

- features due to complex climatic and geomorphic conditions. flood behavior and landscape evolution models.
- **networks** in the Tibetan Plateau.



Dataset

- 90-m-resolution SRTM DEM
- Aridity Index(AI) from Global Aridity Index and Potential Evapo-Transpiration Climate Database

Features and controlling factors of drainage networks in the **Tibetan Plateau**

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Generators of RSN model obey a geometric distribution and self-similarity holds in a statistical sense in 21 of 30 basins in Tibetan Plateau. Though some indication of climatic influence on parameters of low-level rivers is detected, this influence on the generators is not statistically significant. **Future work**: 1) Explore factors contributing to basins' deviation from scale invariance; 2) Quantitatively analyze the impact of other factors (e.g., tectonic controls) on the drainage networks.

Table	racions Si	gimeance
factor —	p-value	
	30 basins	21 basins
type	2.20E-16	2.20E-16
level	4.32E-06	0.0674
basin	0.0003	4.44E-05
type : basin	0.0022	0.0068
level : basin	0.9907	0.9997