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Summary Brief: Shanghai Pacific Fisheries Symposium, 8-10 October 2025

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Submitted by ANCORS and SPC

Shanghai Pacific Fisheries Symposium 8-10 October 2025

Summary Brief

In October 2025, Shanghai Ocean University (SHOU), the Pacific Community (SPC) and the Australian National Centre for Ocean Resources and Security (ANCORS) at the University of Wollongong co-hosted their second symposium focused on Pacific fisheries science and policy. The symposium continued to build scientific and research cooperation and further developed networks between regional scientists and experts, enabling participants to present and share related studies and developments, improve scientific knowledge and understanding, and identify and develop collaboration opportunities.

SHOU generously hosted the symposium in the beautiful Shanghai Royal Garden Hotel and invited participants on a tour of the Shanghai Ocean University campus, that included their fisheries museum, RFMO research labs, fishing technology water tanks, and observer training facilities. The symposium was attended by more than 40 researchers, scientists and students from SHOU, SPC, ANCORS, Solomon Islands National University (SINU), Japan Fisheries Research and Education Agency (FRA), Vanuatu Fisheries Department, Inter-American Tropical Tuna Commission (IATTC), University of Technology Sydney, and the Pacific Islands Forum Fisheries Agency (FFA). Participants engaged in wide-ranging discussions of science and policy, structured around 3 themes:

1. Biological and ecological studies of Pacific tunas. Participants presented and discussed studies on tuna biology and ecology (migration, forage, population structure, population distribution, etc.), tuna sampling and tuna genetics.
2. Stock assessment and management strategy evaluation of Pacific tunas. Discussions and presentations explored tuna stock assessment (assessment model development, CPUE standardization etc.) as well as tuna management strategy evaluation (operating model development, management procedure development and testing, etc).
3. Global policy drivers for Pacific tuna fisheries. The symposium concluded with presentations and discussions on global policy drivers and governance challenges, exploring the impacts and responses to climate change and noise pollution, allocation and equity concerns, the International Tribunal on the Law of the Sea, socio-economic indicators and crew welfare.

Following the successful symposium, the participants will now prepare a special issue in a scientific journal which will be edited by Prof. Fan Zhang, Dr Graham Pilling and Prof. Quentin Hanich. The symposium organisers hope to distribute this special issue at WCPFC 2026 for the information of members. In the meantime, the organisers plan to further develop this collaboration and will explore opportunities and priorities for a 3rd symposium in late 2026.



Pacific
Community
Communauté
du Pacifique



2025

太平洋金枪鱼及其 渔业科学国际研讨会

**International Symposium on the Science of
Pacific Tunas and Tuna Fisheries**

会议日程

Meeting schedule

Date: 8-10 October 2025

**SHANGHAI
CHINA**



Program Summary
<p>- Opening speech and welcome</p> <p><i>Prof Luo Yi, Vice-President Shanghai Ocean University</i></p> <p>- Keynote speech: From the Pacific to the World: Navigating Global Policy Currents in the Governance of Tuna Fisheries in Pacific Island States</p> <p><i>Dr. Transform Aqorau, Vice-Chancellor Solomon Islands National University,</i></p>
Theme1 / Chairman Fan Zhang
<p>Mechanisms of the El Niño effects on population dynamics of Skipjack tuna in the eastern Pacific Ocean</p> <p><i>Presentation by Qinqin Lin, SHOU</i></p>
<p>Population structure of south pacific albacore associated with spatially distinct spawning habitats</p> <p><i>Presentation by Dongqi Lu, SHOU</i></p>
<p>Spatial-temporal strategy and fishing practices drive catch composition in FAD-associated Tuna Purse Seine Fisheries</p> <p><i>Presentation by Cheng Zhou, SHOU</i></p>
<p>Getting better and better AIS data quality</p> <p><i>Presentation by Xin Cheng, SHOU</i></p>
<p>Do More Boats Mean More Fish?</p> <p><i>Presentation by Hongyu Lin, SHOU</i></p>
<p>Fuel Consumption Characteristics and Carbon Emission Assessment of Chinese Tuna Longline Fishing Vessels</p> <p><i>Presentation by Xiaoci Wu, SHOU</i></p>
<p>The Role of Heterogeneous Environment on Pacific Tuna Biological Parameters</p> <p><i>Presentation by Joe Scutt Philips, SPC</i></p>
Theme2 / Chairman Graham Pilling
<p>Joint modelling of multiple longline fleets improves indices of abundance for bigeye and yellowfin tuna in the eastern Pacific Ocean</p> <p><i>Presentation by Haikun Xu, Inter-American Tropical Tuna Commission</i></p>
<p>Environmental Drivers of Catchability in Chinese Longline Fisheries Using VAST and sdmTMB</p> <p><i>Presentation by Shiyu Yang, SHOU</i></p>

<p>Integrated standardization of CPUE and length composition across gear types and data sources using a spatiotemporal model</p> <p><i>Presentation by Rujia Bi, Inter-American Tropical Tuna Commission</i></p>
<p>How conceptual models improve stock assessment: lessons from recent applications?</p> <p><i>Presentation by Carolina Minte-Vera, Inter-American Tropical Tuna Commission</i></p>
<p>Evaluation of the Effectiveness of Catch Limit Management Measures for Longline Fisheries in the Western and Central Pacific Ocean</p> <p><i>Presentation by Yanan Li, SHOU</i></p>
<p>Dealing with uncertainty - from assessments to harvest strategies</p> <p><i>Presentation by Graham Pilling, SPC</i></p>
<p>Are Our CPUE Projections Realistic? A Hindcasting Analysis to Test How Well Can We Replicate Realistic CPUE In the Operating Models for WCPO Tuna Stocks</p> <p><i>Presentation by Nan Yao, SPC</i></p>
<p>Considering climate change impacts when developing robust harvest strategies for Pacific tuna stocks</p> <p><i>Presentation by Robert Scott, SPC</i></p>
<p>Theme 3 / Chairman Quentin Hanich</p>
<p>Exploring the management of the pelagic tuna fisheries in China: Evolution, challenges and recommendations</p> <p><i>Presentation by Xiaolin Chu, SHOU</i></p>
<p>Measuring the nutritional benefits of increasing access to tuna for Pacific Island food systems</p> <p><i>Presentation by Johann Bell, ANCORS</i></p>
<p>Social and economic monitoring of development benefits from tuna industries for Pacific Island countries</p> <p><i>Presentation by Kate Barclay, University of Technology Sydney</i></p>
<p>Economic Impacts of Climate Change on Pacific Tuna Fisheries</p> <p><i>Presentation by Max Gillespie, Pacific Islands Forum Fisheries Agency</i></p>
<p>Follow the fish: transferable fishing rights could be an robust response to climate change–induced shifts in the distribution of transboundary stocks</p> <p><i>Presentation by Kamal Azmi, ANCORS</i></p>

Decarbonizing the High Seas: The ITLOS Advisory Opinion's Catalytic Effect on Transforming Tuna Fisheries Allocation

Presentation by Yuru He, SHOU

Reducing Ocean Noise Pollution through Regional Fisheries Management Organisations

Presentation by Sunnefa Yeatman Omarsdottir, ANCORS

The issue of crew labour in fisheries

Presentation by Bianca Haas, ANCORS

The evolution of allocation in transboundary fisheries; from economic theory to pragmatic necessity

Presentation by Quentin Hanich, Ruth Davis, Ina Tessnow-von Wysocki, ANCORS