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The Center for Ocean Sciences Education Excellence-West invites you, your colleagues and students, family and friends to learn more about climate and our ocean!

COSEE-West and NASA/Jet Propulsion Laboratory - Earth Public Engagement[†]
present a **FREE** lecture in the 2011-2012 series

What hit me? How hurricanes and storms affect marine life

Speaker: Dr. Michelle Gierach

NASA Jet Propulsion Laboratory
Scientist, Oceans and Ice Group

on Wednesday, February 15, 2012

in JPL's von Karman Auditorium

4800 Oak Grove Drive, Pasadena, California 91109

5:45-6:45 pm Educator sign in and activity

6:45-7:45 pm Public Lecture

7:45-8:30 pm Educator session

Storms happen in the atmosphere but affect the ocean in many ways, churning up anoxic water, misdirecting migrating organisms, tumbling the plankton community, and inundating the coast with storm surges. How long do these influences have an impact?

Dr. Gierach is a scientist in the Oceans and Ice Group at NASA's Jet Propulsion Laboratory. Her research interests include ocean-atmosphere interactions, ocean dynamics, atmospheric processes, and the ocean's relation to climate variability utilizing satellite data, field observations, and models. She received her Ph.D. in marine science from the University of South Carolina in 2009.

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**Map & Driving Directions:** [http://www.jpl.nasa.gov/about\\_JPL/maps.cfm](http://www.jpl.nasa.gov/about_JPL/maps.cfm)

**† To be permitted to enter JPL**, you must show your government-issued photo ID (passport, driver's license or business/school ID). **NO exceptions.** Your vehicle trunk may be inspected when you enter JPL  
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Educators: You must register for the professional development session by Monday, February 13th, to receive a light supper and stipend* and educator material. The public does not need to register.

To register, contact UCLA COSEE-West office at cosee.west@gmail.com or 310-206-8247. Provide your full name, grade level(s) you teach, and an email or phone number to reach you.

*** Educator stipends and light supper are being generously provided by a grant from Boeing to USC for COSEE-West**

K-12 teachers may get documentation for Professional Development hours upon request.

For information about the COSEE-West program, visit <http://www.usc.edu/org/cosee-west/>
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