

List of key questions/requests for the panel and a brief summary of documents provided pertaining to the chokka squid resource

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ABSTRACT

This paper provides a key request for the 2025 Panel's consideration with regards to the implementation of the assessment model of the squid (*Loligo reynaudii*) resource of South Africa, together with a list of documents provided.

KEYWORDS: IWS panel, key questions, excerpts, recommendations

REQUEST TO THE PANEL

Background

The 2024 Panel recommended that stock assessments for squid be based on the monthly age-structured model used in a simulation exercise to replicate historical industry binned catch-at-length data, and suggested further adaptations to be made to the model. The panel also identified several data sources that should be included in the model fitting process. The structure/parameters of this model include natural mortality at age, continuous recruitment over the year, a knife-edge selectivity-at-length, the proportion of the exploitable component of the resource harvested by the industry and a gender-dependent von Bertalanffy growth curve with normally distributed length-at-age.

Request

The Panel is requested to review the initial results obtained in the further adaptation of the simulation model to an assessment model, and to recommend regarding the way forward for this work.

LIST OF DOCUMENTS PROVIDED

Primary papers

MARAM/IWS/2025/Squid/P1: A. Brandão and D.S. Butterworth. List of key questions/requests for the panel, and a brief summary of documents provided pertaining to the squid resource.

MARAM/IWS/2025/Squid/P2: A. Brandão and D.S. Butterworth. Excerpts from the 2024 IWS panel report pertaining to the squid resource, together with responses.

MARAM/IWS/2025/Squid/P3: A. Brandão and D.S. Butterworth. Available data for the assessment of the South African chokka squid (*Loligo reynaudii*) resource.

Lists the data presently available to be used in the implementation of the assessment model for squid.

MARAM/IWS/2025/Squid/P4: A. Brandão and D.S. Butterworth. Initial implementation of an assessment model for the South African chokka squid (*Loligo reynaudii*) resource.

Provides the methodology for the chokka squid assessment model as well as initial results for its implementation.