Foreign squid fishing logbook data in Australian waters 1977 to 1987

**Description**

Details of foreign squid fishing in Australian waters from 1977 to 1987. The data is sourced from daily fishing returns recorded by the foreign fishers while at sea. Weights are estimates only.

History

In the 1978-79 and 1979-80 seasons, feasibility fishing was conducted by Japanese fishing vessels in southern Australian waters. The boats were Japanese purpose-built jig vessels and the fishing occurred under joint venture arrangements where Australian companies formed partnerships with Japanese fishing companies. A single Korean vessel also fished the 1979-80 season in Western Australian waters.

Foreign fishing vessels again conducted significant squid fishing operations in the AFZ in the 1983-84 and 1984-85 seasons. Access was granted for five Taiwanese joint venture boats and one licensed Korean boat in 1983-84 and for eight licensed Korean vessels in 1984-85. The boats could not operate within 12 nautical miles of Tasmania and its Bass Strait islands, but could fish up to six miles from the Victorian coast in some areas.

The 1984-85 season saw the end to serious squid fishing by other nations within the AFZ. In early 1986 a single Korean vessel caught 289 tonnes of squid and in early 1987 a single Japanese vessel and 3 Korean vessels caught 342 tonnes of squid.

Appropriate use and limitations of the data

The catch weight data in logbooks are estimates only which have been recorded by fishers while at sea. Fishers usually cannot accurately weigh fish at sea, so the estimated weights are mostly based on volume (for example, the size and number of boxes of fish caught). At this time, positions are also estimates as GPS navigation systems did not exist.

Disclaimer

The data provided by AFMA is raw (unprocessed) data and may contain errors or be incomplete. Errors are more likely in the species caught in low volumes. AFMA makes no warranty or representation that the data is accurate or complete. Those who choose to use this data should make their own enquiries as to its accuracy and completeness and AFMA assumes no liability for any errors or omissions in the data provided, or for any decision by a person who chooses to rely on the data.

**METADATA**

**Title:** Foreign squid fishing logbook data in Australian waters 1977 to 1987

**Description:** This dataset holds details of foreign squid fishing in Australian waters from 1977 to 1987. The data is sourced from daily fishing returns recorded by the foreign fishers while at sea. Weights are estimates only.

**Date First Published:** September 2018

**Last Update:** September 2018

**Update Frequency:** No updates

**Authoring Agency:** [Australian Fisheries Management Authority](http://www.afma.gov.au/)

**Subject:** Fisheries catch

**Agency Program:** [AFMA daily logbook records](http://www.afma.gov.au/fisheries-services/logbooks-and-catch-disposal/)

**Agency Jurisdiction:** Commonwealth

**Temporal Coverage:** Calendar years 1977 to 1987

**Spatial Coverage:** Australia’s EEZ

**Granularity:** Daily.

**Collection Mode:** Self reporting. Logbooks are completed by fishers.

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**Appropriate Use:** Self-reported catch details from daily fishing logbooks. Interpretation of these data should take into account that they are estimates.

**Limitations:** The catch weight data in logbooks are estimates only which have been recorded by fishers while at sea. Errors are possible in the identification of fish species and are more likely for species caught in low volumes.

**Table structure** - Below are the details of the two files that make up the dataset;

**Table:** FSQ\_Operation.csv

|  |  |  |
| --- | --- | --- |
| **Field name** | **Type** | **Description** |
| Fishery Id | Character | FSQ = Foreign Squid. |
| Log Type | Character | Logbook used to report the fishing. |
| Boat Id | Integer | Unique identifier of the boat used for fishing. Together with the Fishing\_date and the Operation\_no, this provides the compound key that identifies each operation record. |
| Fishing date | Date | Date (Zulu) of the fishing operation. |
| Operation no | Integer | Sequential number of operation in that day. |
| Gear | Character | LSM = Mechanical squid jigging (ISSCPG: 09.2). |
| Latitude | Number | Latitude of the operation (decimal degrees). |
| Longitude | Number | Longitude of the operation (decimal degrees). |
| Fishing Start Time | Date/Time | Date and time (Zulu) of the start of the fishing operation. |
| Fishing Time | Number | Number of hours fished. |
| Bottom Depth | Integer | Depth (metres) of water where fishing occurred. |
| Fishing Depth | Integer | Deepest depth (metres) that the fishing gear worked. |
| Sea Surface Temp | Number | Reported sea surface temperature (°C) where fishing occurred. |
| Lines Used | Integer | Total number of lines used on the jigging machines during the fishing operation. |
| Handlines Used | Integer | Total number of hand jigging lines (LSJ, ISSCFG: 09.1) used during the fishing operation. |

**Table:** FSQ\_Operation\_Catch.csv

|  |  |  |
| --- | --- | --- |
| **Field name** | **Type** | **Description** |
| Fishery Id | Character | FSQ = Foreign Squid |
| Log Type | Character | Logbook used to report the fishing |
| Boat Id | Integer | Unique identifier of the boat used for fishing. Together with the Fishing\_date and the Operation\_no, this provides the compound key that identifies each operation record. |
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| Latitude | Number | Latitude of the operation (decimal degrees). |
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| Fishing Start Time | Date/Time | Date and time (Zulu) of the start of the fishing operation. |
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| Sea Surface Temp | Number | Reported sea surface temperature (°C) where fishing occurred. |
| Lines Used | Integer | Total number of lines used on the jigging machines during the fishing operation. |
| Handlines Used | Integer | Total number of hand jigging lines (LSJ, ISSCFG: 09.1) used during the fishing operation. |
| CAAB | Integer | CAAB - Codes for Australian Aquatic Biota : CSIRO coding system for aquatic organisms (http://www.marine.csiro.au/caab/). |
| Grade | Character | Reported grade of the squid. |
| Catch Wt | Integer | Catch (retained) in kilograms of the squid. |

**Glossary:**

**ISSCFG** – [FAO International Standard Statistical Classification of Fishing Gear](http://www.fao.org/cwp-on-fishery-statistics/handbook/capture-fisheries-statistics/fishing-gear-classification/en/) (ISSCFG, 1980)

**Gear**: Descriptions and images of [fishing gear](http://www.afma.gov.au/species-gear/fishing-gear/) are available on the AFMA website.

**Daily fishing logbooks:** While at sea, Commonwealth fishers must record all catch and effort details (including gear and spatial position) in their AFMA daily fishing logbooks. The logbook forms are submitted to AFMA and the data is entered into the AFMA database. This information is used to inform stock assessments. The forms currently used for [AFMA logbooks](http://www.afma.gov.au/fisheries-services/logbooks-and-catch-disposal/) are available on the AFMA website.

**CAAB**: CAAB stands for Codes for Australian Aquatic Biota and is a coding system for aquatic organisms in the Australian region. It is maintained by CSIRO Division of Marine and Atmospheric Research, Australia (CMAR). Users can search the [CAAB database](http://www.marine.csiro.au/caab/) for information such as currently accepted scientific name, common name and approved marketing name for a fish species.

**Australian Fishing Zone** - Waters adjacent to Australia and its external territories (excluding Torres Strait and the Antarctic Territories) which extend from defined baselines to 200 nm seawards, but not including coastal and excepted waters. Agreed boundaries apply where these zones intersect the 200 nm zones of other nations. Within the AFZ, Australia exercises jurisdiction over all fishing by Australian and foreign boats.

**Keywords:** Catch, Commonwealth, Fish, Fishing, Foreign, Logbook, Squid.