

Objective Analysis in the Atmospheric and Related Sciences
ATMO, HWRS, GEOS, GEOG 529

John Alejandro Martinez
Homework 1
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Web Page with meteorological data sets available to the public.

The web page <http://bancodedados.cptec.inpe.br/> is maintained by the Weather Forecasting and Climate Studies Centre of Brazil, (Centro de Previsao de Tempo e Estudos Climáticos, CPTEC). This web page, called “Banco de Dados”, contains different data sets, including measurements from weather stations throughout South America and output from a weather forecasting model. A list of the stations, including their WMO codes and location can be found also. These data sets include time series for temperature, wind speed and direction, relative humidity and pressure. Data from stations is available upon registration and they can be downloaded as .jsp or .xls files. On the other hand, data from the ETA weather forecasting model (20km x 20km resolution) can be requested for several variables (e.g. Temperature, geopotential height, cloud cover, wind components, specific humidity, runoff, soil moisture availability), at different levels of the atmosphere (from 1000mb to 100mb). Data is available for dates between the date of the request and a previous date. The domain encompasses all South America, but can it be adjusted to a desired subdomain.