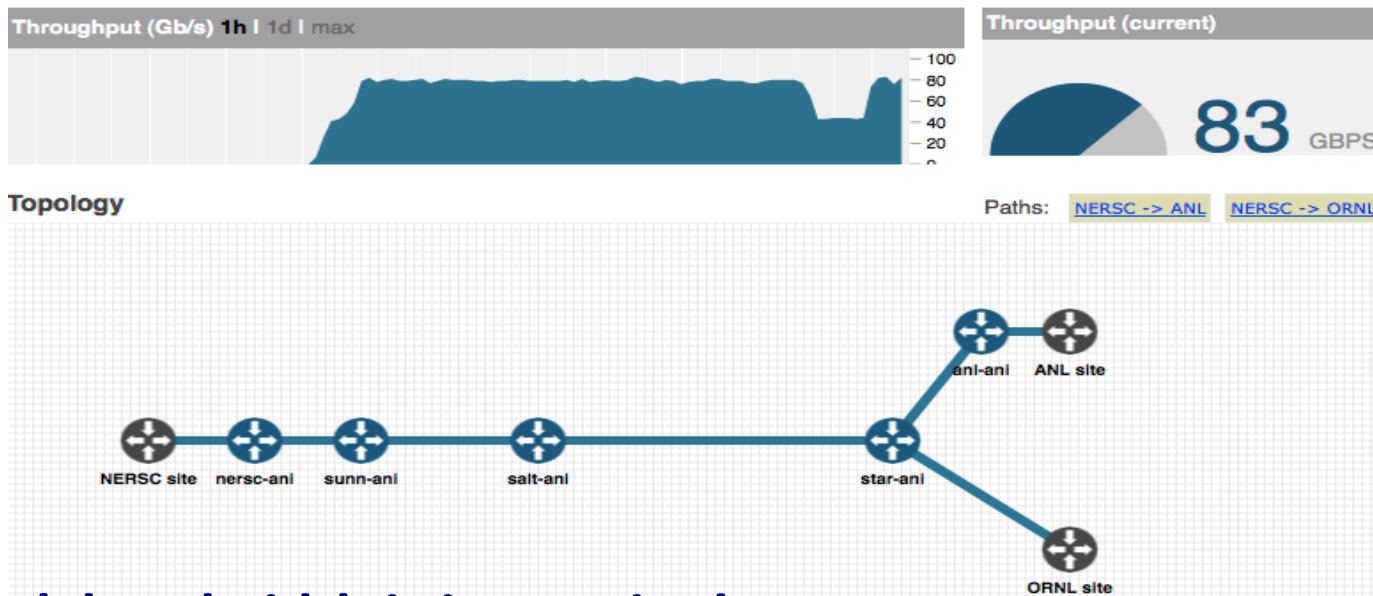# Climate100: Scaling Climate Applications to 100Gbps Network

Network bandwidth is increasing!

Problems

- Total size of data is increasing.
- There are many files, relatively small files, in climate datasets.
- It requires efficient methods to fully utilize the underlying network infrastructure with limited resources.

Recent Accomplishments

- Entire IPCC AR4 CMIP-3 (~35TB) is moved under an hour from LBNL/ NERSC to ANL and to ORNL over 100Gbps network link.
  - Achieved 83Gbps on average over TCP connections

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