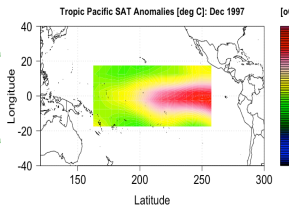# R Programming for Climate Data Analysis and Visualization
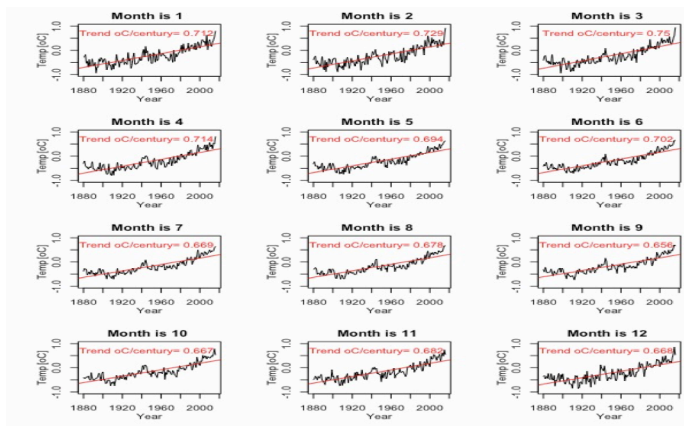
NEW

A CICS-NC Short Course At NOAA/NCEI, Asheville, NC May 30-June 2, 2017

- 9:30am-Noon, and 2:00-4:30pm
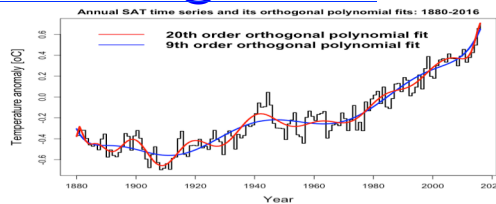- Half time lecture, half time practice

Topics covered:

- Basic operations by R: Plot time series, histograms, nonlinear data fitting, and matrix operations;
- R analysis of NOAAGlobalTemp data: Data reading and writing, data reformatting, map plotting, visualization and animation, and statistical analysis;
- R advanced graphics for climate data: Plot fancy figures, plot flow fields, and read and plot NCEP Reanalysis data; and
- EOFs by R: EOFs and PCs from SVD, and EOF plotting from NOAAGlobalTemp and Reanalysis data.

Instructor: Dr. Samuel Shen, Distinguished Professor at San Diego State University Sam.shen@sdsu.edu

NCEI contact and course registration: Dr. Russ Vose, Climate Science Branch Chief, Russell.Vose@noaa.gov