

Uploading a custom layer

How can I upload a custom layer?

There are multiple ways to upload your custom layers to the map. We currently support three standards: GeoJSON, Web Map Services (WMS) and Rasters.

Below you will find some notes on how to add each of these types.

GeoJSON:

1. Upload a GeoJSON file to any online storage location like GeoJSON.io, Dropbox, or Google drive.
2. Copy the link to that uploaded file. Make sure that when you paste that link in the browser you download the GeoJSON and you don't trigger any preview mode.
3. In the Global Fishing Watch map toolbox, open the 'Layers' tab.
4. Click on Custom Layer.
5. Click on GeoJson radio button.
6. Add a custom layer in Global Fishing Watch, pasting your GeoJSON link.
7. Customize the layer color, opacity and name.

A trick to uploading your GeoJSON file is to upload it to your Google Drive, and change the sharing setting to 'Anyone on the internet can find and view.' Copy the link to your file in your Google Drive. It should look like this example:

https://drive.google.com/file/d/1FokdeMwUm0rpztpY_1WAskNTL--8Hp5/view?usp=sharing

Copy the **id** of the file from the URL (marked in bold in the example) into a new URL which should be used as your GeoJSON URL in our map.

This URL format will be:

https://drive.google.com/uc?id=<the_id_of_your_file>&export=download

WMS:

1. In the Global Fishing Watch map toolbox, open the 'Layers' tab.
2. Click on Custom Layer.
3. Click on WMS radio button.
4. Add a WMS source url. It usually has the following format: [https://\[DOMAIN\]/\[PATH\]/wms](https://[DOMAIN]/[PATH]/wms). For security reasons we only support services with SSL.
5. If the server provides multiple layers you will get a list of all layers where you can select one or multiple ones.
6. Customize the layer color, opacity and name.

Raster:

1. In the Global Fishing Watch map toolbox, open the 'Layers' tab.
2. Click on Custom Layer.
3. Click on Raster radio button.
4. Add a Raster source url. It usually has the following format: [https://\[DOMAIN\]/\[PATH\]/{z}/{y}/{x}.jpg](https://[DOMAIN]/[PATH]/{z}/{y}/{x}.jpg). For security reasons we only support services with SSL.
5. Customize the layer color, opacity and name.

Example:
Uploading
a raster

Use the Raster option for data that can be consumed as tiles. The box expects the standard url template with XYZ parameters.

1. In the Global Fishing Watch map toolbox, open the 'Layers' tab.

2. Click on Custom Layer.

3. Click on Raster radio button.

4. Type in `https://map1.vis.earthdata.nasa.gov/wmts-webmerc/VIIRS_CityLights_2012/default/GoogleMapsCompatible_Level8/{z}/{y}/{x}.jpg`

5. Label 'NASA.'

6. Hit 'done.'

