

FTP access to CAMS GFAS data

Last modified on Oct 04, 2023 10:45

Table of Contents

- [Scope](#)
- [User accounts](#)
- [Data location](#)
- [File naming convention](#)
- [Data organisation](#)
 - [CAMS_GFAS Example:](#)
 - [CAMS_GFAS_HOURLY Example:](#)
- [Data availability](#)
- [List of available parameters](#)
- [Related articles](#)



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](ftp://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 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_yyyyymmdd000_vvvv_tt_lt_param.[grib|nc]`

Where:

<code>ecmf</code>	is the WMO location indicators. The list can be found here .
-------------------	------------------------------------------------------------------------------

yyym 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 .
yyymmdd 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](#)

This document has been produced in the context of the Copernicus Atmosphere Monitoring Service (CAMS).

The activities leading to these results have been contracted by the European Centre for Medium-Range Weather Forecasts, operator of CAMS on behalf of the European Union (Delegation Agreement signed on 11/11/2014 and Contribution Agreement signed on 22/07/2021). All information in this document is provided "as is" and no guarantee or warranty is given that the information is fit for any particular purpose.

The users thereof use the information at their sole risk and liability. For the avoidance of all doubt, the European Commission and the European Centre for Medium - Range Weather Forecasts have no liability in respect of this document, which is merely representing the author's view.

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](#)