North Pacific Fisheries Commission

NPFC-2023-SC08-IP03

NPFC Data Management System

Abstract: The purpose of this paper is to report on the progress in the development of the Scientific Committee-related data management system to all Members.

Update on the development of the NPFC Data Management System since the 7th Scientific Committee Meeting

1. NPFC website

The Members Home section on the top and the Quick links section provide easy access to the pages that Members regularly visit.

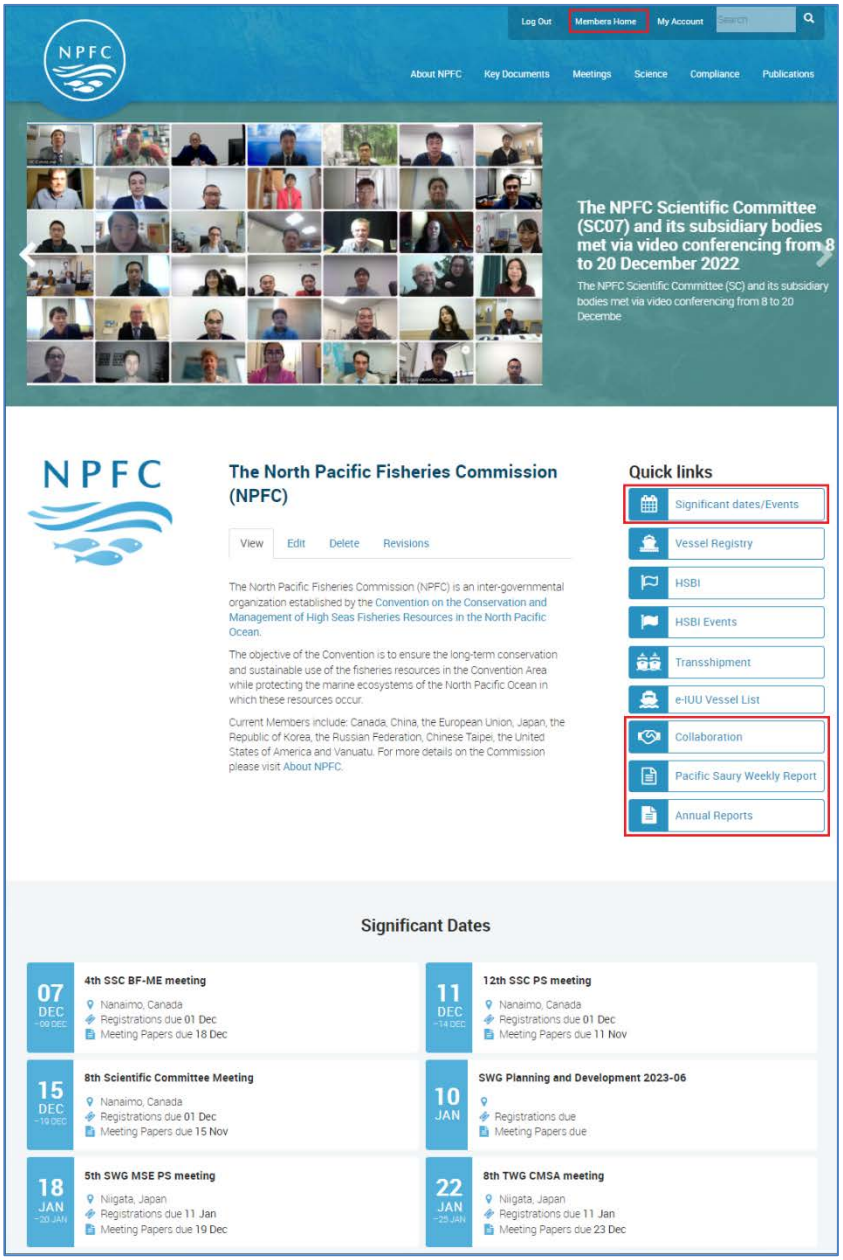
a. The Members Home section provides the NPFC contact information of "Designated Representatives and Official contacts" and "Focal Point contacts for the NPFC Committees and Working Groups".

b. The Significant dates/Events section displays meeting schedules on the calendar.

c. Pacific Saury Weekly Report provides the cumulative catch data and gives access to designated Members to enter weekly catch data.

d. Collaboration section provides the direct link to the discussion pages of the scientific committee and its subsidiaries.

e. The Annual reports section provides access to the e-Annual Report and displays all historical annual reports submitted by Members.



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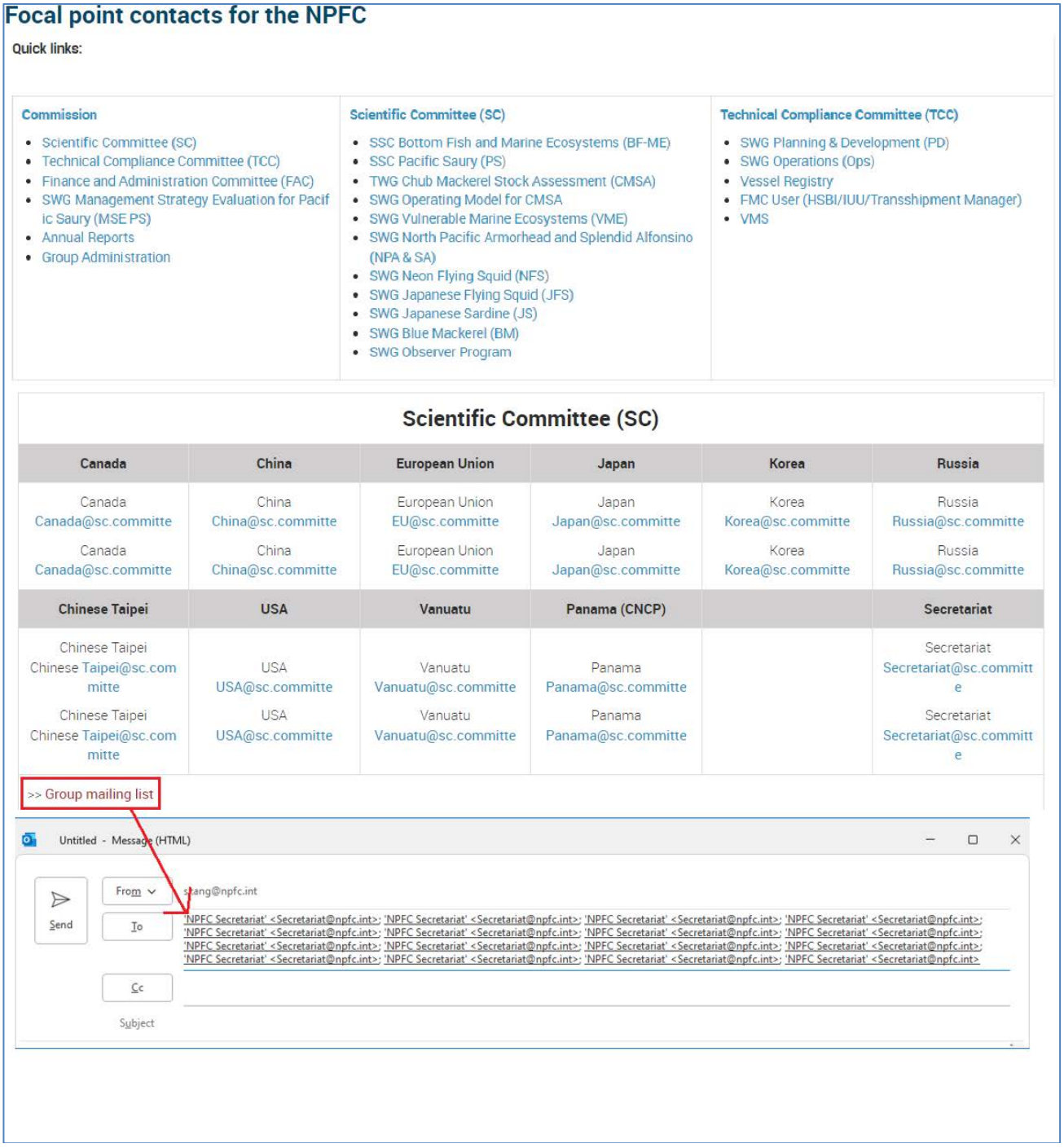
a. Members Home (https://www.npfc.int/members)

The Members Home section provides the NPFC contact information of "Designated Representatives and Official contacts" and "Focal Point contacts for the NPFC Committees and Working Groups". The main features are as follows.

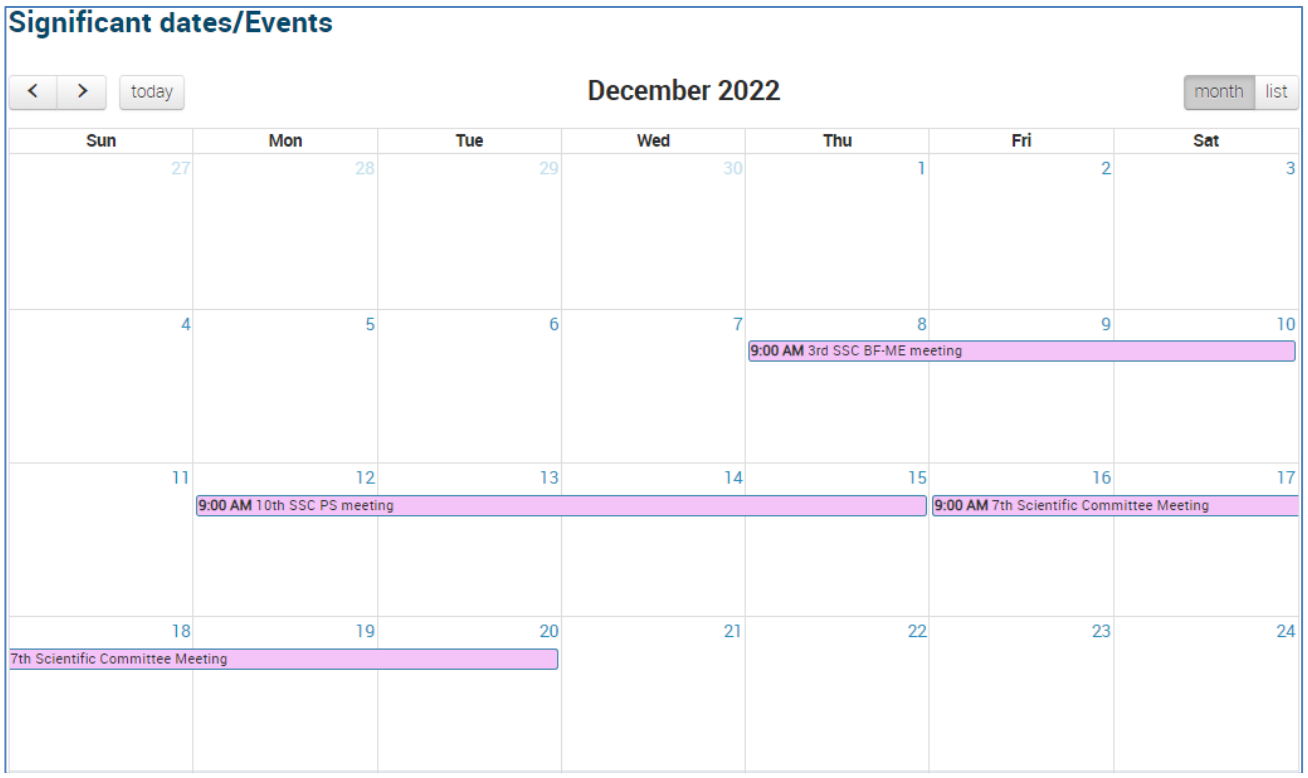
1. The electronic version (HTML Format) of the contact list, which is regularly updated by Secretariat with updated dates marked.
2. Group mailing function **to the related working groups**



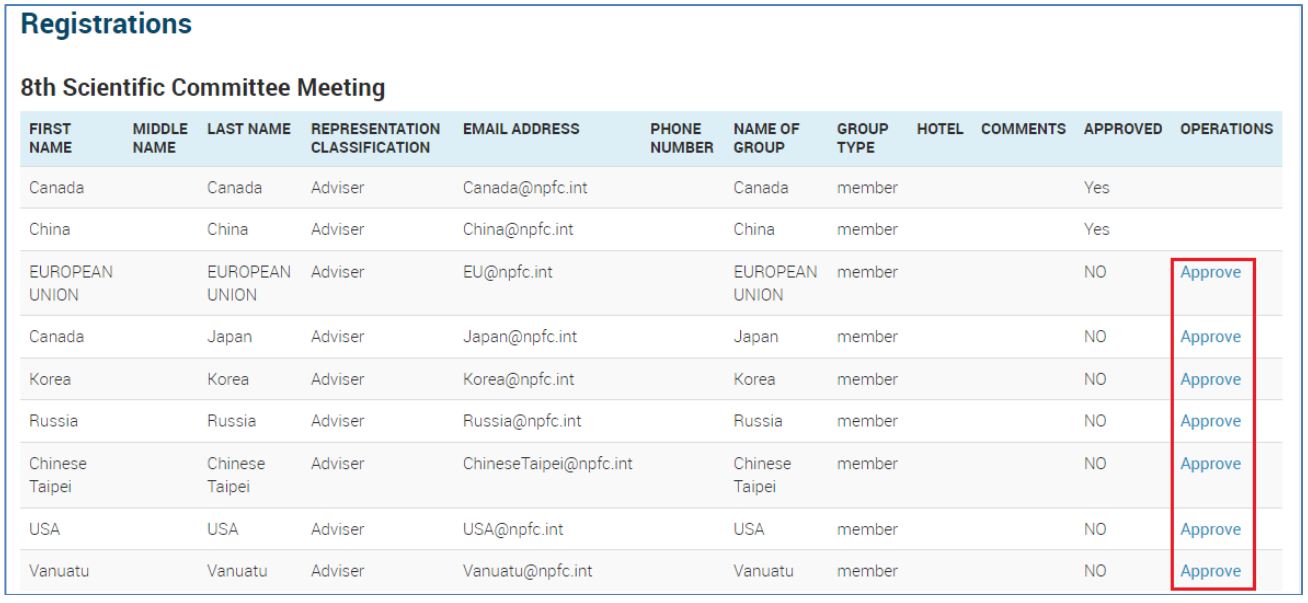
In 2024, the Secretariat plans to develop a complete list of membership for each subsidiary body to improve communication among Members.

b. Significant dates/events (https://www.npfc.int/significant-dates-calendar)

The Secretariat is tasked to manage the commission schedule, and all meeting dates are displayed in this calendar. By default, the scheduled items/events are open to the public and Members, but they can be shown to Members only if needed.

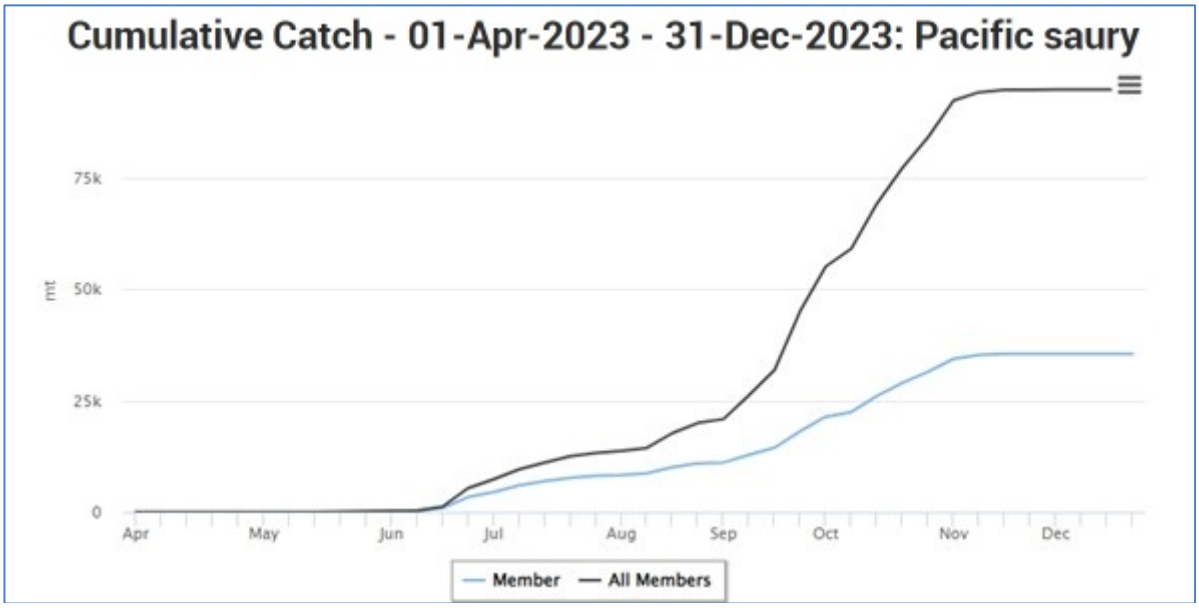


Members, CNCPs, and Observers are **highly encouraged** to register for the meetings by themselves, and it requires their Group administrators' approval.

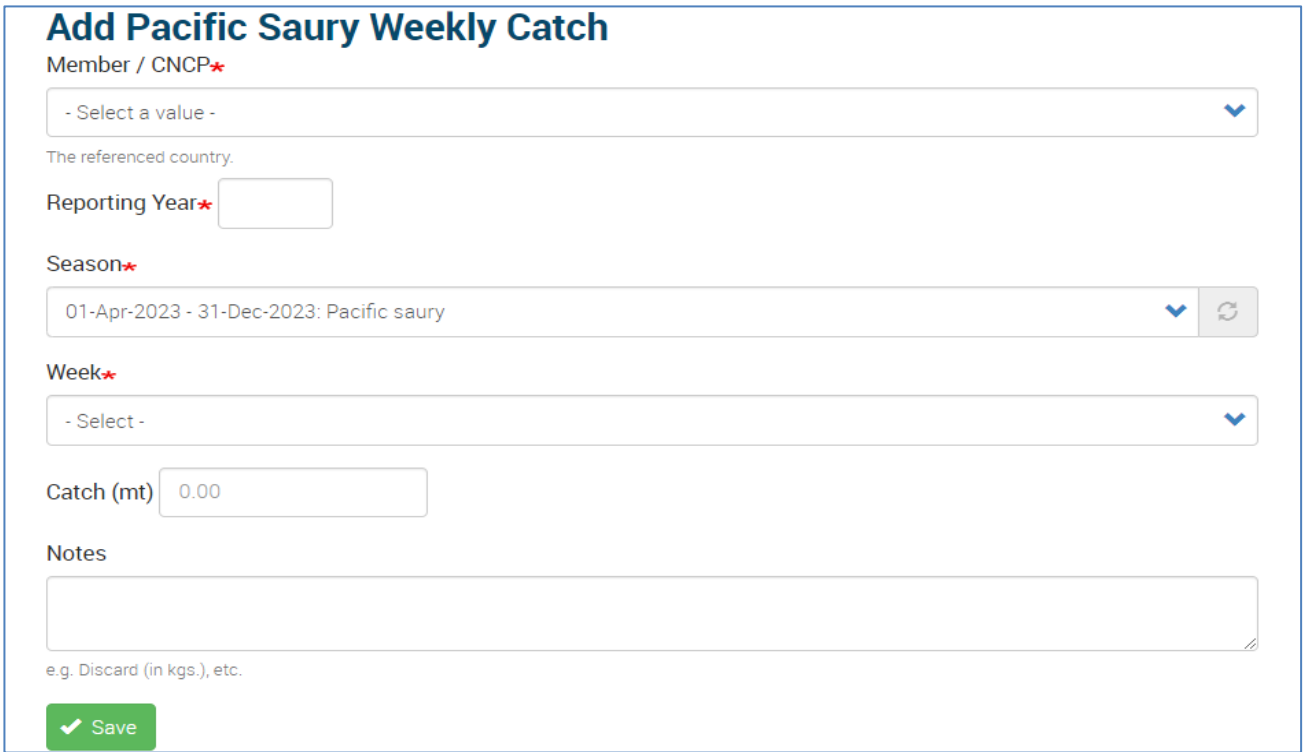


c. Pacific Saury Weekly Report (https://www.npfc.int/submissions/weekly-catch)

Members can view the sum of all Members' Pacific Saury fisheries catch data and their own data including the Used TAC percentage. The catch data from other Members are not displayed. In addition, the sum of all Members' cumulative catch of Pacific saury is posted on the public domain of the website (https://www.npfc.int/pacific-saury-cumulative-catch).

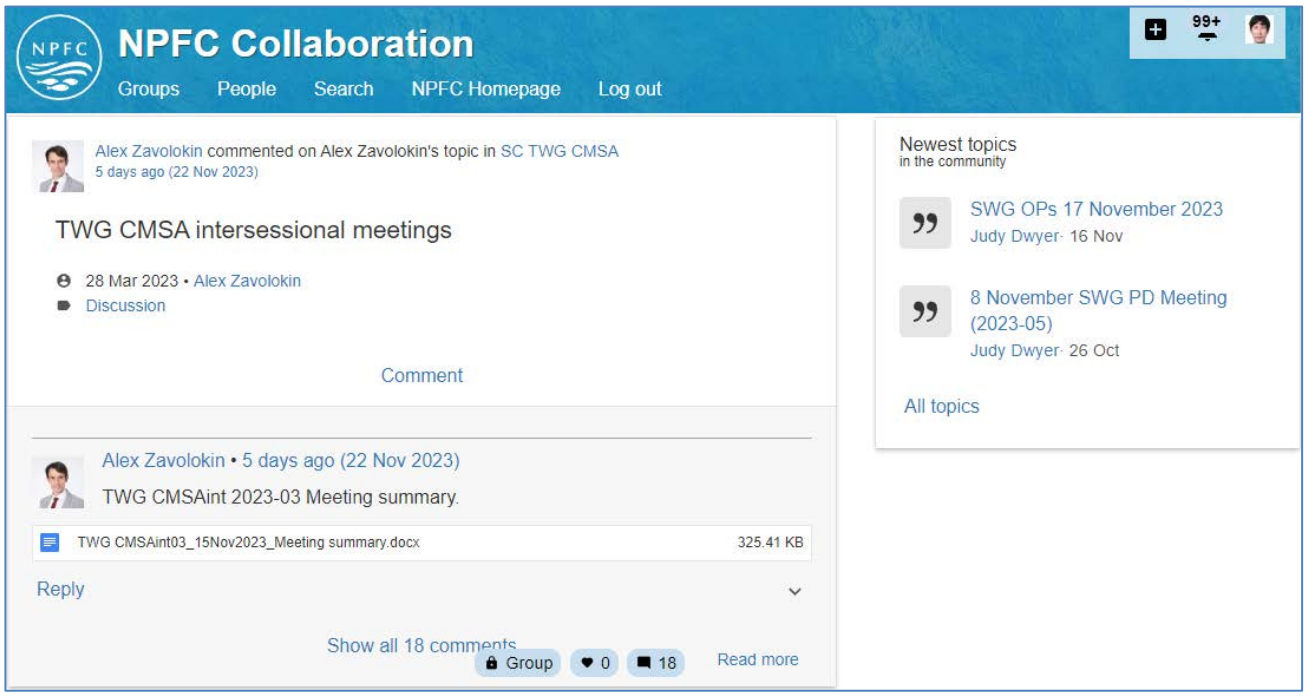


Designated Members representing Pacific Saury fisheries are required to enter weekly catch data (in metric tons). (https://www.npfc.int/irs/add/psw_weekly_catch)



d. Collaboration (https://collaboration.npfc.int)

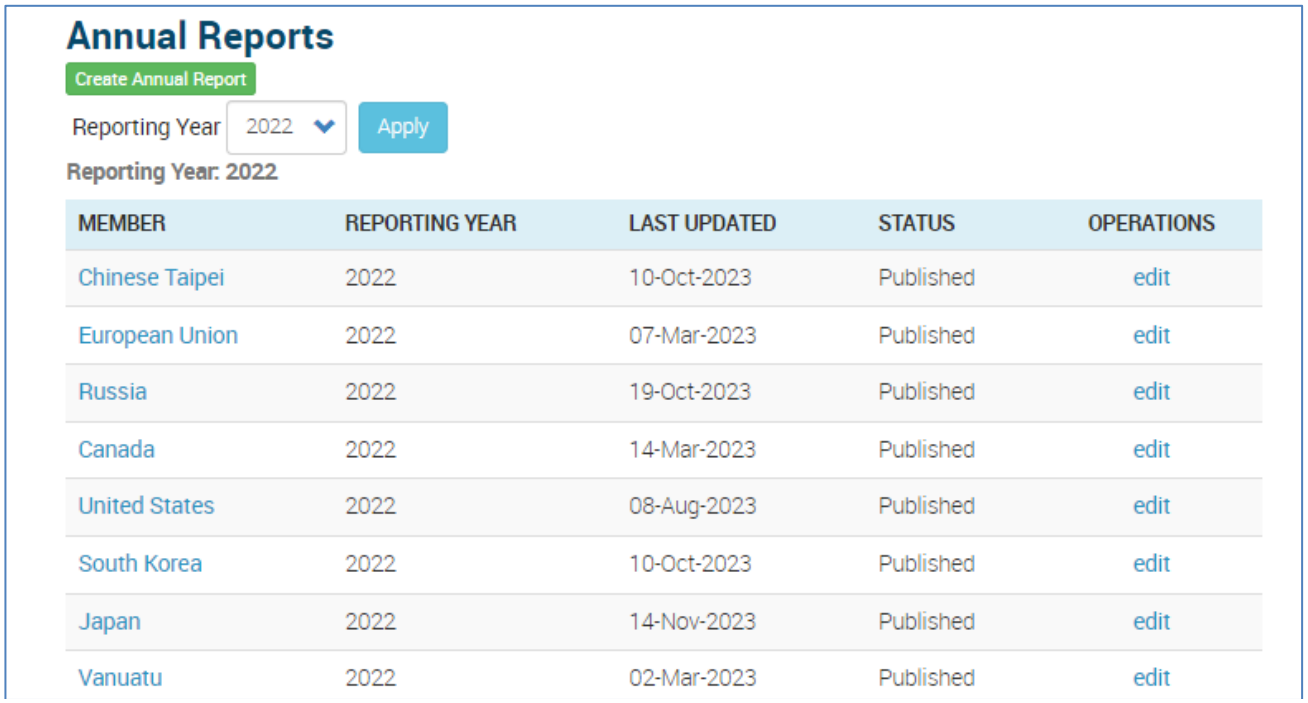
The NPFC Collaboration page is only accessible to the NPFC Members registered to the particular discussion groups such as SC, SSC PS, TWG CMSA, SSC BF-ME, etc. The secretariat provides members with access to specific groups based on the members' requirements and necessities.



e. Annual Reports (https://www.npfc.int/annual-reports-members)

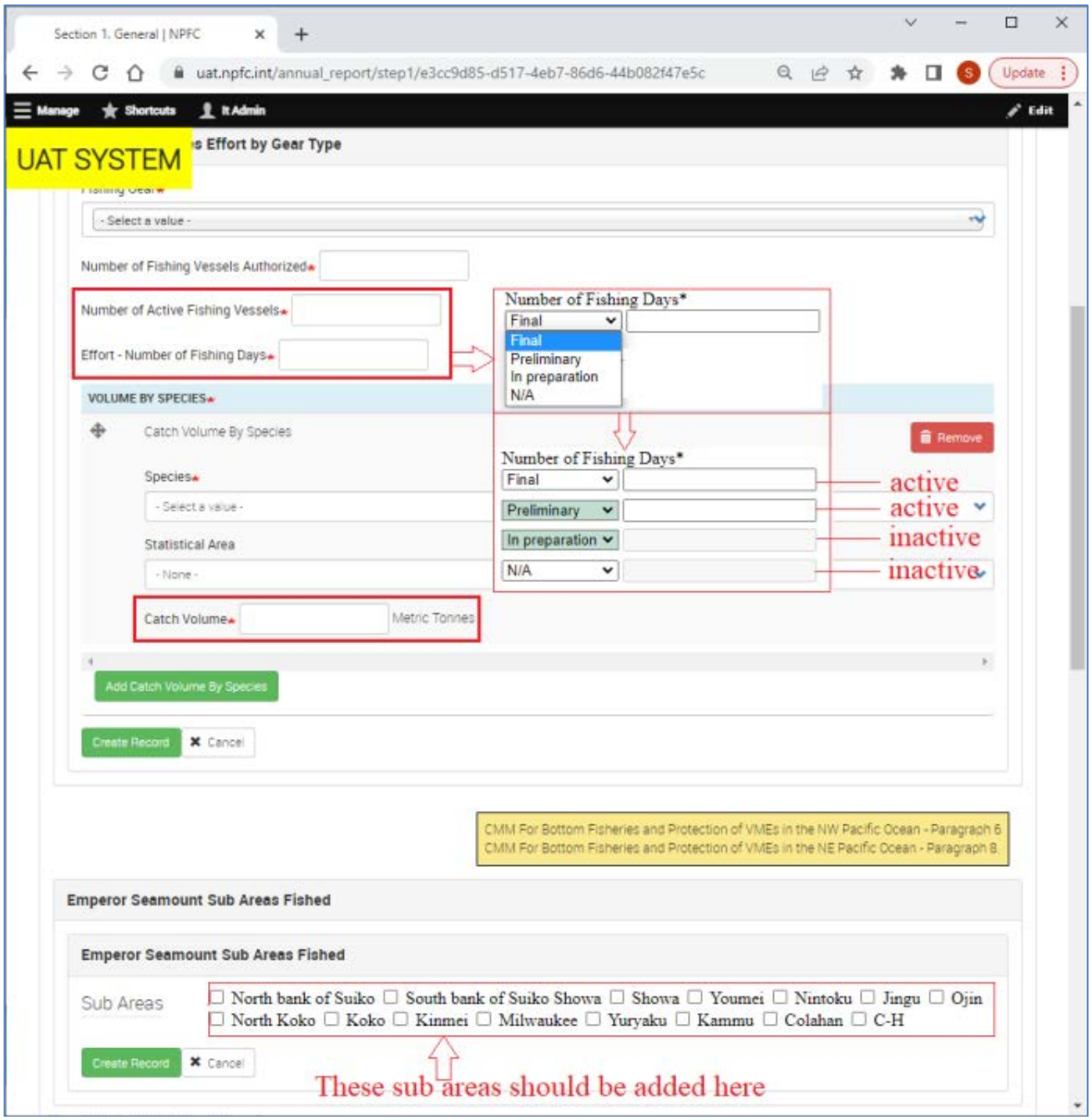
The Annual Reports section is accessible to all NPFC Members.

The Annual Reports section also has a link to the e-Annual Report where designated Member representatives can enter their report for the calendar year. From 2021, the secretariat requests Member representatives to use the e-Annual Report.



MEMBER	REPORTING YEAR	LAST UPDATED	STATUS	OPERATIONS
Chinese Taipei	2022	10-Oct-2023	Published	edit
European Union	2022	07-Mar-2023	Published	edit
Russia	2022	19-Oct-2023	Published	edit
Canada	2022	14-Mar-2023	Published	edit
United States	2022	08-Aug-2023	Published	edit
South Korea	2022	10-Oct-2023	Published	edit
Japan	2022	14-Nov-2023	Published	edit
Vanuatu	2022	02-Mar-2023	Published	edit

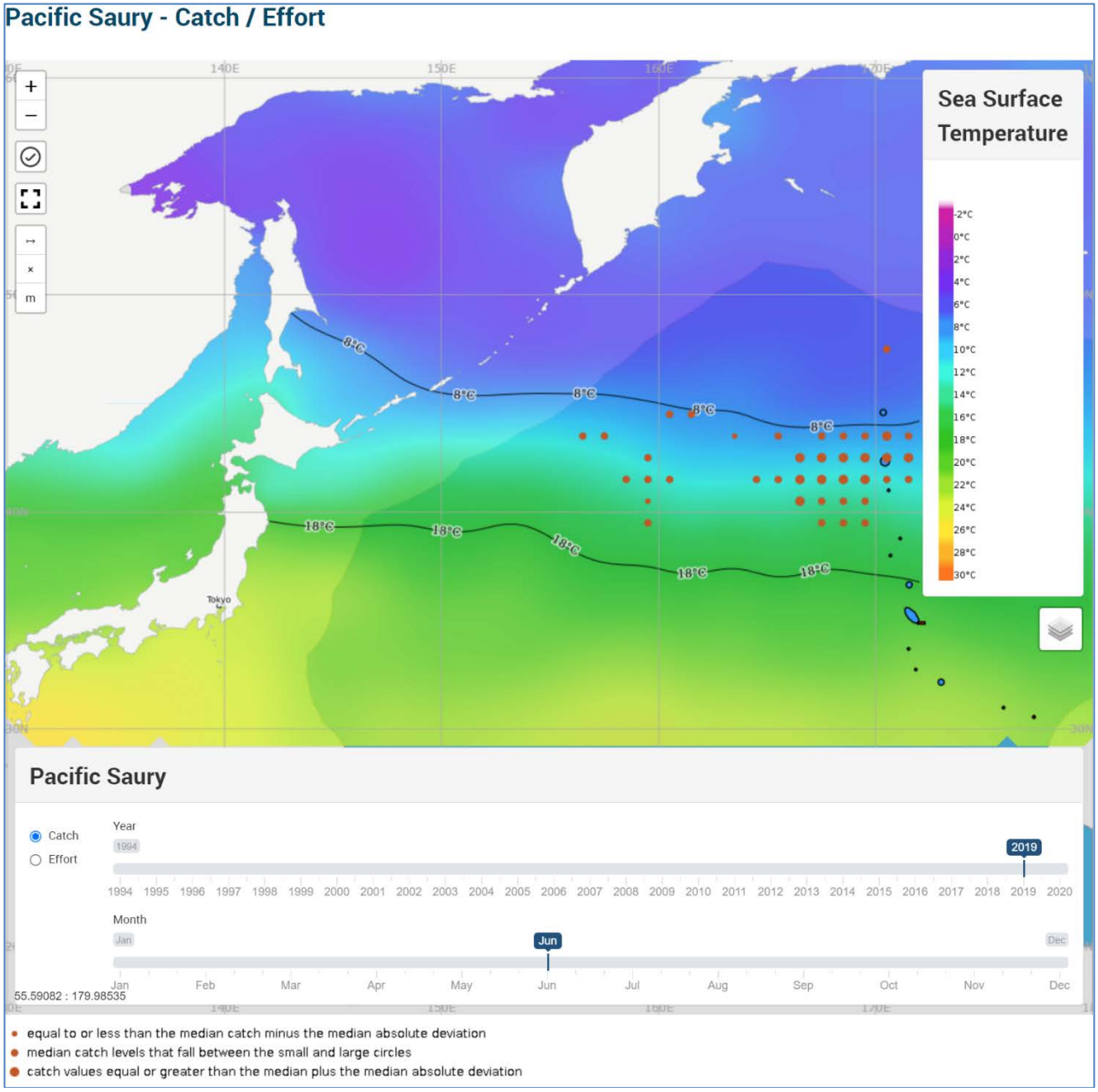
There have been some functional updates regarding the status of “Catch Volume, Number of Active Fishing Vessel and Effort-Number of Fishing Days”. There are four options (Final, Preliminary, In preparation, and N/A) and Members can choose one of them depending on their current status. Members can also choose Emperor Seamount Sub Areas for their bottom fisheries.



2. NPFC GIS Maps

2.1 Pacific Saury Map (https://www.npfc.int/science/gis/catch-effort/saury)

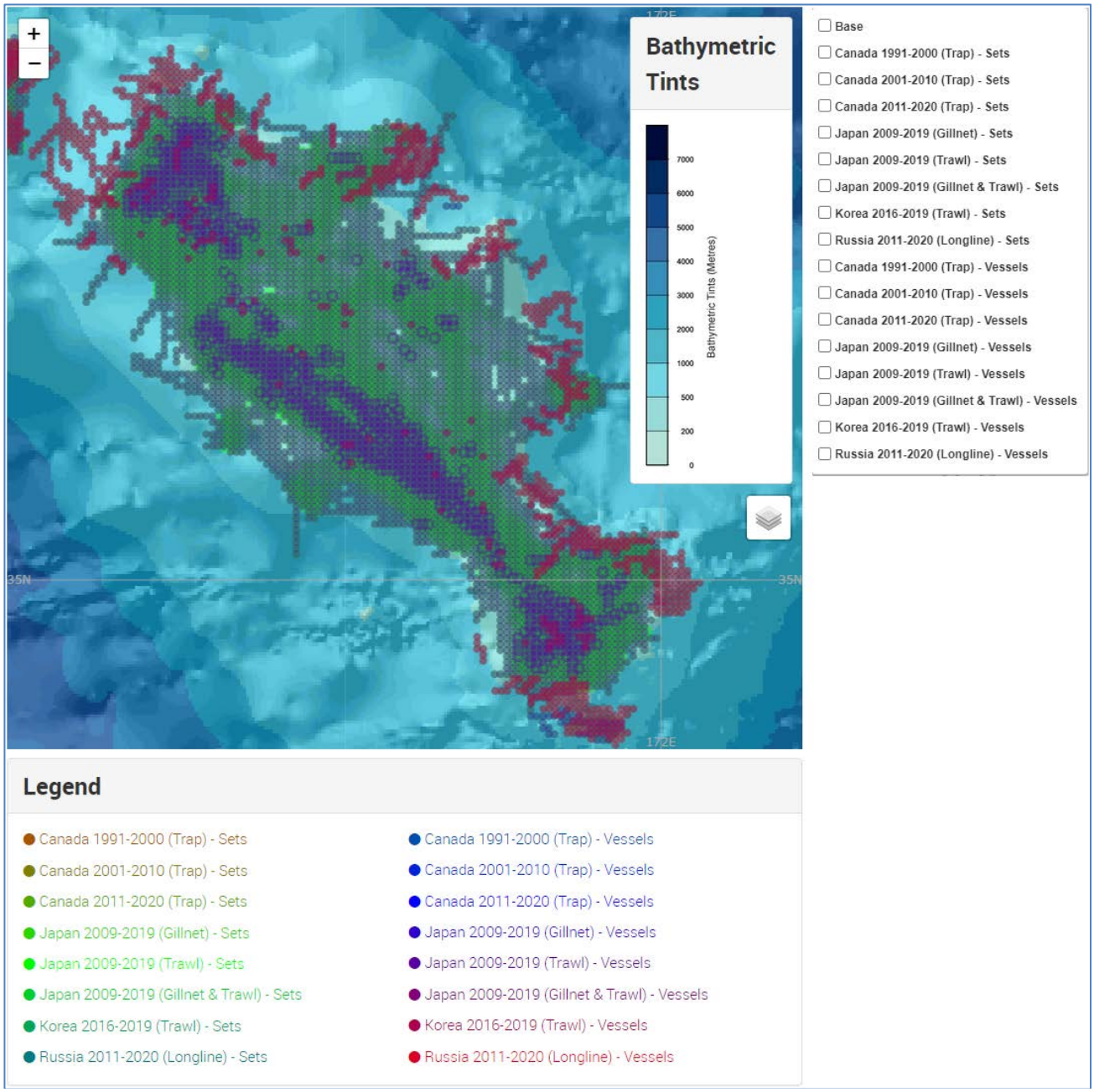
The Pacific Saury Map has recently been updated to include the Pacific Saury Catch and Effort data with sea surface temperature per grid from 1994 to 2022.



2.2 Bottom Fishing Map (https://www.npfc.int/science/gis/bottom_fishing)

The Small Scientific Committee on Bottom Fish and Marine Ecosystems (SSC BF-ME) requested the Secretariat to develop provisional maps of combined, gear-specific footprints. The following example map shows the bottom fishing footprint data by different gear types and time periods.

Bottom fishing map by the number of Vessels and the number of Sets



2.3 Prototype of NPFC Neon Flying Squid map

The Secretariat is currently in the process of developing the NPFC Neon Flying Squid map. This map will bear similarity to the Pacific Saury Catch and Effort Map, encompassing comprehensive data, including catch details, fishing effort, and geographical locations. Additionally, it will integrate datasets on Extended Reconstructed Sea Surface Temperature from the United States' National Oceanic and Atmospheric Administration (NOAA).

The map will offer interactive features, allowing users to filter data by member, year, and month. Users will also have the capability to visualize catch or effort information alongside sea surface temperature (SST) and SST anomalies. Furthermore, the map will include an "All members catch" feature, enabling users to access catch data from all contributing member countries.

It's important to note that the NFS dataset comprises contributions from five NPFC member: China, Japan, Korea, and Chinese Taipei, Vanuatu.

The next step is to deploy the NPFC Neon Flying Squid map on the website. **Members are invited to provide their suggestions.**