

# Daily GFS Pars

GFS = Global Forecast System

Pars = (Climate) Parameters

# Prerequisites

Same as the Daily GFS Prec:

## Run dates:

- a. Operational run process date comes from the system date and it will be the same used for the web products.  
Example: scheduler task for Sep 25, 2019 = PPG output for Sep 25, 2019
- b. Manual run download using the user-defined date input arguments. Web product date will be the user-defined date.  
Example: scheduler run for Sep 17, 2019 = PPG output for Sep 17, 2019

**Important Note:** No web products are created from this process.

# Global Daily GFS (Clim)Pars

## Main script process steps

1. Downloads source (raw) data from NOAA NCEP (1 file/6 hourly day = 308 files) and compress all files in a TAR GZ file

## Python scripts used in the process

- D:\FEWS\DataPortal\_iraq\bin\global\daily\gfspars\global\_daily\_gfs\_pars\_config.py - Configuration file
- D:\FEWS\DataPortal\_iraq\bin\global\daily\gfspars\global\_daily\_gfs\_pars.py - Main script
- D:\FEWS\DataPortal\_iraq\lib\daily\_gfs\_process.py (uses other lib scripts)

## Products

**Download** → D:\FEWS\DataPortal\_iraq\data\Global\Daily\GFSPars\raw\gfsp\_YYYY(TAR GZ files)

## Command line

USAGE: D:\FEWS\DataPortal\_iraq\bin\global\daily\gfspars\global\_daily\_gfs\_pars.py YYYY M D

where YYYY is the 4 digit year .. M is the 1-2 digit of the month (1-12).. and D is the 1-2 digit of the day (1-31). YYYY M D is an optional input, so the default input information is today's date.

## Example

```
> global_daily_gfs_pars.py 2013 9 9
```

# Windows Scheduler Task setup

For operational runs we will reuse the **Daily GFS ClimPars** to run using Global bin main script at **4:30 AM (CT)** every day of the month.

- `D:\FEWS\DataPortal_iraq\bin\global\daily\gfspars\global_daily_gfs_pars.py`

## Steps:

1. Open Scheduler Task
2. Go to folder "Iraq\_Tasks". If the folder does not exist, create it under "Task Scheduler Library"
3. Right click on "Iraq\_Tasks" folder and click on "Create Task"
4. Under General
  - a. Set up Name: **Daily GFS ClimPars** (required) and Description (optional)
  - b. Click on "Run whether user is logged on or not"
  - c. Check option "Run with highest privileges" (*may need to be unchecked if scheduled task does not run*).
5. Under Triggers
  - a. Click on New and set it up based on the information above
6. Under Actions:
  - a. Click on New and add the 2 python scripts paths described above in the exact order
7. Under Settings:
  - a. In the checked "Stop the task if it runs longer than:", select 2 hours.

After creating the scheduler task, it can be exported as an XML to be used in another system.

# Exercise

- After creating a Windows Scheduler Task, right click on Task and select Run
- Manual run for a Sep date (09/17/2019-09/25/2017)

```
D:\FEWS\DataPortal_iraq\bin\global\daily\gfspars\global_daily_gfs_pars.py 2019 9 17  
...  
D:\FEWS\DataPortal_iraq\bin\global\daily\gfspars\global_daily_gfs_pars.py 2019 9 25
```

- Manual run to get an incomplete run.

```
D:\FEWS\DataPortal_iraq\bin\global\daily\gfspars\global_daily_gfs_pars.py 2019 12 31
```

# References

- Global Forecast System (GFS) Climate Parameters - Iraq PPG documentation