This Year’s Plan Is Jam-Packed!

- 43 Projects
- 97% have collaborators
  - Over half bring outside expertise
- 89% have attracted external/match funding
- None are single year projects
Example New Initiatives

- Ocean acidification and hypoxia
- Stormwater BMPs
- Quantitative microbial risk assessment (QMRA)
- New data technologies
- Regional monitoring
  - Bight ’13
Scientists have identified low DO events in the Bight - Historical POTW data analysis indicates this trend might be increasing

We are uncertain to what extent anthropogenic contributions exacerbate these effects

Our goal is to understand this linkage - Test new technology - Rate process experiments - Help build dynamic water quality models
Stormwater BMPs

● Existing BMP models focus mostly on surface water
  - Use “literature values”

● Serious predictions require linked watershed models
  - Hydrology-water quality
  - Mechanistic BMP effectiveness
  - Surface water-Groundwater
  - Biological response

● Our goal is to begin creating linked watershed models
  - Optimizing to achieve management goals
Quantitative Microbial Risk Assessment (QMRA)

- Tremendous effort has been spent cleaning up fecal pollution at beaches
  - Successful at removing most problematic human sources
  - Problematic non-human sources remain

- EPA has opened the door to QMRA for setting site-specific objectives for non-human sources
  - We are lacking good case-study examples, though

- Our goal is to conduct the first QMRA in California
  - Set the precedent for a technically sound QMRA
Interactions With CTAG
On Our Research Plan

- Started working with CTAG on our Research Plan in November
  - Dedicated agenda item at 3 of 4 quarterly meetings

- Enhanced CTAG interaction this year with a quantitative survey

- CTAG has endorsed our Draft Research Plan