



```
netcdf January-December.nc
dimensions:
```

```
    // Aggregated dimensions
```

```
    > time = 12 ;
    > latitude = 73 ;
    > longitude = 144 ;
```

```
    // Fragment dimensions
```

```
    f_time = 2 ;
```

```
    f_latitude = 1 ;
```

```
    f_longitude = 1 ;
```

```
    i = 3 ; // i = number of aggregated dimensions
```

```
    j = 2 ; // j = maximum of fragment dimension sizes
```

```
variables:
```

```
    double temp ; // Aggregation variable, encoded as a scalar
```

```
    temp:standard_name = "surface_temperature" ;
```

```
    temp:units = "K" ;
```

```
    temp:cell_methods = "time: mean" ;
```

```
    temp:aggregated_dimensions = "time latitude longitude" ;
```

```
    temp:aggregated_data = "location: aggregation_location
```

```
                             file: aggregation_file
```

```
                             format: aggregation_format
```

```
                             address: aggregation_address" ;
```

```
    float time(time) ;
```

```
        time:units = "days since 2022-01-01" ;
```

```
    float latitude(latitude) ;
```

```
        latitude:units = "degrees_north" ;
```

```
    float longitude(longitude) ;
```

```
        longitude:units = "degrees_east" ;
```

```
    // Aggregation instruction variables
```

```
    string aggregation_address(f_time, f_latitude, f_longitude) ;
```

```
    string aggregation_format ;
```

```
    string aggregation_file(f_time, f_latitude, f_longitude) ;
```

```
    int aggregation_location(i, j) ;
```

```
    // Global attributes
```

```
        :Conventions = "CF-1.9 CFA-0.6" ; // CF and CFA conventions
```

```
data:
```

```
    time = 0, 31, 59, 90, 120, 151, 181, 212, 243, 273, 304, 334 ;
```

```
    temp = _ ;
```

```
    > aggregation_location = 6, 6, // Each fragment spans half the time range
```

```
                           73, _ , // All fragments span the whole latitude range
```

```
                           144, _ ; // All fragments span the whole longitude range
```

```
    > aggregation_file = "January-June.nc", "July-December.nc" ;
```

```
    > aggregation_format = "nc" ;
```

```
    > aggregation_address = "ts", "ts" ;
```

aggregated_dimensions:
Dimensions of the aggregated data

aggregated_data:
Instructions for aggregating the fragments

location:
Locations of fragments in
the aggregated data

format:
Formats of fragment files

file:
URIs of fragments

address:
Addresses of data
in fragment file

Dimensions indexing the
3-d array of fragments

Dimensions indexing the
size of fragments along
aggregated dimensions
(padded with missing
values as required)