

SBDS, 2015 Chapters and Authors

1. Recent discoveries that have changed our understanding of the Delta (*summarizes main points from following chapters and incorporates the “10 things we know about the Delta” concept*). **Authors: Peter Goodwin, Michael Dettinger, Michael Healey, and Dick Norgaard (SBDS, 2015 Editorial Board)**
2. *Challenges Facing the Sacramento-San Joaquin Delta: Complex, chaotic or simply cantankerous?* **Authors: Sam Luoma (UC Davis), Johnnie Moore (University of Montana), Michael Healey (University of British Columbia, Emeritus), Cliff Dahm (University of New Mexico, Emeritus and Delta Lead Scientist) <http://escholarship.org/uc/item/3nd0r71d>**
3. Climate change and the Delta, water supply, sea level rise, temperature, and implications for Delta habitats, natural and restored. **Authors: Mike Dettinger (USGS, Scripps Institution of Oceanography), Dan Cayan (USGS, Scripps Institution of Oceanography), Ed Maurer (Santa Clara University), Jamie Anderson (DWR), Larry Brown (USGS)**
4. Water and watershed management implications for water supply, including effects of forest management in headwaters. **Authors: Jay Lund (UC Davis), Roger Bales (UC Merced)**
5. Flow dynamics and transport of sediments, contaminants, and organic particles. **Authors: David Schoellhamer (USGS), Scott Wright (USGS), Brian Bergamaschi (USGS), Stephen Monismith (Stanford University)**
6. 2D and 3D Computational Flow Dynamics (CFD) models of the Delta, what they can tell us about distribution and movement of fish and food organisms and water supply. **Authors: Michael MacWilliams (Anchor QEA), Chris Enright (retired, Delta Science Program), Eli Ateljevich (DWR), Stephen Monismith (Stanford University)**
7. Water quality, contaminants and their effects on Delta species and water supply. **Authors: Val Connor (SFCWA), Stephanie Fong (SFCWA), Richard Connon (UC Davis), Jay Davis (SFEI), Lynda Smith (Metropolitan Water District of Southern California)**
8. Nutrient dynamics of the Delta and its effects on phytoplankton composition and production. **Authors: Cliff Dahm (University of New Mexico), Alex Parker (California Maritime Academy), Brian Bergamaschi (USGS)**
9. Delta food web dynamics, shallow water habitats as food factories, effects on native species. **Authors: Anke Mueller-Solger (USGS), Larry Brown (USGS), Wim Kimmerer (Romberg Tiburon Center), Louise Conrad (DWR), Sarah Lesmeister (DWR)**
10. Ecology of delta smelt in the Delta: distribution, migration, feeding, growth, stressors, status, etc. **Authors: Peter Moyle (UC Davis), Jim Hobbs (UC Davis), John Durand (UC Davis), Larry Brown (USGS)**
11. Ecology of salmonids in the Delta: distribution, migration, feeding, growth, etc. Effects of interior Delta flow fields. **Authors: Russ Perry (USGS), Pat Brandes (US Fish and Wildlife Service), Jon Burau (USGS), Rebecca Buchanan (University of Washington)**
12. Predators and their importance for native species. **Lead Author: Gary Grossman (University of Georgia)**

13. Landscape ecology and ecological restoration in the Delta, translating the findings of historical ecology. **Authors: John Wiens (Delta ISB, Colorado State University, Emeritus and PRBO), Michael Healey (SBDS, 2015 Editorial Board), Robin Grossinger (SFEI), Letitia Grenier (SFEI)**
14. Tools for assessing trade-offs and reconciliation of conflicting goals. ***This chapter will be part of a future update to SBDS.***
15. Building the One Delta-One Science system: potential, constraints, design features, benefits, costs. **Authors: Peter Goodwin (University of Idaho, former Delta Lead Scientist), Lindsay Correa (Delta Science Program)**
16. Delta Levee Fragility. **Lead Author: Steve Deverel (Hydrofocus)**