**IDENTIFICATION**

**SCIENTIFIC NAME**
Todarodes pacificus

**SPECIES NAME(S)**
Japanese flying squid, Japanese Common Squid

**COMMON NAMES**
Japanese common squid, Pacific flying squid

**STOCK IDENTIFICATION**
Although further study is required, there is a possible homogeneity of the population structure in the Yellow Sea-East/Japan Sea (Gong and Choi 2008). This can be classified as a transboundary fish stock, in that it is to be found in two or more EEZs, with undefined stock management units. This is a relevant shared fish stock of the Northeast Pacific, an important pelagic resource shared by two or more countries and by two or more coastal states in the region, extending into the high seas, adjacent to the coastal state EEZs. The Yellow Sea is included in this profile as the northern part of the East China Sea.

In Japanese waters, squids are mainly caught in summer-autumn squid fishery; coastal catches are landed fresh while catches from offshore waters are landed as frozen blocks. In addition to squid jigging and net fishing in Japanese waters they are also caught in multi-gear fisheries within Chinese and Korean waters.

**ASSESSMENT**

**Strengths**
Regular stock assessments are conducted and the stock is well managed through annual TAC limits in Japanese waters (Fisheries Agency of Japan 2012a,b).

**Weaknesses**
There is shortage of information on stock assessments in Chinese and Korean waters. Extent of IUU catches may be high and remain unquantified in this fishery, esp., in Korean and Chinese waters.

**Options**
A more rigorous study of both Government reports and published literature is necessary for Chinese waters. Studies need to be conducted to evaluate seasonal movements of this stock across all three jurisdictions of Korean, Japanese and Chinese waters. Governance measures also remain unknown for this stock in Chinese and Korean waters. Suggest increased data collection to gather information to make an analytical assessment possible in the near future across its distribution range.

**SCORES**

**Management Quality:**

<table>
<thead>
<tr>
<th>Management Strategy</th>
<th>Managers Compliance</th>
<th>Fishers Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥ 6</td>
<td>≥ 6</td>
<td>≥ 6</td>
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</table>

**Stock Health:**

<table>
<thead>
<tr>
<th>Current Health</th>
<th>Future Health</th>
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<tbody>
<tr>
<td>≥ 6</td>
<td>≥ 8</td>
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</tbody>
</table>

**FIPS**

- East China Sea and Yellow Sea Japanese flying squid-trawl: Stage 2, Type: Fip, Evaluation Start Date: 2 Nov 2018

**MSC**

No related MSC fisheries

**RECOMMENDATIONS**

**RETAILERS & SUPPLY CHAIN**

- Conduct scientific studies to define the stock structure over the full range of the species and to evaluate seasonal movements of this stock across all jurisdictions.
- Encourage managers to collect and publish detailed fishery data by fishing method (e.g. catch, effort and fleet size) and biological data (length, sex, maturity, age) to support stock assessment development and improve accuracy of third-party, independent sustainability evaluations.
- Work with managers to design and implement fishery management plans in all relevant jurisdictions, including harvest strategies and harvest control rules suitable for short-lived species; ensure the management plans consider impacts of this fishery on the overall ecosystem structure and function. This management plan should be sensitive to the transboundary nature of these stocks and ideally would be implemented by a regional fishery management body which would coordinate conservation measures amongst all harvesting nations. Estimate the scope of any illegal fishing and under-reporting, and implement effective monitoring, control, and surveillance measures.
- Implement data collection programs to enable evaluation of bycatch, especially of protected or endangered species.
- Ensure your supply chain is represented in SFP’s Global Squid Supply Chain Roundtable to review improvement needs in this and other similar fisheries, catalyze fishery improvement projects, and monitor progress in improvement efforts.

**RELATED LINKS**

- East China Sea Fisheries Research Institute (ECSFRI), Fisheries Research Agency of Japan (FRA), Korea Fisheries Resources Agency, Ministry of Oceans and Fisheries (FIRA)

**RETAILERS & SUPPLY CHAIN**

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Within FishSource, the term "fishery" is used to indicate each unique combination of a flag country with a fishing gear, operating within a particular management unit, upon a resource. That resource may have a known biological stock structure and/or may be assessed at another level for practical or jurisdictional reasons. A fishery is the finest scale of resolution captured in FishSource profiles, as it is generally the scale at which sustainability can most fairly and practically be evaluated.

### Assessment Unit

<table>
<thead>
<tr>
<th>Assessment Unit</th>
<th>Flag Country</th>
<th>Fishing Gear</th>
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<tbody>
<tr>
<td>East China Sea and Japan Seamount</td>
<td>China</td>
<td>Gillnets and entangling nets, Hooks and lines, Midwater trawls</td>
</tr>
<tr>
<td>Japan West Coast</td>
<td>Japan</td>
<td>Gillnets and entangling nets, Purse seine, Single boat midwater otter trawls</td>
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<tr>
<td>Republic of Korea</td>
<td>Korea, Republic of</td>
<td>Midwater trawls</td>
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### Management Unit

<table>
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<tr>
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<th>Organization</th>
<th>Fishing Area</th>
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<tbody>
<tr>
<td>China</td>
<td>East China Sea Fisheries Research Institute (ECSFRI)</td>
<td>FAO 61</td>
</tr>
<tr>
<td>Japan West Coast</td>
<td>Fisheries Research Agency of Japan (FRAJ)</td>
<td>FAO 61</td>
</tr>
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