

HDF Explorer

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HDF Explorer

- Version 1.4 just released
- New features: support for HDF5 Dimension Scales



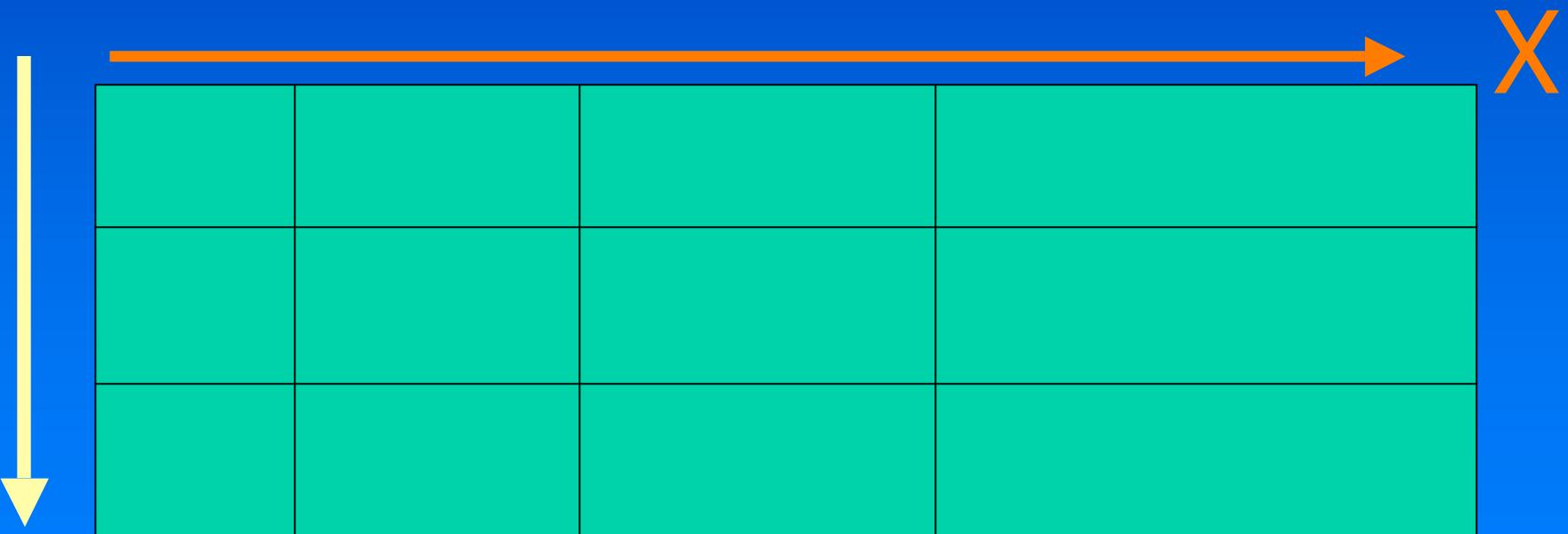
Dimension Scales : HDF5 API C code

- Example: I have an array of 12 elements organized in a 3 X 4 matrix



Dimension Scales : HDF5 API C code

- But the spatial phenomenon I am trying to model has different width and height definitions



Dimension Scales : HDF5 API C code

My array data of 12 elements:

```
int dset_data[12] = {1,2,3,4,5,6,7,8,9,10,11,12};
```

My X axis spatial domain:

```
int X[4] = {10,20,50,100};
```

My Y axis spatial domain:

```
int Y[3] = {10,20,30};
```



Dimension Scales : HDF5 API C code

Save my arrays as HDF5 datasets with the High Level HDF5 API function

```
H5LTmake_dataset_int  
(fid,"My data",rank,dims, dset_data);
```



Dimension Scales : HDF5 API C code for the X and Y arrays

```
H5LTmake_dataset_int  
(fid,"X axis",rankx,dimsx, X);
```

```
H5LTmake_dataset_int  
(fid,"Y axis",ranky,dimsy, Y);
```



Dimension Scales : HDF5 API

Call H5DSattach_scale function

```
/* get the DS dataset id and dataset*/
did = H5Dopen(fid," My data");
dsid = H5Dopen(fid," X axis");

/* attach the " X axis" dimension scale to
" My data" at dimension 0 */
H5DSattach_scale(did,dsid,DIM0);
```



Dimension Scales : HDF5 API

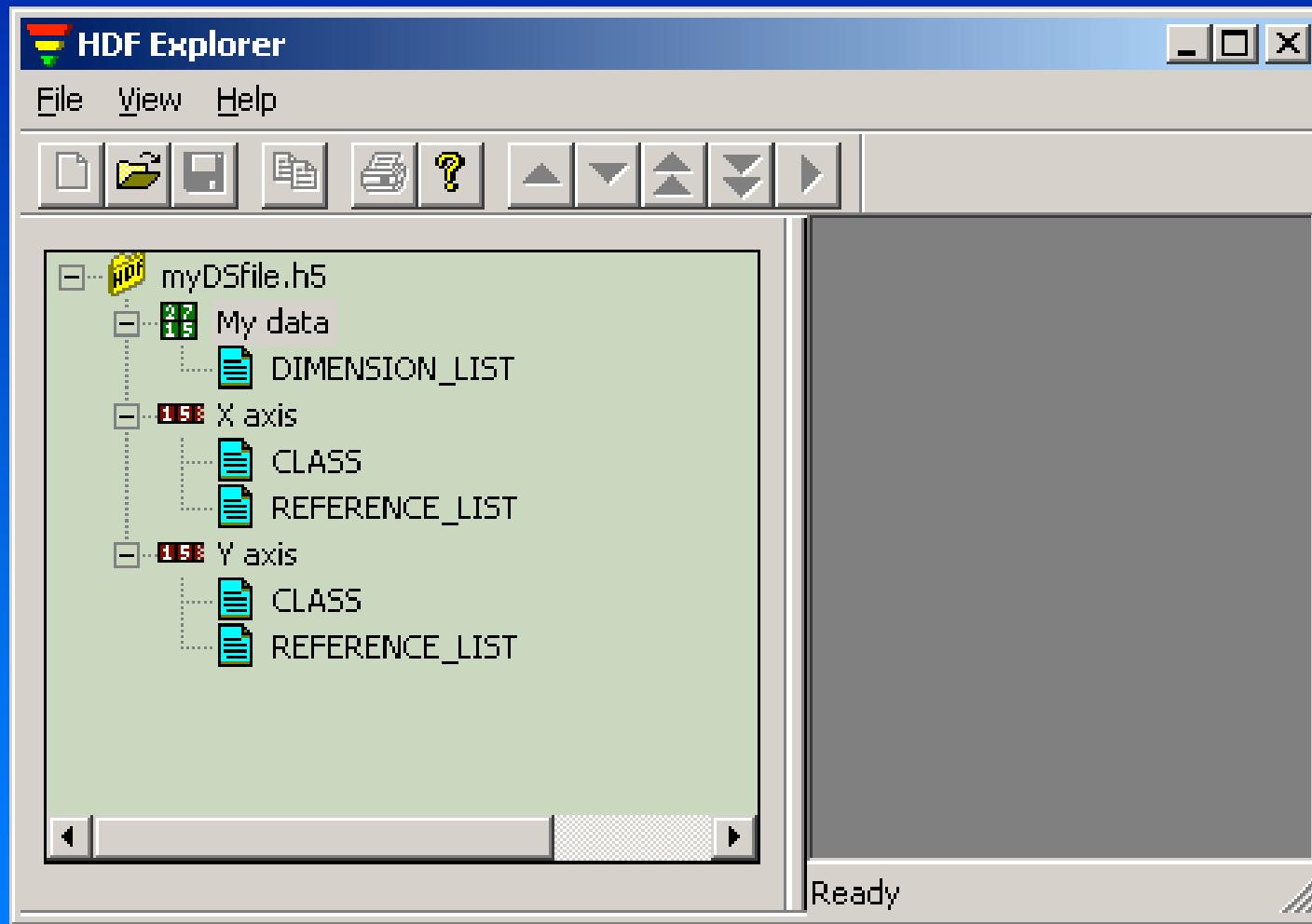
Call H5DSattach_scale function

```
/* get the DS dataset id and dataset*/
did = H5Dopen(fid," My data");
dsid = H5Dopen(fid," X axis");

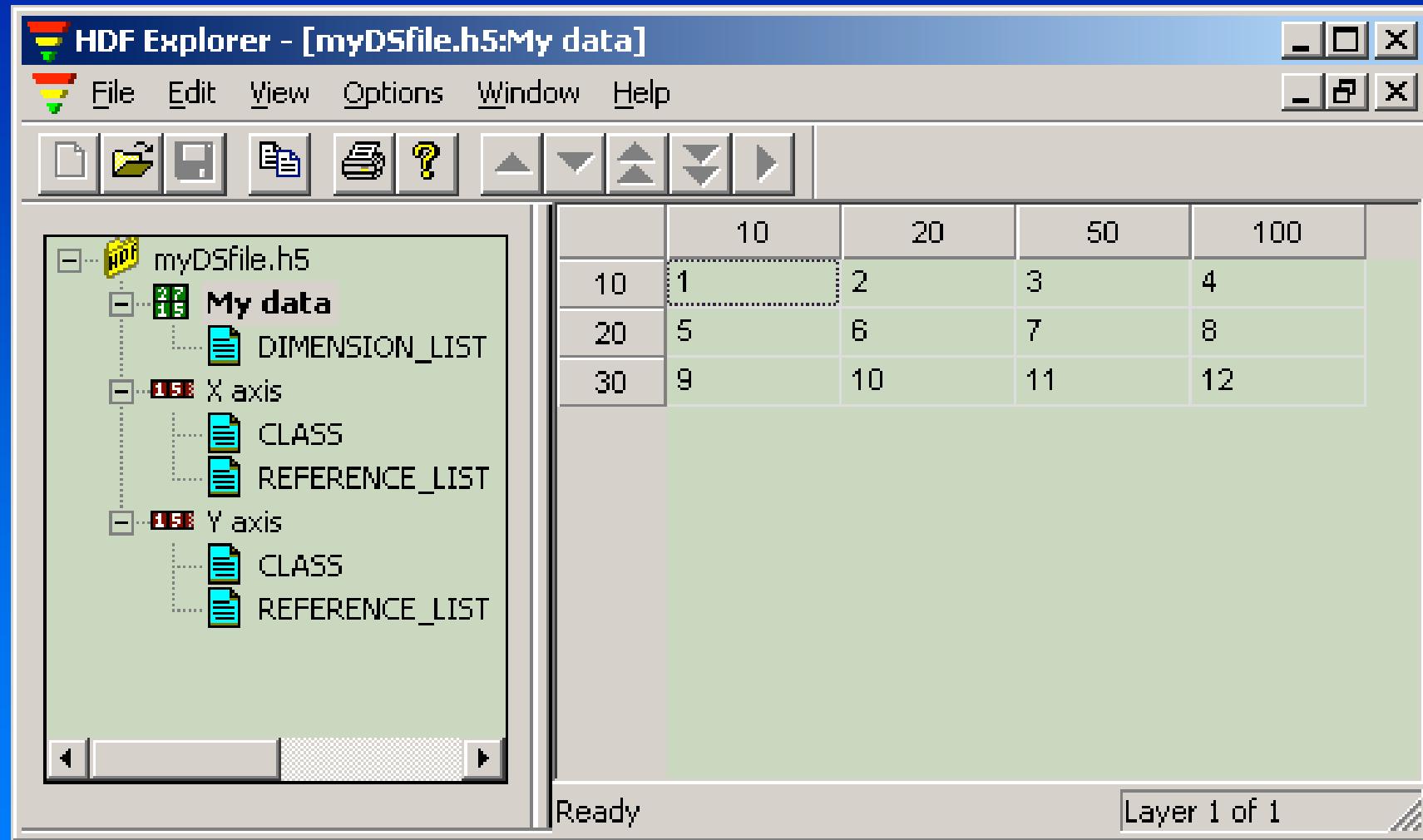
/* attach the " X axis" dimension scale to
" My data" at dimension 0 */
H5DSattach_scale(did,dsid,DIM0);
```



HDF Explorer: Tree View



HDF Explorer: Grid View



HDF Explorer: Map View

