

Draft overview of emission files available in Quantify

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Some modellers use original (ASCII) files provided by Activity 1, while other modellers use the converted netCDF versions. This shouldn't make a difference other than different VOC partitioning.

Some modellers have used MESSy's biogenic emissions, while others have not...

In the following I'll try to summarize the availability of all kinds of emission files in Quantify as of June 1, 2008. Please send any corrections/suggestions to michael.gauss@geo.uio.no

The different file locations:

1) Al teamsite: (mostly original files)

<https://extsites.dlr.de/vf/quantify/default.aspx>
username: please contact Peter van Velthoven (velthove@knmi.nl)
password: please contact Peter van Velthoven (velthove@knmi.nl)
click on 'Deliverables (data for modellers)'

2) Mainz server: (mostly netCDF files)

ftp ftp.mpch-mainz.mpg.de
username: please contact Peter van Velthoven (velthove@knmi.nl)
password: please contact Peter van Velthoven (velthove@knmi.nl)

3) SRB server: (mostly netCDF files)

access either through UNIX/Linux (recommended) or web browser
Contact M.Gauss in case of problems

4) Aero2d website: (original 'preliminary' aircraft emissions)

<http://www.cate.mmu.ac.uk/aero2k.asp>
click on 'gridded data' in body text

ROAD emissions:

originals produced by DLR, converted into netCDF by MPI-Mainz

overview: 1) present (preliminary)
 2) present (final)
 3) future (final)

-- 1) present (preliminary):
originals (ASCII): A1 teamsite, directory:
 grid_data/present/road/draft
netCDF: Mainz server, directory:
 EMISSIONS/ROAD/DLR
 remarks: - these files should not be used anymore!

-- 2) present (final):
originals (ASCII): A1 teamsite, directory:
 grid_data/present/road
 remarks: - these files are from 25 Feb 2008, but are the
 versions from 15 Dec 2006, as the file name suggests
 - the files under 'draft' should not be used anymore
netCDF: SRB server, directory:
 /UIO/home/quantify.SRBuio/Quantify-a3/emis_present/road_final
 remarks: - these files are from Aug 9, 2007, but are based on
 the data from 15 Dec 2006

-- 3) future (final):
originals (ASCII): A1 teamsite, directory:
 grid_data/future/road/y2025_y2050_v221007_correctedfinal
netCDF: Mainz server, directory:
 SCENARIOS/ROAD

SHIP emissions:

originals produced by DNV, converted into netCDF by MPI-Mainz

overview: 1) present (final)
 2) future (final)

-- 1) present (final):
originals (ASCII): A1 teamsite, directory:
 grid_data/present/shipping
netCDF: Mainz server, directory:
 EMISSIONS/SHIPS/DNV

-- 2) future (final):
originals (ASCII): A1 teamsite, directory:
 grid_data/future/shipping
netCDF: Mainz server, directory:
 SCENARIOS/SHIP

AIRCRAFT emissions:

originals produced by MMU, converted into netCDF by O.Dessens

overview: 1) present Aero2k ('preliminary')
 2) present non-scaled ('final', version 1)
 3) future non-scaled ('final', version 1)
 4) present scaled ('final', version 2)
 5) future scaled ('final', version 2)

-- 1) present Aero2k:
originals (ASCII): Aero2k website
netCDF: not available anymore (contact O.Dessens or M.Gauss if needed)

-- 2) present non-scaled:
originals (ASCII): A1 teamsite, directory:
 grid_data/present/aviation
netCDF: not available anymore (contact O.Dessens or M.Gauss if needed)

-- 3) future non-scaled:
originals (ASCII): A1 teamsite, directory:
 grid_data/future/aviation
netCDF: not available anymore (contact O.Dessens or M.Gauss if needed)

-- 4) present scaled:
originals (ASCII): not available (Olivier: do you have these files?)
netCDF: SRB server, directory:
 /UIO/home/quantify.SRBuio/Quantify-a3/emis_present/aircraft_final

-- 5) future scaled:
originals (ASCII): A1 teamsite, directory:
 grid_data/future/aviation
netCDF: SRB server, directory:
 /UIO/home/quantify.SRBuio/Quantify-a3/emis_future/aircraft

NON-TRAFFIC (anthropogenic!) emissions:

overview: 1) present (final)
 2) future (final)

-- 1) present (final):
originals (ASCII): A1 teamsite, directory:
 grid_data/present/non-transport
netCDF: Mainz server, directory:
 EMISSIONS/NON-TRAFFIC

-- 2) future (final):
originals (ASCII): A1 teamsite, directory:
 grid_data/future/non-transport
netCDF: Mainz server, directory:
 SCENARIOS/NON-TRAFFIC

Natural ('BIOGEN') emissions:

overview: 1) present (final)
 2) future (final)

-- 1) present (final):
originals (ASCII): not provided by Activity 1
netCDF: Mainz server, directory:
 EMISSIONS/BIOGEN

-- 2) future (final):
originals (ASCII): not available
we should probably use the same as for the present!

Other emissions (are these used by any modellers?):

a) Indirect emissions (from fuel production)

A1 teamsite, directory:
grid_data/present/indirect

b) Emissions from rail/inland navigation:

A1 teamsite, directory:
grid_data/present/rail_inlandnavigation

Questions/Issues:

Peter H.: Any news about the missing CH₃COOH component in future road
and ship emissions?

Brigitte: Some weeks ago you noticed some issues with inconsistent
totals, have you ever got any comment on this?

All: Has anybody considered to use Jens Borcken's scaling factors
for 2007 road emissions?

All: I planned to put the Mainz emissions on the SRB server, but recent
problems with server instability made me change my mind. So I suggest
you use the SRB server ONLY FOR aircraft emissions and the 'final'
road emissions for the present.