W5 Workshop agenda  
Workshop 5 PICES Annual Meeting  
Sept. 25, 2022, 09:00 – 16:00   
Busan, Korea

**Integrating biological research, fisheries science and management of broadly distributed flatfish species across the North Pacific Ocean in the face of climate and environmental variability**

*Morning Session: 09:00-12:30*

**09:00-9:05** Welcome, share agenda

**9:05-9:10** Background and Workshop goals

**9:10 -9:50** Invited Speaker: *Improving petrale sole (Eopsetta jordani) fishery management advice through a mechanistic understanding of oceanographic drivers of recruitment and biophysical connectivity.* – Dr. Melissa Haltuch, NOAA, USA (In person)

**9:50 – 10:30** Invited Speaker: *Groundfish biodiversity change in northeastern Pacific waters under projected warming and deoxygenation.*– Dr. Patrick Thompson, Fisheries and Oceans Canada (Recorded Invited)

**10:30 -10:50** Break

**10:50 – 11:30** Invited Speaker: *Importance of monitoring biological characteristics of flatfishes.* – Dr. Takeshi Tomiyama, Hiroshima University, Japan (In person)

**11:30 -12:00** Oral Communication: *Improved understanding of seasonal reproductive development in female Pacific halibut (Hippoglossus stenolepis) guiding accurate revision of maturity estimates.* **–** Dr. Josep Planas, International Pacific Halibut Commission, USA (In person)

**12:00-12:30** Oral Communication: *Understanding Pacific Halibut Spatial Dynamics in the Northern Bering Sea.* Mr. Austin Flanigan, University of Alaska Fairbanks, USA (In person)

*Afternoon Session: Oral Communications 14:00 – 15:00*

**14:00 -14:30** Oral Communication: *Evaluating stress profiles and mortality rates of discarded Pacific halibut from the charter recreational fishery.* **–** Mr. Claude Dykstra, International Pacific Halibut Commission, USA (In person)

**14:30 -15:00** Oral Communication: *Generation of genomic resources for the Pacific halibut (Hippoglossus stenolepis) to assist in population biology studies informing fisheries management.* **–** Dr. Josep Planas, International Pacific Halibut Commission, USA (In person)

*Afternoon Session: Discussion and Summary 15:00 – 16:00*

**15:00 – 15:50** Discussion

* Key issues in flatfish biology and fishery science
* Delineation of scientific collaborative and data sharing strategies on flatfish biology and fishery science within PICES member countries
* Common and species-specific potential impacts of climate change
* Future actions related to the Workshop topic within PICES (e.g. working group, etc)

**15:50 – 16:00** Summary

* Summary of Workshop findings and key issues related to the Workshop topic.
* Future plans
* Assess the need for a study or working group to further increase PICES data sharing