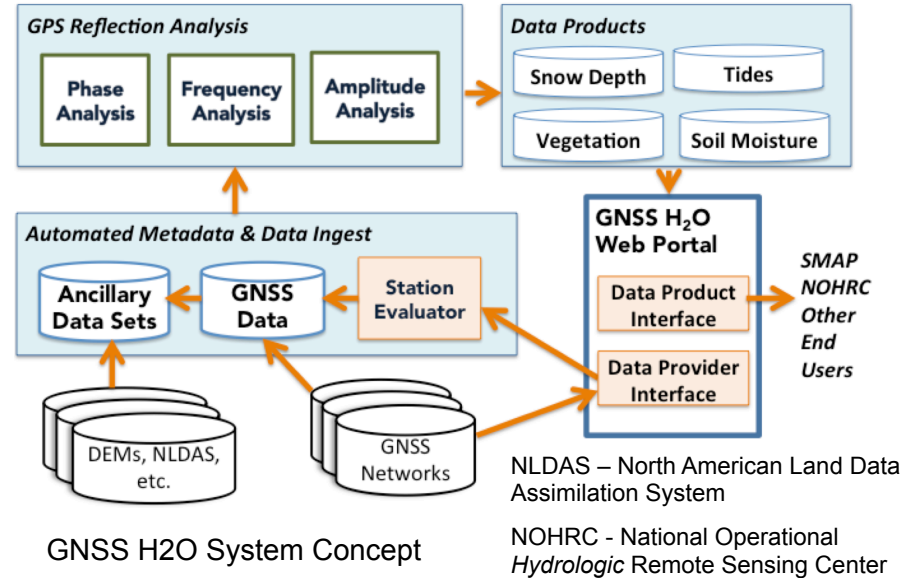


AMIGHO: Auto0mated Metadata Ingest for GNSS Hydrology within Object Oriented Data Technology (OODT)

PI: Kristine Larson, University of Colorado

Objective

- Enable operators of GNSS Networks to provide current and past data to the GNSS hydrologic products system
- Develop a system to automatically ingest GNSS observations (soil moisture, snow depth/snow water equivalent and vegetation water content) and related metadata to produce new hydrology data products
- Enable understanding of GNSS water products through a portal which supports:
 - Visualization
 - Data mining
 - Data sharing



Accomplishments

- AMIGHO can now automatically ingest GNSS observations (soil moisture, snow depth/snow water equivalent and vegetation water content) and related metadata to produce new hydrology data products:
 - The current PBO-H2O portal hosted at CU was transferred to JPL and put under configuration management control.
 - The code was ported for the JPL environment, including the updates necessary to meet IT security requirements.
 - The station submission interface with documentation to guide the user was developed.
 - The keyword-based search interface was developed.

Co-Is/Partners: D. Freeborn, S. Hardman, A. Moore, S. Owen, JPL; E. Small, CU

TRL_{in} = 4 TRL_{out} = 5