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News & Information from CMSI + BML



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Tidepools bear witness to a changing climate: In [this Bay Nature piece](#), **Tessa Hill** and **Eric Simons** discuss the role that the immobile species in tide pools play in our understanding of climate change.

Photo Credit: McNair Evans/Bay Nature

Adapting to live on land and in the ocean:
Population Biology Ph.D. student, **Victoria Morgan**, uses genetics to understand how land crabs adapted to living on land. While her focus is crabs, Morgan's research

could provide clues to reveal broader trends of terrestriality across all species.

Learn more about her work [here](#)!

Photo Credit: David Slipher/UC Davis



Saving an endangered and delicious snail:

Program director, **Kristin Aquilino**, and principal scientist **Laura Rogers-Bennett** are featured in this piece about the white abalone captive breeding program at the Bodega Marine Laboratory. Read it [here](#)!

Photo Credit: Beth Schlanker/The Press Democrat

Announcements



We are thrilled to announce that Dr. Tawny Mata will be the new Executive Director of the Coastal and Marine Sciences Institute at UC Davis.

We are extremely fortunate to have someone with her talents and experience to help lead us through the next steps of implementing our Strategic Plan, strengthening and expanding our internal and external programs and partnerships, and continuing to build on the foundation that our remarkable community has developed since CMSI launched, barely 6 years ago.

Dr. Tawny Mata has pursued a lifelong goal of contributing to sustainability through science. In 2013, Dr. Mata was awarded an American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellowship at the U.S. Department of Agriculture (USDA) Office of the Chief Scientist. During her tenure as an AAAS Fellow and later as the USDA Partnership Coordinator for the U.S. Pollinator Health Task Force, Dr. Mata worked on several major initiatives to protect wildlife, build climate resilience, and enhance food security. In 2016, she joined the Foundation for Food and Agriculture Research as a Scientific Program Director, managing a grant portfolio that spanned education, conservation, and plant health with an aim of finding evidence-based, practical solutions to challenges in food and agriculture. In 2017, Dr. Mata accepted a position as Director of Strategic Engagement for The Nature Conservancy and the Great Lakes Commission's Blue Accounting Initiative, where she led an external affairs team to promote collaborative, data-informed management of water resources across the eight states, two provinces, and two countries in the Great Lakes Basin.

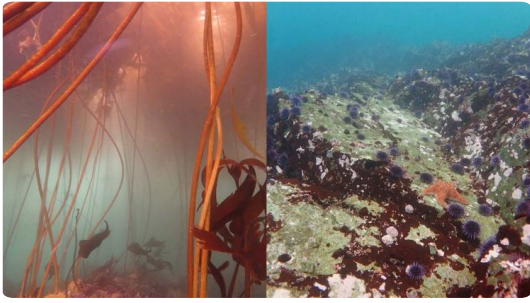
Dr. Mata received her B.A. in Biology from Pomona College and her Ph.D. in Ecology from UC Davis. When not dreaming up new and better ways to promote evidence-based natural resource management, you can find her cooking, riding one of her many bikes, or enjoying the company of her husband, Ryan, and two dog-children, Rocky and Falkor.

Congratulations to **Brian Gaylord**, who was awarded the 2019 Distinguished Graduate and Postdoctoral Mentoring Award from Graduate Studies.

Brian was nominated by his past graduate students and this award is a testament to his dedication to mentoring young scholars.



Photo Credit: UC Davis



Dying Oceans - Abalone Restoration In California: In [this KCET Earth Focus episode](#), **Kristin Aquilino, Dan Swezey, Cynthia Catton, Doug Bush, and Tessa Hill** discuss how warming, pollution and ocean acidification are impacting the kelp forest ecosystems that abalone rely upon.

Photo Credit: Still from "Earth Focus"

Ocean animals on the move:

Bodega Marine Reserve research coordinator **Jackie Sones** and Bodega Marine Lab professor **Eric Sanford** were featured in this Washington Post article about the impact of warming oceans on the migration patterns of ocean creatures.

Read it [here](#)!

Photo Credit: Michael Robinson Chavez/The Washington Post



A collaboration to combat ocean acidification: Professor **Tessa Hill** works with the Hog Island Oyster Company to understand how climate change is affecting natural systems, but also local businesses and the food we eat. Read about it [here](#).

Photo Credit: Amanda Paulson/The Christian Science Monitor

Tiny fish adapted to a toxic environment: Thanks to its large population, hearty genes, and good luck, the Gulf Killifish in Texas' Houston Ship Channel were able to adapt to

what normally would be lethal levels of toxins for most other species.

Photo Credit: Andrew Whitehead/UC Davis



Events

+ **July 23:** Human Dimensions Research in Delta Environments Symposium. Learn more [here](#) and register [here](#).

+ **September 16-17:** The Ocean's Role in Sustainable Food Production Symposium. Learn more and buy tickets [here](#) (\$10 for students, \$25 for general admission).

+ **November 19:** Thresholds and Ecosystem Restoration Symposium. Learn more [here](#).



*Congratulations to **Tessa Hill**, who was awarded an Academic Senate Distinguished Scholarly Public Service Award!*

Perhaps no other scientist has been as effective across the board at communicating the impacts of climate change and possible solutions to people of all ages and places. Her contributions to the communities of Sonoma County, the state of California, the nation, and the world make us all honored to have her as our colleague!

Photo Credit: UC Davis

Record-breaking White Abalone Spawn: Historically, the most a single white abalone at the Bodega Marine Lab has spawned was about 11 million eggs. Then, on April 16, a wild female abalone spawned 20.5 million eggs. Learn more [here](#)!

Photo Credit: Kat Magana/UC Davis



Heatwave cooks mussels: A record-breaking heatwave in June caused the largest mussel die-off in 15 years along the coastline of Bodega Bay, as documented by **Jackie Sones**. Learn more [here](#) (Jackie's observations in the Bodega Marine Reserve have been covered by several media outlets recently)!

Photo Credit: Jackie Sones

Tideline Updates

To feature news, events, announcements and/or opportunities on the CMSI or BML websites or in the next issue of Tideline, email us at cmsinews@ucdavis.edu.





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