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[**Water Point (WP)**](#_1jlao46) **1**

[Daily](#_43ky6rz) 1

[Africa](#_2iq8gzs) 1

[Map viewer](#_1a06tuqhn0gf) 1

[Python script(s)](#_3hv69ve) 1

[Products](#_1x0gk37) 2

[Command line](#_4h042r0) 2

[Powershell script path](#_bkk78d69ibjp) 2

[Windows Task Scheduler](#_2w5ecyt) 2

[Full documentation](#_p40a5094duy9) 3

# Water Point (WP)

## **Daily**

### **Africa**

#### Map viewer

<https://earlywarning.usgs.gov/fews/waterpoint/index.php>

#### Python script(s)

Location in “bin” folder → D:\FEWS\DataPortal\bin\africa\daily\waterpoint

* africa\_daily\_water\_point\_config.py → Configuration file.
* africa\_daily\_water\_point.py → get RFE data, run WP model by subregions, format TXT output, and update the WP database for the map viewer.
* In case that the different processes for getting RFE data, run the model, and updating the database for the map viewer need to be run separately, the script above can run by steps using the input argument Steps
	+ 0 - run all steps
	+ 1 - create projected ESRI Grid from RFE Bil
	+ 2 - run waterpoint model
	+ 3 - Format model output to '.txt'
	+ 4 - update PostgreSQL with latest data .txt data

Python script required from “lib” folder → daily\_waterpoint\_process.py

**Important Note:** The bin python script “africa\_daily\_water\_point.py” requires to run it using a 64-bit python 2.7.18 conda environment which is integrated with the ArcGIS 10.x python model (arcpy). This requirement allows the process step (4) to run the DB updates.

#### Products

|  |  |
| --- | --- |
| Txt files | D:\FEWS\DataPortal\data\Africa\Daily\WaterPoint\txt\scaled\_<point\_no> |
| Final depth Grid | D:\FEWS\DataPortal\data\Africa\Daily\WaterPoint\final\_depth\DailySampleGrid\<region>\dptm\_<yymmdd> |
| Daily Sample Data | D:\FEWS\DataPortal\data\Africa\Daily\WaterPoint\final\_depth\DailySampleData\<region>\fianlDepthTable\_<yymmdd> |

#### Command line

USAGE: <python> africa\_daily\_arc2.py [Steps] <YYYY> <M> <D>
 Where
 Steps is the processing steps

0 - run all steps

1 - create projected ESRI Grid from RFE Bil

2 - run waterpoint model

3 - Format model output to '.txt'

4 - update PostgreSQL with latest data .txt data

 YYYY is the 4-digit year
 M is the the month of the year (1-12)
 D is the the day of the month (e.g. 1-30 for Jan)

 YYYY M D is an optional input, so the default input information is today's date

**Example**

> africa\_daily\_water\_point.py 0 2014 3 6

OR

> africa\_daily\_water\_point.py 1 2014 3 6

> africa\_daily\_water\_point.py 2 2014 3 6

#### Powershell script path

D:\Sch Tasks\FEWS\_NET\_Tasks\Daily\_Water\_Point\_Africa.ps1

This Powershell script creates a Windows scheduled task. Namey, the scheduled task for WP. It is housed inside the FEWS\_NET\_Tasks folder

#### Windows Task Scheduler

Daily\_Water\_Point\_Africa windows scheduled task using python script with input argument

D:\conda\envs\arc1031x64\python.exe ‘D:\FEWS\DataPortal\bin\africa\daily\waterpoint\africa\_daily\_water\_point.py 0’

runs at **2:30** **PM** every day.

#### Full documentation

[SOP](https://doimspp.sharepoint.com/sites/GS-EROSSCIENCESWI/_layouts/15/SkySyncRedir.aspx?Type=2&ResourceId=e93ecb4248834eb88120116a5b345d2b)