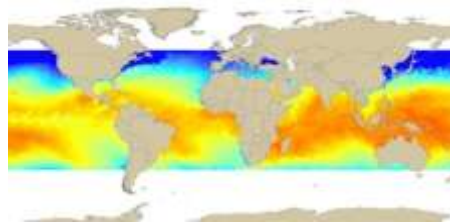# ZETS: Zonal Extraction of Times Series
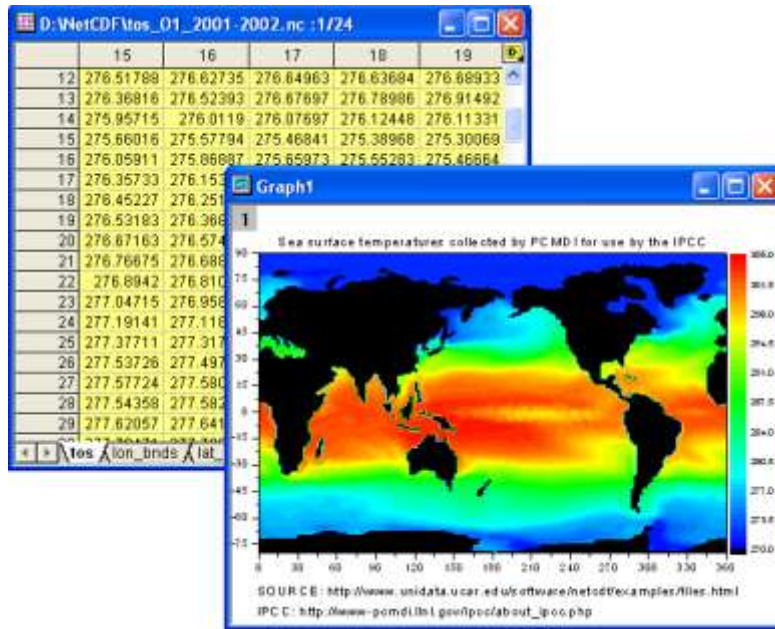
Madeline Steele
GEOG 590, Winter 2011

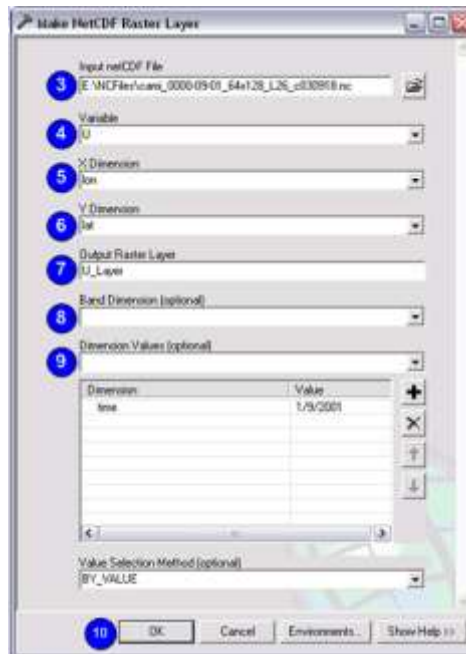### NetCDF (**Network Common Data Form**)

- A set of software libraries and self-describing, machine-independent data formats that support the creation, access, and sharing of array-oriented scientific data.

- Commonly used in climatology, meterology, and oceanography, and GIS

http://en.wikipedia.org/wiki/NetCDF

http://www.originlab.com/www/products/images/import_netCDF_temp_graph.png

Use in ArcGIS

- Can't be added directly
- Need to use "Make NetCDF Raster Layer"
- Multidimensional Tool Box
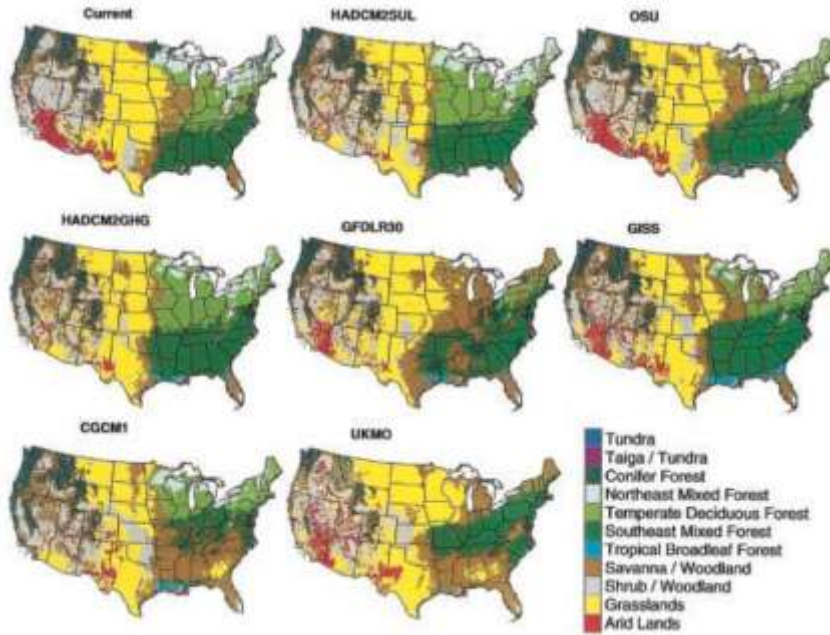
Accessing NetCDF data with VB.Net

- ArcObjects Interface: INetCDFworkspace
- Some methods:
  - GetVariablesByDimension
  - GetVariables
  - GetValueFromIndex

Our Research:

Predicting climate change threats to key estuarine habitats and ecosystem services in the Pacific Northwest

- USGS
- OCCRI
- EPA
- USF&W
- The Nature Conservancy

- USDS
- USFS
- OSU
- PSU

Bachelet et al. 2001

Reference

D. Bachelet, R. P. Neilson, J. M. Lenihan, and R. J. Drapek. 2001. Climate Change Effects on Vegetation Distribution and Carbon Budget in the United States. Ecosystems (2001) 4: 164–185