MEQ Topic Session
The role of submerged aquatic vegetation in the context of climate change

Co-Convenors: Ik-Kyo Chung (Korea) and Hiroshi Kawai (Japan)

This session will focus on the practical measures utilizing submerged aquatic vegetation (SAV) such as seaweeds and sea grasses in coping with climate change in coastal regions. Discussion is expected on immediate and practical SAV measures that mitigate and adapt against global warming and sea level rise. Participants will present papers highlighting their ideas on such practical measures against climate change and global warming as well as on other pertinent subjects.

Wednesday, October 28 (9:00-12:30)

9:00 Introduction by Convenors

9:10 Xuelei Zhang, X.J. Zhang and J.W. Wang
Restoration of seagrass/algal beds as a measure to abate climate change (S5-5700)

9:30 Kwang-Seok Park, Hyung-Suek Kim, Heon-Woo Park, Gun-Mok Sohn and Hyeon Park
Climate change adaptation using seaweed bed of BioSlag in marine environment (S5-6000)

9:50 I. Nyoman Radiarta, Sei-Ichi Saitoh and Toru Hirawake
The impact of climate change on the development of marine aquaculture: A case study on Japanese scallop aquaculture in Funka Bay, Hokkaido, Japan (S5-5619)

10:10 Seokjin Yoon and Michio J. Kishi
Estimation of the role of eelgrass and associated epiphytic algae on the carbon cycle in Akkeshi Lake, Japan (S5-5637)

10:30 Coffee / tea break

10:50 Taechoe Na, Ik Kyo Chung and Tongsup Lee
Estimation of carbon sequestration by seaweed beds (S5-5589)

11:10 Hack-Churl You, Munho Sohn and Grevo Gerung
Red-algae pulp and paper, bio-ethanol (S5-5962)

11:30 Eduard A. Titlyanov and Tamara Titlyanova
Coral-algal competition on damaged reefs (S5-5688)

11:50 Sang Yong Lee and Yong-Gun Gong
Seasonal variation in δ¹³C and δ¹⁵N values for the temperate seagrass Zostera marina and its relation to leaf production (S5-6003)

12:10 Tatyana N. Krupnova, Vladimir A. Pavlyuchkov and Vera V. Agarkova
Resource management of sea urchin Strongylocentrotus intermedius on the basis of its biotic relations with brown alga Laminaria japonica (S5-5848)

12:30 Session ends
S5 Posters

S5-5732  Miryang Kim, Jeong Chan Kang, Jong Chul Lee and Myung Sook Kim
Subtidal macroalgal species diversity during wintertime in Jeju Island, Korea

S5-5742  Sang Rul Park and Kun-Seop Lee
Growth and photosynthetic characteristics of three Zostera spp. (Z. japonica, Z. marina and Z. caespitosa) along vertical gradient: Implications for seagrass zonation

S5-5794  Seong Cheol Kim, Mi Sook Hwang, Jae Min Baek, Seock Jung Han, Nack Joong Choi, Mi Kyung Choe and Moon Ho Yang
Management of artificial coastal CO₂ removal belt in Korea

S5-5856  Yoon-Seok Choi, Choonkoo Jung and Min-Woo Park
The effect of geochemical characteristics and environmental factors on the growth of cultured ark shell Scapharca broughtonii at several shellfish-farming bays on the south coast of Korea

S5-6001  Ik Kyo Chung, Kwang-Seok Park, Hyung-Suck Kim, Jin-Hwan Hwang, Jae-Young Lee and Jung Hyun Oak
Research and development roadmap for climate change adaptation and CO₂ mitigation in the Korean maritime and fisheries sector

S5-6002  Jin Ae Lee, Jung Hyun Oak and Siew-Moi Phang
The Asian Network for Using Algae as a CO₂ Sink of the Asian Pacific Phycological Association