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## DSM2 Users Group Meeting

# Developing Animation of DSM2 Outputs

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# Acknowledgements

- Bob Suits
  - Jim Wilde
  - Can (John) Dogrul
  - Tariq Kadir
  - Jon Shu
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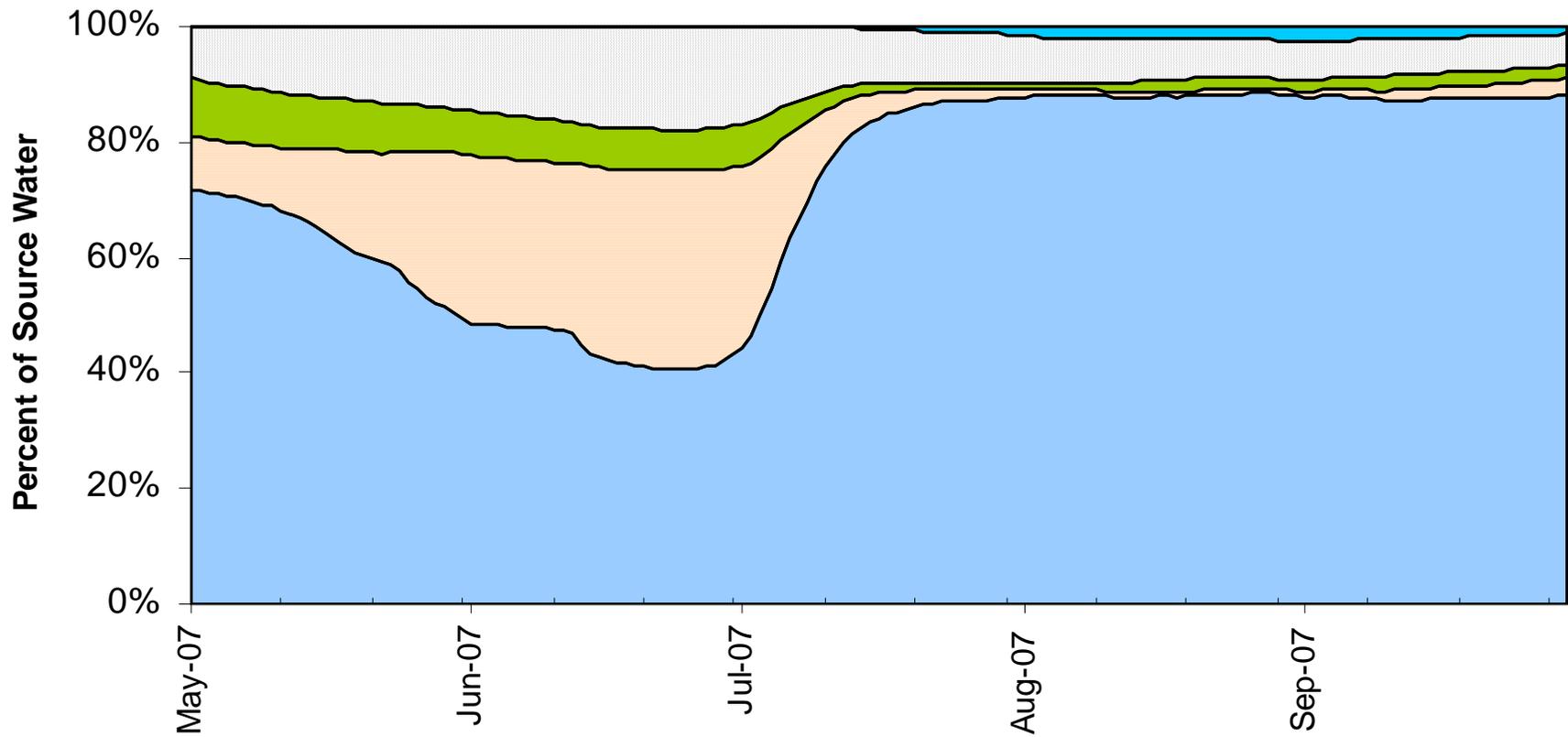
# Background

- Conventionally, modeling results are presented/analyzed as either
  - the temporal trend at a given location
- Or ...



### Modeled Volumetric Fingerprint at Clifton Court Forebay (SWP)

Legend: Sac (light blue), SJR (light orange), East (green), Delta (light grey), Mtz (cyan)



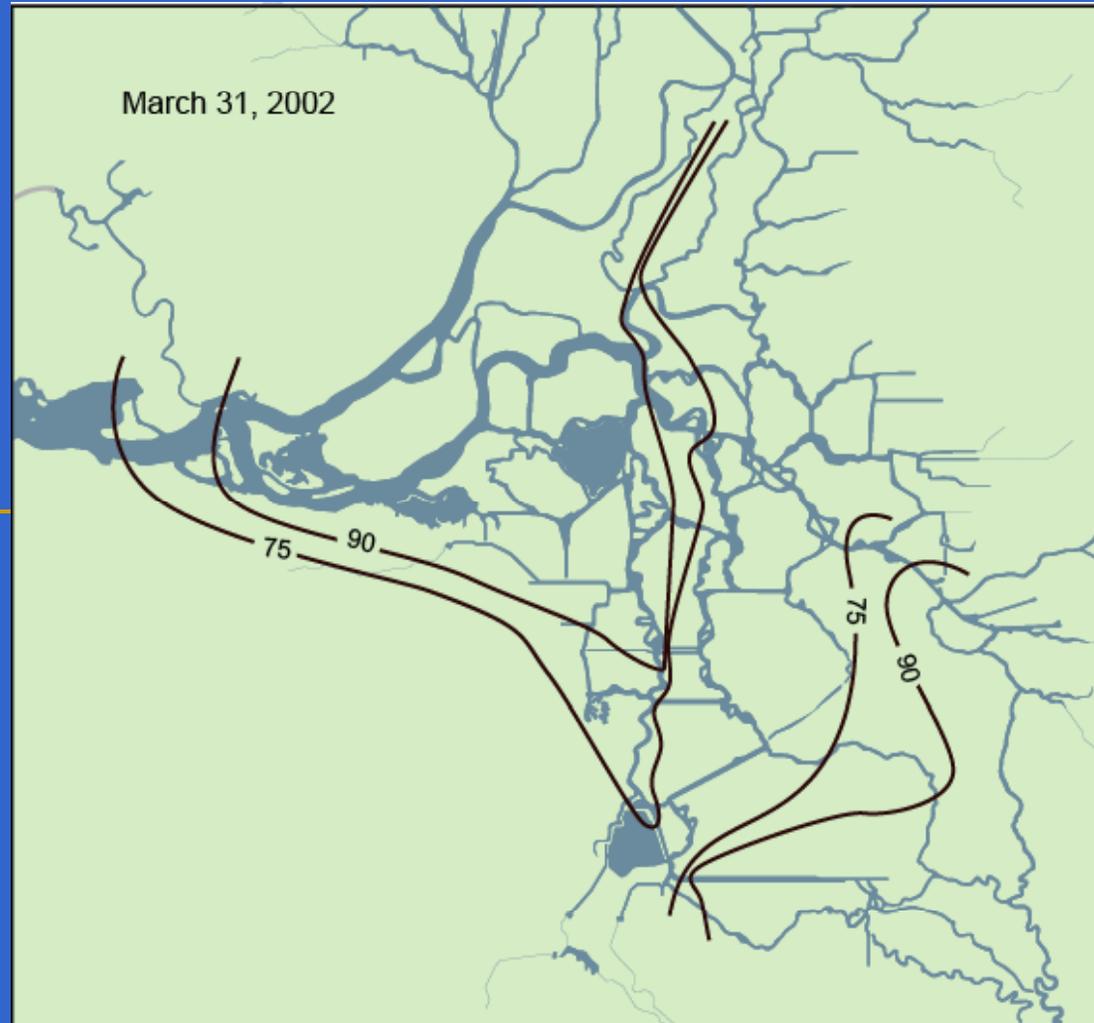
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# Background (Cont'd)

- Conventionally, modeling results are presented/analyzed as either
    - the temporal trend at a given location
  - Or
    - the spatial pattern at a give time.
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# DSM2-Simulated Volumetric Fingerprints for Historical Conditions

## Sacramento and San Joaquin Rivers



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## Background (Cont'd)

- Conventionally, modeling results are presented/analyzed as either the temporal trend at a given location, or the spatial pattern at a give time.
  - Contour animation is able to present modeling results with variations both in time and space.
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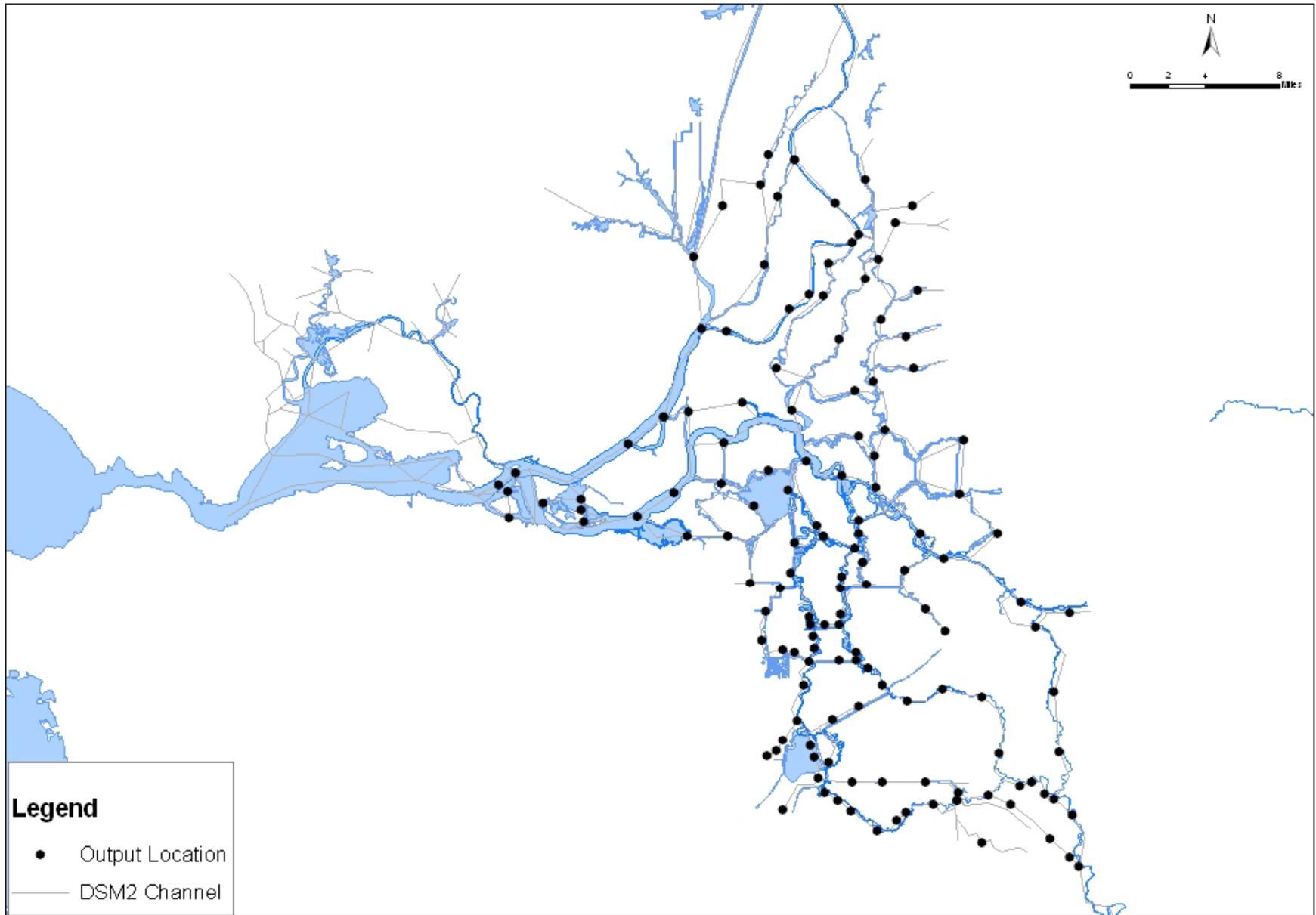
# Purpose

- To show the steps of developing the animation of DSM2 modeling outputs.
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# Steps

- Designed a network of output locations
    - Not too many to burden the computer
    - Not too few to affect the contour quality
  - Selected 149 locations (as shown on the next slide)
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### DSM2 Fingerpring Output Locations

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## Steps (continuous)

- Extracted the 149 time series modeling results (EC or Volumetric Fingerprint) from DSS format and wrote them into text format.
  - Developed a Surfer 8.0 script to automatically contour and export XYZ in ascii format.
  - Developed a Fortran code to convert the XYZ files into Tecplot format.
  - Used Tecplot-360 to generate and export animated file in .avi format.
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## Steps (continuous)

- Used Camtasia to overlay Tecplot-360 avi file with Delta channels, and exported animation in avi format.
  - Used MS Powerpoint to load and play multiple animation scenarios at the same time (for easy comparison).
  - Used SnagIt to capture screen animation and export it in avi format.
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# Additional Animation Show

- Comparison of EC for different scenarios



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Questions ?

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