FTP access to CAMS GFAS data

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> ⊘ **From 18th October at 15:00UTC**, our **FTP server has changed** from ftp://dissemination.ecmwf.int **to** ftp://aux.ecmwf.int
>
> From 18th October 15:00UTC, **no new data** will be published on **dissemination.ecmwf.int**

Scope

The ECMWF FTP service provides access to real-time data from the CAMS Global Fire Assimilation System (GFAS). The description of GFASv1.2 can be found here . For other data access options please see here.

Please see see the list of available variables below and make sure your variables of interest are available.

User accounts

To get access to CAMS GFAS data, you need user accounts on the ECMWF website, and on the ECMWF FTP service.

1. Log on to www.ecmwf.int. (If you do not have an account create one)
2. Read the CAMS data licence and accept the license at the bottom of the page.
3. Contact us by creating a ticket through the ECMWF Support Portal (Charts and Data > Get our products), providing
   a. the user name you used to log into www.ecmwf.int and accept the license
   b. for our service planning, a brief description of how you intend to use the data

Data location

FTP server	ftp://aux.ecmwf.int
Data directory	/DATA/CAMS_GFAS/${YYYYMMDD} /DATA/CAMS_GFAS_HOURLY/${YYYYMMDD} /DATA/CAMS_GFAS_TEST/ (for test data files)
Retention policy	Data is kept for 7 days for CAMS_GFAS Data is kept for 3 days for CAMS_GFAS_HOURLY

File naming convention

The **CAMS_GFAS** file naming convention is based on WMO guidelines as follows:

```
z_cams_c_ecmf_yyyymmdd000_vvvv_tt_lt_param.[grib|nc]
```

Where:

`ecmf`	is the WMO location indicators. The list can be found here.

`yyyym mdd`	is the base date of the forecast.
`vvvv`	is a version or experiment identifier. gfas is used for GFAS products, prod will be used for operational products, test (or experiment ID) will be used for testing purposes, rean for reanalysis if needed.
`tt`	type of data, **fc** - forecast, **an** - analysis
`lt`	is the type of level. **sfc** for surface fields, **ml** for model level fields, **pl** for pressure level products,
`param`	is the parameter short name as defined here
`grib, nc`	is the format of a file, GRIB or NETCDF

The **CAMS_GFAS_HOURLY** file naming convention is based on WMO guidelines as follows:

`z_cams_c_ecmf_yyyymmddhhmm_vvvv_tt_lt_sss_param.[grib|nc]`

Where:

`ecmf`	is the WMO location indicators. The list can be found here.
`yyyymmdd hhmm`	is the base date and time of the forecast.
`vvvv`	is a version or experiment identifier. gfas is used for GFAS products, prod will be used for operational products, test (or experiment ID) will be used for testing purposes, rean for reanalysis if needed.
`tt`	type of data, **fc** - forecast, **an** - analysis
`lt`	is the type of level. **sfc** for surface fields, **ml** for model level fields, **pl** for pressure level products,
`sss`	is the forecast hour time step. For accumulation and averages, it is the end time. This number must be zero padded to 3 digits, e.g. step 24 is given as 024
`param`	is the parameter short name as defined here
`grib, nc`	is the format of a file, GRIB or NETCDF

Data organisation

The datasets are grouped by type of product (here only analysis, an), level type (here only surface parameter, sfc), by step or forecast range and by parameter.

CAMS_GFAS Example:

`z_cams_c_ecmf_20201022000_gfas_an_sfc_co2fire.grib` contains the **average** analysis field of biomass burning emissions of CO2 for 22nd October 2020 (valid from 00 UTC on 22nd to 00 UTC on 23rd).

CAMS_GFAS_HOURLY Example:

`z_cams_c_ecmf_202012280800_gfas_an_sfc_024_co2fire.grib` contains **24-hour average** analysis field of biomass burning emissions of CO2 on 28th December 2020 (valid from 08 UTC on 28th to 08 UTC on 29th).

`z_cams_c_ecmf_202012290700_gfas_an_sfc_001_co2fire.grib` contains **hourly** analysis field of biomass burning emissions of CO2 on 29th December 2020 valid at 07 UTC.

Data availability

The latest forecasts are normally available by **06:00 UTC.** After the data transfer to the ftp server is completed a manifest file is uploaded:

z_cams_c_ecmf_yyyymmddhhmmss_gfas.manifest

This is a text file which contains the list of all the files and is uploaded only when all the data is available.

List of available parameters

The list of the parameters is available here: CAMS global biomass burning emissions based on fire radiative power (GFAS): data documentation#Parameterlisting

Related articles

- CAMS: Reanalysis data documentation
- CAMS: Global atmospheric composition forecast data documentation
- CAMS Regional: European air quality reanalyses data documentation
- CAMS global biomass burning emissions based on fire radiative power (GFAS): data documentation
- CAMS solar radiation time-series: data documentation