

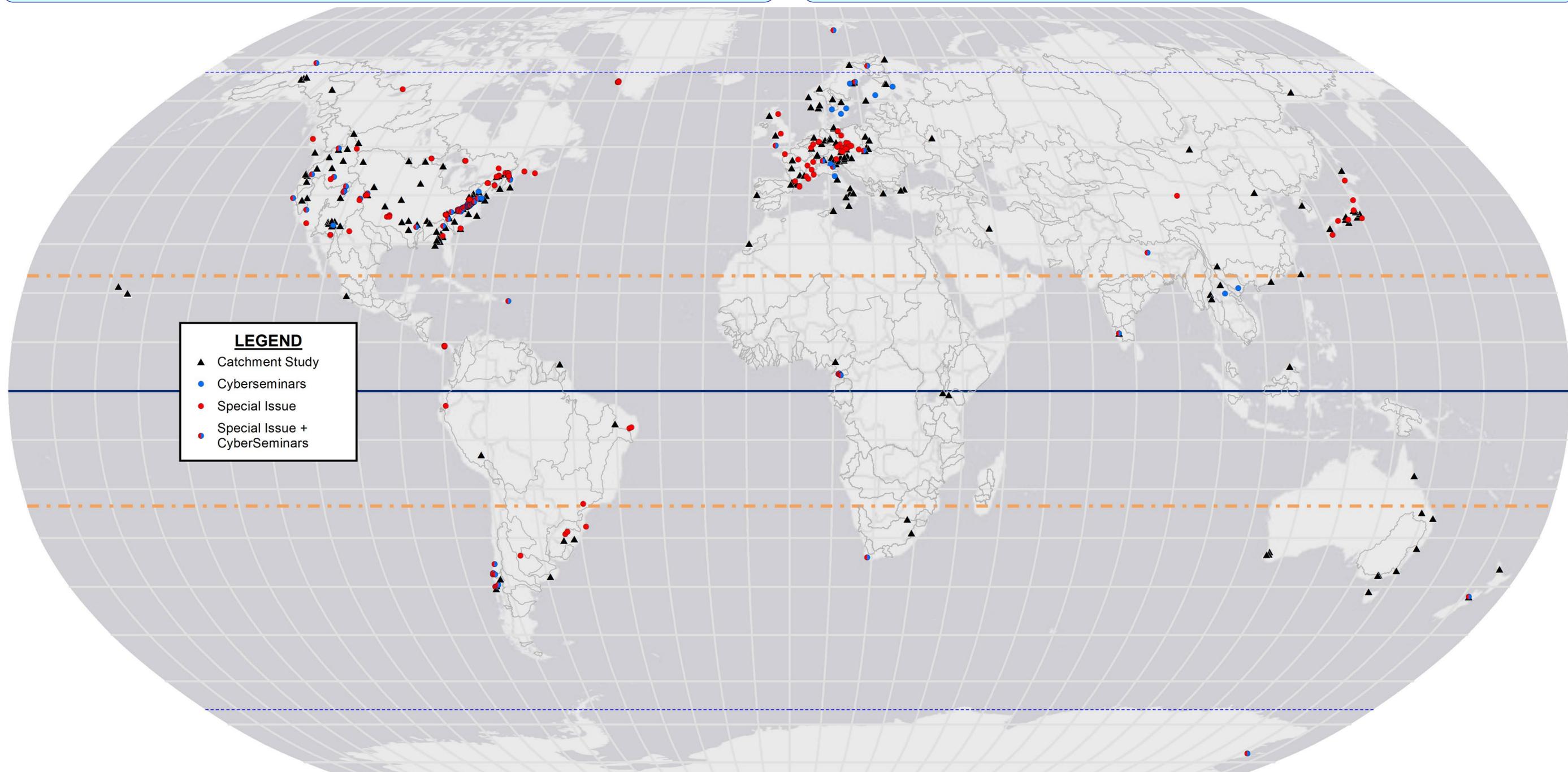
RESEARCH AND OBSERVATORY CATCHMENTS: PROMOTING THE SITES BEHIND THE RICH LEGACY OF KNOWLEDGE DISCOVERY AND INNOVATION

Stephen Sebestyen¹, Jamie Shanley², Theresa Blume³, Jon Duncan⁴, Julia Jones⁵, Catalina Segura⁵, Alisa Mast⁶ with input from the global catchment science community

¹USDA Forest Service, Grand Rapids, MN; ²US Geological Survey, Montpelier, VT; ³GFZ German Research Centre for Geosciences, Potsdam, Germany;
⁴The Pennsylvania State University, University Park, PA; ⁵Oregon State University, Corvallis, OR; ⁶US Geological Survey, Denver, retired

BACKGROUND: Catchment studies provide foundational scientific knowledge that is relevant to policy, resource management, education, outreach, and public awareness of the environment and environmental problems. Through a concerted effort to highlight the catchments and catchment studies behind a rich legacy of scientific findings, we have led several efforts to promote long-term and place-based research at monitoring, observatory, and ecosystem studies.

BUILDING A MAP OF SITES: Through various efforts, we have assembled a map of catchment studies. Those efforts include sessions at AGU and other professional meetings, a special issue of Hydrological Processes (red symbols on the map), and a CUAHSI Cyberseminar series (blue symbols) on monitoring and observation at research catchments that span the globe. Bicolor symbols represent catchments included in both efforts and black symbols represent other catchment studies that are known to us.



LEGEND

- ▲ Catchment Study
- Cyberseminars
- Special Issue
- Special Issue + CyberSeminars

Map imagery from Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

PROGRESS:

- **AGU Fall Meeting 2019:** 70 catchment studies presented in a Catchment Showcase.
- See the Hydrological Processes special issue, [https://onlinelibrary.wiley.com/doi/toc/10.1002/\(ISSN\)1099-1085.research-catchments](https://onlinelibrary.wiley.com/doi/toc/10.1002/(ISSN)1099-1085.research-catchments)
- Watch the CUAHSI Cyberseminars, <https://www.cuahsi.org/education/cyberseminars/2021-winter-cyberseminar-series-research-and-observatory-catchments-the-legacy-and-the-future/>

MOVING AHEAD:

- We continue to promote the catchments. Let us know of more sites (email stephen.sebestyen@usda.gov).
- Attend the Promoting and Advancing Catchment Science Town Hall (TH33N), <https://agu.confex.com/agu/fm21/meetingapp.cgi/Session/123203>
- Join a session about the research catchments at the 2022 Frontiers in Hydrology Meeting, <https://agu.confex.com/agu/hydrology22/prelim.cgi/Session/143159>