

## **S7** MEQ/FIS Topic Session **Coldwater biogenic habitat in the North Pacific**

*Co-Convenors: Glen S. Jamieson (Canada), J. Anthony Koslow (U.S.A.) and Jin-Yeong Kim (Korea)*

Some of the fauna that are most vulnerable to physical disturbances are the long-lived, slow growing and physically fragile species (corals and sponges) that provide biogenic habitat in deep water. It is increasingly recognized worldwide that deepwater biogenic habitat has not been conserved in the past, with the result that the conservation of such habitat has become a high priority in many jurisdictions. At least in the eastern Pacific, large areas have been established to exclude bottom trawling to protect deep-water corals and sponges. Considerable effort is being expended to identify and determine their distributions and to assess their ecological role as fishery habitat. This session welcomes presentations that describe: 1) distributions of deepwater biogenic habitat in the PICES regions; 2) threats to biogenic habitat species in the area; 3) the ecological role of biogenic structures as habitat for commercial and other species; and 4) the management measures applied or developed to conserve these species and the habitat they provide.

**Tuesday, Oct. 30, 2007 14:00 – 18:10**

- 14:00 **Alex D. Rogers (Invited)**  
Biogenic habitats in the deep sea: Biodiversity and interactions with fisheries (S7-4480)
- 14:30 **Malcolm Clark, Derek Tittensor and Alex D. Rogers**  
Seamounts, deep-sea corals, and fisheries in the Pacific Ocean (S7-4465)
- 14:50 **Curt E. Whitmire and M. Elizabeth Clarke**  
Census of deep-sea/cold-water corals off the western coast of the United States (S7-4393)
- 15:10 **Doug Woodby, Dave Carlile and Lee Hulbert**  
Predictive modeling of coral and sponge distribution in the central Aleutian Islands (S7-4399)
- 15:30 **Glen S. Jamieson**  
Deep-water biogenic habitat in Pacific Canada: Challenges to its conservation (S7-4039)
- 15:50 *Coffee / tea break*
- 16:10 **Jeffrey B. Marliave and Donna M. Gibbs**  
Ecological function as rockfish nursery habitat of cloud sponges in Howe Sound and Strait of Georgia, British Columbia (S7-4245)
- 16:30 **Jin-Yeong Kim, Hyung-Kee Cha, Kwang-Ho Choi, Jong-Hwa Park and Sukgeun Jung**  
Long-term change in dominant fishery species and their cold-water habitats in the Korean coastal waters (S7-4340)
- 16:50 **W. Waldo Wakefield and Brian N. Tissot**  
Ecological associations between structure-forming invertebrates and demersal fishes on Heceta Bank, Oregon (S7-4421)
- 17:10 **Edward J. Gregr and Glen S. Jamieson**  
An ecological classification of sponge and coral habitat in Pacific Canadian waters (S7-4385)

**S7 Posters**

- S7-4474 **Jessica L. Finney, E.J. Gregr, Glen S. Jamieson and S. Patton**  
Predicting suitable habitat for deep sea coral in British Columbia
- S7-4501 **Sung Eun Park, Won Chan Lee, Hyun Taik Oh, Sok Jin Hong, Rae-Hong Jung and Sang Pil Yoon**  
Numerical experiments on the stably stratified flow over a shallow seamount in a channel