NACP MCI: CO_2 Emissions Inventory, Upper Midwest Region, U.S.A., 2007

There are nine NetCDF format (*.nc4) files with data for a single emissions source. This file contains copies of the header portion of each of the files. All headers have the same structure.

Data Files:

NACPMCIEmissionsInventory_2007_CROPFIRE.nc4
NACPMCIEmissionsInventory_2007_FOREST.nc4
NACPMCIEmissionsInventory_2007_FOSSIL.nc4
NACPMCIEmissionsInventory_2007_HARVEST.nc4
NACPMCIEmissionsInventory_2007_HUMANRESP.nc4
NACPMCIEmissionsInventory_2007_LANDFILL.nc4
NACPMCIEmissionsInventory_2007_LIVESTOCK.nc4
NACPMCIEmissionsInventory_2007_SOILC_CROP.nc4
NACPMCIEmissionsInventory_2007_SOILC_GRASS.nc4

Realization Note: The CROPFIRE through SOILC_CROP source files have values for 100 "realizations" per grid cell while the SOILC_GRASS source has just one (1) "realization" per cell.

NetCDF file headers:

```
netcdf NACPMCIEmissionsInventory_2007_CROPFIRE {
dimensions:
    realz = UNLIMITED ; // (100 currently)
    lon = 48 ;
    lat = 28 ;
variables:
    int realz(realz) ;
        realz:long_name = "realization" ;
    double lon(lon) ;
        lon:long_name = "longitude coordinate" ;
        lon:standard_name = "longitude" ;
        lon:units = "degrees_east" ;
    double lat(lat) ;
        lat:long_name = "latitude coordinate" ;
        lat:standard_name = "latitude" ;
        lat:units = "degrees_north" ;
    double C(realz, lat, lon) ;
        C:long_name = "CO2-C flux from residue burning" ;
        C:coordinates = "lon lat" ;
        C:units = "MgC/yr" ;
        C:missing_value = -999. ;
        C:_FillValue = -999. ;

// global attributes:
        :Conventions = "CF-1.0" ;
}
```

netcdf NACPMCIEmissionsInventory_2007_FOREST {
dimensions:
realz = UNLIMITED ; // (100 currently)
lon = 48 ;
lat = 28 ;
variables:
int realz(realz) ;
realz:long_name = "realization" ;
double lon(lon) ;
lon:long_name = "longitude coordinate" ;
lon:standard_name = "longitude" ;
lon:units = "degrees_east" ;
double lat(lat) ;
lat:long_name = "latitude coordinate" ;
lat:standard_name = "latitude" ;
lat:units = "degrees_north" ;
double C(realz, lat, lon) ;
C:long_name = "CO2-C flux from forest biomass and soil C stock changes, and harvested wood products" ;
C:coordinates = "lon lat" ;
C:units = "MgC/yr" ;
C:missing_value = -999. ;
C:_FillValue = -999. ;

// global attributes:
:Conventions = "CF-1.0" ;
}

netcdf NACPMCIEmissionsInventory_2007_FOSSIL {
dimensions:
realz = UNLIMITED ; // (100 currently)
lon = 48 ;
lat = 28 ;
variables:
int realz(realz) ;
realz:long_name = "realization" ;
double lon(lon) ;
lon:long_name = "longitude coordinate" ;
lon:standard_name = "longitude" ;
lon:units = "degrees_east" ;
double lat(lat) ;
lat:long_name = "latitude coordinate" ;
lat:standard_name = "latitude" ;
lat:units = "degrees_north" ;
double C(realz, lat, lon) ;
C:long_name = "CO2-C flux from fossil and bioenergy combustion" ;
C:coordinates = "lon lat" ;
C:units = "MgC/yr" ;
C:missing_value = -999. ;
C:_FillValue = -999. ;

// global attributes:
:Conventions = "CF-1.0" ;
}

netcdf NACPMCIEmissionsInventory_2007_HARVEST {
dimensions:
realz = UNLIMITED ; // (100 currently)
lon = 48 ;
lat = 28 ;
variables:
int realz(realz) ;
realz:long_name = "realization" ;
double lon(lon) ;
lon:long_name = "longitude coordinate" ;
lon:standard_name = "longitude" ;
lon:units = "degrees_east" ;
double lat(lat) ;
lat:long_name = "latitude coordinate" ;
lat:standard_name = "latitude" ;
lat:units = "degrees_north" ;
double C(realz, lat, lon) ;
C:long_name = "CO2-C flux from cropland harvested grain" ;
C:coordinates = "lon lat" ;
C:units = "MgC/yr" ;
C:missing_value = -999. ;
C:_FillValue = -999. ;

// global attributes:
:Conventions = "CF-1.0" ;
}

netcdf NACPMCIEmissionsInventory_2007_HUMANRESP {
dimensions:
realz = UNLIMITED ; // (100 currently)
lon = 48 ;
lat = 28 ;
variables:
int realz(realz) ;
realz:long_name = "realization" ;
double lon(lon) ;
lon:long_name = "longitude coordinate" ;
lon:standard_name = "longitude" ;
lon:units = "degrees_east" ;
double lat(lat) ;
lat:long_name = "latitude coordinate" ;
lat:standard_name = "latitude" ;
lat:units = "degrees_north" ;
double C(realz, lat, lon) ;
C:long_name = "CO2-C flux from human respiration" ;
C:coordinates = "lon lat" ;
C:units = "MgC/yr" ;
C:missing_value = -999. ;
C:_FillValue = -999. ;

// global attributes:
:Conventions = "CF-1.0" ;
}

netcdf NACPMCIEmissionsInventory_2007_LANDFILL {
dimensions:
realz = UNLIMITED ; // (100 currently)
lon = 48 ;
lat = 28 ;
variables:
int realz(realz) ;
realz:long_name = "realization" ;
double lon(lon) ;
lon:long_name = "longitude coordinate" ;
lon:standard_name = "longitude" ;
lon:units = "degrees_east" ;
double lat(lat) ;
lat:long_name = "latitude coordinate" ;
lat:standard_name = "latitude" ;
lat:units = "degrees_north" ;
double C(realz, lat, lon) ;
C:long_name = "CO2-C flux from decomposition of waste land fills" ;
C:coordinates = "lon lat" ;
C:units = "MgC/yr" ;
C:missing_value = -999. ;
C:_FillValue = -999. ;

// global attributes:
:Conventions = "CF-1.0" ;
}

netcdf NACPMCIEmissionsInventory_2007_LIVESTOCK {
dimensions:
realz = UNLIMITED ; // (100 currently)
lon = 48 ;
lat = 28 ;
variables:
int realz(realz) ;
realz:long_name = "realization" ;
double lon(lon) ;
lon:long_name = "longitude coordinate" ;
lon:standard_name = "longitude" ;
lon:units = "degrees_east" ;
double lat(lat) ;
lat:long_name = "latitude coordinate" ;
lat:standard_name = "latitude" ;
lat:units = "degrees_north" ;
double C(realz, lat, lon) ;
C:long_name = "CO2-C flux from livestock respiration" ;
C:coordinates = "lon lat" ;
C:units = "MgC/yr" ;
C:missing_value = -999. ;
C:_FillValue = -999. ;

// global attributes:
:Conventions = "CF-1.0" ;
}

```
netcdf NACPMCIEmissionsInventory_2007_SOILC_CROP {
dimensions:
        realz = UNLIMITED ; // (100 currently)
        lon = 48 ;
        lat = 28 ;
variables:
        int realz(realz) ;
                realz:long_name = "realization" ;
        double lon(lon) ;
                lon:long_name = "longitude coordinate" ;
                lon:standard_name = "longitude" ;
                lon:units = "degrees_east" ;
        double lat(lat) ;
                lat:long_name = "latitude coordinate" ;
                lat:standard_name = "latitude" ;
                lat:units = "degrees_north" ;
        double C(realz, lat, lon) ;
                C:long_name = "CO2-C flux from soil organic C stock changes in cropland" ;
                C:coordinates = "lon lat" ;
                C:units = "MgC/yr" ;
                C:missing_value = -999. ;
                C:_FillValue = -999. ;

// global attributes:
                :Conventions = "CF-1.0" ;
}
```

netcdf NACPMCIEmissionsInventory_2007_SOILC_GRASS {
dimensions:
realz = UNLIMITED ; // (1 currently)
lon = 48 ;
lat = 28 ;
variables:
int realz(realz) ;
realz:long_name = "realization" ;
double lon(lon) ;
lon:long_name = "longitude coordinate" ;
lon:standard_name = "longitude" ;
lon:units = "degrees_east" ;
double lat(lat) ;
lat:long_name = "latitude coordinate" ;
lat:standard_name = "latitude" ;
lat:units = "degrees_north" ;
double C(realz, lat, lon) ;
C:long_name = "CO2-C flux from soil organic C stock changes in grassland" ;
C:coordinates = "lon lat" ;
C:units = "MgC/yr" ;
C:missing_value = -999. ;
C:_FillValue = -999. ;

// global attributes:
:Conventions = "CF-1.0" ;
}