

Current global production suites

This page provides an overview of the configuration of the current (pre-)operational CAMS global production suites.

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Global analyses and forecasts for aerosol and chemical species

Experiment ID	0001
Experiment CLASS	MC
IFS Cycle	48r1
Implementation date	27 June 2023 (12UTC cycle)
Resolution	T511L137 (horizontal , vertical)
Chemical scheme	CB05-BASCOE
Aerosol scheme	Bin scheme
Emissions	CAMS-GLOB-ANT 5.3 BIO3.1, GFASv1.4 (fires)
Forecast charts	AOD , PM , O3 , NO2 , CO , SO2 , UVI
Satellite monitoring charts	charts
Validation	Validation report
Data access	Data server , time-critical FTP server

Global forecasts for aerosol and chemical species without data assimilation

Experiment ID	hylz
Experiment CLASS	RD, STREAM=OPER
IFS Cycle	48r1
Implementation date	28 June 2023 (00UTC cycle)
Resolution	T511L137 (horizontal , vertical)
Chemical scheme	CB05-BASCOE
Aerosol scheme	Bin scheme
Emissions	CAMS-GLOB-ANT5.3, BIO 3.1, GFAS 1.4 (fires)
Validation	Validation report
Data access	On request
Experiment ID	hym0
Control AC climate	

Assimilated aerosol and chemistry satellite retrievals

Instrument	Satellite	Space Agency	Data Provider	Species
MODIS	EOS-Aqua, EOS-Terra	NASA	NASA	AOD
MLS	EOS-Aura	NASA	NASA	O ₃ profile

OMI	EOS-Aura	NASA	KNMI	O ₃
OMI	EOS-Aura	NASA	NASA	SO ₂
OMPS	NOAA-20*, Suomi NPP	NOAA	EUMESAT	O ₃ layers
IASI	METOP-B, METOP-C	EUMETSAT/CNES	AC-SAF	CO
MOPITT	EOS-Terra	NASA	NCAR	CO
GOME-2	METOP-B, METOP-C	EUMETSAT/ESA	AC-SAF	O ₃ , NO ₂ , SO ₂
PMAp	METOP-B, METOP-C	EUMETSAT	EUMETSAT	AOD
TROPOMI	Sentinel-5p	ESA/NSO	ESA/KNMI/DLR	O ₃ , CO, NO ₂ , SO ₂
VIIRS	S-NPP and NOAA20	NOAA	NOAA/Eumetsat	AOD

Global high resolution forecasts of greenhouse gases

Experiment ID	hlld, hueu
Experiment CLASS	RD
IFS Cycle	47R3
Implementation date	01 November 2021 (experiment hlld running on Cray up 24 October and experiment hueu running on Atos from 24 October onwards)
Resolution	Tco1279L137 (horizontal , vertical)
Emissions	CAMS-GLOBANTv5.1 (anthr.); Jena CarboScope v2021 for (ocean); GFASv1.4 (fires); online CTESSEL (land biosphere) with BFAS correction
Forecast charts	CO2 , CH4
Validation	Validation report
Data access	On request

Global analyses of greenhouse gases

Experiment ID	hlkx, hues
Experiment CLASS	RD
IFS Cycle	47R3
Implementation date	01 November 2021 (experiment hlkx running on Cray up 24 October and experiment hues running on Atos from 24 October onwards)
Resolution	Tco399L137 (horizontal , vertical)
Emissions	CAMS-GLOBANTv5.1 (anthr.); Jena CarboScope v2021 for (ocean); GFASv1.4 (fires); online CTESSEL (land biosphere) with BFAS correction
Validation	Validation report
Data access	On request

Global forecasts for greenhouse gases without data assimilation

Experiment ID	hlhc, huet
Experiment CLASS	RD
IFS Cycle	47R3
Implementation date	01 November 2021 (experiment hlhc running on Cray up 24 October and experiment huet running on Atos from 24 October onwards)

Resolution	Tco399L137 (horizontal , vertical)
Emissions	CAMS-GLOBANTv5.1 (anthr.); Jena CarboScope v2021 for (ocean); GFASv1.4 (fires); online CTESSEL (land biosphere) with BFAS correction
Validation	Validation report
Data access	On request

Assimilated greenhouse gas satellite retrievals

Instrument	Satellite	Space Agency	Data Provider	Species
GOSAT	GOSAT	JAXA	Uni-Bremen	CO ₂
IASI	METOP-A, -B, -C	EUMETSAT	LMD	CO ₂
GOSAT	GOSAT	JAXA	SRON	CH ₄
<u>IASI</u>	METOP-A, -B, -C	EUMETSAT	LMD	CH ₄