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## Global Forecast System (GFS) Precipitation

### Point of contacts for Missing Source Data

#### NOAA

Primary Contact: Vadlamani Kumar ([vadlamani.kumar@noaa.gov](mailto:vadlamani.kumar@noaa.gov)) 301-683-3462

Secondary Contact: Nick Novella ([nicholas.novella@noaa.gov](mailto:nicholas.novella@noaa.gov)) 301-683-3458

Daily Global GFS precipitation (GFS Prec) forecast data - 7 files/day

### Subscription list for source site/data updates

GDAS and GFS - (we do not get the GFS data from here, from Kumar and Nicolas) -

<https://www.lstsr.noaa.gov/mailman/listinfo/ncep.list.nomads-ftpprd>

### Batch python script for manual recovery or operational processing

Location: D:\FEWS\DataPortal\bin

allregions\_daily\_gfs.py : runs daily GFS Prec processes for different regions. Needs to be sure to run the global raw data is available for the different regions.

USAGE: allregions\_daily\_gfs.py [4-digit-year] [month(1-12)] [day(1-31)]

## Daily

### Windows Task Scheduler

**Daily GFS Prec** windows scheduler task runs the Global and Iraq bin main scripts at **4:15 AM (CT)** every day of the month.

- D:\FEWS\DataPortal\bin\global\daily\gfs\global\_daily\_gfs.py
- D:\FEWS\DataPortal\bin\middleeast\iraq\daily\gfs\iraq\_daily\_gfs.py

### Full Documentation

Find this document under the “additional\_docs” folder.

### Global

#### FTP link to raw data

[ftp://ftp.cpc.ncep.noaa.gov/International/gfs\\_00z\\_25km/for\\_usgs/](ftp://ftp.cpc.ncep.noaa.gov/International/gfs_00z_25km/for_usgs/) (new since Jan. 16, 2015, unflipped source data). Before Jan. 16, 2015 source data was 37km and flipped from [ftp://ftp.cpc.ncep.noaa.gov/International/gfs\\_00z\\_37km/for\\_usgs/](ftp://ftp.cpc.ncep.noaa.gov/International/gfs_00z_37km/for_usgs/).

Backup site:[ftp://ftp.cpc.ncep.noaa.gov/International/gfs\\_00z\\_25km/for\\_usgs/](ftp://ftp.cpc.ncep.noaa.gov/International/gfs_00z_25km/for_usgs/) - when Kumar is not available and NOAA collaborators has notified the missing data is placed in this back up site.

#### Python script(s)

Location in “bin” folder → D:\FEWS\DataPortal\bin\global\daily\gfs

- global\_daily\_gfs\_config.py → Configuration file.
- global\_daily\_gfs.py → Download source (raw) data from NOAA and converts it to geoBIL for each forecast day.

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

#### Products

**Download** → D:\FEWS\DataPortal\data\Global\Daily\GFSM\raw\YYYY (GZ files)

**BIL product** → D:\FEWS\DataPortal\data\Global\Daily\GFS\geobil\YYYY (TAR.GZ files)

**Graphics** → D:\FEWS\DataPortal\data\Global\Daily\GFS\graphics (PNG files)

#### Command line

USAGE: global\_daily\_gfs.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.py 2013 9 9
```

## Iraq (Iraq Tigris-Euphrates)

Product page(s) with documentation

<http://earlywarning.usgs.gov/fews/product/74>

Python script(s)

Location in “bin” folder → D:\FEWS\DataPortal\bin\asia\middleeast\iraq\daily\gfs

- iraq\_daily\_gfs\_config.py → **Configuration file.**
- iraq\_daily\_gfs.py → **create geoBIL zip using the Global geoBIL zip as input and creates 6-days map graphic and uploads graphic to web server.**

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

Products

BIL product → D:\FEWS\DataPortal\data\MiddleEast\Iraq\Daily\GFS\geobil\YYYY (TAR.GZ files)

Graphics → D:\FEWS\DataPortal\data\MiddleEast\Iraq\Daily\GFS\graphics (PNG files)

Command line

USAGE: iraq\_daily\_gfs.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**

```
> iraq_daily_gfs.py 2013 9 9
```