

SWOT consensus algorithm

Renato Frasson, Michael Durand, Rui Wei

Byrd Polar and Climate Research Center

and the School of Earth Sciences

The Ohio State University

The discharge consensus

- The basic SWOT product will contain one discharge estimate.
- This discharge estimate represents the consensus among the discharge algorithms.
- Classical way solution:
 - Q = the ensemble average weighed by uncertainty among models
 - Q uncertainty derived from the disagreement between models.
- Wasn't the best solution per the Pepsi challenge

The discharge consensus

- We need to identify feasible approaches.
 - E.g. predicting algorithm performance (when particular algorithms fail, when they perform better)
 - Better assessment of algorithm uncertainty.
 - Others.
 - Who could take this action?