



## 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 7<sup>th</sup> 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.

- 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 **Significant dates/Events** section displays meeting schedules on the calendar.
- Pacific Saury Weekly Report** provides the cumulative catch data and gives access to designated Members to enter weekly catch data.
- Collaboration** section provides the direct link to the discussion pages of the scientific committee and its subsidiaries.
- The **Annual reports** section provides access to the e-Annual Report and displays all historical annual reports submitted by Members.

The screenshot shows the NPFC website homepage. At the top, there is a navigation bar with links for 'Log Out', 'Members Home', 'My Account', and a search bar. Below this is a main banner area featuring a grid of video conference participants and a text overlay: 'The NPFC Scientific Committee (SC07) and its subsidiary bodies met via video conferencing from 8 to 20 December 2022.' The text also mentions that the NPFC Scientific Committee (SC) and its subsidiary bodies met via video conferencing from 8 to 20 December.

Below the banner, the page is divided into several sections. On the left, there is a 'Quick links' section with buttons for 'Significant dates/Events', 'Vessel Registry', 'HSBI', 'HSBI Events', 'Transshipment', 'e-IUU Vessel List', 'Collaboration', 'Pacific Saury Weekly Report', and 'Annual Reports'. On the right, there is a 'Significant Dates' section displaying a calendar grid with meeting details for various dates in December and January.

Date	Event	Location	Registrations due	Meeting Papers due
07 DEC -08 DEC	4th SSC BF-ME meeting	Nanaimo, Canada	Registrations due 01 Dec	Meeting Papers due 18 Dec
11 DEC -14 DEC	12th SSC PS meeting	Nanaimo, Canada	Registrations due 01 Dec	Meeting Papers due 11 Nov
15 DEC -19 DEC	8th Scientific Committee Meeting	Nanaimo, Canada	Registrations due 01 Dec	Meeting Papers due 15 Nov
10 JAN	SWG Planning and Development 2023-06		Registrations due	Meeting Papers due
18 JAN -20 JAN	5th SWG MSE PS meeting	Niigata, Japan	Registrations due 11 Jan	Meeting Papers due 19 Dec
22 JAN -25 JAN	8th TWG CMSA meeting	Niigata, Japan	Registrations due 11 Jan	Meeting Papers due 23 Dec



**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.

**Significant dates/Events**

< > today **December 2022** month list

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	1	2	3
4	5	6	7	8	9	10
				9:00 AM 3rd SSC BF-ME meeting		
11	12	13	14	15	16	17
	9:00 AM 10th SSC PS meeting				9:00 AM 7th Scientific Committee Meeting	
18	19	20	21	22	23	24
7th Scientific Committee Meeting						

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

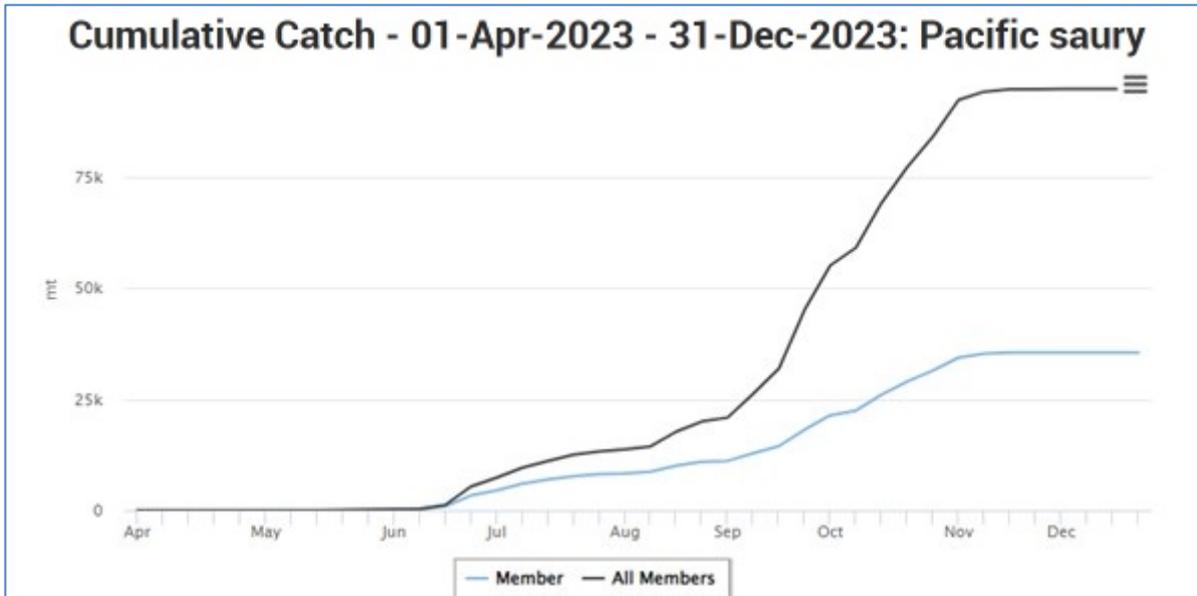
**Registrations**

**8th Scientific Committee Meeting**

FIRST NAME	MIDDLE NAME	LAST NAME	REPRESENTATION CLASSIFICATION	EMAIL ADDRESS	PHONE NUMBER	NAME OF GROUP	GROUP TYPE	HOTEL	COMMENTS	APPROVED	OPERATIONS
Canada		Canada	Adviser	Canada@npfc.int		Canada	member			Yes	
China		China	Adviser	China@npfc.int		China	member			Yes	
EUROPEAN UNION		EUROPEAN UNION	Adviser	EU@npfc.int		EUROPEAN UNION	member			NO	Approve
Canada		Japan	Adviser	Japan@npfc.int		Japan	member			NO	Approve
Korea		Korea	Adviser	Korea@npfc.int		Korea	member			NO	Approve
Russia		Russia	Adviser	Russia@npfc.int		Russia	member			NO	Approve
Chinese Taipei		Chinese Taipei	Adviser	ChineseTaipei@npfc.int		Chinese Taipei	member			NO	Approve
USA		USA	Adviser	USA@npfc.int		USA	member			NO	Approve
Vanuatu		Vanuatu	Adviser	Vanuatu@npfc.int		Vanuatu	member			NO	Approve

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](https://www.npfc.int/irs/add/psw_weekly_catch))

### Add Pacific Saury Weekly Catch

Member / CNCP\*

The referenced country.

Reporting Year\*

Season\*

Week\*

Catch (mt)

Notes

e.g. Discard (in kgs.), etc.

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.

The screenshot displays the NPFC Collaboration web interface. At the top, there is a blue header with the NPFC logo and the text "NPFC Collaboration". Navigation links include "Groups", "People", "Search", "NPFC Homepage", and "Log out". A user profile icon and "99+" are visible in the top right corner.

The main content area shows a discussion thread. At the top, it says "Alex Zavolokin commented on Alex Zavolokin's topic in SC TWG CMSA 5 days ago (22 Nov 2023)". The topic is "TWG CMSA intersessional meetings". Below the topic, it shows "28 Mar 2023 • Alex Zavolokin" and "Discussion". A "Comment" button is visible.

Below the comment, there is a post by "Alex Zavolokin • 5 days ago (22 Nov 2023)" titled "TWG CMSAint 2023-03 Meeting summary." It includes a document attachment: "TWG CMSAint03\_15Nov2023\_Meeting summary.docx" with a size of "325.41 KB". A "Reply" button is present.

At the bottom of the thread, it says "Show all 18 comments" and includes icons for "Group", "0" likes, and "18" comments, along with a "Read more" link.

On the right side, there is a sidebar titled "Newest topics in the community". It lists two topics: "SWG OPs 17 November 2023" by Judy Dwyer (16 Nov) and "8 November SWG PD Meeting (2023-05)" by Judy Dwyer (26 Oct). Below this, there is a link for "All topics".

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

The Annual Reports section is accessible to all NPFC Members.

## Annual Reports of Members

[e-Annual Report](#)  
[Annual Summary Footprint](#)

### Annual Report by Year

- [2022](#)
- [2021](#)
- [2020](#)
- [2019](#)
- [2018](#)
- [2017](#)
- [2016](#)

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.

## Annual Reports

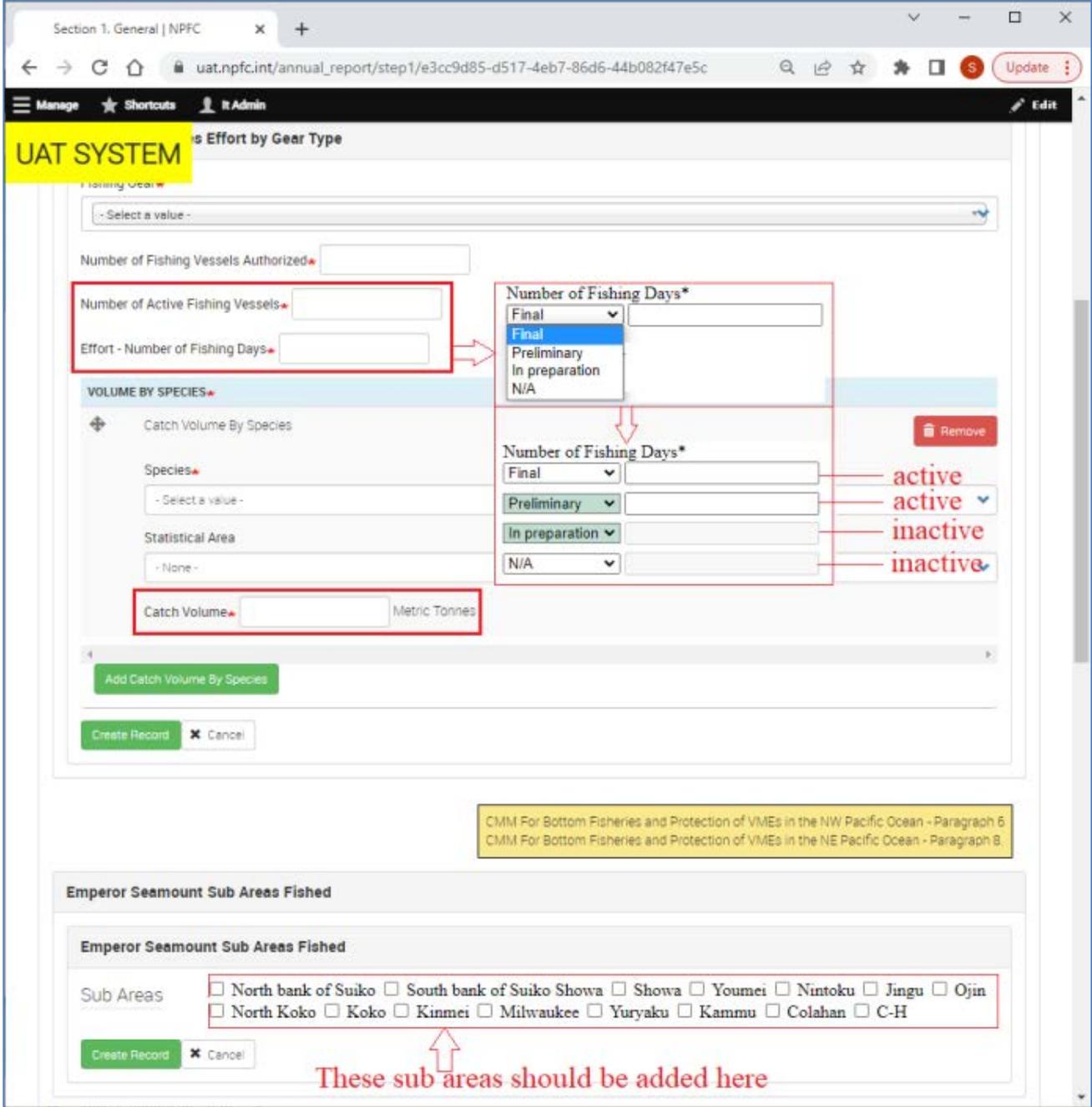
[Create Annual Report](#)

Reporting Year:

Reporting Year: 2022

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

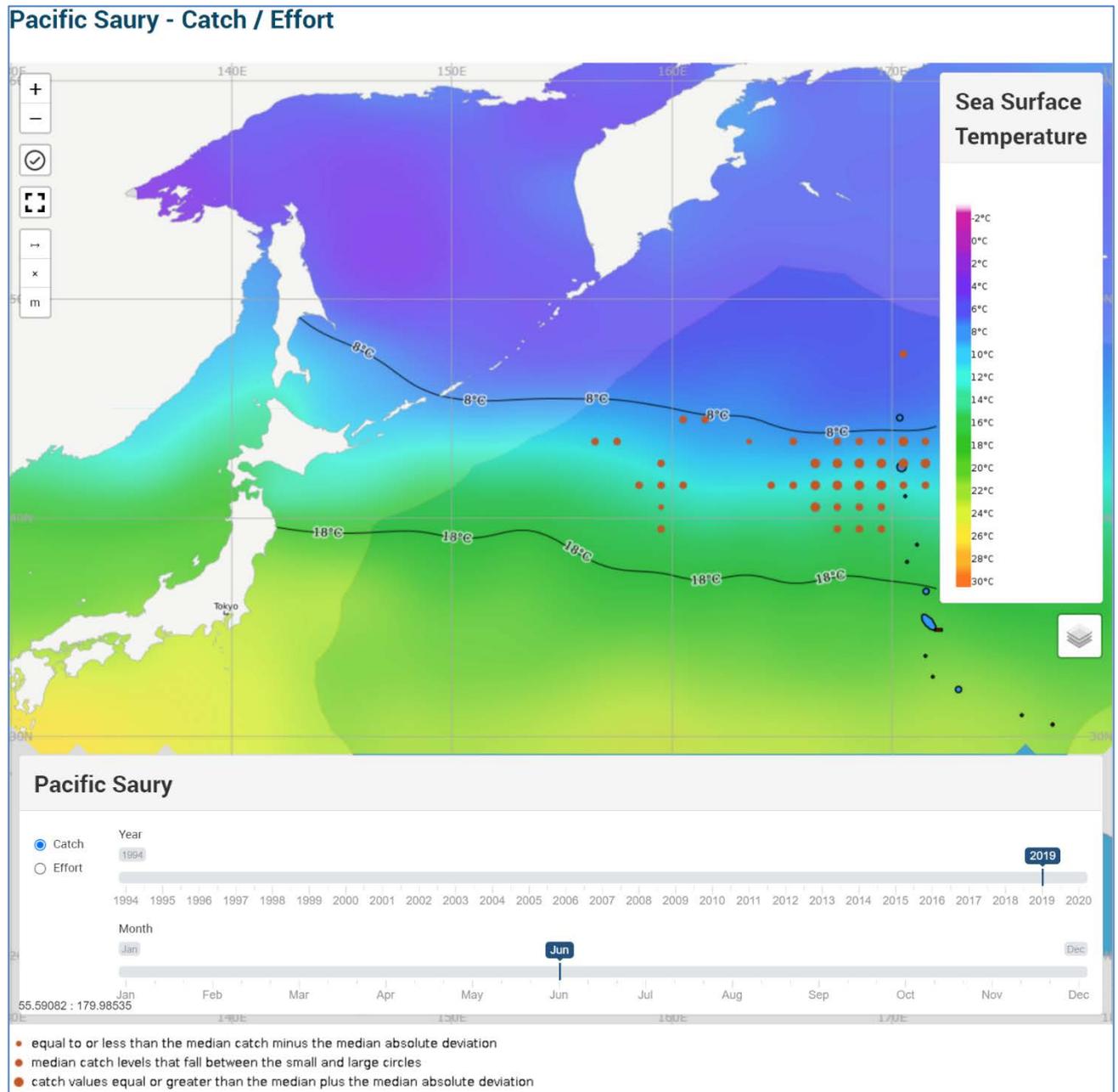
There have been some functional updates regarding the status of “Catch Volume, Number of Active Fishing Vessel and Effort-Number of Fishing Days”. There are four options (Final, Preliminary, In preparation, and N/A) and Members can choose one of them depending on their current status. Members can also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

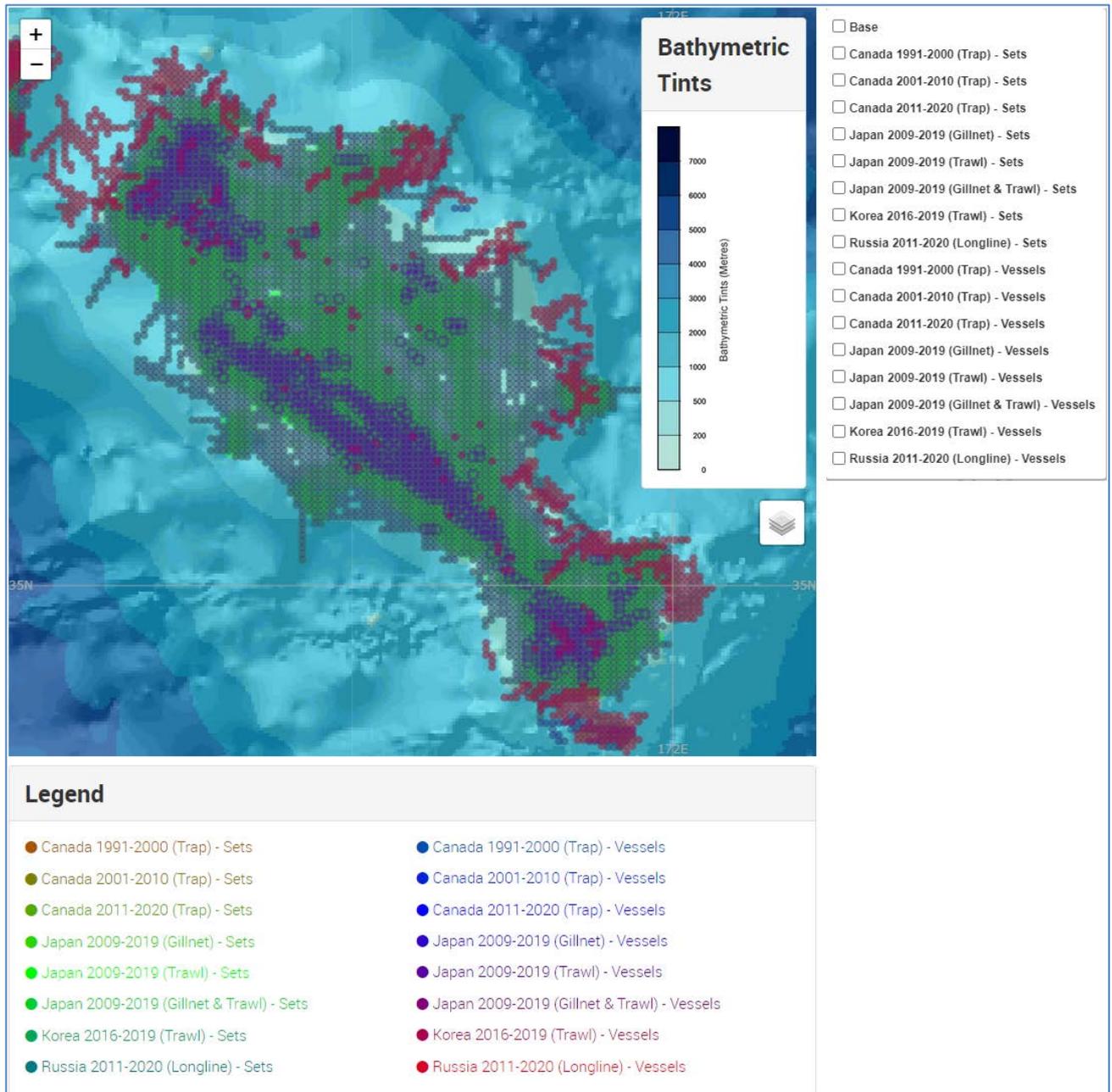
The Pacific Saury Map has recently been updated to include the Pacific Saury Catch and Effort data with sea surface temperature per grid from 1994 to 2022.



## 2.2 Bottom Fishing Map ([https://www.npfc.int/science/gis/bottom\\_fishing](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



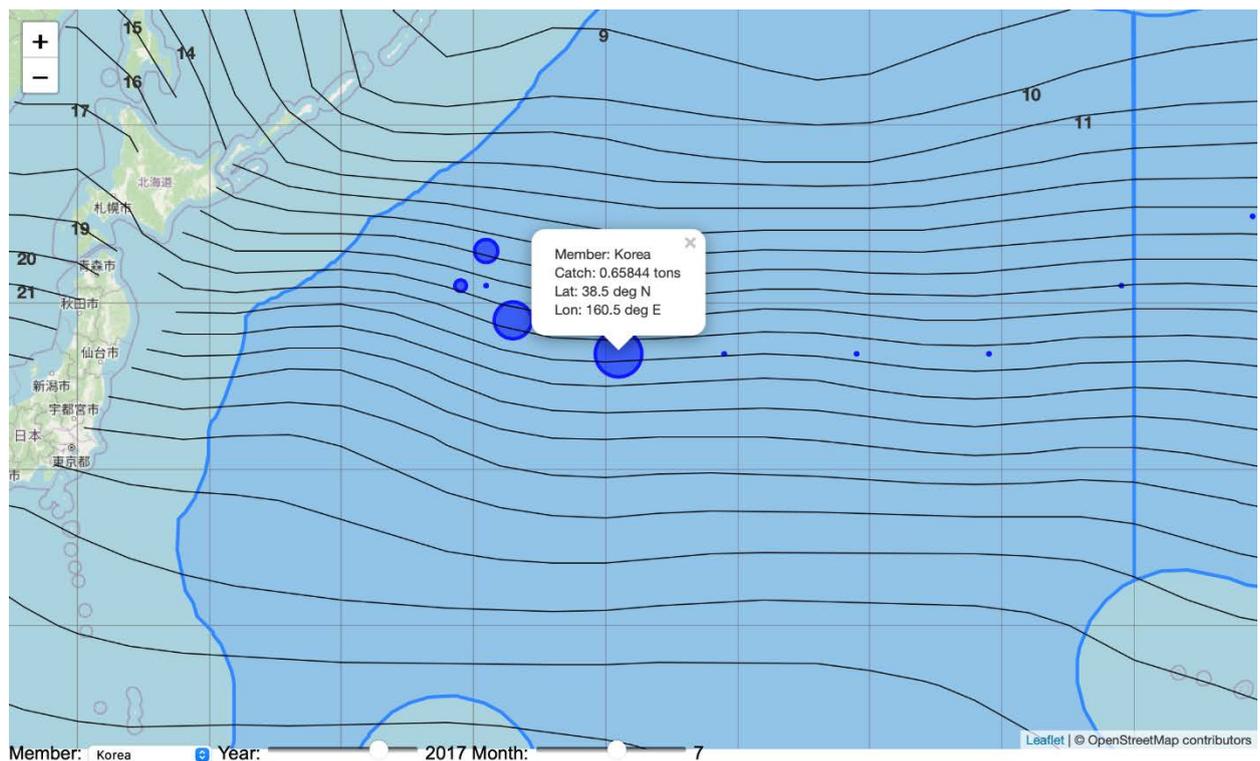
### 2.3 Prototype of NPFC Neon Flying Squid map

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.**



### GIS for Neon Flying Squid

- Catch Data
- Effort Data
- All members catch
- Plot SST
- Plot SST Anomaly (1950–2020 monthly climatological mean removed)