



# Neon Flying Squid

2023 NPFC SC



# **Two Online Joint Meetings of the Small Working Groups**

**June 19, 2023**

**August 8, 2023**

**Attended by Members from Canada, China, Japan, Korea, Russia, Chinese Taipei,  
and Vanuatu as well as the Secretariat**



## **2. Stock assessment model candidates and data requirement**

Participants summarized data requirements for the proposed models as follow:

Surplus production model, Depletion model, modified SAM (a.k.a SAMUIKA) – Abundance index, Catch;

SS3, CASAL2 - Abundance index, Catch, Age/size composition

### **3. Fisheries and fishery-dependent catch per unit effort (CPUE) by members**

Russia reported that the catch of NFS has been very small or zero in recent years.

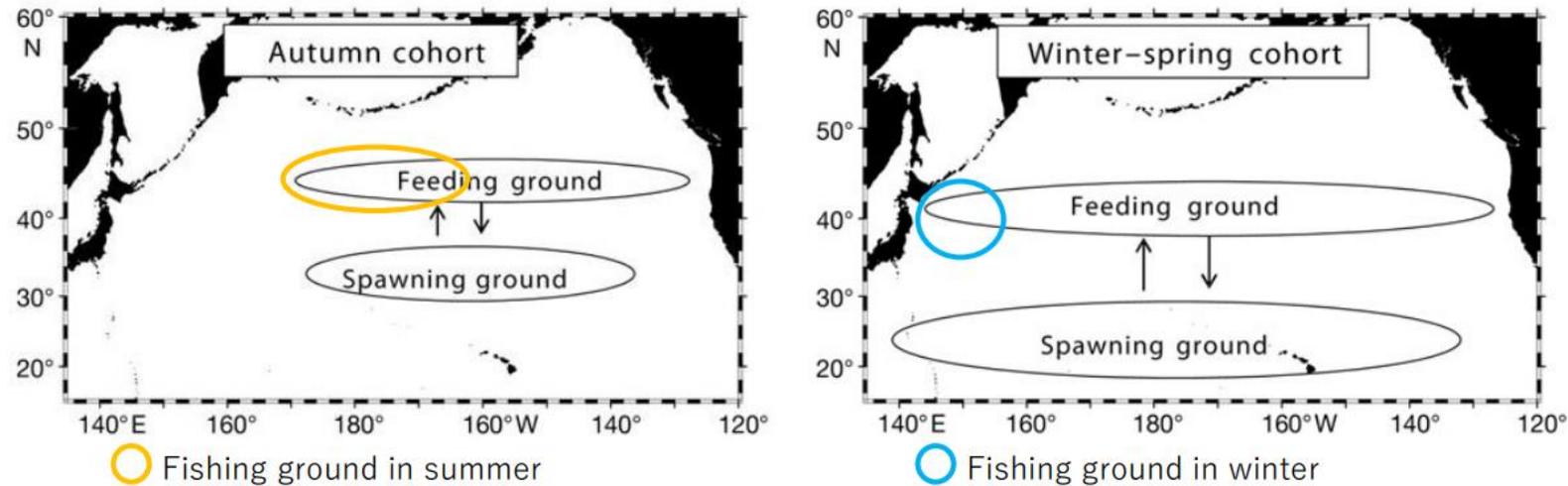
Vanuatu provided brief information about its NFS fishery. It pointed out the occasional nature of this fishery, with the target species switching between Pacific saury and NFS.

Korea provided information about its NFS fishery.

### 3. Fishery-dependent catch per unit effort (CPUE) by members

Japan presented the results of CPUE standardization for winter-spring cohort

#### Population structure of NFS



Spawning season {

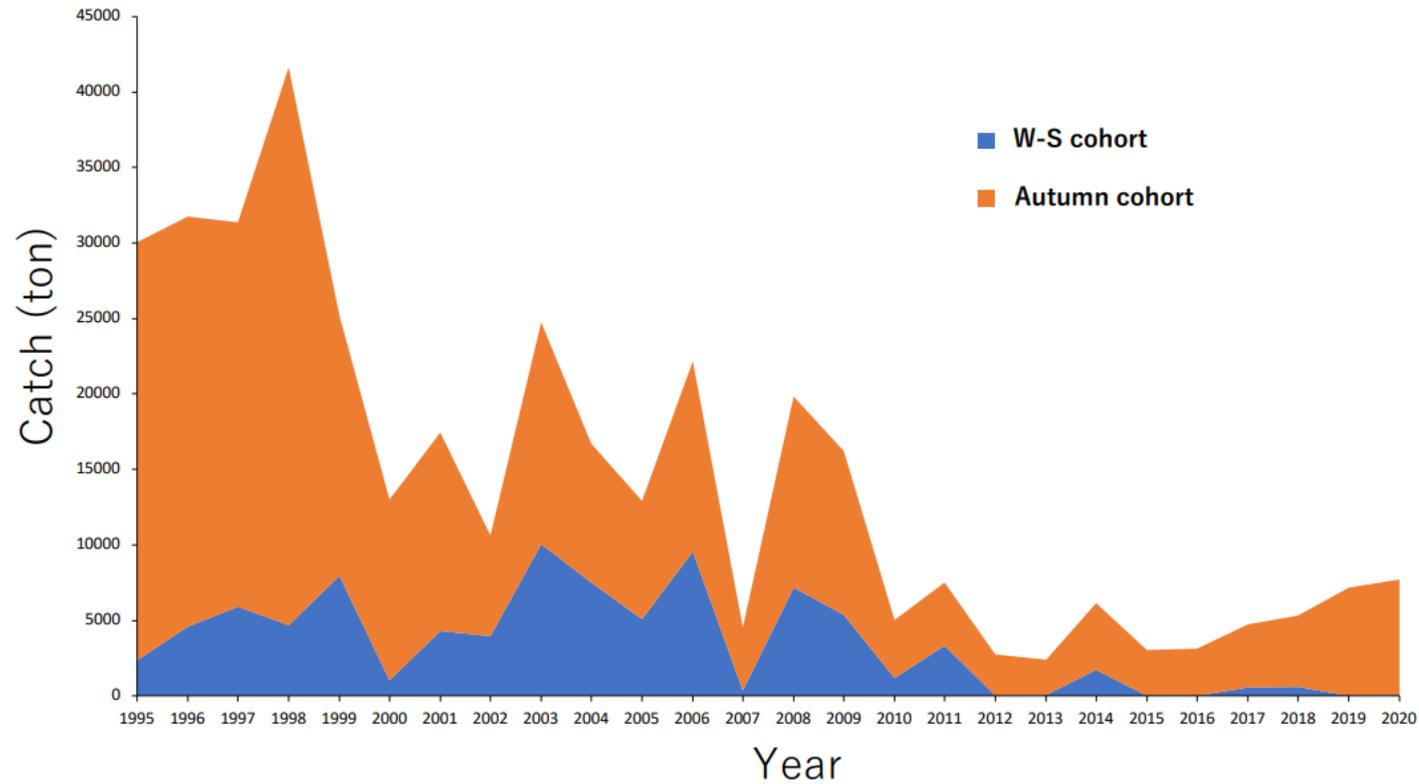
- Autumn cohort: September – February
- Winter-spring cohort: January – August (mainly January - May)

(Yatsu et al. 1998, Ichii et al. 2009)

### 3. Fishery-dependent catch per unit effort (CPUE) by members

Japan presented the results of CPUE standardization for winter-spring cohort

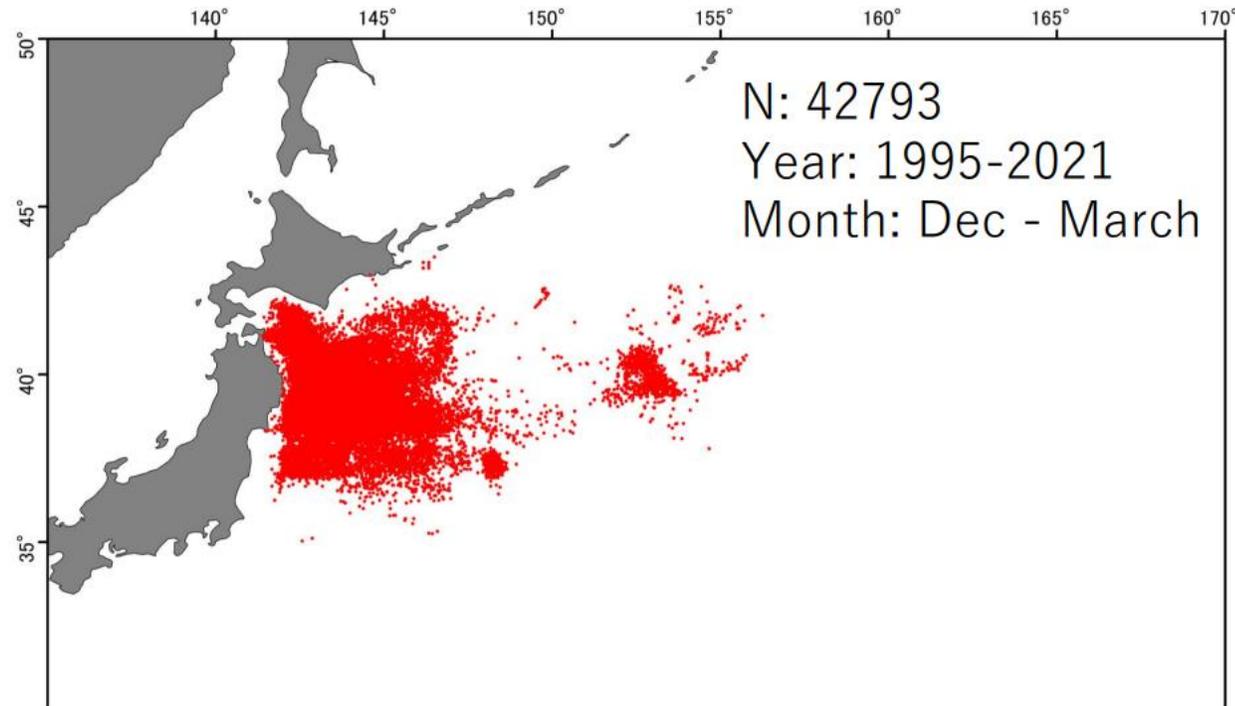
Yearly catches of NFS by Japanese jigging fishery



### 3. Fishery-dependent catch per unit effort (CPUE) by members

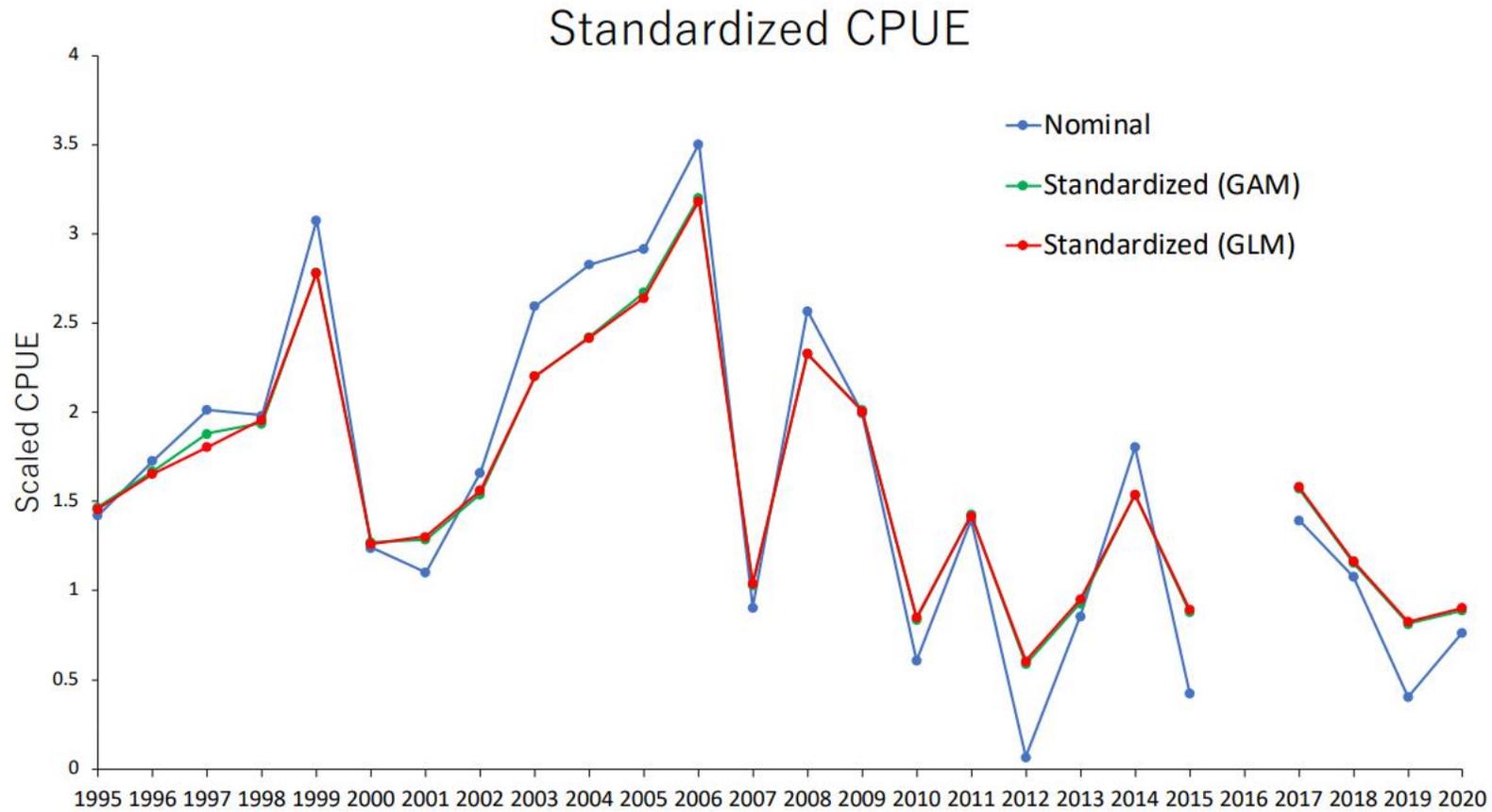
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Daily fishing positions of Japanese jigging targeting W-S cohort of NFS



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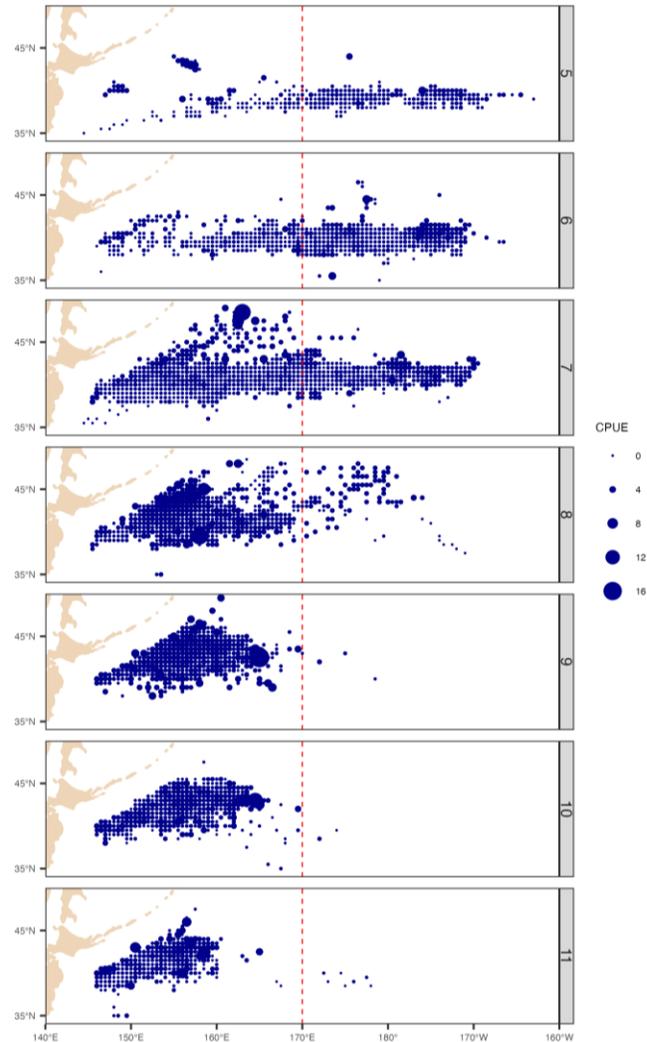


### 3. Fishery-dependent catch per unit effort (CPUE) by members

China gave a presentation on CPUE of NFS from Chinese squid jigging fisheries from 1995-2022

Winter-spring cohort  
(East cohort)

May – November

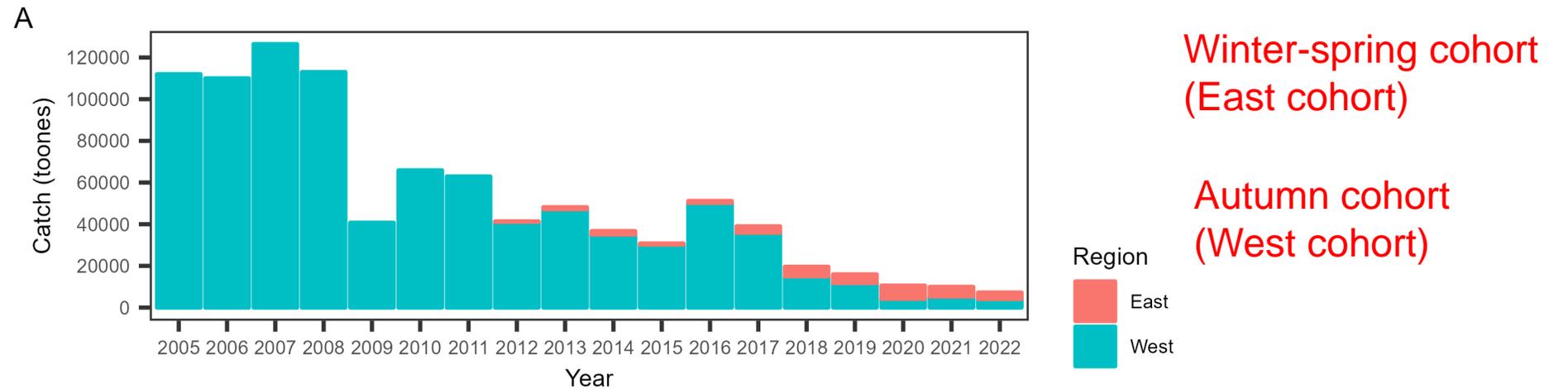


Autumn cohort  
(West cohort)

May – August

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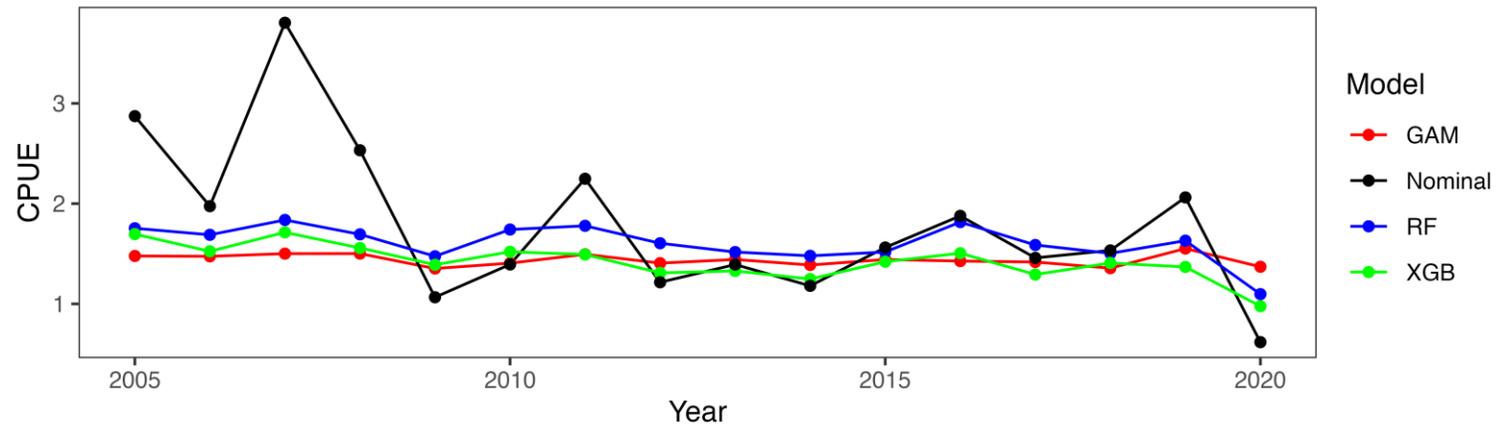
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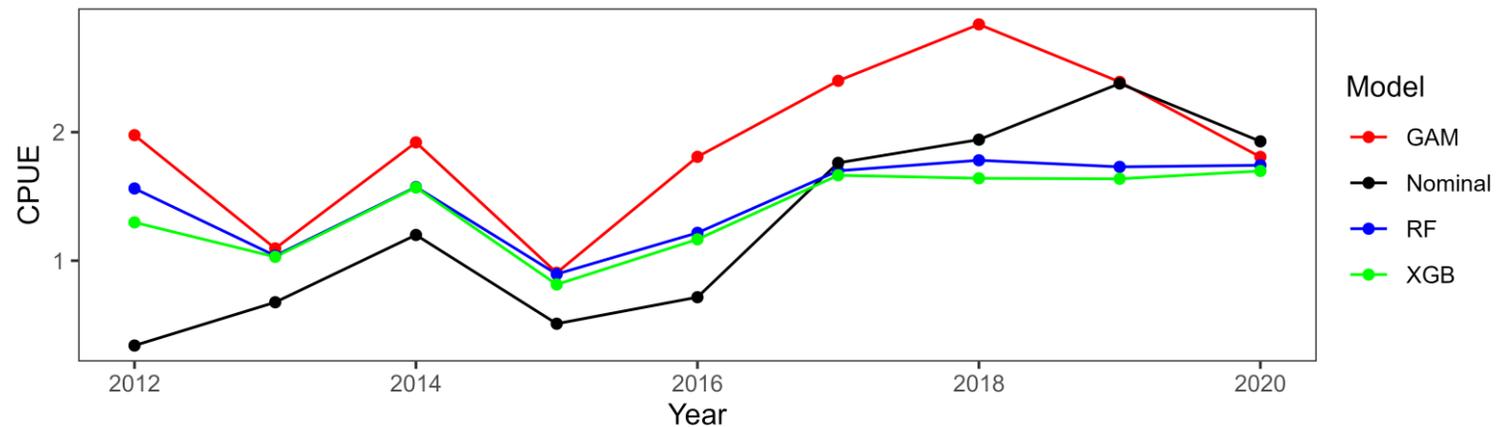
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winter-sprint cohort

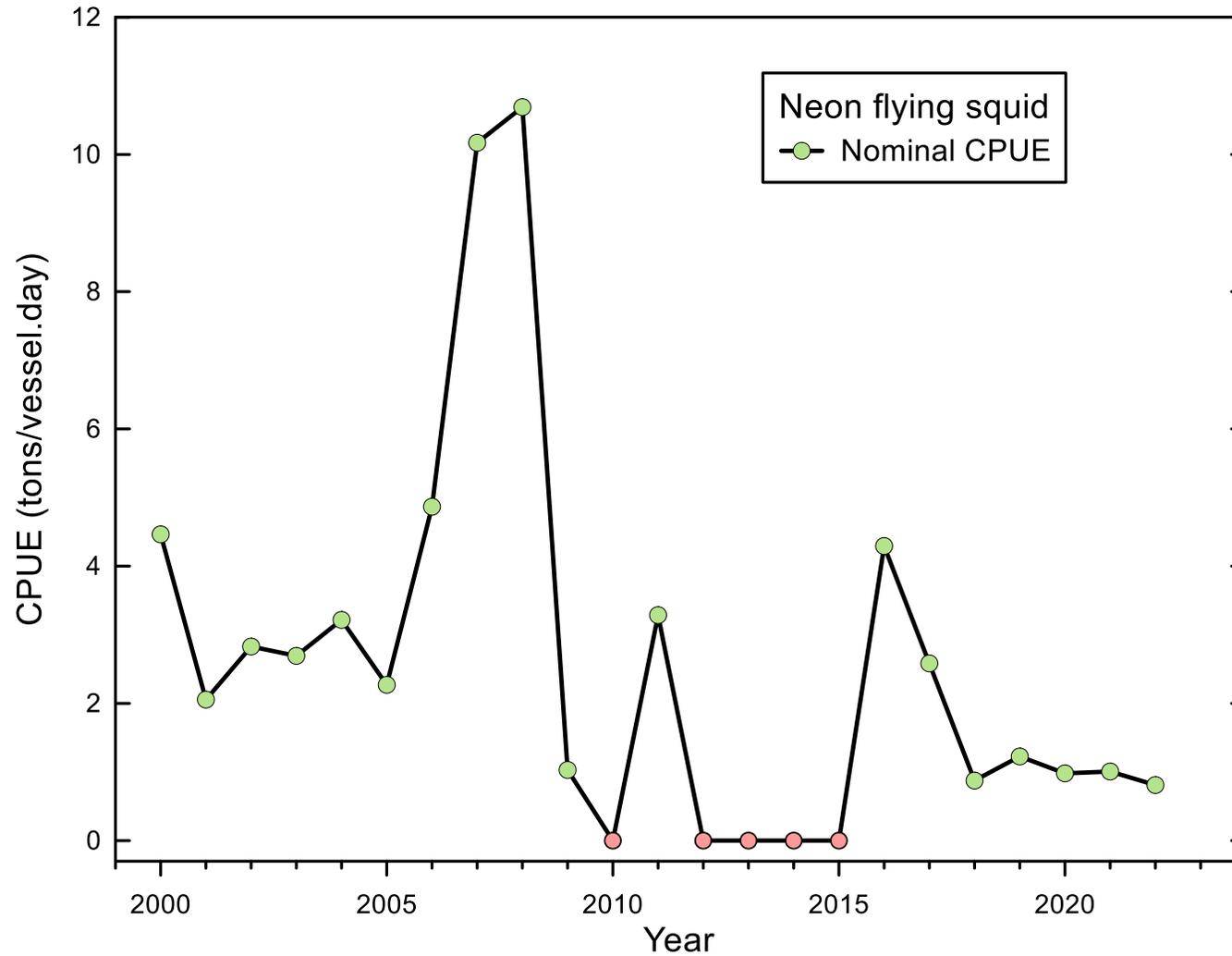


Autumn cohort



### 3. Fishery-dependent catch per unit effort (CPUE) by members

Chinese Taipei presented nominal CPUE from its NFS fishery



#### **4. Fishery-independent survey by Japan**

Japan presented a summary of NFS data available, including fishery-independent (driftnet survey) data.

## **5. Future roles and activities of SWGs NFS**

The outcomes of the discussions at SC07 on the prioritization of the stock assessment for NFS, JFS, JS, and BM: SC07 decided that the priority should be given to **NFS**

Members discussed the establishment of a new standing SC subsidiary body (e.g. **SSC NFS**) to focus on NFS but did not reach to an agreement