

## “Live from the Field: Climate Change at the Land-Sea Interface” Resources for instructors

### General reading on this topic

Harley, C., et al. 2006. The impacts of climate change in coastal marine systems. *Ecology letters* 9(2), 228-241.  
<https://onlinelibrary.wiley.com/doi/pdf/10.1111/j.1461-0248.2005.00871.x>

Helmuth, B., et al. 2006. Living on the edge of two changing worlds: forecasting the responses of rocky intertidal ecosystems to climate change. *Annual Review of Ecology, Evolution, and Systematics*, 37, 373-404.  
<https://doi.org/10.1146/annurev.ecolsys.37.091305.110149>

Sagarin, R., et al. 1999. Climate-related change in an intertidal community over short and long time scales." *Ecological Monographs*, 69(4), 465-490.  
<http://faculty.jsd.claremont.edu/sgilman/pdfreprints/Sagarinetal1999EcolMonogr.pdf>

Smithsonian Magazine, “A Photographer Documents the Effects of Climate Change on Maine’s Intertidal Zones”  
<https://www.smithsonianmag.com/science-nature/photographer-documents-effects-climate-change-maines-intertidal-zones-180969744/>

The National Wildlife Foundation, “Under the Weather: Emerging diseases pose a growing threat to wildlife worldwide.”  
<https://www.nwf.org/Home/Magazines/National-Wildlife/2019/Feb-Mar/Conservation/Wildlife-Disease>

### Papers and presentations related to each research project

1) Bodega Marine Reserve, University of California, Davis:

#### Journal publication

Sanford E. et al. 2019. Widespread shifts in the coastal biota of northern California during the 2014–2016 marine heatwaves. *Scientific Reports*, 9(1), 1-14..  
<https://www.nature.com/articles/s41598-019-40784-3>

2) Hatfield Marine Science Center, Oregon State University:

#### Journal publication

Gravem, S. A., and Morgan, S. G. 2017. Shifts in intertidal zonation and refuge use by prey after mass mortalities of two predators. *ECOLOGY*, 98(4), 1006-1015.  
<https://escholarship.org/content/qt78q4m3w9/qt78q4m3w9.pdf>

3) Shoals Marine Laboratory, University of New Hampshire and Cornell University:

#### a. Poster presentation

Carter, H. et al. 2018. Replacement of a Foundation Species in the Lower Intertidal  
<https://drive.google.com/file/d/13rY-Us440s-Q9LkCZCvdXf8n9U3q7NgN/view?usp=sharing>

#### b. Poster presentation

O’Brian, B. et al. 2014. Long-Term Monitoring of Intertidal Transects at Shoals Marine Lab, Appledore Island, Gulf of Maine  
[https://drive.google.com/file/d/1g9Zl-aG8NyXi36bSscoFoUUpJExW\\_B-m/view?usp=sharing](https://drive.google.com/file/d/1g9Zl-aG8NyXi36bSscoFoUUpJExW_B-m/view?usp=sharing)

View the [event flyer](#) to learn more about this event, taking place October 13, 2020. A recording of this event will be posted at [TheVirtualField.org](http://TheVirtualField.org).

