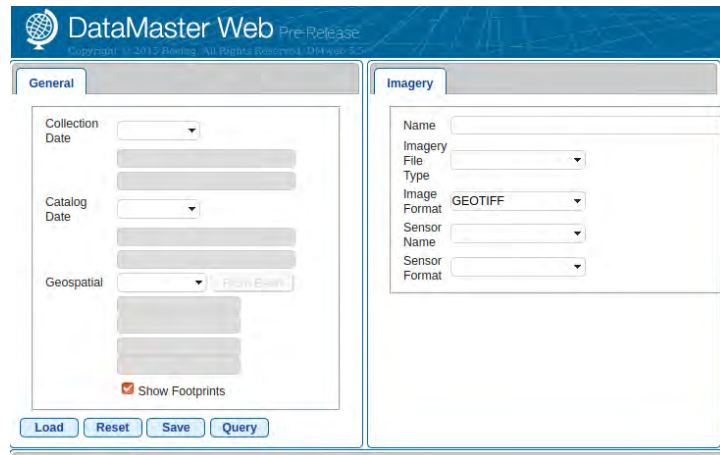



GHGSat Data Samples

I. Download through Datamaster

- 1) Login into **Datamaster**: <https://datamaster.ghgsat.com/DMweb> with the provided credentials.
- 2) Make sure that the fields in the **General** and **Imagery** tabs are left with their default values, as shown in the image below.



- 3) Click on the **Query** button.
- 4) A file should appear in the **Imagery results** tab, as shown in the image below.

| Imagery Results | | | | | | |
|--------------------------|---|---|---|-----------------------|------------------|--|
| Action | Image | Footprint | Name | Catalog Date | Group | |
| <input type="checkbox"/> |  | POLYGON((26.51829N 13.261774E),(26.52089N 13.330799E),(26.52089N 13.330799E),(26.51829N 13.330799E),(26.51829N 13.330799E)) | GOSW1_SONL7Q0RUJ20050L_CON001700019_COLW1_TIFF_L1_F32 | 11-May-2020 20:58:00Z | sample_tum_range | |

- 5) Select the listed file, using the checkbox to the left, and click on **Download Selected**.
- 6) A window will open, make sure that the **Output File Format** is set to "As Is". Click on the **Download** button.
- 7) You will be prompted by a window asking you to save a compressed file. Choose **Save**.

You will have downloaded a compressed *zip* file. Within this file, you will find the selected file and another compressed *zip* file. The second *zip* file contains all the images associated with the GHGSat observation/sample. A more detailed description of the data is provided in the following section.



II. Data Description

The following describes the files included in the compressed file (*zip*). Please note that:

- The data provided all correspond to **Level 2** processing data.
- The **L*** in the name of the file stands for “Layer”.
- The **M*** in the name of the file stands for “Map”.

a. Surface Reflectance Image (L1)

Atmospherically corrected, per-pixel apparent surface reflectance at 1650 nm.

b. Abundance Dataset

- Per-pixel CH₄ excess column-averaged mixing ratio (L2)
- Per-pixel CH₄ measurement uncertainty (L3)
- Quality flags (L4)

c. Concentration Map (M1)

High readability pseudo-color map in PNG format, combining in the background the surface reflectance image (L1) and in the foreground, the excess column-averaged mixing ratio (L2).

d. Metadata

- A metadata file describing the imagery / data.
- A Browse image or thumbnail of the surface reflectance layer.
- End User License Agreement.