

FINNv1 Emission Estimates

These files were created in April-May 2011. These files include daily, global fire emissions. The emissions have been speciated to the GEOS-chem mechanism.

For more information, questions, comments, or any feedback, please contact Christine Wiedinmyer (christin@ucar.edu)

REFERENCE:

Wiedinmyer, C., Akagi, S. K., Yokelson, R. J., Emmons, L. K., Al-Saadi, J. A., Orlando, J. J., and Soja, A. J.: The Fire INventory from NCAR (FINN) – a high resolution global model to estimate the emissions from open burning, *Geosci. Model Dev. Discuss.*, 3, 2439-2476, doi:10.5194/gmdd-3-2439-2010, 2010.

<http://www.geosci-model-dev-discuss.net/3/2439/2010/gmdd-3-2439-2010.html>

There is one header line at the beginning of each file. The files are ASCII format, comma delimited with the following fields:

DAY	Julian Day (day of year)
TIME	Time of satellite overpass/observation (UTC)
GENVEG	Generic Vegetation type where fire occurred
LATI	Latitude (decimal degrees)
LONGI	Longitude (decimal degrees)
AREA	Area burned (m ²) – for use with WRF-chem processor ONLY
CO2	CO ₂ emissions (mole CO ₂ /day)
CO	CO emissions (mole CO/day)
NO	NO emissions (mole NO/day)
NO2	NO ₂ emissions (mole NO ₂ /day)
SO2	SO ₂ emissions (mole SO ₂ /day)
NH3	NH ₃ emissions (mole NH ₃ /day)
CH4	CH ₄ emissions (mole CH ₄ /day)
ACET	ACET emissions (mole ACET/day)
ALD2	ALD ₂ emissions (mole ALD ₂ /day)
ALK4	ALK ₄ emissions (mole ALK ₄ /day)
C2H6	C ₂ H ₆ emissions (mole C ₂ H ₆ /day)
C3H8	C ₃ H ₈ emissions (mole C ₃ H ₈ /day)
CH2O	C ₂ H ₄ O emissions (mole C ₂ H ₄ O/day)
ISOP	ISOP emissions (mole ISOP/day)
MEK	MEK emissions (mole MEK/day)
PRPE	PRPE emissions (mole PRPE/day)

HCN	HCN emissions (mole HCN/day)
OC	Particulate Organic Carbon emissions (kg OC/day)
BC	Particulate Black Carbon emissions (kg BC/day)
PM25	PM2.5 emissions (kg PM2.5/day)