

# Needs for S2S Information, Tools and Resources for Water Resources Outlooks

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## Why?

- Pinpoint needs and gaps at S2S timescales
- Help NWS programs prioritize future investments

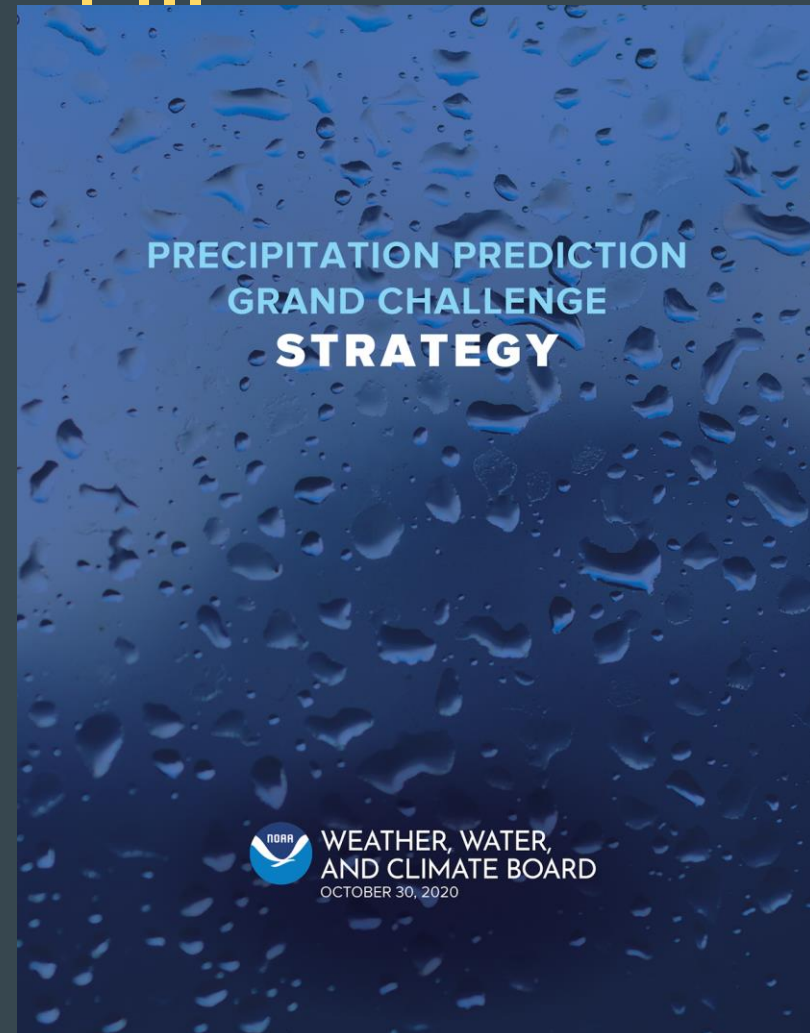
## How?

- Recent workshop reports
- NOAA strategic priorities documents
- Interviews with NWS subject matter experts

# Most important need: Improved precipitation prediction

Benefits to water resources outlooks at S2S timescales include:

- Drought prediction
- Long-range hydrologic simulations
- Spring flood outlooks
- Seasonal snow outlook development



# Additional needs to improve water resources outlooks at S2S timescales

- Prioritize **long-range simulations** in National Water Model development & evaluation strategy
- Conduct a stakeholder needs assessment specific to **low-flow prediction**
- Align **flash drought** investment with NIDIS's priorities (Woloszyn et al., NIDIS, 2021)
  - Clarifying the concept of flash drought
  - Flash drought predictability
- Prioritize development of **multi-decadal, gridded datasets**
  - Snow (Hurwitz et al., BAMS, 2020)
  - Soil moisture (US GEWEX Soil Moisture Workshop, April 2021)