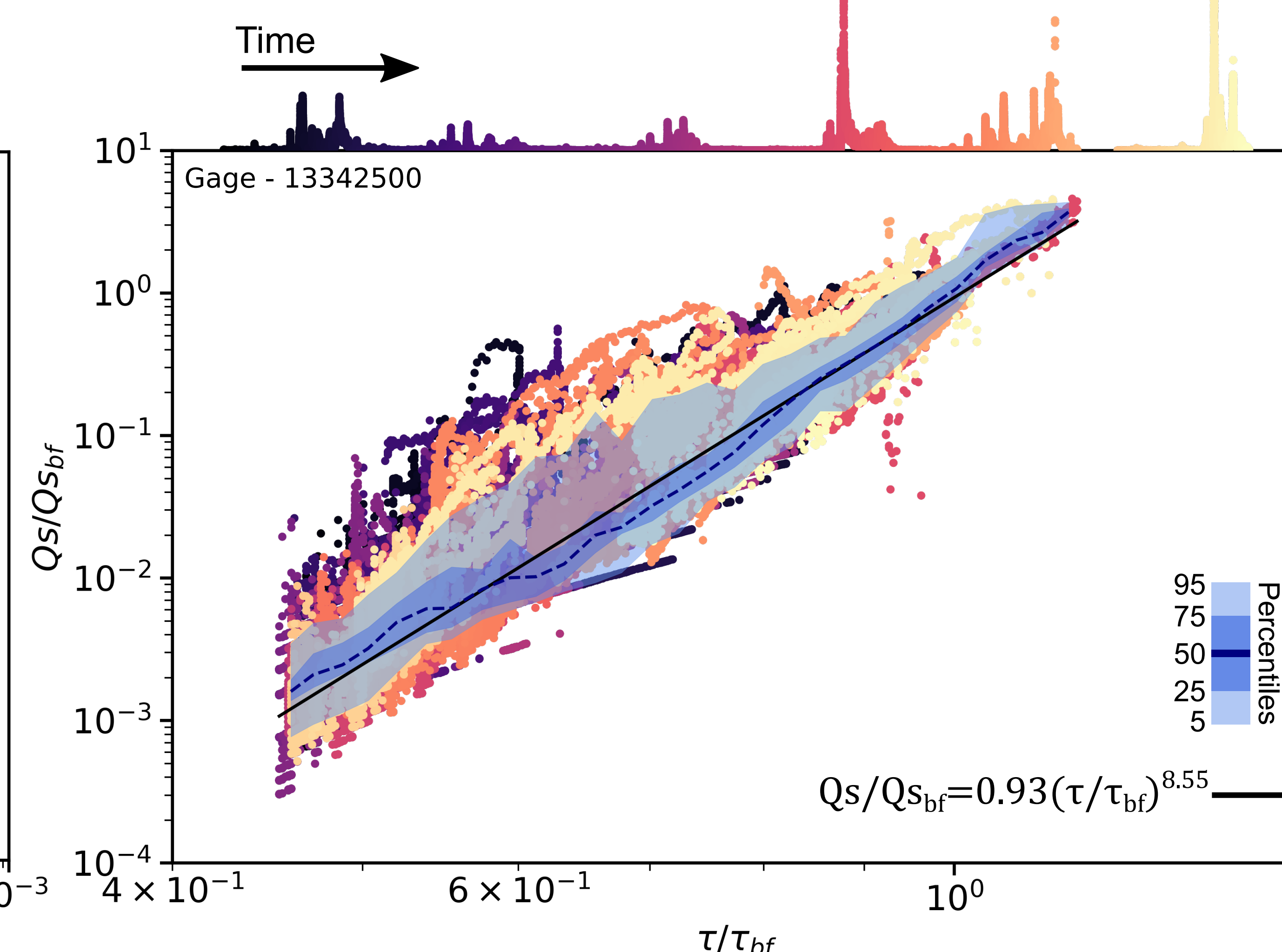
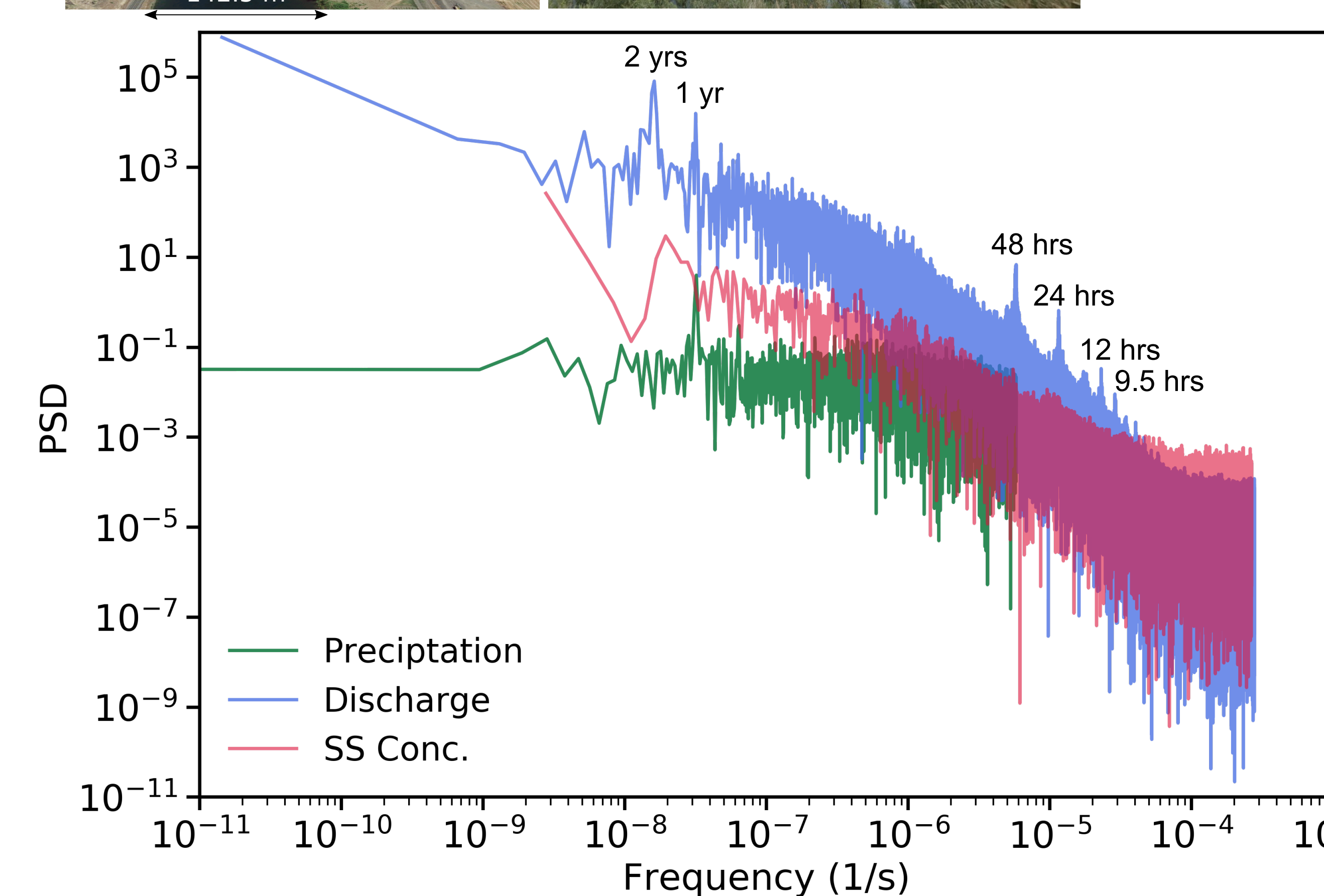
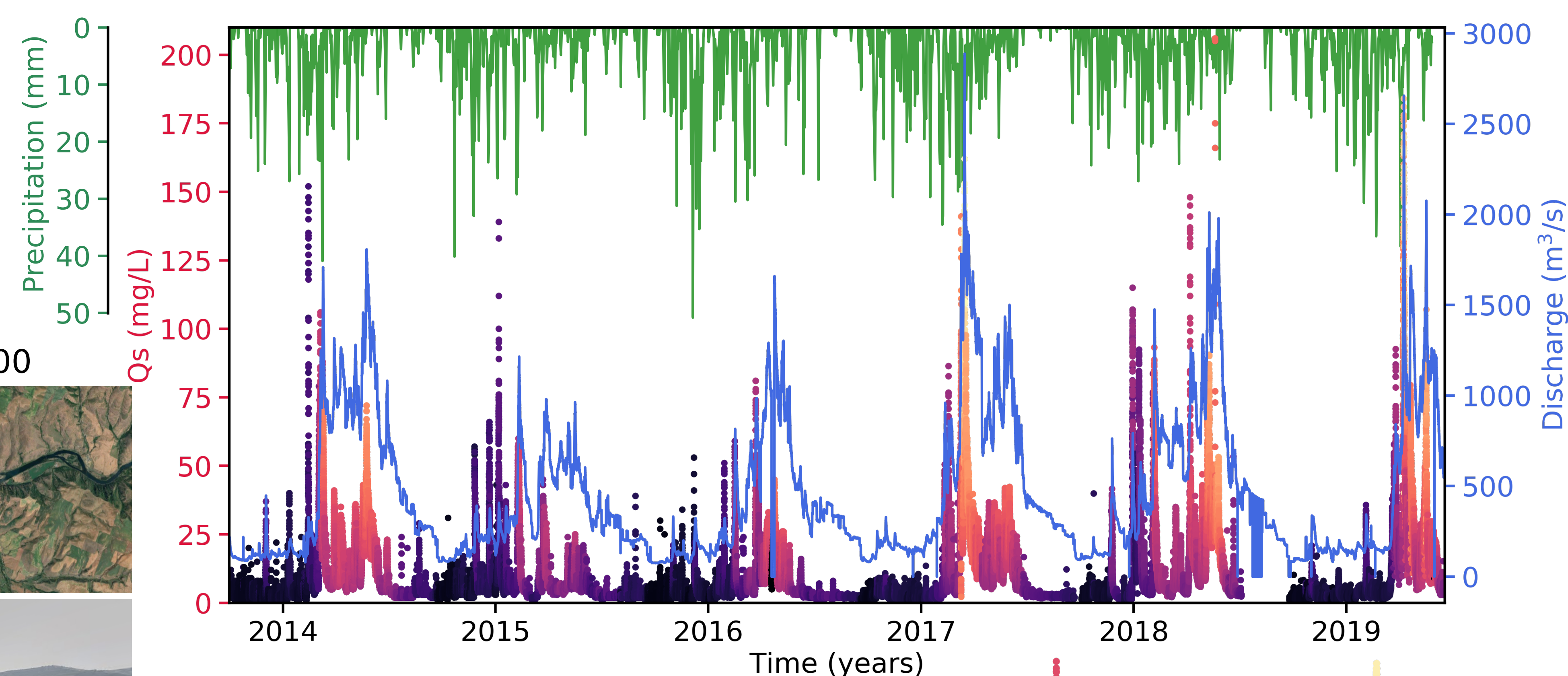


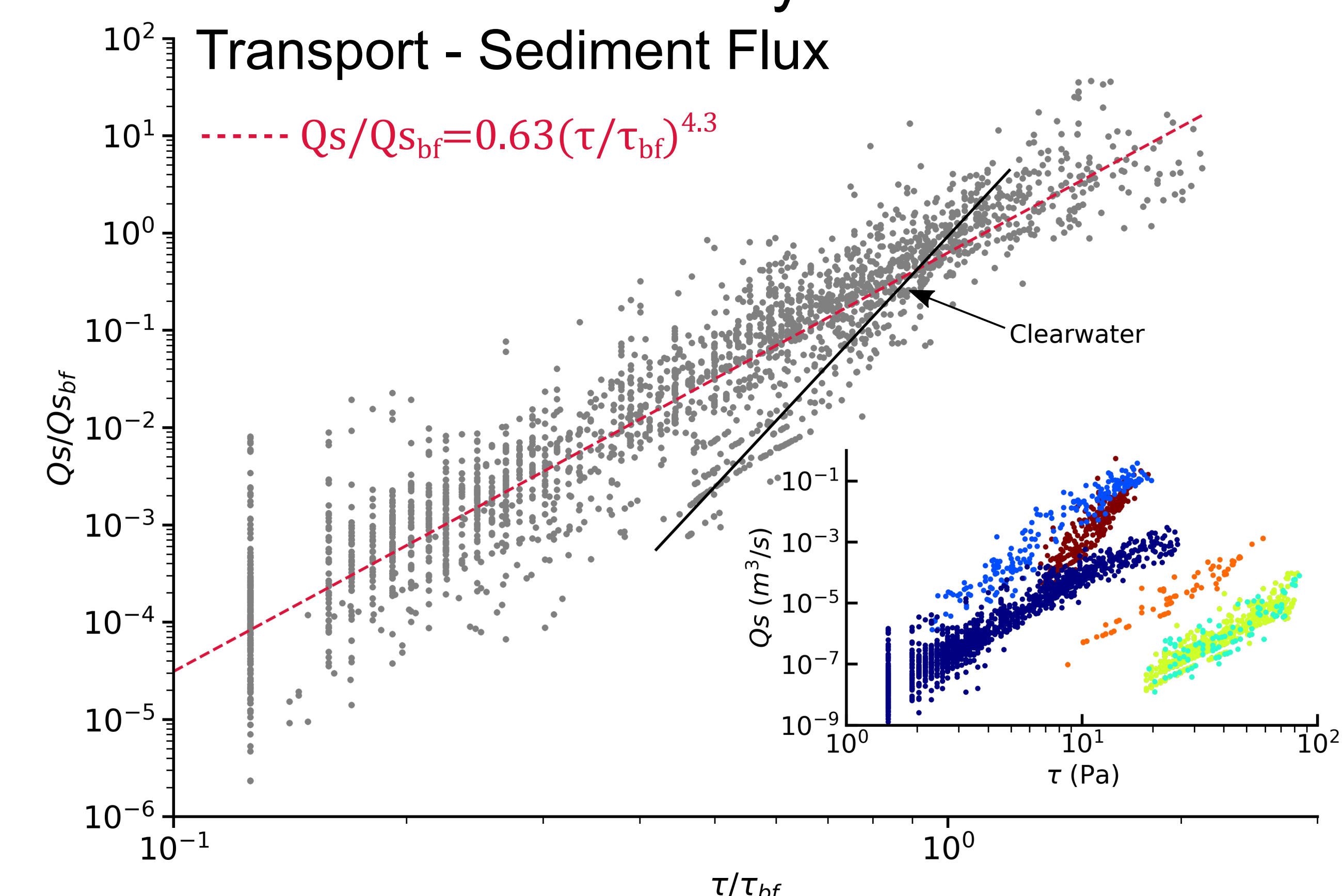
High Resolution Suspended Sediment



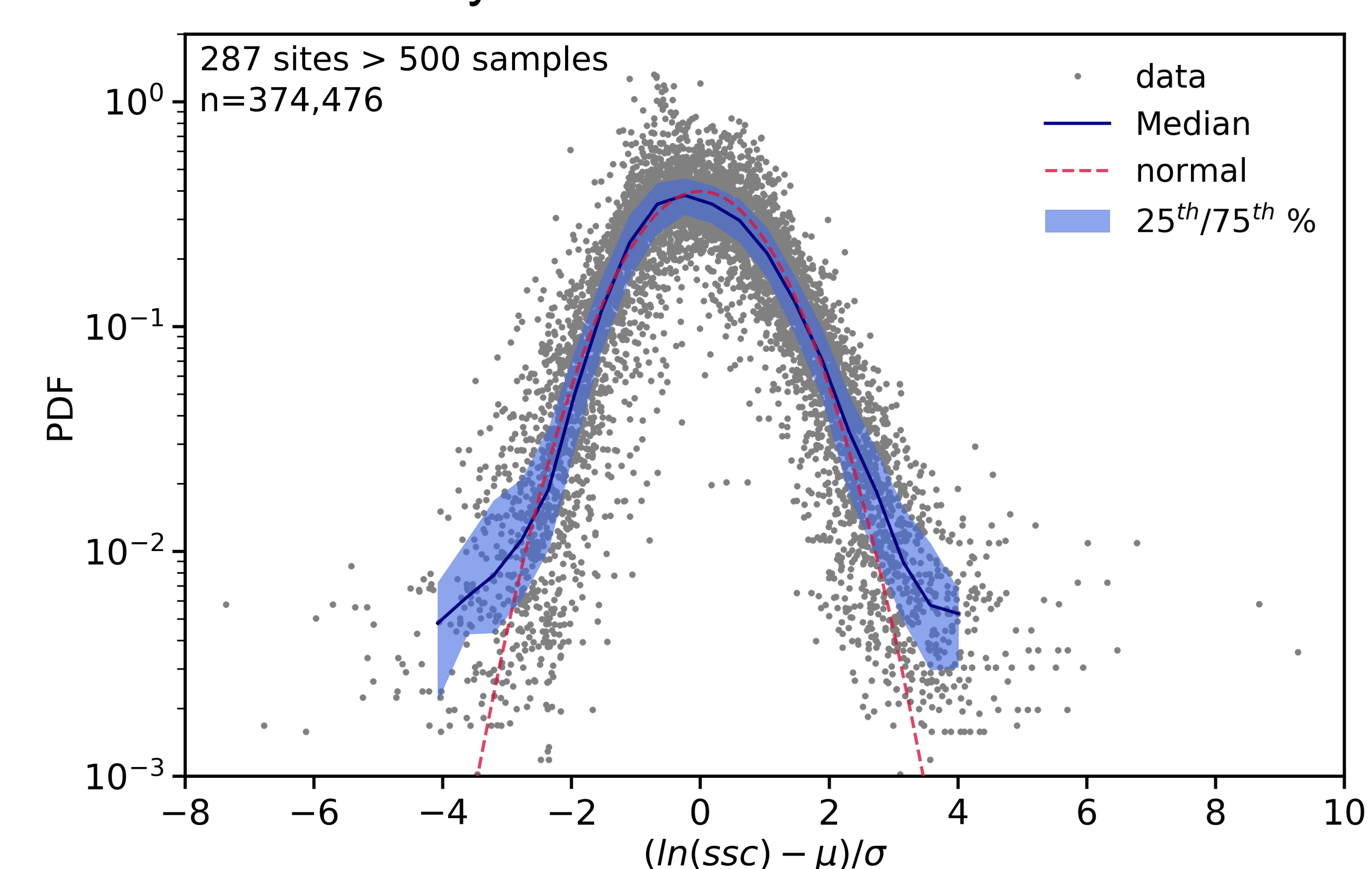
Key Points

- Suspended Sediment & Fine Particles represent**
1. A substantial (>50%) fraction of the mass leaving a watershed.
 2. Water quality concern.
 3. Potential to both degrade and enhance local ecosystem services.
 4. A significant carrier of environmental nutrients & contaminants.
- Hypotheses**
- Minimal interaction leads to a more direct signal of external factors (e.g. land use, climate, and storm recurrence).
 - Significant interaction with the river bed leads to shredding of these signals. Placing a larger role on bed storage, resuspension, and bank erosion.
- Conclusions**
1. Remove signal of river self-organization to disentangle autogenic processes from external phenomena.
 2. Strong scaling with local hydraulic variables indicates a larger role for channel morphology and instream storage for fine particle transport.
 3. Further, these relations provide a strong basis for estimating suspended sediment transport in ungauged or minimally monitored catchments.

Multisite dynamics



Probability - Concentration



Methods and Data compilation

