

MEQ Topic Session

S6 The relative contributions of off-shore and in-shore sources to harmful algal bloom development and persistence in the PICES region

Co-Convenors: Hao Guo (China) and Vera L. Trainer (U.S.A.)

There is increasing recognition that some harmful algal blooms (HABs) affecting coastal waters may not have local origins but are advected from offshore waters. This session will highlight recent advances in studying the processes involved in near-shore *versus* off-shore development and transport of harmful algal blooms in the coastal waters of the PICES region. Of particular interest are field studies where the relative importance of local *versus* remote development of HABs has been assessed. The session invites papers describing known off-shore and near-shore initiation sites, seedbeds, and the physical factors that facilitate transport of HABs to coastal sites where they may impact fisheries.

Tuesday, October 30, 2007 09:00 – 12:40

- 09:00 *Introduction by convenors*
- 09:10 **Amoreena MacFadyen, Barbara Hickey, Vera Trainer and William Cochlan**
The Juan de Fuca Eddy – An initiation site for toxigenic *Pseudo-nitzschia* blooms impacting the Washington coast (S6-4297)
- 09:30 **Michael Foreman, Wendy Callendar, Amy MacFadyen, Barbara Hickey, Vera Trainer, Angelica Peña, Richard Thomson and Emanuele Di Lorenzo (Invited)**
Juan de Fuca Eddy generation and its relevance to harmful algal bloom development along the outer Washington coast (S6-4085)
- 10:00 **Luzviminda M. Dimaano, Lewelen A. Arcaya, Joseph Chester M. Malaca, Francis Martin M. Mirasol and Mark Joseph D. Tan**
The distribution of three toxic epiphytic dinoflagellates as potential bioindicators of anthropogenic pollutants in the reefs of San Fernando, La Union, Philippines (S6-4026)
- 10:20 **Tatyana A. Mogilnikova, Elena M. Latkovskaya, Izolda A. Mitrakovich, Natalya V. Konovalova, Irina V. Motylkova, Tatyana G. Koreneva, I Ken Chi, Ludmila Yu. Gavrina and Maria A. Smirnova**
Toxic phytoplankton in Aniva Bay and environment conditions of development (S6-4084)
- 10:40 *Coffee / tea break*
- 11:00 **Mingyuan Zhu, Mingjiang Zhou and Ruixiang Li (Invited)**
HAB process in the coastal water of Zhejiang province, East China Sea (S6-4313)
- 11:30 **Angelica Peña and Michael Foreman**
Biophysical modeling of the Juan de Fuca Eddy in the Pacific Northwest (S6-4377)
- 11:50 **Xuelei Zhang, Z.J. Xu and M.Y. Zhu**
Impact of atmospheric dust on phytoplankton growth in the Yellow Sea and western Pacific (S6-4077)
- 12:10 **Douding Lu and Dedi Zhu (Invited)**
Blooms of dinoflagellates in the East China Sea – Possible linkages to physical processes (S6-4196)

S6 Posters

- S6-4074 **Hao Guo, Huan Wang, Bin Liang and Bin Chen**
Application of a Fluorescence *In-Situ* Hybridization (FISH) method to detect *Alexandrium* spp.
- S6-4135 **Zohreh Ramezanzpour, Javid Imanpour and Karim Mehdinezhad**
Harmful bloom of invasive algae in the southern Caspian Sea
- S6-4213 **Chunjiang Guan, Hao Guo and Wen Zhao**
Accumulation and elimination of *Alexandrium tamarense* toxins by the scallop, *Argopectens irradians*
- S6-4257 **Yaobing Wang, Binxia Cao, Yan Yin and Hao Guo**
The relationship between algal bacteria and *Alexandrium tamarense*
- S6-4334 **Zongling Wang, Ruixiang Li, Mingyuan Zhu, Xiao Liu, Yanju Hao and Xihua You**
The density-dependent interspecific competition between *Prorocentrum donghaiense* and *Alexandrium tamarense*