



North Pacific Fisheries Commission

NPFC-2025-TCC08-IP02

NPFC Data Management System Update: Progress, Operational Guidelines and Initiatives

Abstract

This document provides an update on the progress of and initiatives for further development of NPFC data management systems, including relevant operational guidance. It is intended for NPFC Members and highlights key developments since the 7th TCC Meeting.

1. NPFC Website Overview

The NPFC website integrates the primary data and information management systems, covering key areas such as the Members Home, Significant Dates/Events, Transshipment Reporting System, Annual Reports, Vessel Registry, HSBI Events, e-IUU, Pacific Saury/Chub Mackerel Catch Report, and Collaboration Site.

NPFC

Log Out **Members Home** My Account Search

About NPFC Key Documents Meetings Science Compliance Publications

The NPFC Scientific Committee (SC) and its subsidiary bodies met from 7 to 19 December 2023

The NPFC Scientific Committee (SC) and its subsidiary bodies met from 7 to 19 December 2023 in person for the first time since the COVID 19 pandemic with remote participation via video conferencing

NPFC

The North Pacific Fisheries Commission (NPFC)

View Edit Delete Revisions

The North Pacific Fisheries Commission (NPFC) is an inter-governmental organization established by the Convention on the Conservation and Management of High Seas Fisheries Resources in the North Pacific Ocean.

The objective of the Convention is to ensure the long-term conservation and sustainable use of the fisheries resources in the Convention Area while protecting the marine ecosystems of the North Pacific Ocean in which these resources occur.

Current Members include: Canada, China, the European Union, Japan, the Republic of Korea, the Russian Federation, Chinese Taipei, the United States of America and Vanuatu. For more details on the Commission please visit [About NPFC](#).

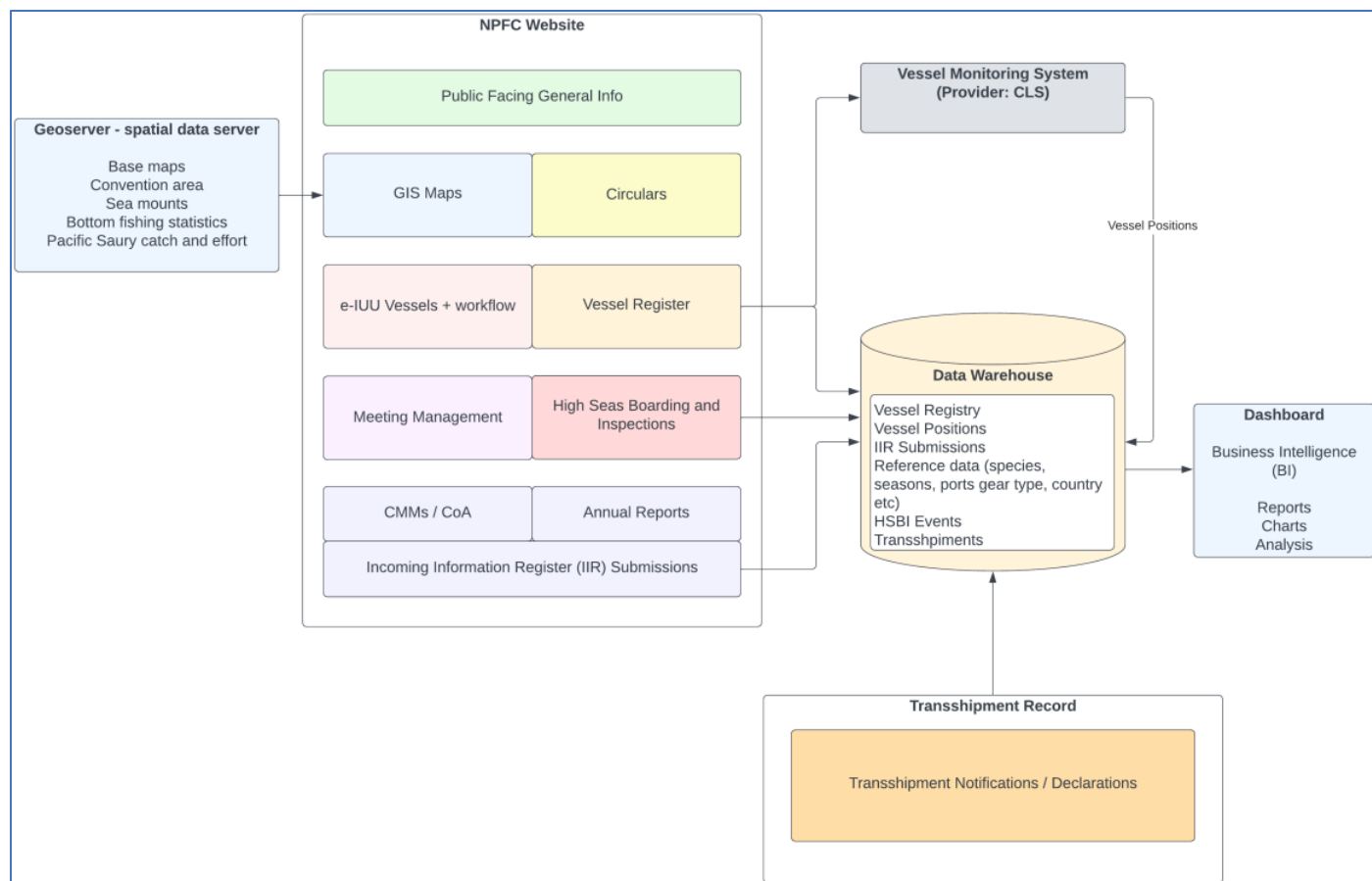
Quick links

- [Significant dates/Events](#)
- [Vessel Registry](#)
- [HSBI Events](#)
- [Transshipment](#)
- [e-IUU Vessel List](#)
- [Collaboration](#)
- [Pacific Saury Weekly Report](#)
- [Annual Reports](#)

NPFC Data Management Architecture Diagram

Most of the NPFC Data Management Systems (Transshipment Reporting System, Annual Reports, Vessel Registry, HSBI Events, e-IUU, and Pacific Saury/Chub Mackerel Catch Report) operate on the NPFC website. These systems are interconnected within a relational database, ensuring seamless data integration and consistency.

This relational database is also linked to the NPFC Data Warehouse, allowing the development of queries for report generation, data visualization, and in-depth data analysis, which supports more efficient decision-making and data-driven insights.



The Members Home section provides contact information for “**Designated Representatives and Official Contacts**” and “**Focal Points for NPFC Committees and Working Groups**”. Key features include:

- ## Focal point contacts for the NPFC

Commission	Scientific Committee (SC)	Technical Compliance Committee (TCC)
<ul style="list-style-type: none"> Scientific Committee (SC) Technical Compliance Committee (TCC) Finance and Administration Committee (FAC) SWG Management Strategy Evaluation for Pacific Saury (MSE PS) Annual Reports Group Administration 	<ul style="list-style-type: none"> SSC Bottom Fish and Marine Ecosystems (BF-ME) SSC Pacific Saury (PS) SSC Neon Flying Squid (NFS) TWG Chub Mackerel Stock Assessment (CMSA) Technical Working Group on New Stock Assessment Models (TWG NSAM) SWG Operating Model for CMSA SWG Vulnerable Marine Ecosystems (VME) SWG North Pacific Arrowhead and Splendid Alfonsino (NPA & SA) SWG Japanese Flying Squid (JFS) SWG Japanese Sardine (JS) SWG Blue Mackerel (BM) Small Working Group on Milestones (SWG MS) SWG Observer Program 	<ul style="list-style-type: none"> SWG Planning & Development (PD) SWG Operations (Ops) Vessel Registry FMC User (HSBI/IUU/Transshipment Manager) VMS

Canada	China	European Union	Japan	Korea	Russia
Canada Canada@npfc.int	China China@npfc.int	European Union EU@npfc.int	Japan Japan@npfc.int	Korea Korea@npfc.int	Russia Russia@npfc.int
Canada Canada@npfc.int	China China@npfc.int	European Union EU@npfc.int	Japan Japan@npfc.int	Korea Korea@npfc.int	Russia Russia@npfc.int
Chinese Taipei	USA	Vanuatu	Panama (CNCP)		Secretariat
Chinese Taipei ChineseTaipei@npfc.int	USA USA@npfc.int	Vanuatu Vanuatu@npfc.int	Panama Panama@npfc.int		Secretariat Secretariat@npfc.int
Chinese Taipei ChineseTaipei@npfc.int	USA USA@npfc.int	Vanuatu Vanuatu@npfc.int	Panama Panama@npfc.int		Secretariat Secretariat@npfc.int

The screenshot shows the 'Message' ribbon in Microsoft Word. The 'To' field is populated with a list of email addresses: NPFC_Secretariat@npfc.int. A red arrow points to the first email address in the list.

1.2. Significant Dates/Events (<https://www.npfc.int/significant-dates-calendar>)

The Secretariat maintains schedules for the Commission, committees, sub-committees, and working groups. While these schedules are publicly accessible, sensitive events can be restricted for Members only, as necessary.

Significant dates/Events						
March 2025						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
23	24	25	26	27	28	1
					10th TWG CMSA meeting	
2	3	4	5	6	7	8
10th TWG CMSA meeting						
9	10	11	12	13	14	15
16	17	18	19	20	21	22
		8th Technical and Compliance Committee Meeting				7th Finance and Administrative Committee Meeting
23	24	25	26	27	28	29
	9th Commission meeting					

Meeting Page Update with Headings

The NPFC meeting document management section now includes improved headings, particularly for Commission meetings. This features the following categories:


- Documents submitted directly to COM09
- Documents endorsed by SC09
- Documents endorsed by TCC08
- Documents forwarded to COM09 from TCC08

For instance, by selecting “All Documents” on a Commission meeting page, meeting documents are organized under these headings. Documents can also be searched by their posting dates.

This feature can be updated based on further suggestions from Members.


1.3. Transshipment

The NPFC Transshipment Reporting System allows FMC Users to create, modify, and cancel transshipment notifications and declarations. Existing FMC Users can directly access the Transshipment Web Application via the “Transshipment” button under “Quick links” on the NPFC website.




[Log Out](#) [Members Home](#) [My Account](#)

[About NPFC](#) [Key Documents](#) [Meetings](#) [Science](#) [Compliance](#) [Publications](#)



Eighth Commission Session Concluded Hybrid Meetings in Osaka, Japan

The 8th Meeting of the North Pacific Fisheries Commission (COM08) took place from 15 to 18 April 2024, in-person and by video conferencing.



The North Pacific Fisheries Commission (NPFC)


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Quick links


 Significant dates/Events


 Vessel Registry


 HSBI


 HSBI Events


 **Transshipment**

 IUU Vessel List

 Collaboration

 Pacific Saury Weekly Report


 Chub Mackerel Monthly / Weekly Catch Report

 Annual Reports

1.3.1 Transshipment Map

A new Transshipment feature allows Members to view transshipment event locations and statuses on the map (e.g., Planned for notifications, Completed for declarations, Other Transfer Activity). FMC Users can also view detailed information, such as event ID, vessel names by flag, date, and location, and download this data as a CSV file.

The Secretariat is working on further improvements to the map and Members feedback would be much appreciated.



[NPFC Home](#) > [NPFC Transshipment Record](#)

[My Account](#)

[Manage Announcements](#)

[Manage Industry Users](#)

[Transshipment Map](#)

[Log Out](#)

NPFC Transshipment Record

English (EN)

[Home](#) > [Transshipments Map](#)

Transshipments Map

Transshipment Date After

01/01/2024

Transshipment Date Before

12/31/2024

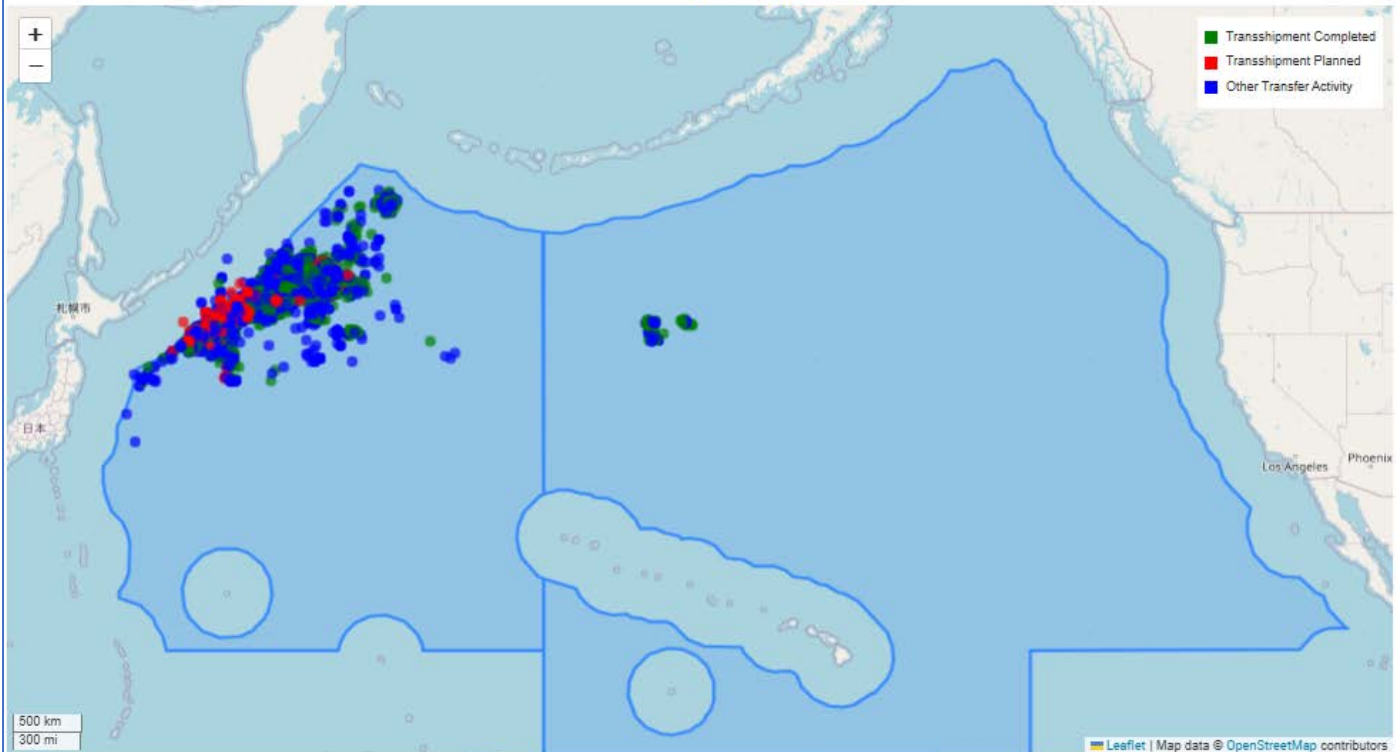
☐ Include Cancelled

Apply

Reset

+

-



500 km

300 mi

Leaflet | Map data © OpenStreetMap contributors

1

2

3

4

5

6

7

8

9

...

»

Last »

EVENT ID	EVENT DATE (UTC)	OFFLOADING VESSEL	RECEIVING VESSEL	LOCATION
a6acb63	10-Apr-2024 03:00 AM	Offloading Vessel 01 (China)	Receiving Vessel 01 (China)	High Seas, In Convention Area N 38° 47', E 146° 46'
49a6e09	20-Apr-2024 07:00 PM	Offloading Vessel 02 (Japan)	Receiving Vessel 02 (Japan)	High Seas, In Convention Area N 39° 25', E 147° 10'
834308a	21-Apr-2024 01:00 AM	Offloading Vessel 03 (Korea)	Receiving Vessel 03 (Korea)	High Seas, In Convention Area N 39° 25', E 147° 10'

[Download CSV](#)

6

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

NPFC Members can access all historical Annual Reports. Designated Members (Annual Report Managers) can electronically submit each calendar year’s report through the e-Annual Report section. Since 2021, the Secretariat has encouraged all Members to use the e-Annual Report.

Annual Reports of Members

[e-Annual Report](#)
[Annual Summary Footprint](#)
Annual Report by Year
[2023](#)
[2022](#)
[2021](#)
[2020](#)
[2019](#)
[2018](#)
[2017](#)
[2016](#)
[2015](#)

Create Annual Report	Reporting Year	2024	▼	Apply
MEMBER	REPORTING YEAR	LAST UPDATED	STATUS	
European Union	2024	15-Feb-2025	Published	
United States	2024	17-Feb-2025	Published	
Korea	2024	14-Feb-2025	Published	
Canada	2024	15-Feb-2025	Published	
Russia	2024	19-Feb-2025	Published	
China	2024	13-Feb-2025	Published	
Chinese Taipei	2024	14-Feb-2025	Published	
Vanuatu	2024	13-Feb-2025	Published	
Japan	2024	18-Feb-2025	Published	

1.4.1. Sharks and Anadromous Species

A new data entry section has been created within the annual report portal for Sharks and Anadromous Species pursuant to new CMMs that have come into force:

- CMM 2024-16 for Anadromous Fish (Effective date: 24 July 2024)
- CMM 2023-14 on Sharks (Effective date: 26 July 2023)

Members can select the species, add catch data, and create records. If Members cannot find the particular species under this section, please inform the Secretariat so it can be updated accordingly.

Sharks and Anadromous Species

Species★

- Select a value -

Sharks nei

SKATE NS

RAY NS

CHIMERA NS

Blue Shark

Total weight caught in the convention area (mt) Metric Tonnes

Create Record

✕ Cancel

1.4.2. Finalize Annual Report Submission

After entering all data (including section 3.9 Transshipment), click Save and then Apply to finalize your submission. Once finalized, the e-Annual Report becomes accessible to all Members.

Current state Draft

Change to

Draft

Once marked as 'Complete' the Secretariat will be notified that the submission has been completed.

Previous

✓ Save

Moderation state	Change to	Log message
Draft	Complete	A member submitted 2024 annual r

Apply

The Secretariat will continue to assist with Members' submission.

1.5. The Vessel Registry (<https://www.npfc.int/compliance/vessels>)

The Vessel Registry allows Vessel Managers to register new vessels using the “Add Vessel to Register” button. Vessel Managers can also add an authorization period and target species for each vessel. Once a vessel is authorized, only the Secretariat can update the Authorization Period and Target Species to prevent backdating or retroactive changes.

Member/CNCP Flagged Vessels Register

Approved Vessels

Pending Approval

Vessels Not Currently Authorized

Add Vessel to Register

Bulk Upload Authorization Period

Bulk Upload MMSI

If a vessel is not found on the Approved Vessels list please refer to the Previously Authorized Vessels list to access the history of authorized periods of operations for a vessel not currently authorized to conduct fishing activities.

Authorized by Member/CNCP

Vessel Flag

Canada

China

Japan

Panama

Russia

South Korea

Chinese Taipei

Vanuatu

Canada

China

Japan

Panama

Russia

South Korea

Chinese Taipei

Vanuatu

To update vessel information, users can click either “Edit” or “New version”. In most cases, it is recommended to use “New Version” for updates such as vessel name, IRCS, MMSI, or other details, as it preserves the historical record. The “Edit” function should be used only to correct errors mistakenly submitted.

Test Vessel 01

View

Edit

New Version

Delete Vessel from the Register

Add Authorization

Vessel Flag:

Authorized By Member/CNCP:

IRCS:

Registration Number:

Vessel Type

Previous Names

South Korea

South Korea

TEST01


000000000

TRAWLERS (TO)

Test Vessel 02

NPFC Vessel ID: 1887

Member/CNCP Flagged Vessel



Vessel History

VESEL NAME	CALLSIGN	FLAG	VERSION DATE	VESSEL STATUS
Test01	IRCS01	Korea	16-Feb-2025	Member/CNCP Flagged Vessel
Test01	IRCS01	Korea	18-Jul-2024	Member/CNCP Flagged Vessel

The Secretariat has observed that Members are actively using the New Version function. However, there are still instances where the Edit function is used to update information. The Secretariat highly recommends using New Version when updating a vessel’s information, as this allows for accurate tracking of historical changes.

The [NPFC Vessel Registry](#) has been updated with new features to enhance user friendly experience.

- A more intuitive vessel name search with autocomplete functionality.
- New search function by the NPFC Vessel ID.

Member/CNCP Flagged Vessels Register

Approved Vessels

Pending Approval

Vessels Not Currently Authorized

Deleted Vessels

Add Vessel to Register

Bulk Upload Authorization Period

Bulk Upload MMSI

If a vessel is not found on the Approved Vessels list please refer to the Previously Authorized Vessels list to access the history of authorized periods of operations for a vessel not currently authorized to conduct fishing activities.

Authorized by Member/CNCP

Canada
China
Japan
Panama
Russia
South Korea
Chinese Taipei
Vanuatu

Vessel Flag

Canada
China
Japan
Panama
Russia
South Korea
Chinese Taipei
Vanuatu

Vessel Type

TRAWLERS (TO)
-Otter trawlers (OT)
-Pair trawlers (PT)
-Stern trawlers wet-fish (TTW)

Vessel Name

tong

NO.301 TONG YOUNG
NO.803 TONG YOUNG
No.805 TONG YONG
No.808 TONG YOUNG

MMSI

IRCS

NPFC Vessel ID

Sort by Authorizing Member

Order Asc

Apply

Searching by name can still be challenging due to the space in vessel names (e.g., “No.301 TONG YOUNG” vs. “No.301TONGYONG”), so searching by IMO number or NPFC ID is often more reliable. The Secretariat plans to improve the name-based search function and welcomes Member feedback.

1.6. The HSBI Events (<https://www.npfc.int/hsbi-events>)

In this section, HSBI managers can upload boarding reports according to the NPFC High Seas Boarding & Inspection procedure. (<https://www.npfc.int/npfc-high-seas-boarding-inspection>).

The authorized HSBI managers can click "Add HSBI Event" button to submit a new event report. Inspection and flag parties can communicate through the "Response" section by clicking the "Response" button.

[Add HSBI Event](#)
Create HSBI Event

Vessel name Apply

INSPECTED VESSEL NAME	AUTHORIZING MEMBER	START DATE/TIME	INSPECTION OUTCOME
Vessel No. 01 (China) <a>No Responses	HSBI Event: Japan	04-Oct-2023 11:16 PM	Violations Noted
Vessel No. 02 (Vanuatu) <a>No Responses	HSBI Event: Japan	01-Oct-2023 12:25 AM	No Violations
Vessel No. 03 (Chinese Taipei) <a>No Responses	HSBI Event: Japan	16-Sep-2023 12:12 AM	No Violations
Vessel No. 04 (Panama) <a>No Responses	HSBI Event: Japan	14-Sep-2023 12:43 AM	Violations Noted
Vessel No. 05 (South Korea) <a>No Responses	HSBI Event: Japan	13-Sep-2023 02:11 AM	Violations Noted
Vessel No. 06 (China) <a>No Responses	HSBI Event: Japan	11-Sep-2023 03:12 AM	No Violations
Vessel No. 07 (Panama) <a>No Responses	HSBI Event: Japan	10-Sep-2023 03:36 AM	No Violations
Vessel No. 08 (China) <a>No Responses	HSBI Event: Japan	09-Sep-2023 03:20 AM	Violations Noted
Vessel No. 09 (China) <a>2 Responses	HSBI Event: Canada	11-Aug-2023 07:00 AM	Violations Noted
Vessel No. 10 (Panama) <a>No Responses	HSBI Event: Canada	10-Aug-2023 02:15 PM	Violations Noted
Vessel No. 11 (China) <a>1 Response	HSBI Event: Canada	09-Aug-2023 07:35 PM	No Violations

Authorizing Member / CNCP*

Member ▼

Member/CNCP that submits report on this HSBI

HSBI Status*

- Select a value - ▼

An HSBI Event marked as "Occurred" will be visible to all members.

Start Date/Time*

mm/dd/yyyy 📅 --:--:-- ⌚

Start date (and time) of inspection. Enter time in UTC.

Inspection vessel

Inspection Vessel *

- Select a value - ▼

Boarding Officer(s)

Name(s) of boarding officer(s) / authorized inspectors.

Latitude

Responses

[Update: A Member uploaded HSBI...](#)
 By: IT Admin (Member) on 23-Nov-2023 03:33 AM
 Update: A Member uploaded HSBI Report and Post-boarding letter on November 22, 2023.
[Reply](#)

[Update: A Member uploaded Post...](#)
 By: IT Admin (Member) on 23-Nov-2023 03:40 AM
 Update: CAN uploaded Post-boarding letter and HSBI Report on Nov 22, 2023. These files were sent to FV Authorities after inspection was completed.
Attachments
 Post-Boarding Notification Letter - Vessel No. 01.pdf
 Boarding and Potential Violation Report- Vessel No. 02.pdf
[Reply](#)

Add new response

Subject

Please enter the name of party or person (Chair, Secretariat) submitting the suggestion

Response*

B *I* U Paragraph 📷 🔗 ☰ ☰ ☰ 🗨️ Source 📅

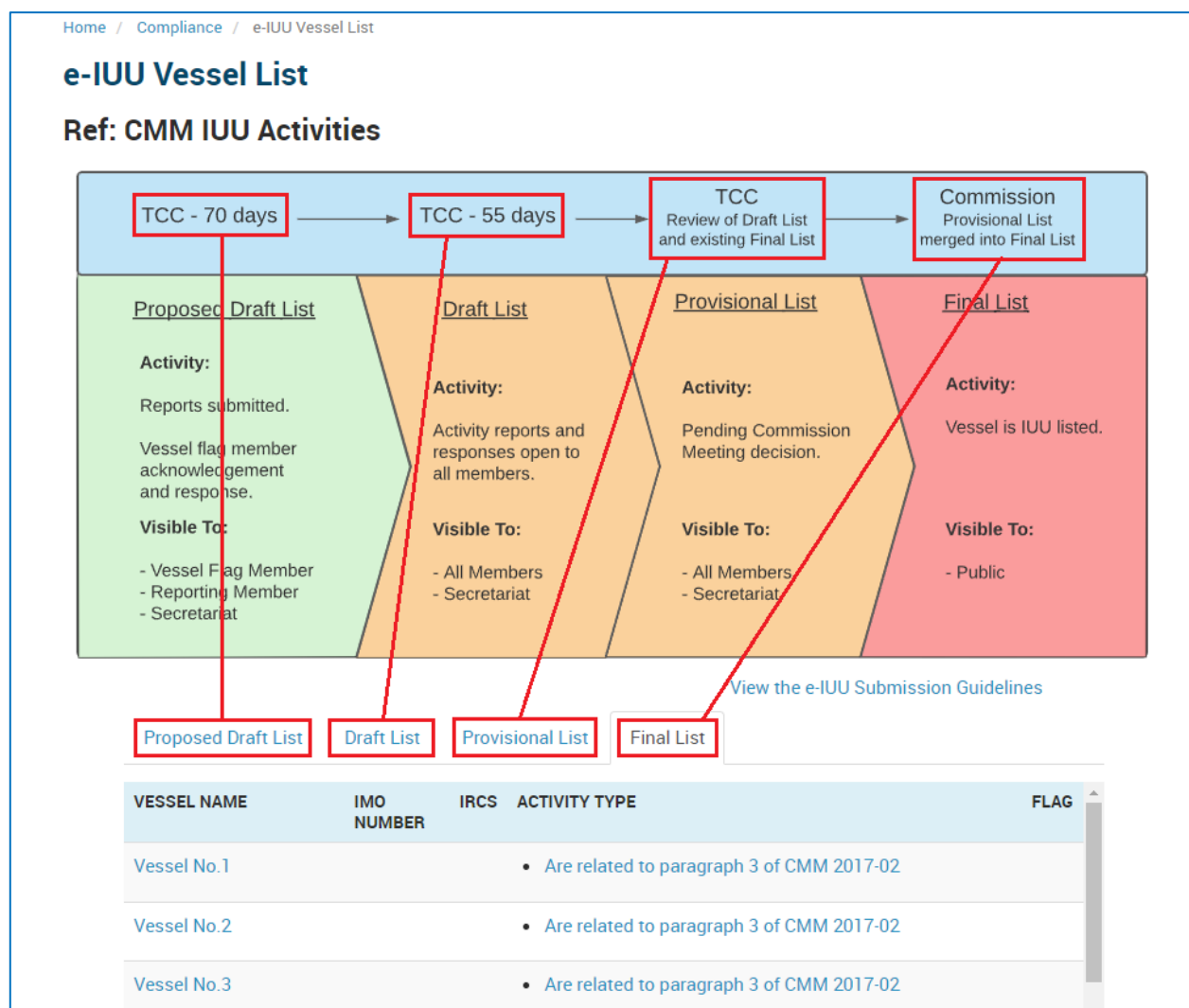
Restricted HTML. ▼
About text formats

1.7. The e-IUU (<https://www.npfc.int/compliance/iuu-vessel-list>)

Designated IUU managers can create IUU vessel records and attach activity reports. The process follows these steps:

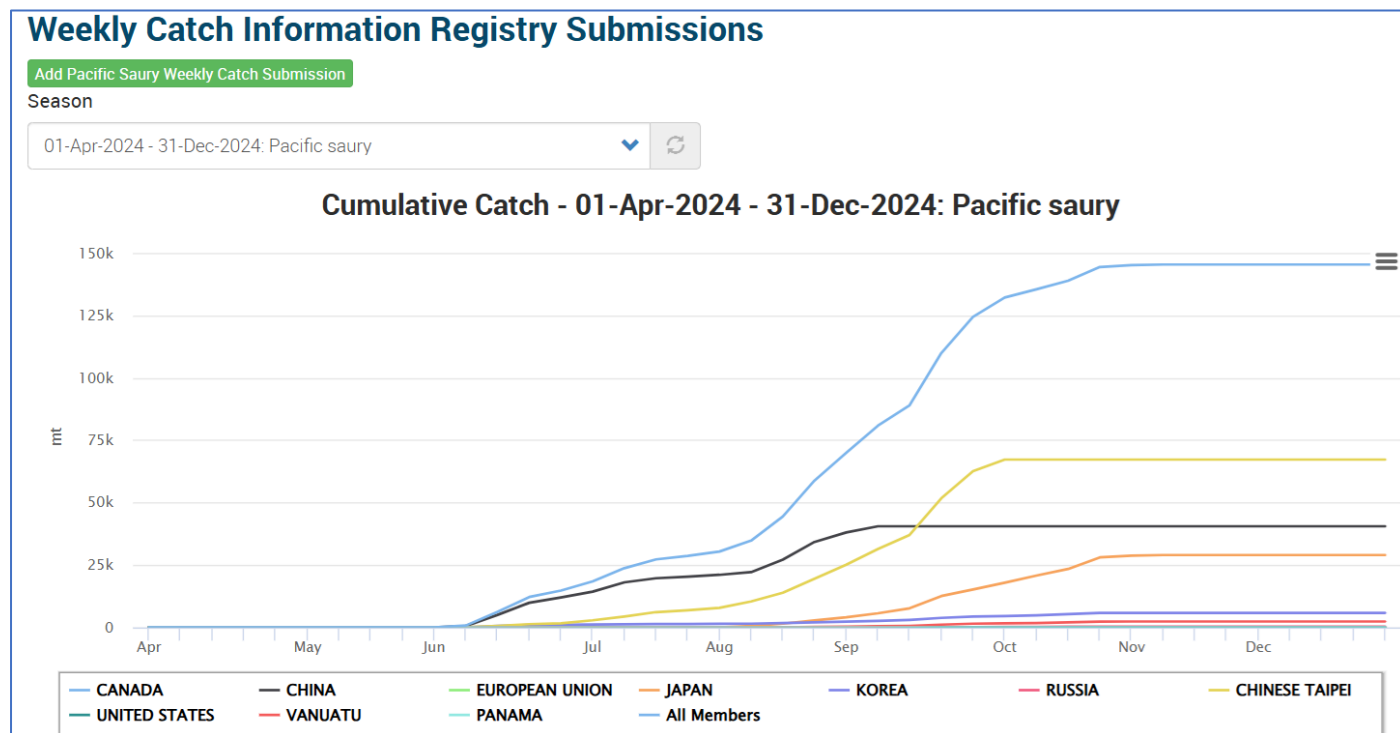
1. **Proposed Draft List:** Initial Draft IUU vessel records shall be submitted 70 days before TCC. Only the member who listed the vessel, the member with the alleged IUU vessel, and the Secretariat can view the proposed drafts. The IUU managers can create IUU vessel records from this link (<https://www.npfc.int/compliance/iuu-vessel-list/proposed-draft>)
2. **Draft List:** 55 days prior to TCC, the Proposed Draft list will move on to the Draft list, and the Draft IUU List is visible to all Members and CNCP.
3. **Provisional List:** The Draft IUU Vessel List as amended by Members at TCC and changes to the Current IUU Vessel List will be combined into the Provisional IUU Vessel List for endorsement to the Commission meeting for adoption.
4. **Final List:** The Final List is the authoritative list of NPFC IUU Vessel List adopted by the Commission for that year and is visible to the public.

For further details, you may refer to the e-IUU Submission Guidelines provided in the link (<https://www.npfc.int/e-iuu-submission-guidelines>).



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

This section allows Members to view both individual and cumulative Pacific Saury weekly catch data. Aggregate catch data is also publicly accessible under the public domain area on the NPFC website (<https://www.npfc.int/pacific-saury-cumulative-catch>).



Designated Catch Data Report Managers are required to submit weekly catch data in metric tons through the data submission page (https://www.npfc.int/irs/add/psw_weekly_catch).

Add Pacific Saury Weekly Catch

Member / CNCP:

Reporting Year* 2024

Season*

01-Apr-2024 - 31-Dec-2024: Pacific saury

Week*

- Select -

Catch (mt) 0.000

Notes

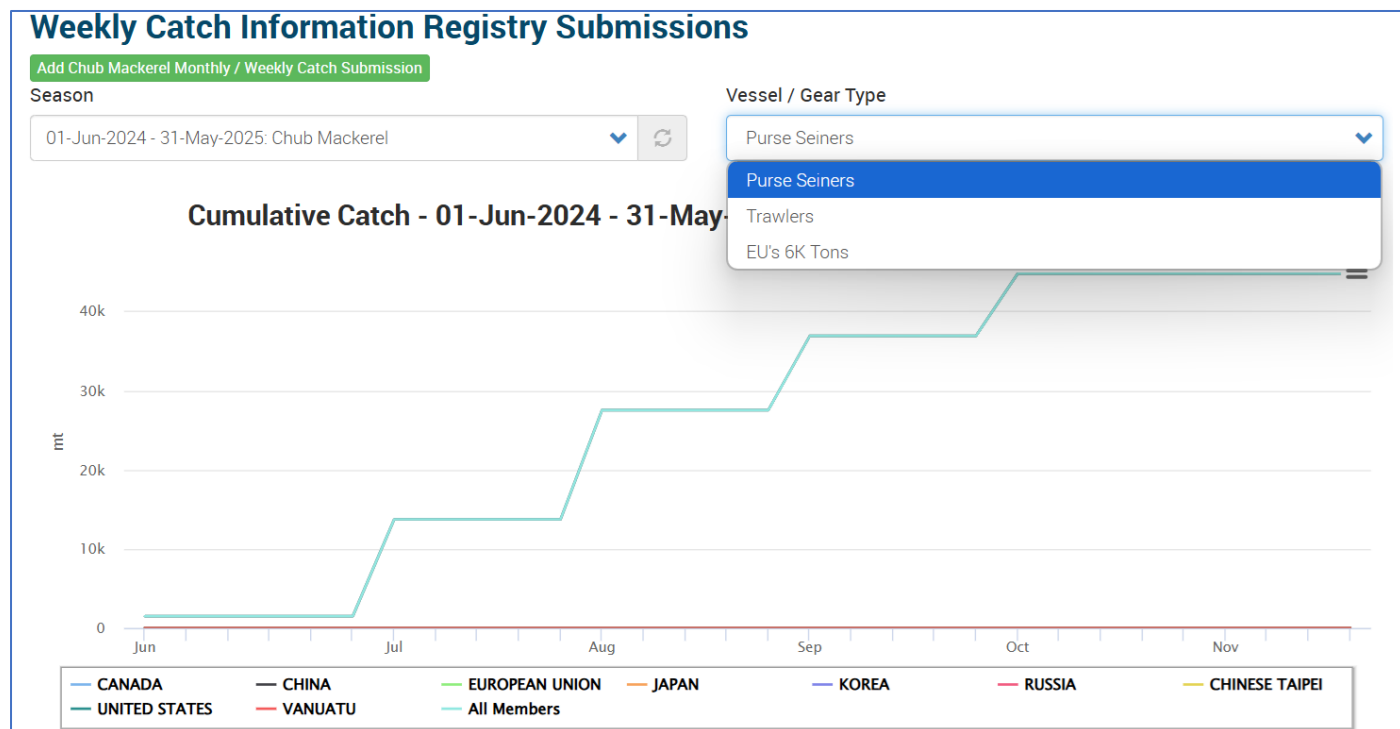
e.g. Discard (in kgs.), etc.

☒ Save

1.9. Chub Mackerel Monthly/Weekly Report (<https://www.npfc.int/submissions/weekly-catch/MAS>)

This section has been recently developed as the new CMM 2024-07 Chub Mackerel entered into force.

Members can access individual and aggregate Chub Mackerel catch data by different gear types (**Purse Seiners/Trawlers**). Cumulative catch data is also available on the public domain of the NPFC website (<https://www.npfc.int/pacific-saury-cumulative-catch>).



The system transitions from monthly to weekly reporting once the catch data reaches 60% of the Total Allowable Catch (TAC).

Add Chub Mackerel Monthly / Weekly Catch

Member / CNCP:

Reporting Year★ 2024

Season★ 01-Jun-2024 - 31-May-2025: Chub Mackerel

Catch by Trawlers

Month: Month 1 - 2024/06/01 - 2024/06/30

Catch (mt)

Catch By Purse Seiners

Month: Month 1 - 2024/06/01 - 2024/06/30

Catch (mt)

1.10. Collaboration (<https://collaboration.npfc.int>)

The NPFC Collaboration Site facilitates productive communication among Members. NPFC Members can join specific discussion groups such as TCC SWG on Operations, TCC SWG on Planning and Development. Once joined, Members receive email notifications for new content postings. To opt out of emails, please click on the “Unfollow content” button.

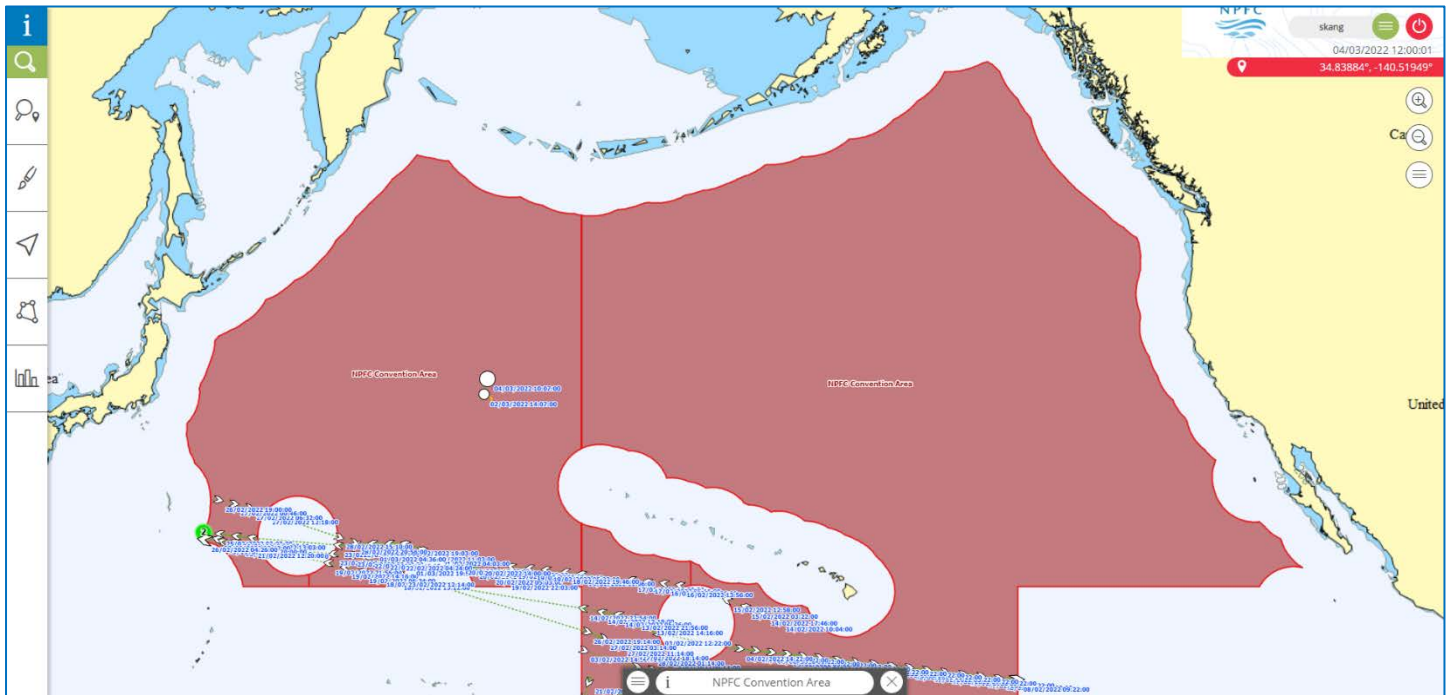
The screenshot displays the NPFC Collaboration web interface. At the top, the browser address bar shows the URL `collaboration.npfc.int/node/168`. The site's header includes the NPFC logo, the title "NPFC Collaboration", and navigation links for "Groups", "People", "Search", "NPFC Homepage", and "Log out". A user profile for "Sungkuk Kang" is visible in the top right corner.

The main content area features a grey header for the group "FAC SWG 20240313". Below this, a discussion post by "Sungkuk Kang" dated "7 March 2024" is shown. The post text is "Discussion in group FAC SWG". A red rectangular box highlights the "Unfollow content" button, which is located to the left of the interaction buttons. The interaction buttons include "0 comments", "0 likes", and a "group" lock icon. Below the post, the text "FAC SWG 20240313" is displayed with a share icon.

At the bottom of the post, the text "Be the first one to comment" is visible. Below this, a comment input area is shown, featuring a rich text editor with formatting options (Bold, Italic, Underline, Link, Unlink, Bulleted List, Numbered List, Quote) and a "Format" dropdown menu. A "Source" icon is also present.

2. NPFC VMS (<https://vms.npfc.int/>)

The Vessel Monitoring System (VMS) continuously monitors the positions and movements of all NPFC fishing vessels operating in the Convention Area, in accordance with the relevant CMM. The Secretariat will continue to support Members in gaining access for HSBI activities and in addressing any technical needs.



3. Further Plans and initiatives for 2025

The Secretariat is committed to advancing the NPFC Data Management System in 2025, focusing on:

3.1 Member Portal

- The Secretariat plans to develop a Member Portal, incorporating a dashboard that will allow Members to easily locate required submissions, track deadlines, and monitor the status of their submissions. This initiative aims to streamline the submission process, enhance user accessibility, and improve overall efficiency.

3.2 Integration of Air Surveillance Data

- The Secretariat plans to develop a mechanism for integrating aerial surveillance data into the NPFC's existing data management system. This enhancement will strengthen data collection, improve analytical capabilities, and support more effective decision-making.

3.3 Transshipment API

- The Secretariat has developed a Transshipment API to streamline data entry and is currently working with Members to facilitate Member-side system development.

3.4 Member Account Management

- Currently, the NPFC focal point contact list is updated manually. The goal of this project is to introduce a more flexible and user-friendly interface, allowing each Member's group administrator to directly add, update, and manage their group members. This initiative aims to improve overall efficiency and accessibility and is expected to be completed this calendar year.

3.5 Website Updates

- The Secretariat will continue to update the NPFC website regularly to enhance public awareness and ensure the NPFC data management systems align with Member requirements.