

DRAFT (11/12/19)

“Rapid Environmental Change” Events

Delta Independent Science Board Meeting Materials

Draft (11/12/19)

Representatives from the Delta Independent Science Board (Delta ISB) are advising a 2-member workgroup that was endorsed by the Delta Plan Interagency Implementation Committee on organizing a workshop in late April 2020 to identify key science needs to support long-term management in the context of rapid environmental change, and explore how the science enterprise should be organized to better address complex problems. Concurrent with this effort, the Delta ISB is also in the process of drafting a paper to draw attention to rapid environmental change and its implications on how science and management are done in the Delta. To help inform the Delta ISB efforts, staff have compiled a list of past and upcoming events related to rapid environmental change. If there are events to add, please e-mail disb@deltacouncil.ca.gov.

Upcoming Events

Date	Event Title	Host	Recorded	Location	Description
11/19/19	Thresholds and Ecosystem Restoration Symposium	UC Davis and Delta Science Program	Yes	Davis, California	This one-day symposium will bring together scientists and managers to understand the methods available to diagnose ecosystem changes and associated uncertainties to inform habitat restoration, and the recovery of ecological functions and services. Registration closes on 11/12/19. Thresholds and Ecosystem Restoration Symposium: https://marinescience.ucdavis.edu/events/upcoming-events/thresholds_and_ecosystem_restoration

DRAFT (11/12/19)

Date	Event Title	Host	Recorded	Location	Description
11/14/19	Resist, Adapt, or Direct? A decision framework for navigating climate-driven ecological transformations	NOAA	Yes	Webinar	<p>Below is an abstract to the webinar:</p> <p>In this world of rapid global change, managers often have limited ability to control the ultimate drivers of this change or resist or reverse ecological responses to it. Managers in this 'brave new world' face difficult choices as well as important opportunities to influence ecological trajectories at local, regional, and continental scales, as they work along a management spectrum from resisting, to accepting, to actively directing ecological change. Managers need clear concepts and training in navigating ecological transformation (NET) and mechanisms to coordinate transformation management across agencies and management units. The FedNET working group is working to help US federal land managers understand, plan for, and respond to ecological transformation to maximize conservation of species, ecosystems, and ecosystem services. The webinar will: 1) discuss how FedNET is using the decision framework Resist-Accept-Direct (RAD), 2) present related case studies to help federal land managers understand, plan for, and respond to ecological transformation, and 3) facilitate discussion with NOAA colleagues and an Ocean Tipping Points representative on how the RAD framework might be applied to marine fisheries.</p> <p>NOAA Seminar Event Page: https://www.nodc.noaa.gov/seminars/</p>

DRAFT (11/12/19)

Date	Event Title	Host	Recorded	Location	Description
1/29/20	How to Achieve a True Consensus for Best Environmental DNA Practices	UC Davis and Delta Science Program	Yes	Davis, California	<p>This symposium aims to build consensus by bringing together eDNA experts currently working on aquatic systems with academic scientists, agency staff, and stakeholders to discuss the utility and application of the tool to the San Francisco Bay Delta and nearshore coastal areas.</p> <p>eDNA Symposium Events Page: https://marinescience.ucdavis.edu/events/upcoming-events/edna</p>
6/7 to 6/12/20	Sustaining Aquatic Ecosystems under Global Change	ALSO-SFS	No	Madison, Wisconsin	<p>The Association for the Sciences of Limnology and Oceanography (ASLO) and the Society for Freshwater Science (SFS) will have a joint meeting in 2020 centered around the theme of global change. Sessions are being organized to highlight work relevant to sustaining aquatic ecosystems under rapid change.</p> <p>ASLO-SFS Event Page: https://www.aslofs2020.org/a</p>
TBD	Climate Change Project Work Team	IEP	No	Sacramento, California	<p>The Interagency Ecological Program (IEP) is in the process of forming a climate change project work team, which will be open to the public. The objectives of this project work team is still being finalized, but will focus on developing a conceptual model, assessing effects of climate change on the ecosystem, and developing metrics from climate change impacts.</p> <p>IEP Website: https://water.ca.gov/Programs/Environmental-Services/Interagency-Ecological-Program</p>

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Past Events

Date	Event Title	Host	Recorded	Location	Description
9/17/19	Planning for Change: Climate Change Vulnerability and Adaptation Summit	California Department of Water Resources	No	Sacramento, California	<p>The purpose of this summit was “to inspire water management and climate change technical communities to work together to achieve water resilience for California. Decision makers discussed prominent future climate change uncertainties and threats and the role of those risks in ongoing and future water management activities.”</p> <p>DWR Event Page: https://water.ca.gov/News/Events/2019/September-19/Planning-for-Change</p>
10/6/19	Accelerating Climate Solutions for a World that Works	Stanford University	No	Stanford, California	<p>This event explored “emerging solutions and their promise for reducing greenhouse gases, protecting human health, and meeting humanity’s need for food, water, energy, and a safe, sustainable planet.”</p> <p>Stanford Event Page: https://climatesolutions.stanford.edu</p>
10/21/19	Forward-Looking Science in the San Francisco Estuary	San Francisco Estuary Partnership	No	Oakland, California	<p>During the State of Estuary Conference, the Delta Science Program moderated a panel discussion “on how the science enterprise across the estuary can best support strategic and forward-looking management and stakeholder needs in the face of a rapidly changing environment.” Dr. Stephen Brandt of the Delta ISB was one of the panelists.</p> <p>State of Estuary Conference Event Page: https://www.sfestuary.org/state-of-the-estuary-conference/</p>

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Date	Event Title	Host	Recorded	Location	Description
11/7/19	Longfin Smelt Science Symposium	State Water Contractors	No	Sacramento, California	This symposium provided an opportunity for reporting out on longfin smelt science efforts within the research community and what the community needs to know to better manage the species. For more information, contact Science@swc.org .