W1 Workshop agenda  
Workshop 1 PICES Annual Meeting  
24-25 September 2022, 09:00 – 18:00   
Busan, Korea

**Distributions of pelagic, demersal, and benthic species associated with seamounts in the North Pacific Ocean and factors influencing their distributions**

*September 24 Morning Session: 09:00-12:30*

**09:00-9:30** Welcome, introductions, workshop overview, and agenda

**9:30-10:30** Invited Speaker presentation and discussion: *Title and abstract to be posted.* – Dr. Telmo Morato (In person)

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

**10:50 – 11:05** Speaker: *Oceanographic influences on biological production and energy transfer in seamount ecosystems* – Dr. John Dower (In person)

**11:05 -11:20** Speaker: *Investigating seamount effects on zooplankton in the Northeast Pacific*

– Mr.Daniel Labbé (In person)

**11:20-11:35** Speaker: Seamount effects on micronekton at a subtropical central Pacific seamount*.* Dr. Réka Domokos (In person)

**11:35-11:50** Speaker: *Can Gulf of Alaska seamounts be a spawning ground for sablefish recruiting to inshore nursery habitats?*– Dr. Georgina Gibson (On line)

**11:50-12:05** Speaker: *Biology and fisheries of North Pacific armorhead and splendid alfonsino in the SE-NHR area*– Dr. Kota Sawada (In person)

**12:05-12:20** Speaker: *Species Distribution Modeling to Identify and Protect Vulnerable Marine Ecosystems: Case Studies from the South Pacific Ocean*– Dr. Samuel Georgian (In person)

**12:30 -2:00** Lunch

*September 24 Afternoon Session: 14:00 – 18:00*

**14:00-14:15** Speaker: *Using species distribution modeling to predict deep-sea coral and sponge communities, hotspots, diversity and indicators*– Dr. Chris Rooper (In person)

**14:15-14:30** Speaker: *Composition of cold-water corals and other deep-sea benthos in the Emperor Seamounts* – Dr. Mai Miyamoto (In person)

**14:30 – 14:45** Speaker: *Using predictive habitat models and visual surveys to identify vulnerable marine ecosystems (VMEs) on seamounts in the North Pacific Fisheries Commission’s Convention Area*– Dr. Janelle Curtis (In person)

**14:45 – 15:30** Discussion: Environmental factors that influence the ecology of seamounts

**15:30 – 16:30** Discussion: SDMs – a case study of predicting the distribution of corals in the northeast Pacific Ocean

**16:30 – 16:50** Break

**16:50 – 18:00** Discussion: SDMs – in pelagic, demersal and benthic environments

*September 25 Morning Session*

**9:00 – 9:30**  Discussion: SDMs – in pelagic, demersal and benthic environments

**9:30 – 10:30**  Discussion: Predicting seamount ecology responses to climate-change

**10:30 – 11:00**  Discussion: Next steps for Working Group on Ecology of Seamounts (WG47)

**11:00 – 11:20** Break

**11:20 – 12:00** Discussion: SDMs and / or climate-change responses

**12:00 – 12:30** Discussion: Wrap up / summary / conclusions

**Desired Outcomes:**

* Identifying and understanding factors influencing the diversity and distributions of species associated with seamounts in the North Pacific Ocean.
* Building capacity to develop predictive habitat models in the North Pacific Ocean.
* Identifying and taking the first steps toward building and applying models to understand the ecology and distribution of species associated with seamounts.
* Predicting how seamount species distributions are likely to respond to natural and anthropogenic forcing, including climate change.
* Assessing the potential impacts of climate change to seamount ecology.