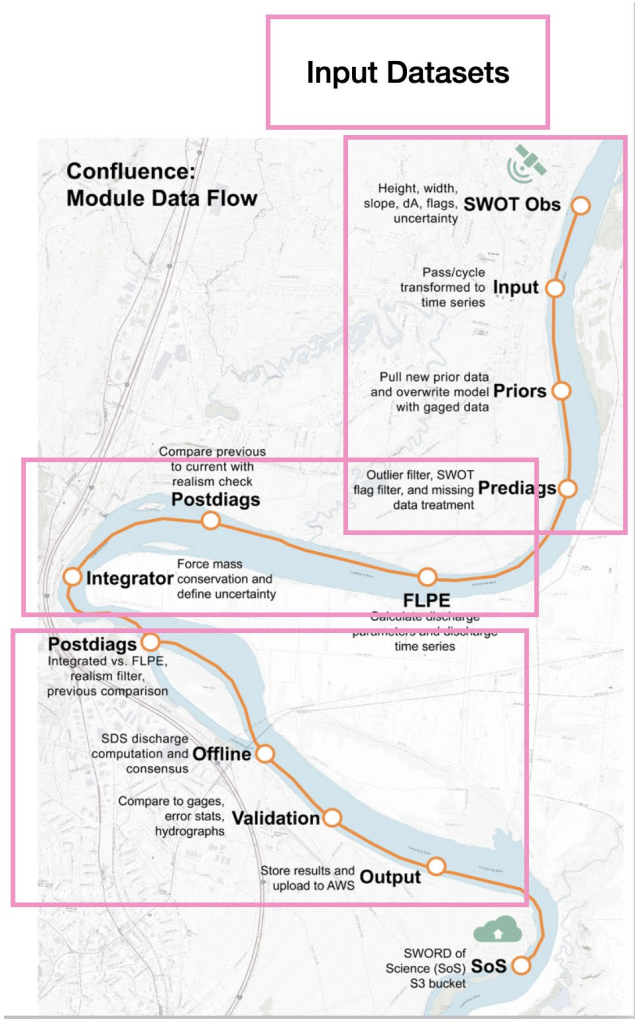
Preliminaries: Steps prior to performing Flow Law Parameter Estimation

Steve Coss, Pierre Olivier Malaterre, Kevin Larnier, Mike Durand, Colin Gleason, Hind Oubanas

Preliminary Modules

The second notebook covers preliminary processing steps before running Flow Law Parameter Estimation.

These include: the Input module, the SWORD of Science (SoS) module, and the prediagnostics module

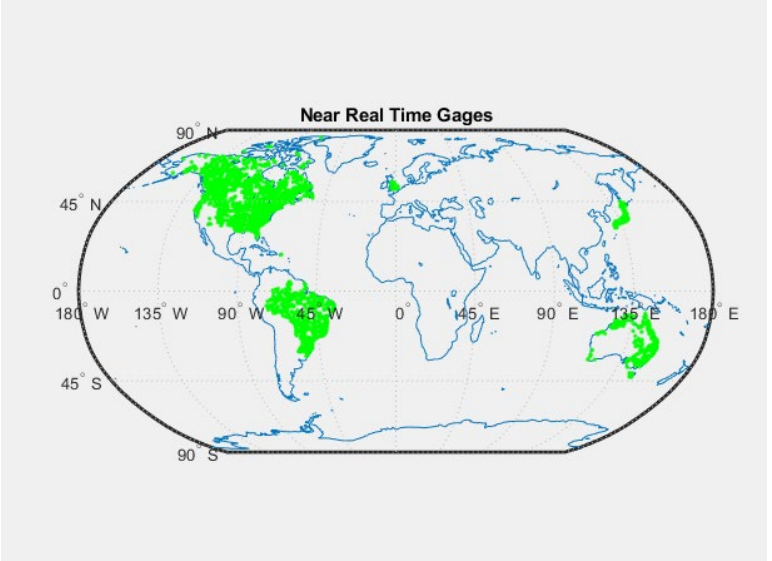


Input Module

- Ingest PO.DAAC shape files and prepare Netcdf files for discharge algorithms
- Input module creates one file for each reach ingested
- Node observation data is included within the reach files

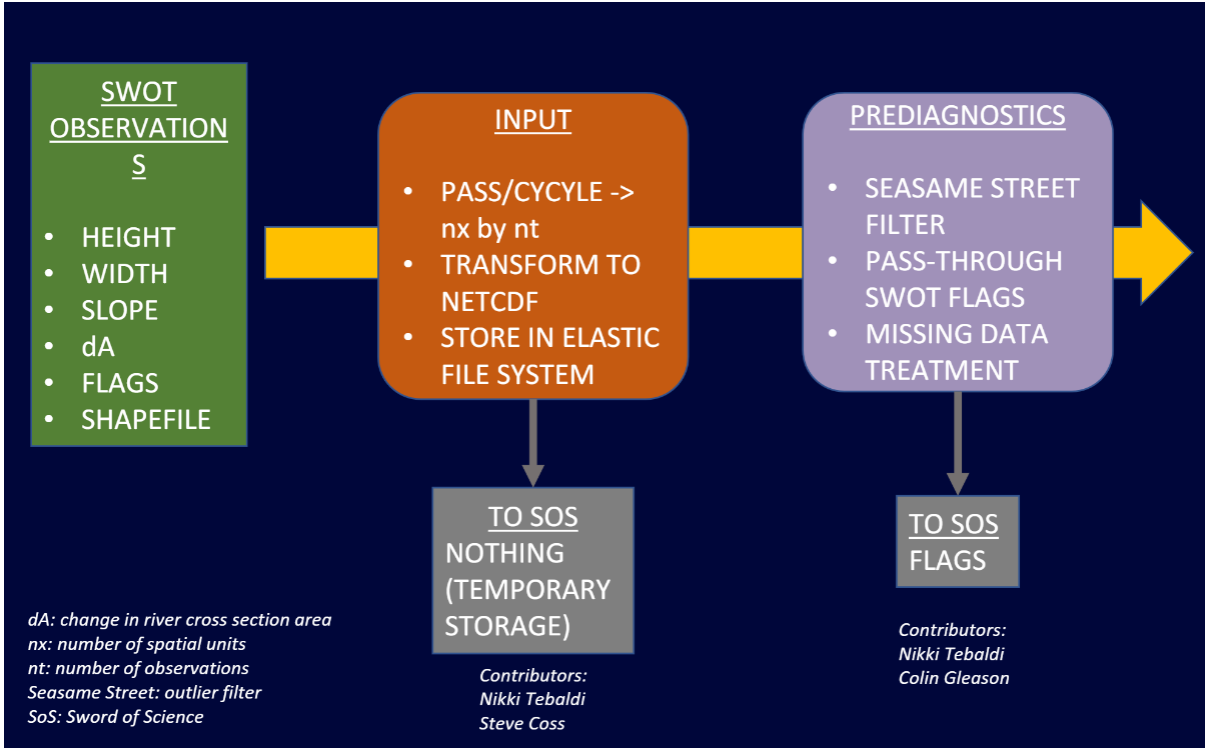
SoS: Near Real Time Gages

- Retrieve relevant priors and make updates to SoS and retrieve gage updates
- For the constrained run, SoS writes gage data over the priors from models for gaged reaches for the “calibration” gages
- Countries Included
  - USGS (United States)
  - Hidroweb (Brazil)
  - ABOM (Australia)
  - WSC (Canada)
  - DEFRA (United Kingdom)
- Will expand list of countries later this summer
- Will be used and updated on each run



Pre-diagnostics

Make high level checks on data and generate flags prior to generating discharge



Graphic courtesy Nikki Tebaldi