

## **12<sup>th</sup> International Coral Reef Symposium Mini-Symposium Announcement**

Dear colleagues,

We would like to call your attention to, and invite submissions of abstracts for inclusion in the mini-symposium "**Carbonate Chemistry Feedbacks within Reef Habitats**" (Session 8b under the Ocean Acidification theme) at the 2012 International Coral Reef Symposium.

**Session Title:** Carbonate Chemistry Feedbacks Within Reef Habitats: What Local Controls Can Offset/Exacerbate Ocean Acidification Within Reef Communities?

**Session Description:** Changes in surface ocean chemistry in response to rising atmospheric CO<sub>2</sub> are well documented. Numerous laboratory experiments have demonstrated that such changes could prove deleterious to coral reefs in coming decades. While these effects are commonly interpreted as responses to changes in carbonate mineral saturation state ( $\Omega$ ), local carbonate chemistry within reefs is typically very complex and the secular decline of  $\Omega$  over the past century is not well documented. Local factors such as community metabolism, sediment dissolution, freshwater input, organic carbon cycling, among others can impart additional significant control on ambient carbonate chemistry. This themed workshop invites contributions on field-based process studies of carbonate chemistry within coral reefs to better assess the primary feedbacks and controls of ocean acidification on coral reefs. Special attention will be given to efforts that integrate data from field-based studies with theoretical models to improve predictions of the response of reefs to ocean acidification.

**Conveners:** Ryan P. Moyer, US Geological Survey ([rmoyer@usgs.gov](mailto:rmoyer@usgs.gov)); Dwight Gledhill, National Oceanic and Atmospheric Administration ([Dwight.Gledhill@noaa.gov](mailto:Dwight.Gledhill@noaa.gov)); Joanie Kleypas, National Center for Atmospheric Research ([kleypas@ucar.edu](mailto:kleypas@ucar.edu)); Kimberly Yates, US Geological Survey ([kyates@usgs.gov](mailto:kyates@usgs.gov)); Rusty Brainard, National Oceanic and Atmospheric Administration ([Rusty.Brainard@noaa.gov](mailto:Rusty.Brainard@noaa.gov))

**Online Abstract Submissions:** <http://www.icsr2012.com/AbstractSubmission.htm>

**Abstract Submission Deadline:** 1 October 2011

**Meeting Dates & Location:** 9 – 13 July 2012, Cairns, Queensland, Australia.