

Global plant hydraulic traits clustered beyond plant functional type

1 Introduction

Importance of plant hydraulics for ecosystem modeling and forecast (ET, water potential)

Current parameterization of plant hydraulics are mostly based on plant functional type

To improve parameterization, measurements are scarce and scale mismatch brings in challenges.

Here we retrieve plant hydraulic traits at a large scale relevant to ecosystem modeling using a model-data fusion approach. Introduce why ET and VOD are used and their advantaged. Brief description on the plant hydraulic model.

2 Methods

2.1 Plant hydraulic model

2.2 Datasets

2.3 Model-data fusion

2.4 Clustering analysis

3 Results

4 Discussion