



## Final Project Report-Award 1331611

### Accomplishments: Key Outcomes and Other Achievements

FloodRISE Engagement Outputs (within field sites): Presentations and Consultations  
(in chronological order, according to status)

Presentation or Consultation	Lead FloodRISE Presenter(s)	Date/Location and Event Host/Purpose
<b>Year 1</b>		
Title: An Evening on the Southern California Coast	Brett Sanders and Richard Matthew	May 2014: Irvine, CA: Presentation for "Towards a Sustainable 21st Century Series" (Newkirk Center for Science and Society) <a href="https://www.youtube.com/watch?v=9Raj43SF-dQ&amp;list=UU1W_5r60fAccKmMwzu79Vdw&amp;index=2">https://www.youtube.com/watch?v=9Raj43SF-dQ&amp;list=UU1W_5r60fAccKmMwzu79Vdw&amp;index=2</a>
<b>Year 2</b>		
Topic: Overview of FloodRISE Research	Richard Matthew, Vickie Basolo, Amir AghaKouchak, Dave Feldman, Doug Houston, Wing Cheung, and Adam Luke	January 2015: Irvine, CA: Briefing for visiting scholar Paul Bates
Topic: Street-Level Flood Risk Modeling in Newport Beach	Brett Sanders and Richard Matthew	February 2015: Irvine, CA: Orange County Regional Sea Level Rise and Coastal Impacts Workshop
Topic: Overview of FloodRISE Project	Kimberly Serrano	March 2015: Tijuana River Valley, CA: One Watershed, One Future: Climate Change in Baja California meeting
Title: FloodRISE: An Interdisciplinary Approach to Leverage Technology for Resilience	Beth Karlin	March 2015: Newport Beach, CA: iConference
Topic: Flood Resilience Through Street-Level Modeling	Brett Sanders and Dave Feldman	May 2015: Irvine, CA: Oceans UCI Conference
Title: FloodRISE: Collaborating for Flood Resilience	Kimberly Serrano, Dani Boudreau, Kristen Goodrich, and Ana Eguiarte	May 2015: Irvine, CA: Presentation to undergraduate course, Foundations of Community Health



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Topic: Overview of FloodRISE Research	Brett Sanders, Doug Houston, Dave Feldman, Amir AghaKouchak, Abby Reyes, and Kimberly Serrano	May 2015: Irvine, CA: Briefing for NSF Director of Engineering Program
Topic: Overview of FloodRISE Activities in Tijuana River Estuary	Dave Feldman and Adam Luke	June 2015: San Diego, CA: Tijuana River Valley Recovery Team Steering Committee Meeting
Title: FloodRISE: Collaborating for Flood Resilience	Kimberly Serrano	June 2015: San Diego, CA: Tijuana River National Estuarine Research Reserve Saturday Speaker Series
Topic: Overview of FloodRISE Modeling	Brett Sanders, Amir AghaKouchak, Adam Luke, and Jochen Schubert	June 2015: Irvine, CA: Briefing for National Weather Service Leadership Team including Director or NWS, Director of Water Center, Director of Communications
Topic: Preparing for Climate- Related Coastal Hazards via Available Information and Tools for Scenario Analysis and Planning	Brett Sanders	July 2015: Irvine, CA: Fostering Climate Resilient Coastal Communities Workshop
<b>Year 3</b>		
Topic: Overview of FloodRISE Modeling Activities	Brett Sanders, Jochen Schubert, and Kimberly Serrano	September 2015: Orange County, CA: Briefing with Orange County Office of Emergency Management staff
Title: Communicating flood risk with street level data	Brett Sanders	October 2015: Orange County, CA: Presentation to the American Society of Civil Engineers (ASCE) Orange County Hydraulics and Hydrology Technical Group
Topic: Overview of Newport Beach Modeling Activities	Jochen Schubert	October 2015: Irvine, CA: Orange County Society for Conservation Biology: Conservation Café
Panel Title: Apocalypse Now?	Brett Sanders, Amir AghaKouchak, Hamed Moftakhari, Adam Luke, and Richard Matthew	October 2015: Irvine, CA: Who Cares? Workshop on the Economies, Technologies and Ethics of Aid
Topic: Overview of FloodRISE Activities in Tijuana	Kimberly Serrano and Ana Eguiarte	November 2015: Tijuana, MX: Briefing for Los Laureles Community Council
Topic: Sea Level Rise Visualization Resources for Orange County Coastal Communities	Kimberly Serrano	January 2016: Orange County, CA: Orange County Sea Level Rise and Coastal Impacts Webinar



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Title: Flood Hazard Mapping in Newport Bay and the Impacts of El Niño	Jochen Schubert	January 2016: Newport Beach, CA: Newport Bay Conservancy Winter Symposium: Climate Change, a "Godzilla El Niño" and their Impacts on Oceans and Estuaries
Topic: Overview of FloodRISE Project	Brett Sanders, Richard Matthew, Kimberly Serrano, Kristen Goodrich, and Ana Eguiarte	March 2016: Tijuana, MX: Briefing with Staff at Protección Civil and Implan, and Briefing with COLEF Researchers
Topic: Overview of FloodRISE Activities	Abby Reyes, Kimberly Serrano, and Adam Luke	March 2016: Irvine, CA: Osher Lifelong Learning Institute (OLLI)
Title: Preparing for Sea Level Rise: In Action or Inaction?	Kimberly Serrano and Abby Reyes	April 2016: Mission Viejo, CA: Climate and Coastal Water Protection Forum
Title: Trash Talks: A Waste of Time?	Kristen Goodrich, Ana Eguiarte, and Kimberly Serrano	May 2016: Irvine, CA: Presentation to undergraduate course, Foundations of Community Health
Topic: Samueli School Water Research	Brett Sanders	May 2016: Irvine, CA: Presentation to the Henry Samueli School of Engineering Executive Advisory Board
Topic: Overview of FloodRISE Research in Newport Beach	Brett Sanders	July 2016: Irvine, CA: Briefing for Mayor Diane Dixon, City of Newport Beach
Topic: Lessons Learned from FloodRISE Focus Groups	Brett Sanders, Adam Luke, Dave Feldman, and Kristen Goodrich	July 2016: Irvine, CA: Fostering Climate Resilient Coastal Communities Workshop
<b>Year 4</b>		
Title: FloodRISE project update	Dani Boudreau and Ana Eguiarte	June 2016: Los Laureles Council Board
Title: Mapping Flood Risk in Los Laureles	Dani Boudreau and Ana Eguiarte	August 2016: Tijuana Innovadora Binational Working Group
Title: New Technologies for Flood Modeling	Jochen Schubert	September 2016: Presentation to the Belmont Forum DELTAS Workshop
Title: Working Outside Your Comfort Zone: Inspiring Hope with Diverse Partners	Dani Boudreau and Ana Eguiarte	September 2016: Long Beach, CA: California Adaptation Forum
Title: Building Resilience Before a Major Flood	Kristen Goodrich	September 2016: Tijuana, Mexico: Protección Civil Tijuana's National Week of Preparedness
Title: Coastal Resilience in the Face of Sea Level Rise and Stronger Storms	Brett Sanders, David Feldman, and Richard Matthew	November 2016: Newport Beach, CA: Presentation at Environmental Nature Center



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Title: Embracing Uncertainty: Climate Scenario Planning	Dani Boudreau and Ana Eguiarte	January 2017: Presentation to Tijuana River Valley Recovery Team
Title: Data Collection for Context-Sensitive Flood Modeling	Jochen Schubert	January 2017: Santa Ana, CA: Presentation at Santa Ana College
Title: Context-Sensitive Flood Modeling to Meet End-User Needs for Disaster Risk Reduction	Prepared by Jochen Schubert; presented by James Orbinski	February 2017: Zomba, Mawawi
Title: School of Education Professional Development Workshop	Kristen Goodrich	February 2017: Irvine, CA: Presentation at University of California, Irvine School of Education
Title: Regional Resilience: Overview of Sea Level Rise Planning & Tools	Dani Boudreau and Ana Eguiarte	March 2017: US Navy Technical Forum
Title: Teachers on the Estuary	Dani Boudreau and Ana Eguiarte	May 2017: TRNERR Annual Teacher Training
<b>Year 5</b>		
Title: FloodRISE: Is Long Beach in Peril?	Brett Sanders	August 2017: Long Beach, CA: Presentation to Rotary Club of Long Beach
Title: FloodRISE: Visualizing Coastal Flooding	Brett Sanders	August 2017: Newport Beach, CA: Presentation to Orange County Community Foundation
Title: Working binationally case study: FloodRISE project	Ana Eguiarte	August 2017: Imperial Beach, CA: Universidad Xochicalco
Title: Transborder Opportunities Certificate Program	Kristen Goodrich	August 2017: San Diego, CA: Presentation at University of San Diego
Title: How to work jointly between FloodRISE Team and Tijuana Agencies	Ana Eguiarte	October 2017: Tijuana, BC: IMPLAN and University of California, Irvine
Title: Enabling Solutions to Sea Level Rise	Brett Sanders and Jochen Schubert	January 2018: Newport Beach, CA: "Sea Level Rise: How Will It Affect You?", Speak Up Newport
Title: Enabling Solutions to Sea Level Rise	Brett Sanders	January 2018: Irvine, CA: Presentation to Santa Ana Mayor Pro Tem Michele Martinez
Topic: Disseminating Actionable Science	Kristen Goodrich	January 2018: Pursuit: Advancing the Science of Knowledge Use: Mechanisms, Applications and Gaps
Topic: FloodRISE Research Update	Kristen Goodrich	March 2018: San Diego, CA: 6 <sup>th</sup> International Marine Debris Conference
Title: Resilience, Restoration, & the Region	Dani Boudreau	March 2018: Imperial Beach, CA: San Diego Association of Governments (SANDAG) Shoreline Preservation Working Group
Title: Talking change: Climate science & adaptation	Dani Boudreau	May 2018: Imperial Beach, CA: Teachers On The Estuary (TOTE) - TRNERR Annual Teacher Training



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Topic: FloodRISE Research Update	Kristen Goodrich	May 2018: San Diego, CA: University of California, San Diego Cross Border Initiative
Title: Climate Extremes affecting Paraguay (CEP) - Building a California-Paraguay Collaboration	Brett Sanders, Jochen Schubert, and Richard Matthew	July 2018: Teleconference with Itaipu, Paraguay
Title: Influence of trash on flooding events: Tijuana case study	Ana Eguiarte	July 2018: Tijuana, Mexico: UABC Valle de las Palmas
Title: Flood Resilient Infrastructure and Sustainable Environments	Jochen Schubert	August 2018: Kathmandu, Nepal: Department of Hydrology/Meteorology, Tribhuvan University
Title: Flood Resilient Infrastructure and Sustainable Environments	Jochen Schubert	August 2018: Kathmandu, Nepal: Institute for Social and Environmental Transition-Nepal
Title: Flood Resilient Infrastructure and Sustainable Environments	Jochen Schubert	August 2018: Kathmandu, Nepal: International Centre for Integrated Mountain Development
<b>Year 6</b>		
Title: Enabling Solutions to Sea Level Rise	Brett Sanders	May 2019: Irvine, CA: Presentation to California Assemblywoman Cottie Petrie-Norris at University of California, Irvine
Title: Collaborative Flood Modeling to Meet End-User Needs for Decision-Making	Brett Sanders	June 2019: Munich, Germany: Guest Lecture at Technical University of Munich
Title: Regional, Fine-Resolution Modeling of Coastal Flood Hazards-- A Strategy	Brett Sanders	June 2019: Munich, Germany: Seminar at Technical University of Munich
Title: Collaborative Flood Modeling to Meet End-User Needs for Decision-Making	Brett Sanders	October 2019: Irvine, CA: Presentation at 1st International Environmental Peacebuilding Conference at the Beckman Center for the National Academies of Sciences
Title: Collaborative Flood Modeling for Peacebuilding	Brett Sanders	October 2019: Irvine, CA: Presentation at 1st International Environmental Peacebuilding Conference at Beckman Center for the National Academies of Sciences
Title: Visualizing Flooding	Brett Sanders	October 2019: Irvine, CA: Interdisciplinary Research Showcase and Workshop at University of California, Irvine



## FloodRISE Engagement Outputs (beyond field sites): Conference Presentations and Posters (in chronological order)

Conference Presentation or Poster	Lead FloodRISE Presenter(s)	Date/Location and Conference Name
<b>Year 1</b>		
Topic: How Environmental Modeling Plays a Role in Decision Making	Brett Sanders	February 2014: Washington DC: Interagency Steering Committee on Multimedia Environmental Modeling (ISCMEM)
Title: Flood Resilient Infrastructure and Sustainable Environments (RISE) Project	Kristen Goodrich and Santina Contreras	April 2014: Texas A&M: Planning for Disaster Resilience Symposium May 2014: Los Angeles, CA: Southern California Municipal Water District Eco-Innovators Showcase June 2014: New York: Association of Environmental Studies and Sciences (AESS) Annual Conference
<b>Year 2</b>		
Title: Assessing Community Flood Awareness with Volunteered Geographic Information	Wing Cheung	November 2014: Redlands, CA: 2014 ESRI Ocean GIS Forum <a href="http://proceedings.esri.com/library/userconf/oceans14/index.html">http://proceedings.esri.com/library/userconf/oceans14/index.html</a>
Title: FloodRISE: An Interdisciplinary Approach to Leverage Technology for Resilience	Beth Karlin	December 2014: Washington, DC: Behavior Energy Climate Change (BECC) Conference
Title: Engaged Scholarship as an Alternative to Public-Private Partnerships	Beth Karlin and Kristen Goodrich	February 2015: New Orleans, LA: International Studies Association Conference
Title: Role of Participatory Mapping in Citizen Science: Challenges and Opportunities	Wing Cheung	February 2015: San Jose, CA: Citizen Science Association Conference <a href="http://f1000research.com/posters/1097604">http://f1000research.com/posters/1097604</a>
Title: Communicating Flood Risk for More Resilient Communities	Kristen Goodrich and Beth Karlin	February 2015: Long Beach, CA: Society for Personality and Social Psychology (sustainability pre-conference, datablitz)
Title: FloodRISE: An interdisciplinary, community- based approach to managing uncertainty	Kimberly Serrano and Dani Boudreau	June 2015: San Diego, CA: Association of Environmental Studies and Science (AESS) Annual Conference
Title: Can fine resolution urban flood models increase spatial awareness of flood risk? Results of a household survey in Newport Beach, California	Brett Sanders and Adam Luke	July 2015: The Hague, Netherlands: 36th International Association for Hydro-Environment Engineering and Research (IAHR) World Congress



Conference Presentation or Poster	Lead FloodRISE Presenter(s)	Date/Location and Conference Name
Title: Flood hazard mapping in the coastal zone: Accounting for multiple drivers of flood risk	Adam Luke	July 2015: The Hague, Netherlands: 36th International Association for Hydro-Environment Engineering and Research (IAHR) World Congress
<b>Year 3</b>		
Title: Sea level rise and nuisance flooding: Planning for the future	Amir AghaKouchak	November 2015: Association of Climate Change Officers (ACCO) Rising Seas Summit
Title: A probabilistic framework for estimating flood risk under combined effect of flood drivers	Hamed Moftakhari	November 2015: Portland, OR: Coastal and Estuarine Research Federation (CERF), 23rd Biennial Conference
Title: The challenge of communicating flood risk	Richard Matthew	December 2015: San Francisco, CA: American Geophysical Union (AGU) Fall Meeting <a href="https://agu.confex.com/agu/fm15/meetingapp.cgi/Paper/60609">https://agu.confex.com/agu/fm15/meetingapp.cgi/Paper/60609</a>
Title: Communicating flood risk with street level data	Brett Sanders	December 2015: San Francisco, CA: American Geophysical Union (AGU) Fall Meeting <a href="https://agu.confex.com/agu/fm15/meetingapp.cgi/Paper/61429">https://agu.confex.com/agu/fm15/meetingapp.cgi/Paper/61429</a>
Title: Sea level rise increases the frequency of nuisance flooding in coastal regions	Hamed Moftakhari	December 2015: San Francisco, CA: American Geophysical Union (AGU) Fall Meeting
Title: A cross national investigation of flood risk perceptions and hazard preparedness in two urban communities	Vickie Basolo	March 2016: Urban Affairs Association Annual Conference <a href="https://docs.google.com/document/d/1w5vrffnicQiqj07LkTENYW_LMnnJQ8rpugi3cTdijo8/edit">https://docs.google.com/document/d/1w5vrffnicQiqj07LkTENYW_LMnnJQ8rpugi3cTdijo8/edit</a>
Title: Urban erosion: Attitudes and knowledge about environmental hazards in Tijuana, Mexico	Kristen Goodrich and Ana Eguiarte	March 2016: Urban Affairs Association Annual Conference <a href="https://docs.google.com/document/d/1w5vrffnicQiqj07LkTENYW_LMnnJQ8rpugi3cTdijo8/edit">https://docs.google.com/document/d/1w5vrffnicQiqj07LkTENYW_LMnnJQ8rpugi3cTdijo8/edit</a>
Title: Coproduction of flood hazard assessment with public participation geographic information system	Wing Cheung	March 2016: Association of American Geographers (AAG) <a href="http://meridian.aag.org/callforpapers/program/AbstractDetail.cfm?AbstractID=69267">http://meridian.aag.org/callforpapers/program/AbstractDetail.cfm?AbstractID=69267</a>
Title: Making coastal flood hazard maps to support decision-making: What end users want	Jochen Schubert	March 2016: Association of American Geographers (AAG) <a href="http://meridian.aag.org/callforpapers/program/AbstractDetail.cfm?AbstractID=70000">http://meridian.aag.org/callforpapers/program/AbstractDetail.cfm?AbstractID=70000</a>



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Title: Co-development of coastal flood models: Making the leap from expert analysis to decision support	Brett Sanders	July 2016: Liege, Belgium: 4th International Association for Hydro-Environment Engineering and Research (IAHR) Europe Congress <a href="http://www.iahr2016.ulg.ac.be/content/keynote-speakers">http://www.iahr2016.ulg.ac.be/content/keynote-speakers</a>
<b>Year 4</b>		
Title: Embracing Uncertainty: Climate Scenario Planning for Restoration	Dani Boudreau and Ana Eguiarte	October 2016: CA Natural Areas Conference
Title: Estimating flood risk along the coasts of United States considering compounding effects of multiple flood drivers	Hamed Moftakhari	December 2016: San Francisco, CA: American Geophysical Union (AGU) Fall Meeting
Title: Going Beyond the Flood Insurance Rate Map: The Reception of 2D Map Data in Southern and Baja California	Adam Luke	May 2017: Sacramento, CA: World Environmental and Water Resources Congress
Title: Advancing Disaster Risk Reduction with Community-Based Flood Modeling	Brett Sanders	May 2017: Irvine, CA: Headwaters to Ocean (H2O) Conference
Title: Interactive Flood Hazard Viewers for Newport Beach and Tijuana River Valley	Jochen Schubert	May 2017: Irvine, CA: Headwaters to Ocean (H2O) Conference
<b>Year 5</b>		
Title: Scenario planning: Using the tools in your toolbox to overcome uncertainty	Dani Boudreau	November 2017: Providence, RI: Coastal & Estuarine Research Federation Conference
Title: Modeling Compound Flood Hazards in Coastal Embayments	Hamed Moftakhari, Jochen Schubert, Amir AghaKouchak, Adam Luke, Richard Matthew, and Brett Sanders	December 2017: New Orleans, LA: AGU Fall Meeting 2017







Conference Presentation or Poster	Lead FloodRISE Presenter(s)	Date/Location and Conference Name
Title: Community Based Flood Modeling in Southern and Baja California to Meet End User Needs for Decision-Making	Brett Sanders	December 2017: New Orleans, LA: AGU Fall Meeting 2017
Title: Engaging stakeholders in understanding coastal hazards, flood mapping, and risk	Dani Boudreau	February 2018: Charleston, SC: Social Coast Forum
Title: Collaborative Flood Modeling at the US/Mexico Border	Brett Sanders	May 2018: Asuncion, Paraguay: Cerrito 2018 Innovation for Poverty Alleviation
Title: Multi-hazard modeling in Coastal Systems	Hamed Moftakhari, Jochen Schubert, Brett Sanders, Richard Matthew and Amir AghaKouchak	May 2018: Canmore, AB, Canada: 2018 GEWEX Open Science Conference
Title: Tapping the Power of Shallow-Water Models for Flood Hazard Mapping	Brett Sanders	July 2018: Palermo, Italy: International Hydroinformatics Conference HIC 2018
Title: Implementation: Trade-offs & Innovation	Dani Boudreau	July 2018: Irvine, CA: University of California, Irvine Resilience Symposium
<b>Year 6</b>		
Title: Linking Statistical and Hydrodynamic Modeling to Map and Communicate Compound Coastal Flood Hazards	Brett Sanders, Hamed Moftakhari, Jochen Schubert, Amir AghaKouchak, and Richard Matthew	December 2019: San Francisco, CA: AGU Fall Meeting 2019

