Change log for e-suite CY45R1 (gu42)

The CAMS NRT research e-suite for CY45R1_CAMS (experiment **gu42,** class **rd**) was started on 2017-11-15 for the analysis cycle 2017050100. This e-suite runs at T511L60. Main features (with new items in italics) are:

- 120 h long forecast from 00UTC and 12UTC
- IFS cycle 45R1
- IFS-TM5
- MACCity anthropogenic emissions - scaled over North America and Europe
- *interactive ozone and aerosol in the radiation code*
- *coupled ocean (NEMO) in ORCA025_Z75 configuration*
- *dynamically calculated dry deposition velocities*
- *new sea-salt emission scheme based on Grythe et al. (2014)*
- *emissions from volcanic outgassing accounting for sub-grid-scale height of source*
- GFASv1.2 fire emissions
- IFS model resolution T511L60
- analysis resolution T159/T95, using 12h 4D-Var and VarBC
- analysis windows from 15-3UTC and 3-15UTC
- time period 20170501 -
- Blacklist: default CAMS cy45r1 blacklist
- code branch: cxzk_CY45R1_COMPO_fixes
- scripts branch: cxzk_CY45R1_COMPO_fixes

Satellite data usage for atmospheric composition

Aerosol	
Assimilated:	AQUA MODIS, TERRA MODIS (including Deep Blue data), PMAp-A, PMAp-B
Monitored:	
Ozone	
Assimilated:	SBUV/2 21-layer, OMI, MLS, GOME-2A, GOME-2B, OMPS
Monitored:	SEVIRI
Carbon Monoxide	
Assimilated:	IASI-A, IASI-B, MOPITT
Monitored:	
NO2	
Assimilated:	OMI
Monitored:	GOME-2A, GOME-2B
SO2	
Assimilated:	GOME-2A, GOME-2B
Monitored:	OMI
HCHO	
Monitored	GOME-2A, GOME-2B

Changes introduced during production affecting the quality of the products

real date	exp date	description of change
20171115	2017050100	Start of e-suite
20171116	2017050500	Fixed bug in obstat_init script. Gridded stat files are now being generated for full obstat processing.

Blacklist changes

real date	expdate	description of change
20171115	2017050100	Created black_ds1943010100 from operational blacklist. Blacklist directory /home/rd/ecgems/data/45r1/an/