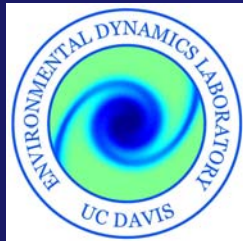
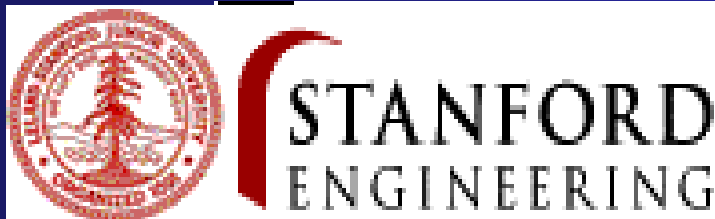


Hydrodynamic and Oxygen Modeling of the Stockton Deep Water Ship Channel ERP-02D-P51



Civil & Environmental Engineering

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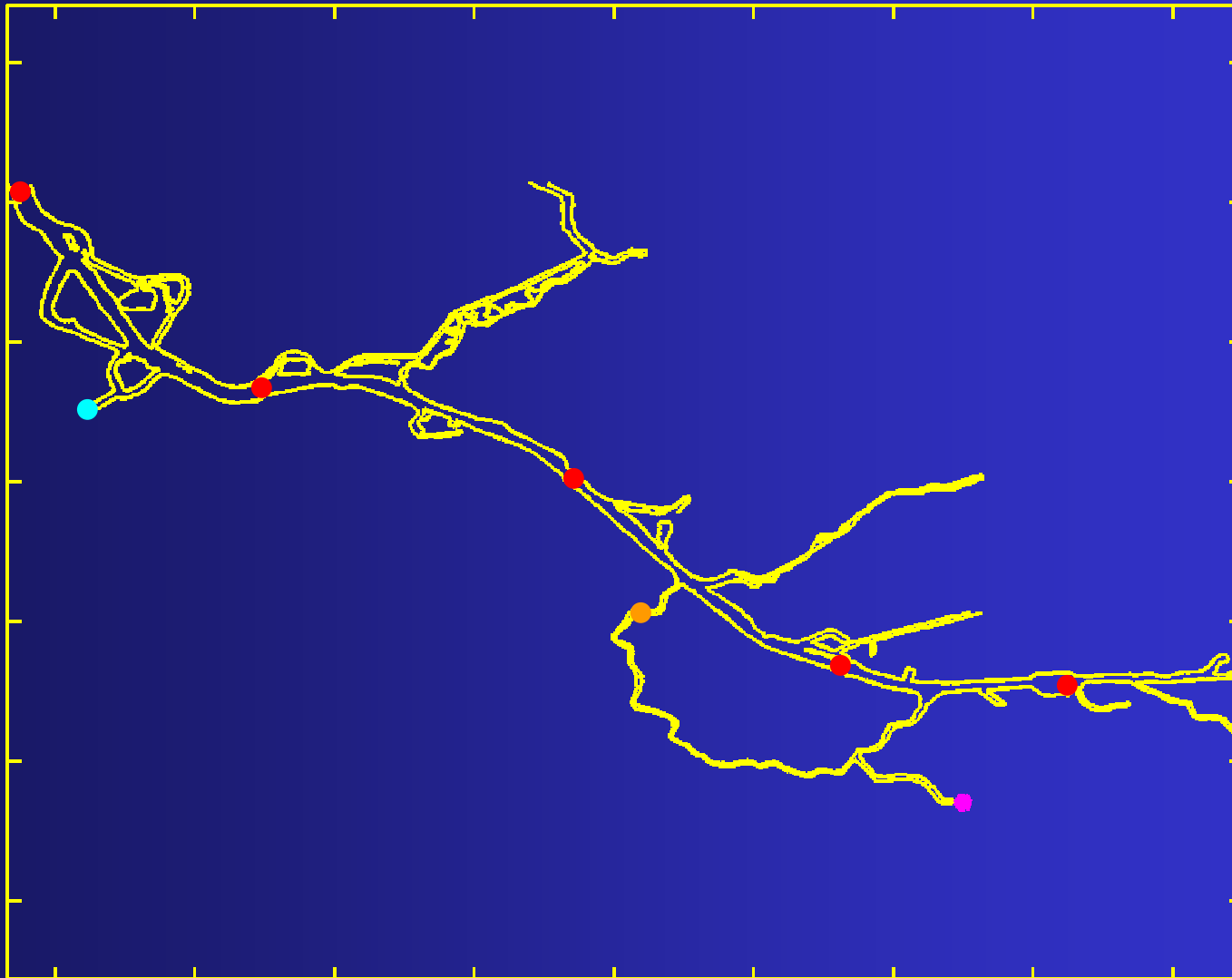


Field Data Collection

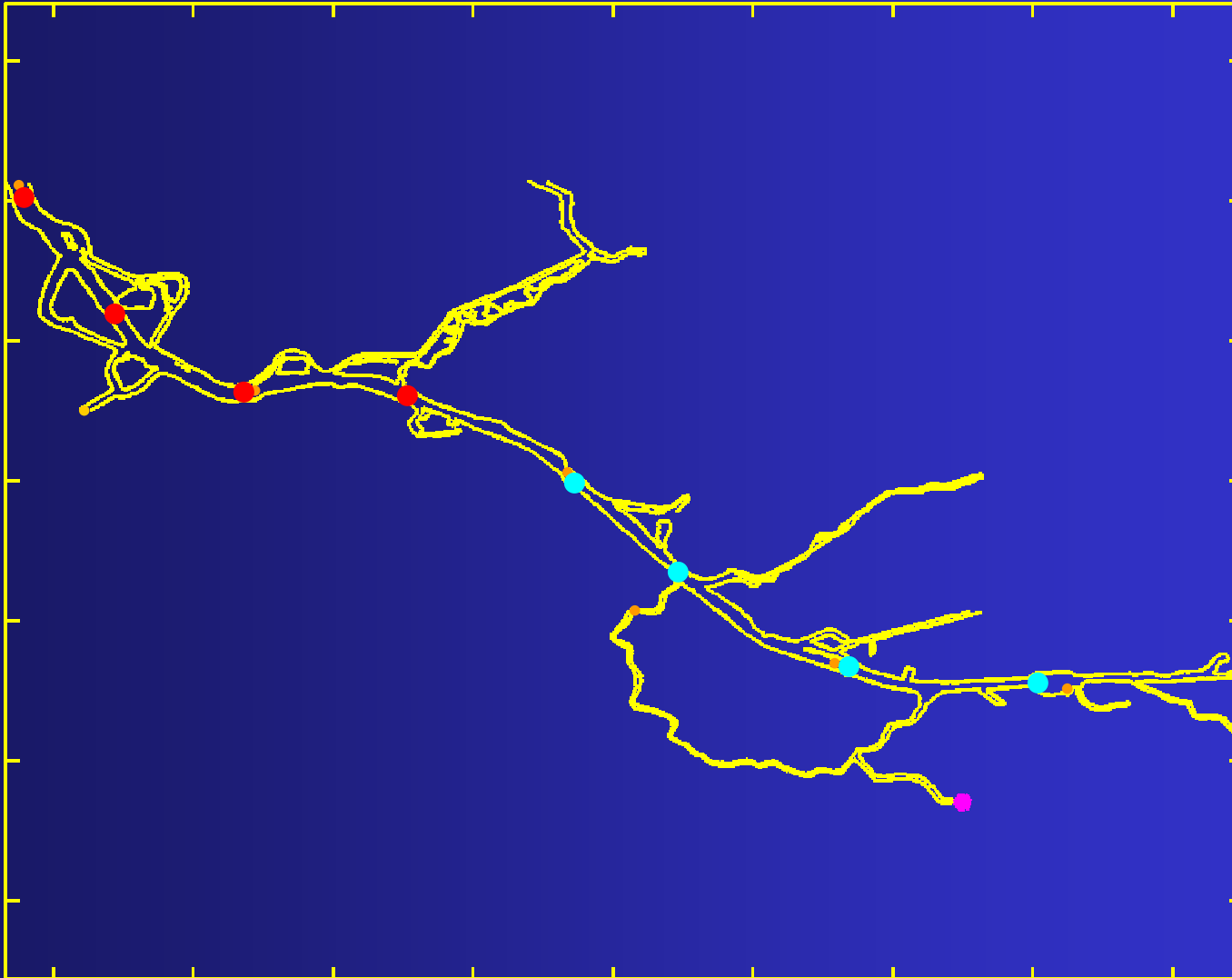
- UP to three 1-month studies
- 2-days of concentrated transects of velocity and water quality during each month
- 2 tracer studies

First Field Study

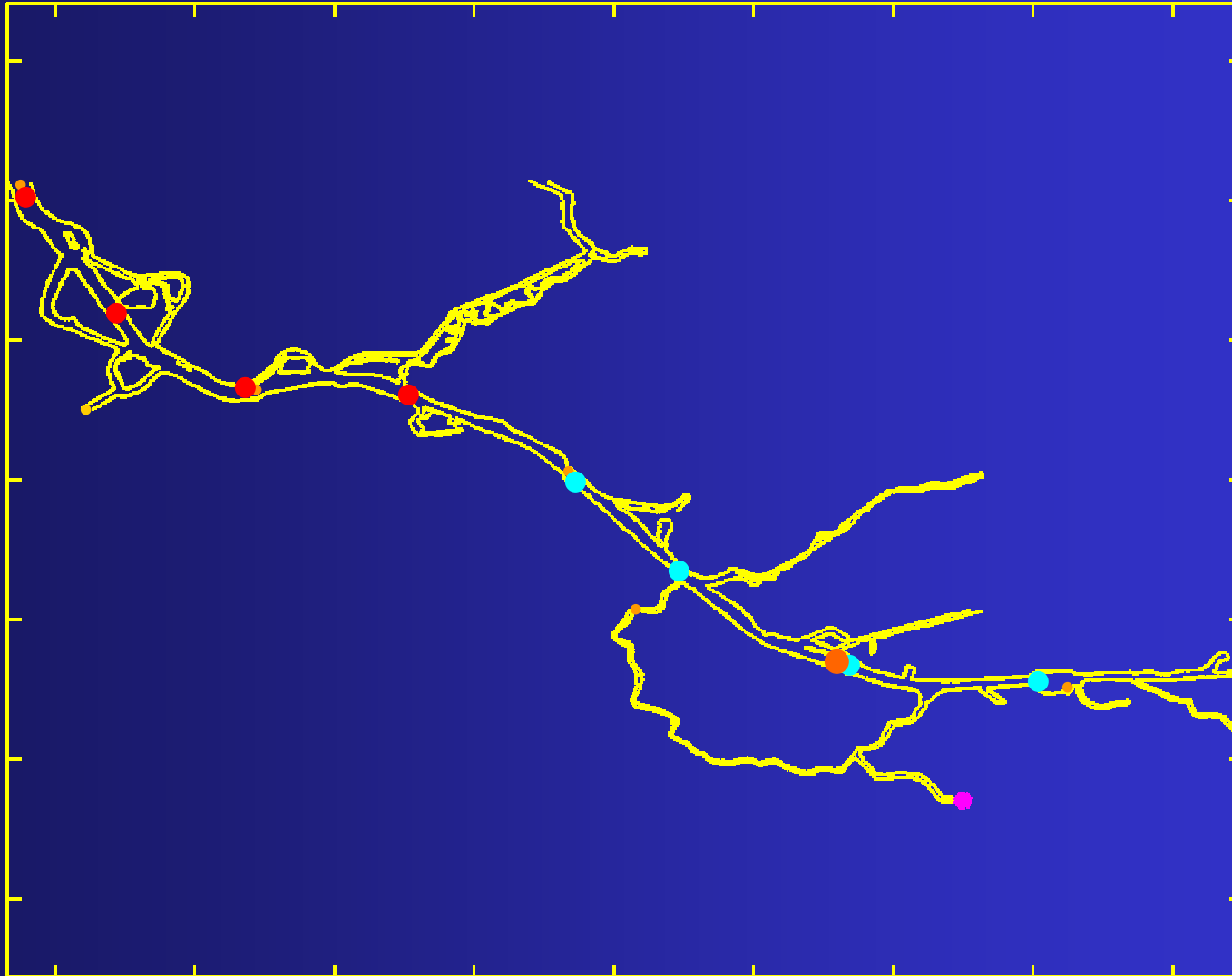
August 2 – September 2, 2004



Concentrated Transects August 9 & August 16, 2004



30-hour single site study August 9 & August 16, 2004



30-hour single site study August 9 & August 16, 2004

- SCAMP microstructure profiler:
 - vertical turbulent mixing rates
- SeaBird SBE-25 profiles:
 - temperature, conductivity, Chl-a, obs, transmissivity, DO, PAR
- Pump and filter water for laboratory analysis at 6 depths every 2-hours:
 - NH_4 , NO_3 , TKN

Numerical Modeling

- Preliminary from Pete Smith, USGS