

ACWI SOS, Climate and Sediment Workgroup

DRAFT document

Draft title: Impact of extreme events and climate change on sediment dynamics and geomorphology in the U.S.

Possible Outline

1. Introduction
  - a. Research problem: No sediment in National Climate Assessments
  - b. Research objectives: Determine previous studies and knowledge gaps on climate and sediment
2. Methods
  - a. Which journals looked at:
  - b. Search terms:
  - c. Etc.
3. Results
  - a. State of the science: scope of existing research, current projections, and adaptation strategies in the U.S.
    - i. Nationwide studies (if applicable)
    - ii. Regional studies – West, Central, East (section on each region)
4. Discussion:
  - a. Knowledge gaps
    - i. Nationwide
    - ii. Regional studies – West, Central, East (hot topics, gaps specific to each region)
    - iii. Research needs
  - b. Synthesis
    - i. Nationwide
    - ii. Regional studies
    - iii. Implications for resource management (target audience: local, state, federal resource management agencies and researchers)
      1. Infrastructure
      2. Reservoir sustainability
      3. Dam removal
      4. River restoration
      5. Hazard response (flooding, landslides)
      6. Ecology

## 5. Conclusions