

# FTP access to CAMS GFAS data

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From 18th October 2022 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](http://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](http://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

<b>FTP server</b>	<a href="ftp://aux.ecmwf.int">ftp://aux.ecmwf.int</a>
<b>Data directory</b>	/DATA/CAMS_GFAS/\${YYYYMMDD} /DATA/CAMS_GFAS_HOURLY/\${YYYYMMDD} /DATA/CAMS_GFAS_TEST/ (for test data files)
<b>Retention policy</b>	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 <a href="#">here</a> .
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yyym mdd	is the base date of the forecast.
vvvv	is a version or experiment identifier. <b>gfas</b> is used for GFAS products, <b>prod</b> will be used for operational products, <b>test</b> (or experiment ID) will be used for testing purposes, <b>rean</b> for reanalysis if needed.
tt	type of data, <b>fc</b> - forecast, <b>an</b> - analysis
lt	is the type of level. <b>sfc</b> for surface fields, <b>ml</b> for model level fields, <b>pl</b> for pressure level products,
param	is the parameter short name as defined <a href="#">here</a>
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 <a href="#">here</a> .
yyymmdd hhmm	is the base date and time of the forecast.
vvvv	is a version or experiment identifier. <b>gfas</b> is used for GFAS products, <b>prod</b> will be used for operational products, <b>test</b> (or experiment ID) will be used for testing purposes, <b>rean</b> for reanalysis if needed.
tt	type of data, <b>fc</b> - forecast, <b>an</b> - analysis
lt	is the type of level. <b>sfc</b> for surface fields, <b>ml</b> for model level fields, <b>pl</b> 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 <a href="#">here</a>
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](#)

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## Related articles

- [Please read: CDS and ADS migrating to new infrastructure: Common Data Store \(CDS\) Engine](#)
- [How to run the WRF-Chem model using CAMS data as initial and boundary conditions \(BC\)?](#)
- [CAMS: Reanalysis data documentation](#)
- [CAMS Regional: European air quality analysis and forecast data documentation](#)
- [CAMS: Global atmospheric composition forecast data documentation](#)