

## README

### TrashEmis.zip

The file TrashEmis.zip is a zipped file containing one NetCDF file called "ALL\_Emiss\_04282014.nc". This NetCDF file contains global, annual emissions from open waste burning on a 0.1 degree grid. The emissions inventory is described by:

Wiedinmyer, C., Yokelson, R., Gullet, B. (2014) Global Emissions of Trace Gases, Particulate Matter, and Hazardous Air Pollutants from Open Burning of Domestic Waste, *Environmental Science & Technology*, <http://pubs.acs.org/doi/abs/10.1021/es502250z>.

The File "ALL\_Emiss"04282014.nc" was created by Christine Wiedinmyer on 28 April 2014. This is the results of version 1 of this emissions inventory. If you have questions, please contact Christine at [christin@ucar.edu](mailto:christin@ucar.edu).

All emissions in the file have the units Gg/year.

Below is the header information for the NetCDF file:

```
netcdf ALL_Emiss_04282014 {
dimensions:
    lon = 3600 ;
    lat = 1800 ;
variables:
    float lon(lon) ;
        lon:units = "degrees" ;
        lon:long_name = "Longitude" ;
    float lat(lat) ;
        lat:units = "degreess_north" ;
        lat:long_name = "Latitude" ;
    float CO2grid(lat, lon) ;
        CO2grid:units = "Gg/year" ;
        CO2grid:long_name = " CO2 trash burning emissions" ;
    float COgrid(lat, lon) ;
        COgrid:units = "Gg/year" ;
        COgrid:long_name = " CO trash burning emissions" ;
    float SO2grid(lat, lon) ;
        SO2grid:units = "Gg/year" ;
        SO2grid:long_name = " SO2 trash burning emissions" ;
    float NOxgrid(lat, lon) ;
        NOxgrid:units = "Gg/year" ;
        NOxgrid:long_name = " NOx trash burning emissions" ;
    float NH3grid(lat, lon) ;
        NH3grid:units = "Gg/year" ;
        NH3grid:long_name = " NH3 trash burning emissions" ;
    float CH4grid(lat, lon) ;
        CH4grid:units = "Gg/year" ;
        CH4grid:long_name = " CH4 trash burning emissions" ;
    float C2H2grid(lat, lon) ;
```

```
C2H2grid:units = "Gg/year" ;
C2H2grid:long_name = " C2H2 trash burning emissions" ;
float C2H4grid(lat, lon) ;
C2H4grid:units = "Gg/year" ;
C2H4grid:long_name = " C2H4 trash burning emissions" ;
float C3H6grid(lat, lon) ;
C3H6grid:units = "Gg/year" ;
C3H6grid:long_name = " C3H6 trash burning emissions" ;
float MEOHgrid(lat, lon) ;
MEOHgrid:units = "Gg/year" ;
MEOHgrid:long_name = " Methanol trash burning emissions" ;
float FORMgrid(lat, lon) ;
FORMgrid:units = "Gg/year" ;
FORMgrid:long_name = " Formaldehyde trash burning emissions" ;
float AcetAcidgrid(lat, lon) ;
AcetAcidgrid:units = "Gg/year" ;
AcetAcidgrid:long_name = " Acetic Acid trash burning emissions" ;
float HCNgrid(lat, lon) ;
HCNgrid:units = "Gg/year" ;
HCNgrid:long_name = " HCN trash burning emissions" ;
float BENZgrid(lat, lon) ;
BENZgrid:units = "Gg/year" ;
BENZgrid:long_name = " Benzene trash burning emissions" ;
float PCBgrid(lat, lon) ;
PCBgrid:units = "Gg/year" ;
PCBgrid:long_name = " PCB trash burning emissions" ;
float PAHgrid(lat, lon) ;
PAHgrid:units = "Gg/year" ;
PAHgrid:long_name = " PAH trash burning emissions" ;
float PCDDgrid(lat, lon) ;
PCDDgrid:units = "Gg/year" ;
PCDDgrid:long_name = " PCDD trash burning emissions" ;
float PBDDgrid(lat, lon) ;
PBDDgrid:units = "Gg/year" ;
PBDDgrid:long_name = " PBDD trash burning emissions" ;
float NMOCgrid(lat, lon) ;
NMOCgrid:units = "Gg/year" ;
NMOCgrid:long_name = " Total NMOC trash burning emissions" ;
float HClgrid(lat, lon) ;
HClgrid:units = "Gg/year" ;
HClgrid:long_name = " HCl trash burning emissions" ;
float Hggrid(lat, lon) ;
Hggrid:units = "Gg/year" ;
Hggrid:long_name = " Hg trash burning emissions" ;
float PM25grid(lat, lon) ;
PM25grid:units = "Gg/year" ;
PM25grid:long_name = " PM2.5 trash burning emissions" ;
float PM10grid(lat, lon) ;
PM10grid:units = "Gg/year" ;
PM10grid:long_name = " PM10 trash burning emissions" ;
float OCgrid(lat, lon) ;
OCgrid:units = "Gg/year" ;
OCgrid:long_name = " OC trash burning emissions" ;
float BCgrid(lat, lon) ;
BCgrid:units = "Gg/year" ;
BCgrid:long_name = " BC trash burning emissions" ;
```

```
// global attributes:  
  :title = "Annual trash burning emissions" ;  
  :authors = "C. Wiedinmyer" ;  
  :Grid = "0.1 degree;" ;  
  :History = "Created 28 April 2014" ;
```