

FAO Downloader User Manual

Version 1.0

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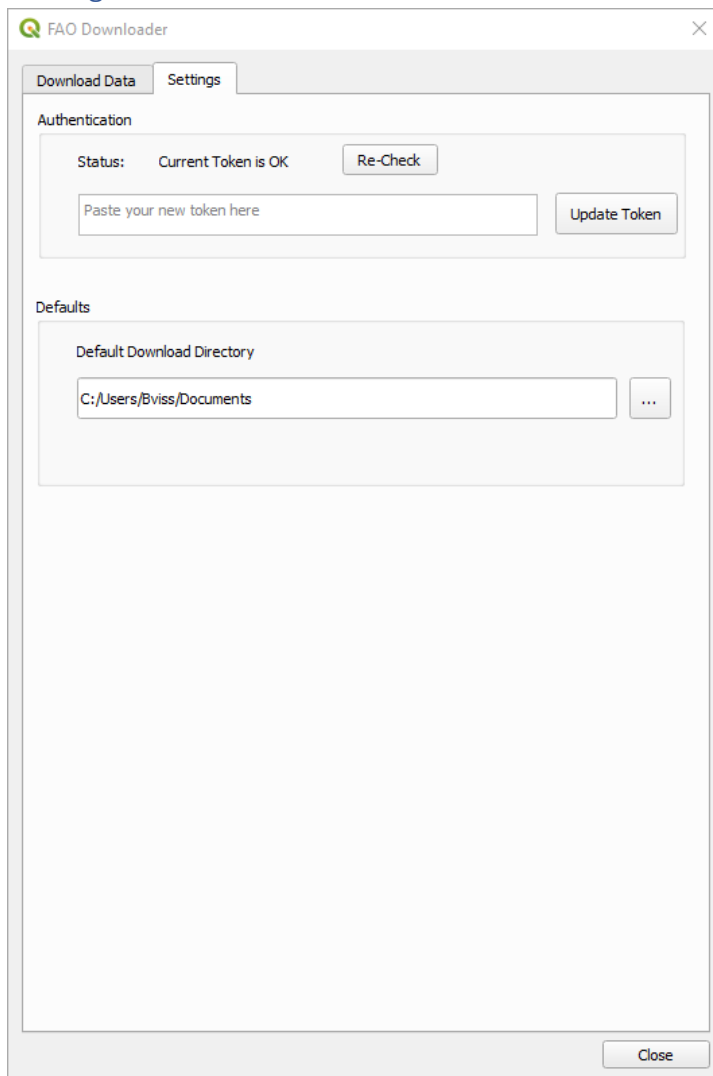
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Installation Guide

Currently the Plugin is unavailable through the standard QGIS plugin installer. To install the plugin copy the main fao_downloader folder into the QGIS plugin folder. Then the plugin can be enabled by opening the QGIS plugin manager.

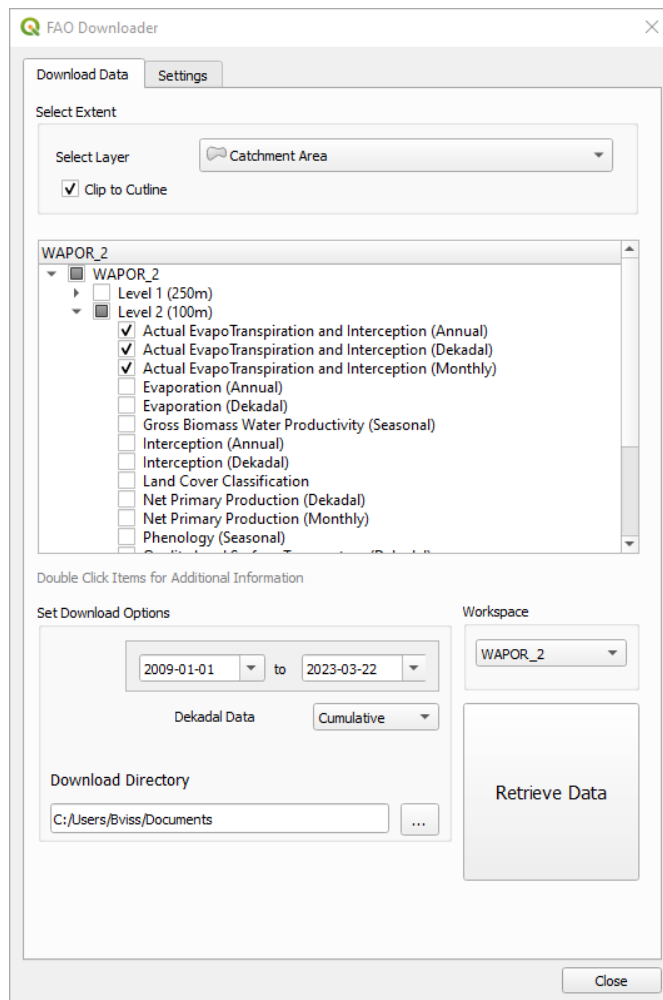
User Guide

Settings Tab



- Settings tab you need to enter your wapor ID which you can retrieve from <https://wapor.apps.fao.org/sign-in>. The program will save this for next you start the program.
- Set the default download directory which will then set the download directory on the main page next time you launch the plugin.

Download Data Tab



- Select the layer which will define the study region
 - Must be a single Polygon layer, multiple polygons on the layer will not work.
 - Clip to Outline checkbox will cut the downloaded raster to match the study region dimensions. Left unchecked you will receive a rectangular raster for your study region.
- Select which workspace you need data from.
- Expand the tree of checkboxes in the center to select which datasets to download.
 - Double click on any of the items in the tree to get additional information on any of the items.
- Define the date range and download directory.
 - For WaPOR data there is a specific option to define the format of the Dekadal data. By default, the FAO supplies this data as an average. The option has been given to transform this into a cumulative format.
- Finally, Hit the Retrieve Data button to start the download.
- Within the download folder you will find the saved rasters along with CSV file which contain a list of rasters downloaded, which also may contain some addition information about the rasters depending on the data selected.

The following table defines the time range required to select available data. At this point in time there is no way for the program to know the time range of available rasters. This table is based manual testing of several sample raster sets from each of the following data sets to determine the date ranges of available data. This list may not be entirely accurate, and if users need data from outside this range, can enter in a wider time range to test if data is available. For datasets with a time range of NA, the date range does not affect what files will be downloaded

Full name	Time Range
Global spatial database on water and agriculture (AQUAMAPS)	1990
Agriculture Stress Index System (ASIS)	1984- Current
Climate Change ATLAS (C2ATLAS)	NA
Copernicus Climate Change Service (C3S)	1979 - Current
Climate Hazard group InfraRed Precipitation with Stations (CHIRPS)	1981 - Current
CropWatch	Unknown
Climate Risk Toolbox (CRTB)	NA
Desert Locust Monitoring and Forecasting (DLMF)	2018-2021
FAO Corporate Statistical Database (FAOSTAT)	1992 - 2018
Finer Resolution Observation and Monitoring of Global Land Cover (FROM-GLC)	2001 - 2018
Global Agro-Ecological Zones (2015) (GAEZ_2015)	2015
Global Agro-Ecological Zones (2021) (GAEZ_V4)	2021
FAO GIS MANAGER (GISMGR) - Test and training workspace	Variable
Global Livestock Environmental Assessment Model (GLEAM3)	2015
Gridded Livestock of the World (GLW)	2010
Gridded Livestock of the World (GLW3, 2010)	2010
Gridded Livestock of the World (GLW4, 2015)	2015
International Water Management Institute (IWMI)	NA
National Aeronautics and Space Administration (NASA)	Unknown
Natural Earth	Unknown
North American Multi-Model Ensemble (NMME)	NA
Regional Drought Monitoring System (RDMS)	2000 - Current
Regional Arab Climate Change Assessment Report (RICCAR & RICCAR2)	1951 - 2100
Crop Pest and Disease Monitoring and Forecasting System (RSCROP)	2021 - Current
Rift Valley Fever (RVF)	2003 - Current
FAO Water Productivity Open-access portal (WAPOR)	2009 - Current
Water Data (WATER)	2009 - Current
WorldPop Project (WPOP)	2000 - Current

The following datasets are not accessible at the moment due to certain limitation of the plugin. Those are CROPWATCH, NASA, NATURAL_EARTH, and RICCAR2. This will hopefully be rectified in future versions of the plugin.