

HWRS - 529**Objective Analysis in the Atmospheric and related Sciences****Fall 2013****September 3th, 2013**

Homework Assignment #1: Find a data-oriented website that can be placed on the class links page. Write a brief paragraph description and give the internet link.

Dataset: Nival Condition in Central Chile (32.05°S - 38.04°S). Data obtained from satellite MODIS Terra, and posted by the Department of Geophysics at the University of Chile; Santiago, Chile.

The basic information used in this product corresponds to the product "MODIS / Terra Snow Cover Daily L3 Global 500m Grid (MOD10A1)" developed and distributed by the National Snow and Ice Data Center (NSIDC) NASA - USA. Every day, NSIDC sends to their File Transfer Protocol Server (FTP) a Hierarchical Data Format file (.HDF) containing snow cover (and other variables) of central Chile with a resolution of 500 x 500 m² considering a sinusoidal projection grid. After processing the information is possible to obtain the percentage of snow cover and the snowline elevation (ASCII format: American Standard Code for Information Interchange) for selected basins in Central Chile.

The dataset is available at: <http://www.dgf.uchile.cl/rene/MODIS/>