

ISU limnogeology and the EPSCoR science focus:

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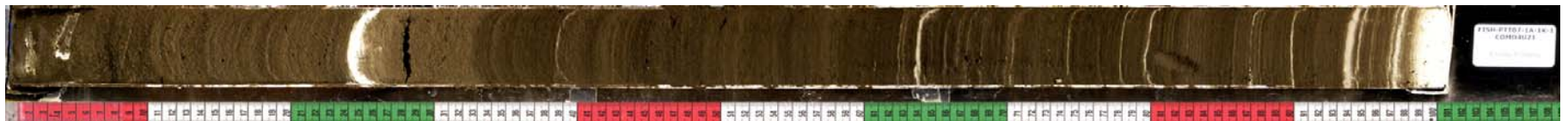
Glenn Thackeray

Eric Johnson



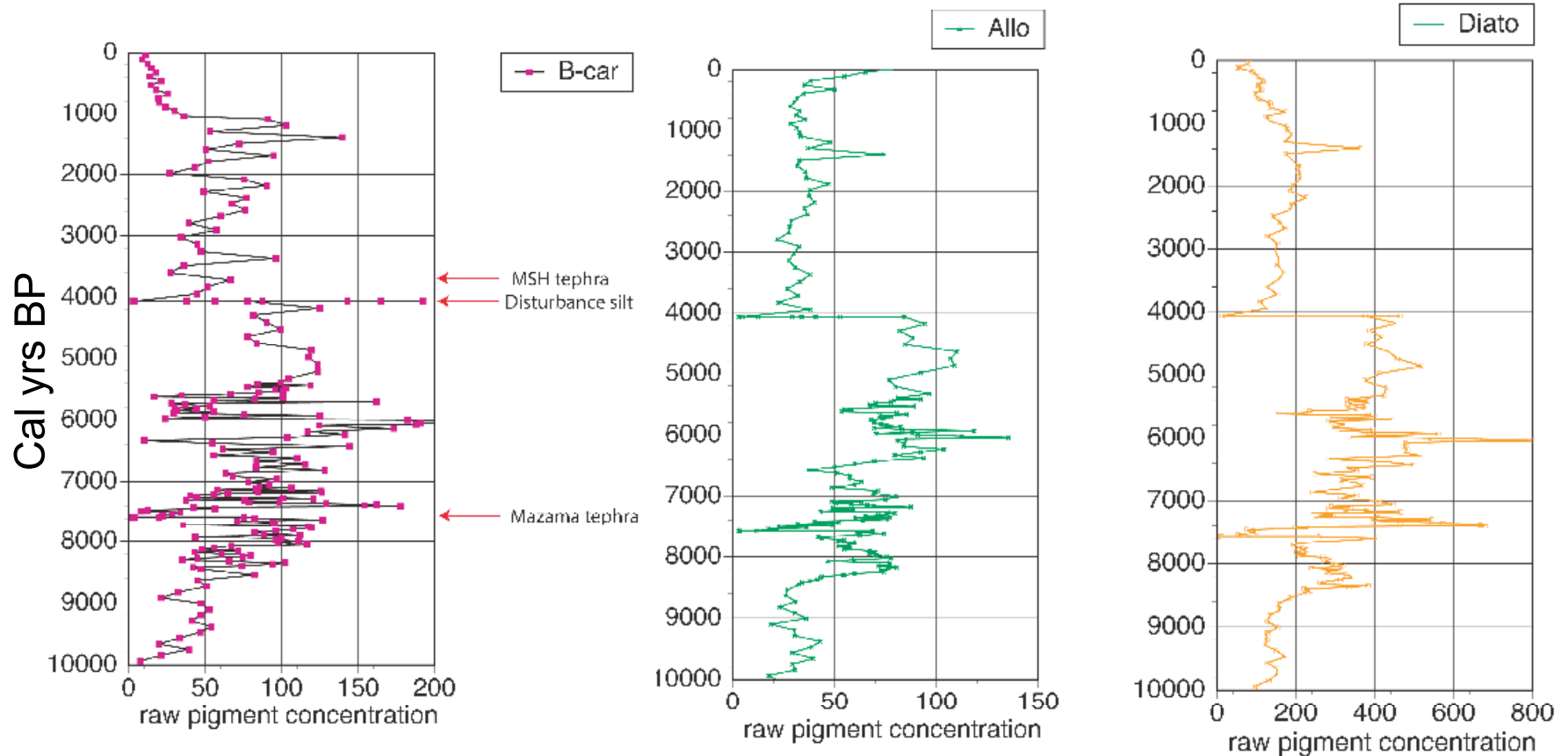
Paleolimnology themes mandated by the nature of
Salmon Basin lakes and watersheds

1. Disentangling high-frequency hydroclimatic signals and aquatic ecosystem response from rare events with persistent effects



2. Establishing the influence of on-going Holocene lake genesis on watershed functions and lacustrine climate signals

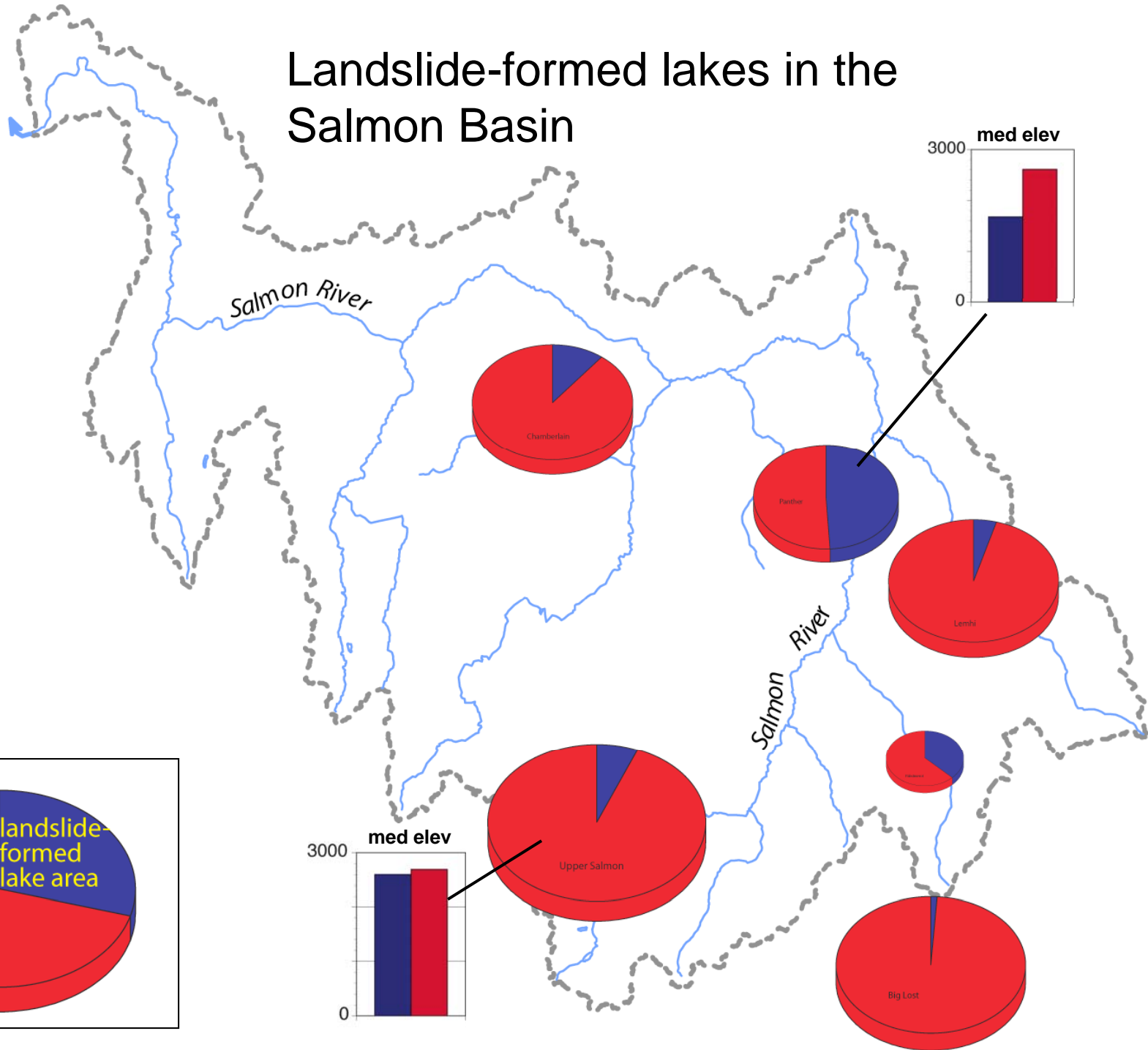


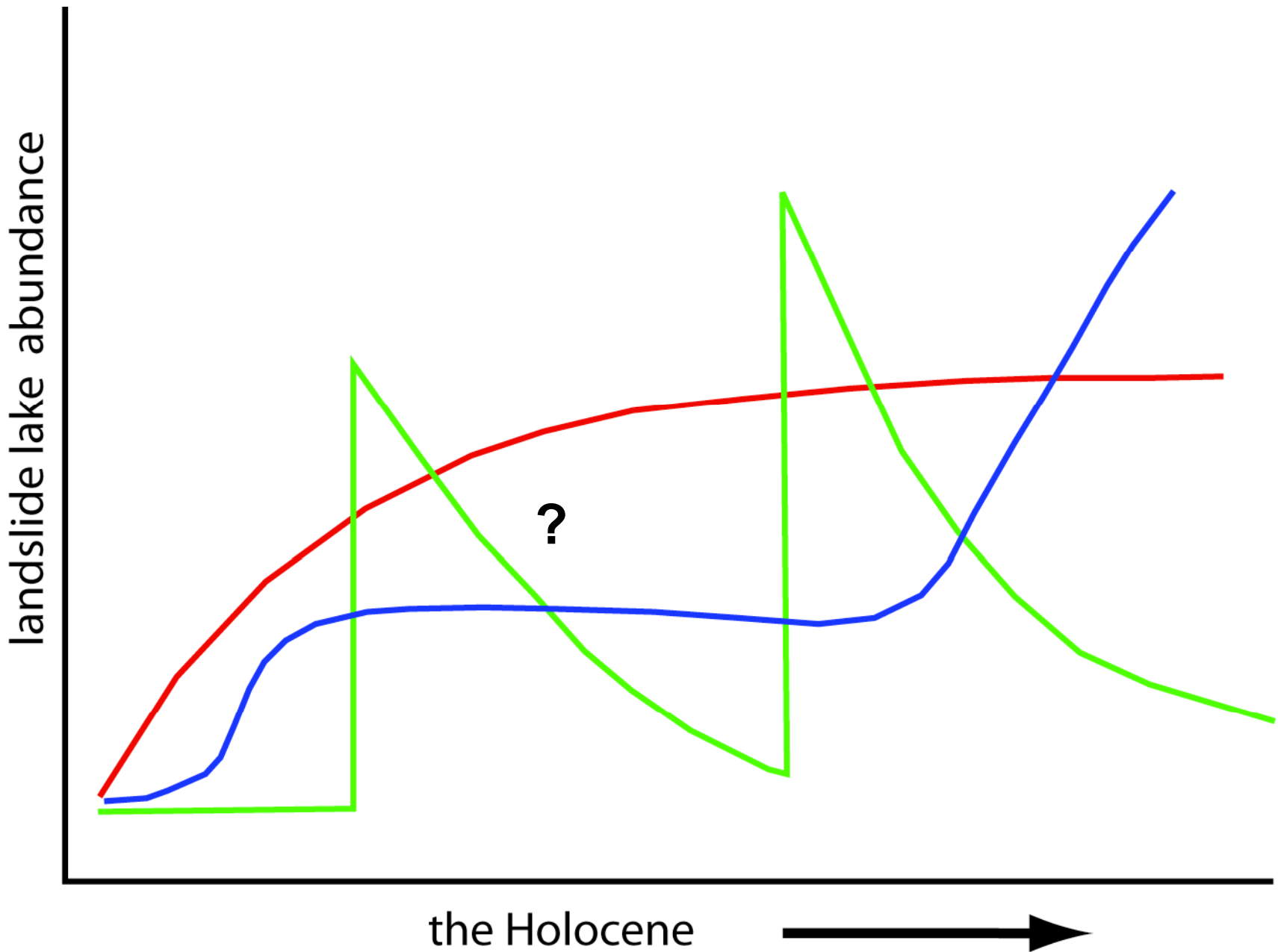


Redfish Lake: persistent changes in biomarkers following large seismically triggered siltation event....

Threshold reorganization in productivity and food web structure??

Landslide-formed lakes in the Salmon Basin





?

the Holocene

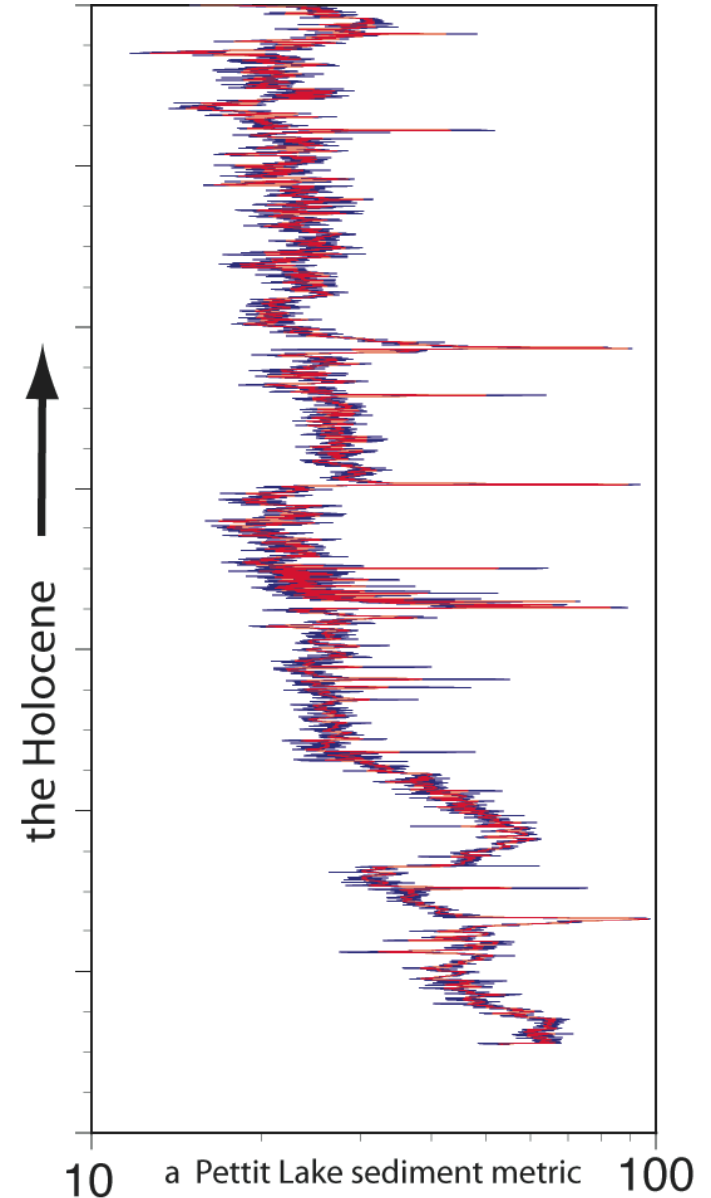


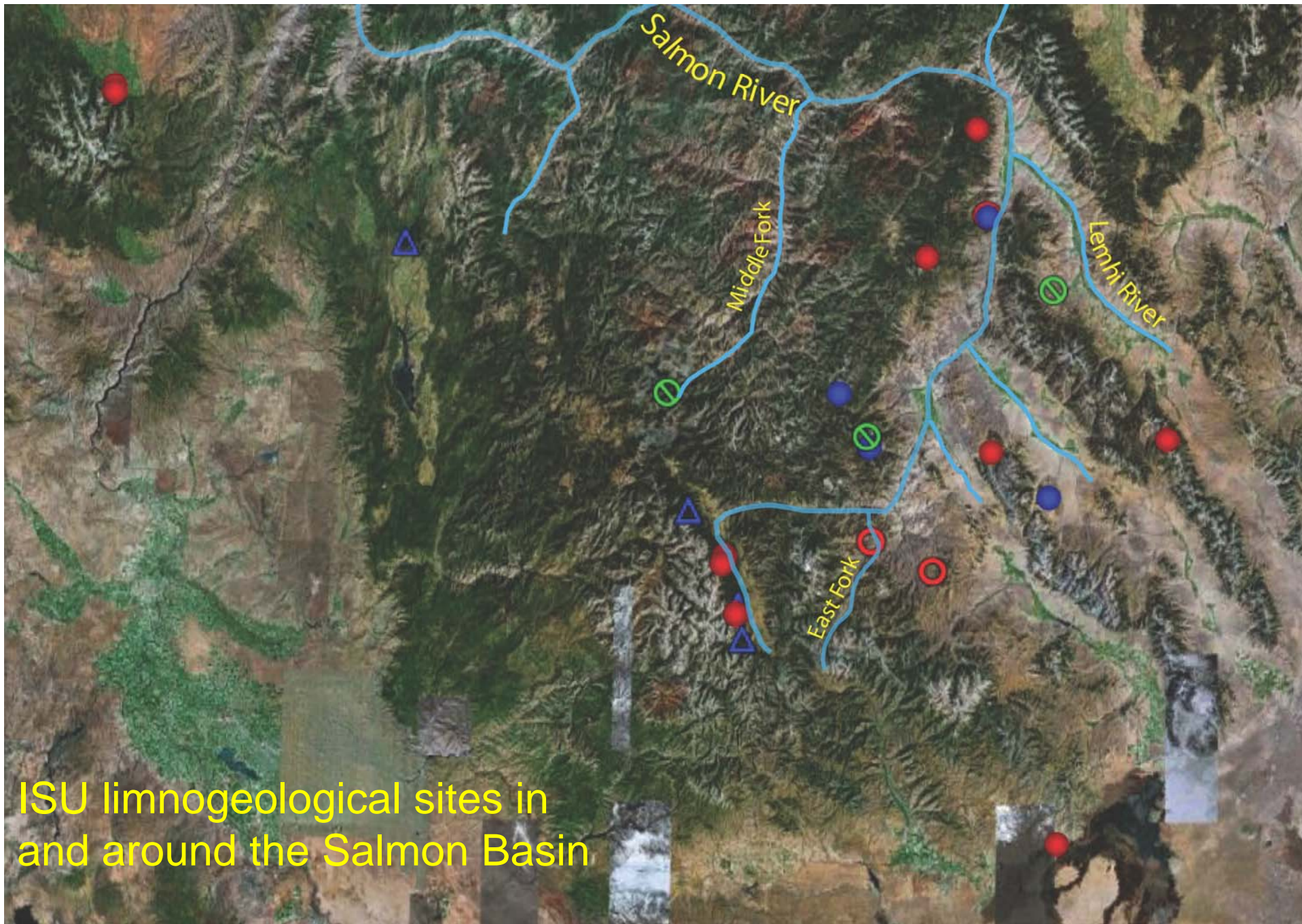
Rare lacustrine events: More than a novelty

As filters/overprints applied to high-resolution data sets (isotopes, etc)

As determinants of lake sediment processing in the larger landscape

As ecosystem restructuring agents that may persist for millenia





ISU limnogeological sites in and around the Salmon Basin

● Full Holocene cores

● Later Holocene cores (millennial)

△ Archival cores, later Holocene

○ Planned Holocene cores

⊖ Reconnaissance short cores



A, B. Drainage impoundments
C, D. Failure-zone basins