PSD Interactive Data Analysis and Plotting Web Pages:
http://www.esrl.noaa.gov/psd/

PSD makes a selection of Web-based tools available that allow users to easily plot data, as well to quickly test climate/weather hypotheses without having to download files or install libraries and code.

Data Analysis Web Pages
Web-based data products at PSD include compositing tools (average hourly, daily and monthly data), plotting pages, timeseries extraction, Hovmollers, vertical cross-sections, radar plots, and accumulation plots. On some pages, users can upload their own data for use on the pages. Pages are designed to be easy to use with interfaces geared towards the analysis.

Gridded Climate Datasets
Near Surface Air Temperature from the 20th Century Reanalysis is plotted for low NAO wintertime years and displayed in Google Earth on the web.
http://www.esrl.noaa.gov/psd/data/20thC_Rean/

Climate Timeseries
A linear correlation of the wintertime AO timeseries with Air Temperature from the NCEP Reanalysis.
http://www.esrl.noaa.gov/psd/data/correlation/

Forecast
A Hovmoller (longitude by time) plot of surface air temperature shows the El Nino of 1973 transitioning to the strong La Nina of 1974 using the NCEP Reanalysis.
http://www.esrl.noaa.gov/psd/map/time_plot/

Users and Statistics
Users of PSD’s Web pages include NOAA and the NWS offices, researchers, graduate students, resource managers, energy companies, farmers, skiing resorts, teachers, and weather enthusiasts, among many others. PSD gets about 1.5 million web hits a month.

Some Datasets Available at PSD
• Analysis Datasets: NCEP/NCAR I, NARR, 20th Century, NCEP/DOE II...
• Analysis: NCEP Operational...
• Gridded Precipitation: CMAP, GPCP, GPCPC.
• SST: ICOADS, Kaplan SST, NOAA Oil...
• Instrumental: Wind Profiler, Radar...
• Cruise Data: Flux, profiler, ceilometer,...
• Model Output: GFS, MJO models
• Satellite: SST, Heat Fluxes...

Data is generally available via ftp. Some data can be accessed via OPeNDAP. Instrumental data is accessible via a MySQL database. Gridded data is stored in CF-compliant NetCDF files.

PSD’s Web Team
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