

The SPRFMO 2015 Data workshop

Port Vila, Vanuatu
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DataW-03

Jack mackerel datasets held by the Secretariat *Secretariat*

Summary

Paper DataW-03 identifies and describes CJM data sets held by the SPRFMO Secretariat including whether or not the data sets are currently used in the stock assessment.

Annual Catch data

Historic catch data for the years prior to 2007 were initially provided to the (Interim) SPRFMO Secretariat under the 2007 interim data standards. As a result, the SPRFMO Secretariat holds catch data for all major fish species (including CJM) caught in the SPRFMO Area, in many cases reaching back to the 1970's. The data standards were later revised and the term "annual catch total" was introduced in the 2012 interim data standards. This term persists in the current Conservation and Management Measure 3.02 (data standards).

Members and CNCs are to ensure that prior to 30th September each year, collated annual catch totals (raised to 'live' weight for all species/ species groups caught during the previous calendar year) are provided to the Secretariat (CMM 3.02, Para 1(a)). This information is stored in the SPRFMO database and a summary is available on the main SPRFMO website:

<http://www.sprfmo.int/data/catch-information/>

Annual catch data is composed of Calendar year, High Seas/EEZ, FAO Area, Species and live weight in kilograms. There are generally no confidentiality concerns and this data set is used as a basis for creating the historical catch series which is currently used in the SPRFMO CJM stock assessment.

Monthly catch data

CMM 3.01 (*Trachurus murphyi*) requires Members and CNCs to report monthly catches to the Secretariat within 20 days. This requirement dates back to the 2009 Interim measures and as a result the Secretariat has a data series beginning 2010. Since 2013 this data series has also included the number of vessels operating in the fishery in the SPRFMO Area.

Monthly catch data is composed of month, area (either SPRFMO or ANJ), species, weight and vessel name(s). There may be some confidentiality concerns, but it should be noted that the information is currently either circulated to all Members and CNCs, or published on the SPRFMO website. This dataset is being used to provide an initial CJM catch estimate for the current year and to temporarily fill in any gaps in annual catch data.

The Secretariat notes that a very coarse CPUE index for the SPRFMO Area (catch/vessels) can be created and, as it is the most "real-time" information available, this may be useful for the stock assessment.

Fishing activity data

Annually, prior to the 30th of July, the Secretariat receives un-aggregated (tow-by-tow) information describing the previous year's fishing activities for the SPRFMO Area (refer CMM 3.02 Para 1(b)). This dataset begins in 2007, but records from 2010 onwards are more complete. The information which is collected includes *inter alia* Vessel, fishing event start and end date/times, start/end positions, target species, fishing gear and estimated catch by species.

This dataset is not currently used in the stock assessment and there are confidentiality considerations that would need to be addressed (refer CMM 3.02 Para 7) prior to its use.

Observer information

CMM 3.01 (*T. murphyi*) currently specifies a minimum of 10% scientific observer coverage (Para 22). Annually, prior to the 30th of September, the observer information collected during this coverage is submitted to the Secretariat. Observer datasets begin in 2007, but records from 2010 onwards are more complete. The information which is collected includes all fields previously described for fishing activity data *plus* length frequency and individual biological data (Length, sex, maturity, collected samples) collected from target and major bycatch fish species

This dataset is not currently used in the stock assessment and there are confidentiality considerations that would need to be addressed (refer CMM 3.02 Para 7) prior to its inclusion.

VMS data

Participants in the Jack mackerel fishery are required to submit VMS position data. The current requirement (under CMM 3.01 Para 15) is for VMS data to be provided within 10 days of the end of the quarter throughout the year. This data set begins 2007, but records from 2010 onwards are more complete. The information includes vessel identifiers, position (nearest 0.1 degrees), date and time. The frequency of positions is variable, but usually every 4 hours.

This dataset is not currently used in the stock assessment and there are confidentiality considerations that would need to be addressed (refer CMM 3.02 Para 7) prior to its inclusion.

Historic aggregated datasets

Prior to the entry into force of the Convention and the subsequent entry into force of the Data standards CMM, participants were encouraged to submit data "in sufficient detail to facilitate effective stock assessment". Often this mean that catch data was aggregated to in space (either 1x1 or 5x5 degrees) and in time (often annually, but sometimes monthly).

These summary datasets are few in number and generally correspond to years which have gaps in fishing activity data. These summaries are not currently used in the stock assessment and there may be associated confidentiality considerations.

Year	Belize	Chile	China	European Union
2001-06			5*5	
2007	1*1 & 5*5	1*1	5*5	5*5
2008	5*5	1*1	1*1	
2009	5*5	1*1		
2010	Daily			