Center for Sponsored Coastal Ocean Research

Mesophotic Coral Ecosystems Highlighted in Special Issue of Journal Coral Reefs

In June 2010, the peer-reviewed journal *Coral Reefs* published its first theme section (volume 29, issue 2) dedicated to mesophotic coral ecosystems. This is a huge step forward in increasing the visibility amongst the coral science community of these little known and poorly understood ecosystems, found in tropical and sub-tropical regions in depths ranging from 30-40 m to over 150 m in depth. This special issue contains three review articles that identify the state of knowledge regarding mesophotic coral ecosystems and their community structure, geomorphology, and the 'refugia' hypothesis, as well as seven research articles. The special issue is a direct result of the 2008 Mesophotic Coral Ecosystems Workshop hosted by the Perry Institute for Marine Science and organized by NOAA (Center for Sponsored Coastal Ocean Research and NOAA's Undersea Research Program) and the U.S. Geological Survey. The theme section is available direct from the publisher SpringerLink.

Article

Pages

Theme section on "Mesophotic Coral Ecosystems: Characterization, Ecology, and Management." L.M. Hinderstein, J.C.A. Marr, F.A. Martinez, M.J. Dowgiallo, K.A. Puglise, R.L. Pyle, D.G. Zawada and 247-251 R. Appeldoorn	
Landscape video mosaic from a mesophotic coral reef. A.C. R. Gleason, N. Gracias, D. Lirman, B.E. Gintert, T.B. Smith, M.C. Dick and R.P. Reid Community ecology of mesophotic coral reef ecosystems.	253
S.E. Kahng, J.R. Garcia-Sais, H.L. Spalding, E. Brokovich, D. Wagner, E. Weil, L. Hinderstein and R.J. 255-275	
Toonen Reef habitats and associated sessile-benthic and fish assemblages across a euphotic–mesophotic depth gradient in Isla Desecheo, Puerto Rico. J.R. Garcia-Sais	277-288
Benthic structure and cryptic mortality in a Caribbean mesophotic coral reef bank system, the Hind Bank Marine Conservation District, U.S. Virgin Islands. T.B. Smith, J. Blondeau, R.S. Nemeth, S.J. Pittman, J.M. Calnan, E. Kadison and J. Gass	289-308
Assessing the 'deep reef refugia' hypothesis: focus on Caribbean reefs. P. Bongaerts, T. Ridgway, E.M. Sampayo and O. Hoegh-Guldberg	309-327
Geomorphology of mesophotic coral ecosystems: current perspectives on morphology, distribution, and mapping strategies. S.D. Locker, R.A. Armstrong, T.A. Battista, J.J. Rooney, C. Sherman and D.G. Zawada	329-345
Geomorphology and benthic cover of mesophotic coral ecosystems of the upper insular slope of southwest Puerto Rico. C. Sherman, M. Nemeth, H. Ruíz, I. Bejarano, R. Appeldoorn, F. Pagán, M. Schärer and E. Weil	347-360
Mesophotic coral ecosystems in the Hawaiian Archipelago. J. Rooney, E. Donham, A. Montgomery, H. Spalding, F. Parrish, R. Boland, D. Fenner, J. Gove and O. Vetter	361-367
Mesophotic communities of the insular shelf at Tutuila, American Samoa. A.Y. Bare, K.L. Grimshaw, J.J. Rooney, M.G. Sabater, D. Fenner and B. Carroll	369-377

National Ocean Service