

QGIS: How to Add Data

Raster:

1. Download Data
 - a. It is recommended to create a folder to store your data to save time from looking around generalized folders such as the download folder
2. Click on the top menu bar Layers Add Raster
3. NetCDF can have both single-variables or multiple variables within the file
 - a. If there is only one variable, it will automatically be loaded in
 - b. If there are multiple variables, you will be prompted to select the layers that you want to load in
 - i. This can take the form of different variables, but each time step is also displayed as individual variables
 - c. You can alter the way which a layer is displayed by accessing its style properties
 - i. Right-click a layer Properties
 - ii. Under the Style tab, you can specify Min/Max values, Contrast Enhancement, and Color Gradient

NetCDF:

There are two main ways to add NetCDF data in QGIS, through the add raster button, and with the [NetCDF Browser plugin](#).

NetCDF Browser Plugin:

1. Download Data
 - a. It is recommended to create a folder to store your data to save time from looking around generalized folders such as the download folder
2. Click on the top menu bar Plugins Manage and Install Plugins
3. Search for NetCDF in the search bar, and install the NetCDF Browser plugin
4. Once downloaded, click on the plugin
 - a. A select file popup will automatically appear
5. Select the desired NetCDF file
 - a. Specify the variable you want to bring in
 - b. To add in multiple time slices, select the time variable, select the individual time slices you want to add by selecting Multi-selection
6. You can alter the way which a layer is displayed by accessing its style properties
 - a. Right-click a layer Properties
 - b. Under the Style tab, you can specify Min/Max values, Contrast Enhancement, and Color Gradient

Shapefiles

1. Download the data locally
2. In the Menu, click Layer Add Layer Add Vector Layer
3. Click Browse and select the layer you would like to add, and click okay

Web Services

1. On the Menu, click Layer Add Layer
2. Add WMS/WMTS Layer (or other service type)
3. Click "New" to add a new end point using the specific URL
4. Click "Connect" to access the services available
5. Identify the services of interest and "Add" to see them display in the map viewer