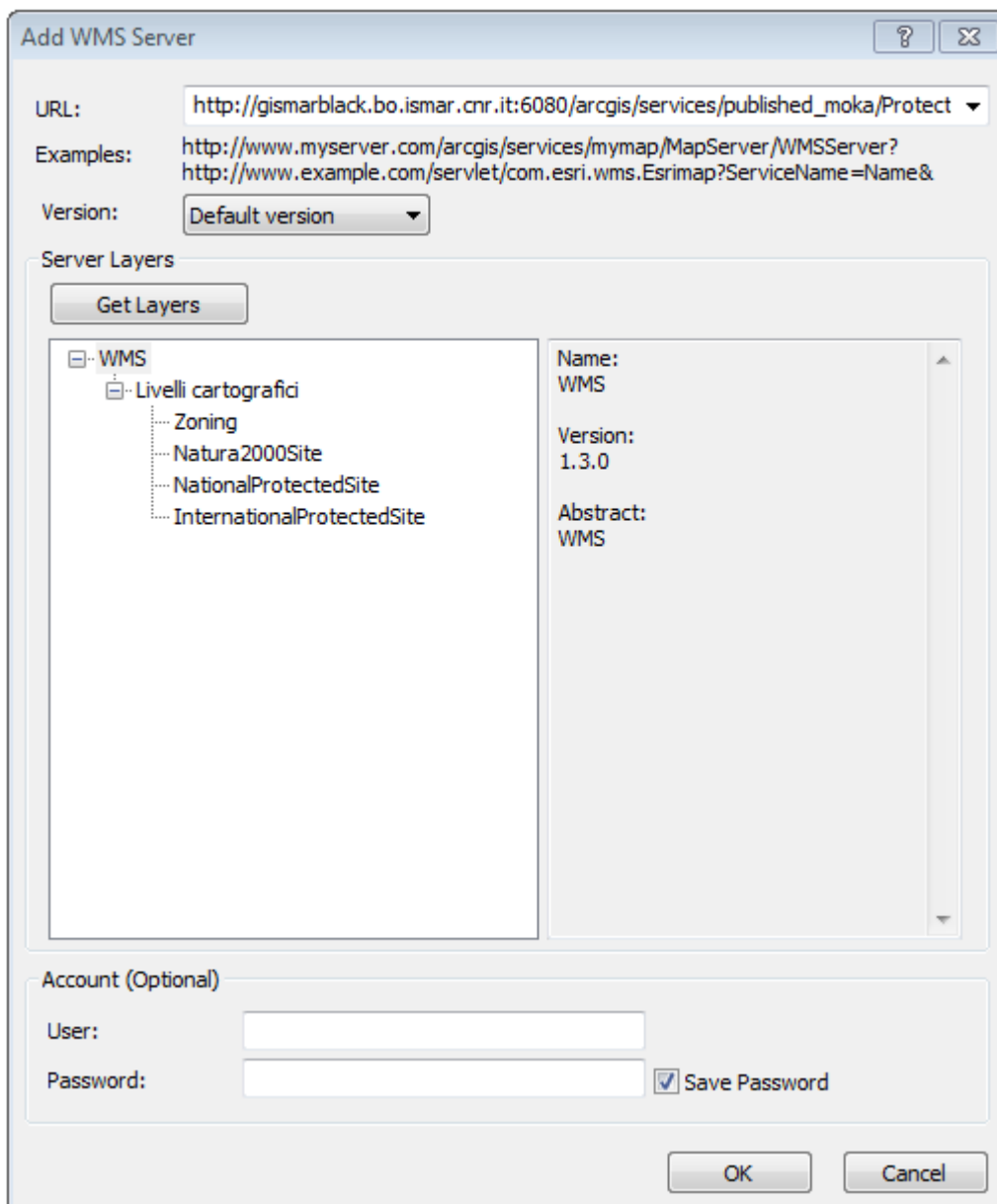
Fig1. "Add WMS Server" window.

2.2. QGIS

- Click "Add WMS/WMTS Layer"
- Choose "New"
- In the window that opens (Fig2), copy/paste the WMS URL link and click OK.
- Click "Connect" and once the Layers window is populated, select the layer(s) of interest and click ADD (Fig3).
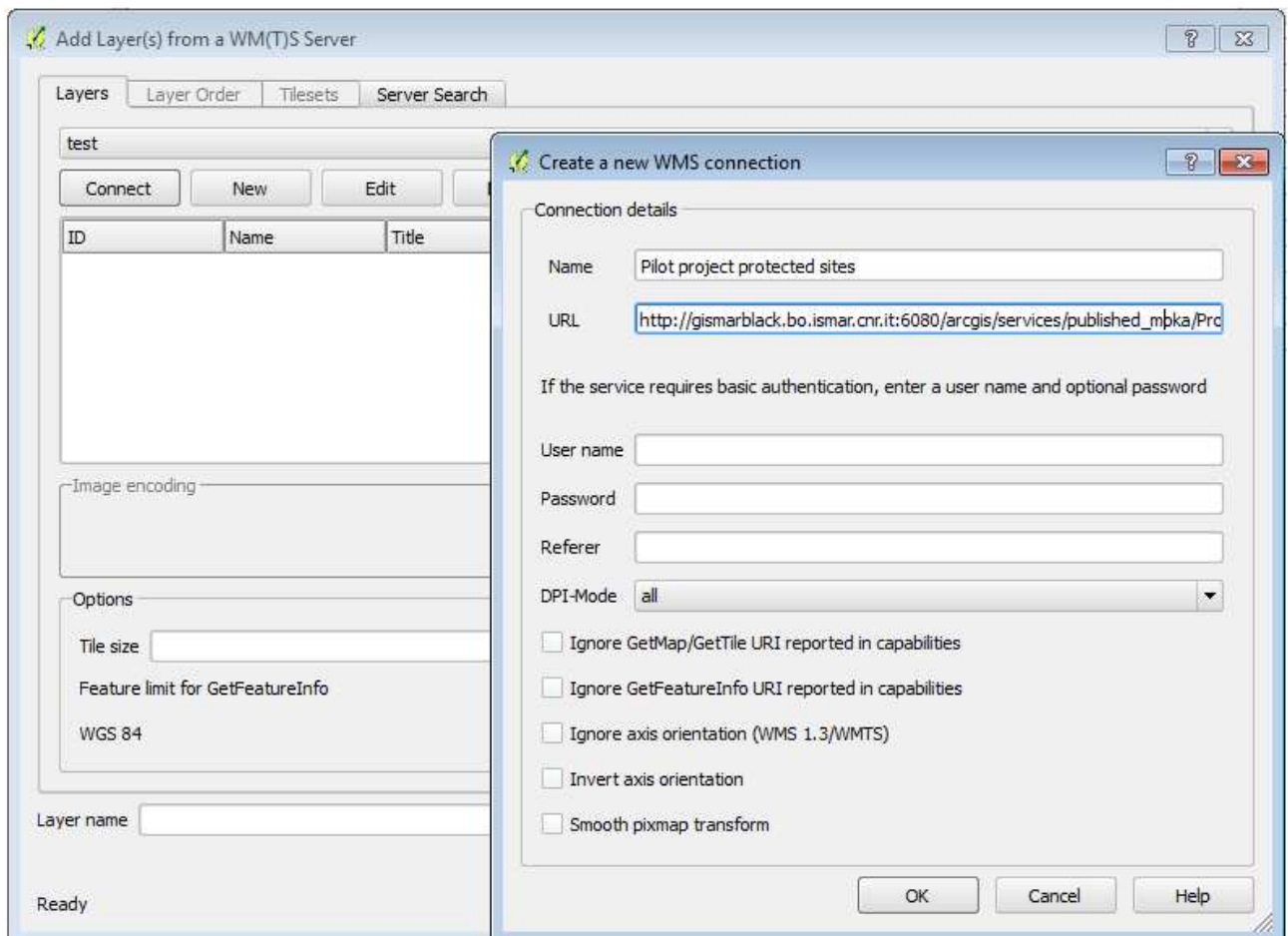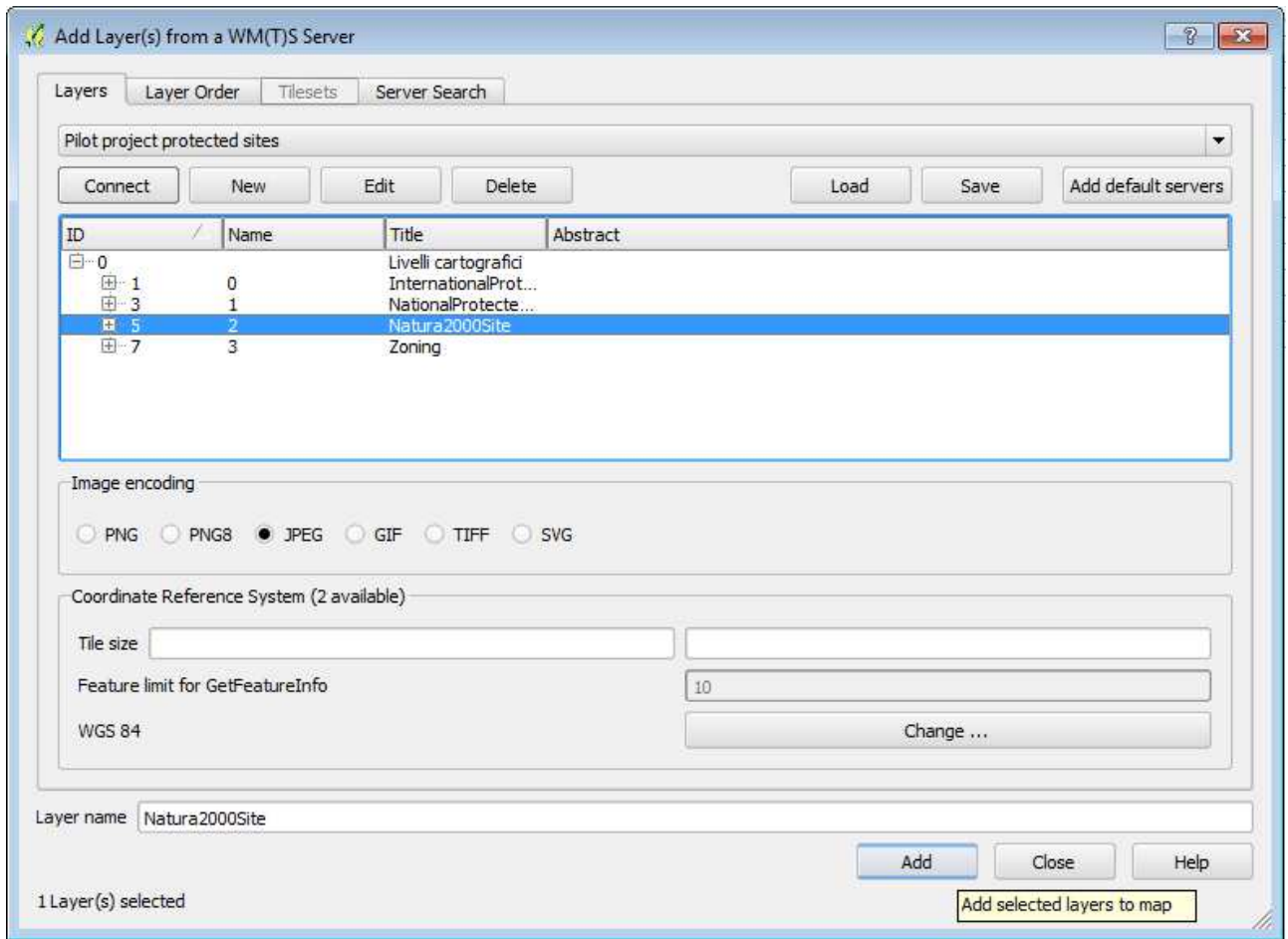

Fig2. "Create a new WMS connection" window.

Fig3. "Add Layer(s) from WM(T)S Server" window.