

RECLAMATION

Managing Water in the West

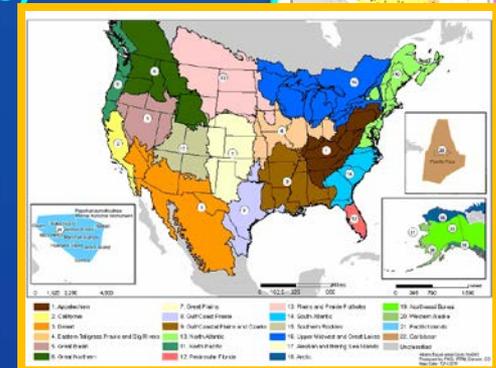
Summary of Climate Change Orientation Seminar Talks



U.S. Department of the Interior
Bureau of Reclamation

Use of Long-Term Doc to inform BOR Climate Change Preparedness and Resilience Work

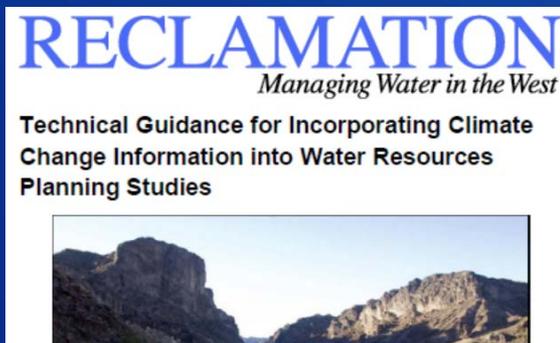
- CCAWWG Needs → [R&D Science & Technology Program's Collaborative Research with...](#)
 - CCAWWG Agencies (including DOI CSCs)
 - NCAR, CIRES, Universities
 - LCC networks (informing FOAs from Southern Rockies and Desert LCCs)
- Collaborative Research → products for Strategy, [WaterSMART](#) and other implementing Programs
 - Bureau-wide [Strategy](#) and [Policy](#)
 - **Basin Studies (cost-shared w/ non-Fed partners)**
 - **West-wide Climate Risk Assessments (e.g. demands)**
 - **Landscape Conservation Cooperatives (SR, Desert)**
 - Guidance: Feasibility Studies & Environmental Compliance
 - Pilots to develop Guidance: Dam Safety
 - Pilots to develop Guidance: Reservoir Operations Criteria Updates
 - Pilots to develop Guidance: Infrastructure Asset Management



Guidance: Climate Change in Feasibility Studies



- Supports implementation of Reclamation Feasibility Studies Directives & Standards (CMP09-02), which **requires effects of climate change to be considered in future without-project condition.**
- **Framework here is applicable to other Communities of Practice.**



D&S:

<http://www.usbr.gov/recman/cmp/cmp09-02.pdf>

Guidance:

<http://www.usbr.gov/WaterSMART/wcra/docs/WWCRATEchnicalGuidance.pdf>

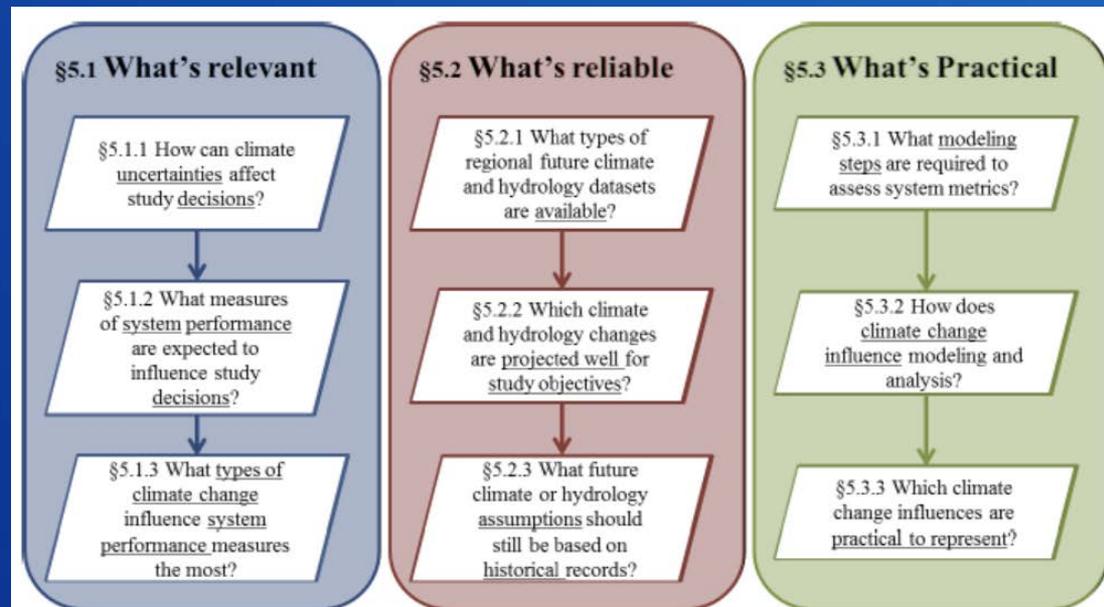


Figure 3 Questions to address during the scoping process.

What's worked?

- **CCAWWG Needs → Collaborative Research**
 - **Addressing LTdoc area 2 – Obtain Climate Information:** understanding strengths/weaknesses of global climate modeling and downscaling methods; development of better downscaling methods)
 - **Addressing LTdoc area 3 – Make Decisions about which Climate Info to use and how:** characterizing extreme precipitation under climate change, developing frameworks to make judgments on which climate info to use in longer-term planning)
 - **Addressing LTdoc area 4 – Assess Natural Systems Response:** understanding strengths/weaknesses of hydrologic projection methods, including potential ET estimation methods)
 - **Addressing LTdoc area 7 – Characterize Uncertainties:** mainly progress in association w/ area 2-4 research
- **Collaborative Research products for implementing Programs**
 - Supporting development of adaptation frameworks, particularly those used by longer-term planning and environmental compliance communities

What Still Needs Attention?

- **LTdoc areas 2 (Obtain Climate Information), 3 (Make Decisions on which Climate Info to use/how), 4 (Assess Natural Systems Response), and 7 (Characterize Uncertainties).**
 - Understanding how to answer: What's relevant? What's reliable?
 - Having methods to address fuller suite of natural system responses: e.g., water-related ecosystem and/or species conditions, water quality, sedimentation...
- **LTdoc areas 5 (Assess Social Systems Response), 6 (Evaluate System Risks), and 8 (Communicate Results to Decision-Makers)**
 - Not as much activity here – why? Are these really areas of need? If yes, how should we refine our statements, and