2. Physiographic Data Sets

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Organize Discussion by Objective

- Flood Forecasting/Inundation Mapping
- Drought Forecasting
- Total Water Forecasting in Coastal Zones
- Water Quality
  - Point Source/Spills
  - Non-point Source
# Potential Outcome

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<th>Flood Forecasting</th>
<th>Drought Forecasting</th>
<th>Total Water</th>
<th>Water Quality-Point Source</th>
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Overarching Challenge

• Surface Data Sets
  • Improved resolution (NHD+) vs. enhancements (3D)
  • Incorporating additional data (e.g., SMAP for ponding?)

• Subsurface Data Sets
  • Much more challenging
  • On-line vs off-line use (e.g., SSURGO and STATSGO)
  • Re-classification of underlying data (e.g, Soil Pedon Data)
    • Extrapolation of sparse observation