

13TH MEETING OF THE SPRFMO COMMISSION

Santiago, Chile, 17 February to 21 February 2025

COMM 13 – Prop 05

New Zealand

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| <input checked="" type="checkbox"/> Amend <input type="checkbox"/> Create | <p>CMM 03-2023 Bottom Fishing</p> |
| <p>Submitted by: New Zealand</p> | |
| <p>Summary and objective of the proposal:</p> <p>At the 2024 Scientific Committee meeting New Zealand presented two papers (SC12-DW09_rev1 and SC12-DW10) relating to the revision of the interim encounter protocol standard. The proposed Encounter Review Standard is based largely on the content provided by New Zealand in SC09-DW08, with some changes to address the recommendations made by the IWG at the 11th Meeting of the Commission in 2023 (COMM11-Doc07) and suggestions through the South Pacific Working Group.</p> <p>From the SC report:</p> <p>171. The SC agreed that the Encounter Review Standard submitted by New Zealand:</p> <div style="border: 1px solid gray; padding: 5px;"> <p>a. aligns with the FAO Deep-sea Fisheries Guidelines, and;</p> <p>b. takes into account the guidance contained in paragraph 166(f) of the 2023 Report of Bottom Fishing Intersessional Working Group (COMM11-Doc07) as required by paragraph 41 of CMM03-2023;</p> </div> <div style="background-color: #003366; color: white; text-align: center; padding: 5px;">24</div> <div style="background-color: #003366; color: white; text-align: center; padding: 5px;">SPRFMO SC12-Report</div> <p>172. The SC recommended:</p> <div style="border: 1px solid gray; padding: 5px;"> <p>a. That the Commission adopts the Encounter Review Standard submitted by New Zealand (SC12-DW10);</p> <p>b. The Scientific Committee shall review, and update if required, the Encounter Review Standard every 5 years, starting in 2029, to ensure that it reflects best practice;</p> <p>c. The Scientific Committee shall, in addition to the 5 yearly reviews, update the Encounter Review Standard as needed to account for the best available scientific information relevant to determining the presence of VMEs or to assessing adverse impacts on VMEs.</p> </div> <p>The structure of the proposed Encounter Review Standard is similar to that of SC09-DW08, where clear steps are provided for both the Member or CNCP and the SC to follow after an encounter has been notified.</p> <p>The proposed Standard includes clear guidelines for Members and Cooperating non-Contracting Parties (CNCPS) for undertaking reviews of encounters with potential vulnerable marine ecosystems (VMEs) in bottom fisheries. The Standard also includes a clear process for the SPRFMO Scientific Committee (SC) to implement when reviewing encounter reviews submitted by Members and CNCPS and providing management advice to the Commission.</p> <p>Changes are made under the “Encounters with Potential VMEs” section starting from paragraph 32.</p> | |
| <p>Has the proposal financial impacts or influence on the Secretariat work?</p> | |
| <p style="text-align: right;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </p> | |
| <p>Ref: COMM13-PROP05</p> | <p>Received on: 26 December 2024</p> |



CMM 03-2025

Conservation and Management Measure for the Management of Bottom Fishing in the SPRFMO Convention Area

(Supersedes CMM 03-2023)

The Commission of the South Pacific Regional Fisheries Management Organisation;

RECOGNISING Article 2 of the Convention on the Conservation and Management of High Seas Fishery Resources in the South Pacific Ocean (the Convention), which provides that the objective of the Convention is, through the application of the precautionary approach and an ecosystem approach to fisheries management, to ensure the long-term conservation and sustainable use of fishery resources and, in so doing, to safeguard the marine ecosystems in which these resources occur;

FURTHER RECOGNISING Articles 3(1)(a)(i) and (vii) of the Convention, which call on the Commission, in giving effect to the objective of the Convention, to adopt Conservation and Management Measures (CMMs) that take account of international best practices and protect marine ecosystems, particularly ecosystems with long recovery times following disturbance;

FURTHER RECOGNISING Articles 3(1)(b) and (2) of the Convention which call on the Commission to apply the precautionary approach and an ecosystem approach to the conservation and management of fishery resources under the mandate of the Convention;

FURTHER RECOGNISING Article 4 of the Convention in which Contracting Parties acknowledge their duty to cooperate to ensure compatibility of (CMMs) established for fishery resources that are identified as straddling areas under national jurisdiction and the adjacent high seas of the Convention Area;

MINDFUL of Article 31(1) of the Convention which calls on the Commission to cooperate with other regional fisheries management organisations (RFMOs), the Food and Agriculture Organization of the United Nations (FAO), other specialised agencies of the United Nations and other relevant organisations on issues of mutual interest;

RECALLING that in 2007, Participants in the International Consultations on the Establishment of the South Pacific RFMO adopted voluntary interim management measures, including *inter alia*, for the management of bottom fisheries in the Convention Area;

NOTING United Nations General Assembly (UNGA) Resolution 61/105 which calls upon RFMOs to assess, on the basis of the best available scientific information, whether individual bottom fishing activities would have significant adverse impacts on vulnerable marine ecosystems (VMEs), and to ensure that if it is assessed that these activities would have significant adverse impacts, they are managed to prevent such impacts, or not authorised to proceed;

FURTHER NOTING UNGA Resolution 64/72 which calls upon RFMOs to establish and implement appropriate protocols for the implementation of UNGA Resolution 61/105, including definitions of what constitutes evidence of an encounter with a VME, in particular threshold levels and indicator species; and to implement the FAO International Guidelines for the Management of Deep-sea Fisheries in the High Seas (FAO, 2009; FAO Deep-sea Fisheries Guidelines) in order to sustainably manage fish stocks and protect VMEs;

FURTHER NOTING UNGA Resolution 66/68 which encourages RFMOs to consider the results available from marine scientific research, including those obtained from seabed mapping programmes concerning the identification of areas containing VMEs, and to adopt CMMs to prevent significant adverse impacts from bottom fishing on such ecosystems, consistent with the FAO Deep-sea Fisheries Guidelines, or to close such areas to bottom fishing until such CMMs are adopted, as well as to continue to undertake further



marine scientific research, in accordance with international law as reflected in Part XIII of the 1982 Convention;

FURTHER NOTING UNGA Resolutions 71/123 and 72/72 which call upon RFMOs to use the full set of criteria in the FAO Deep-sea Fisheries Guidelines to identify where VMEs occur or are likely to occur as well as for assessing significant adverse impacts, to ensure that impact assessments, including for cumulative impacts of activities covered by the assessment, are conducted consistent with the FAO Deep-sea Fisheries Guidelines, are reviewed periodically and are revised whenever a substantial change in the fishery has occurred or there is relevant new information, and that, where such impact assessments have not been undertaken, they are carried out as a priority before authorising bottom fishing activities, and to ensure that CMMs are based on and updated on the basis of the best available scientific information, noting in particular the need to improve effective implementation of thresholds and move-on rules;

FURTHER NOTING UNGA Resolution 77/118 which calls on States and RFMOs to identify and overcome barriers in the implementation of earlier Resolutions such as data availability, especially with regard to baseline data and the spatial distribution and connectivity of vulnerable marine ecosystems, including their associated and dependent species, while recognising the importance of international collaboration for this purpose; and recognising that effective management of bottom fisheries is crucial to ensure the long-term sustainability of the sector;

MINDFUL that the Report of the Bottom Fishing Intersessional Working Group contained in COMM11-Doc07 provides a comprehensive review of this conservation and management measure and the technical work, and that SPRFMO is using best available science;

ENCOURAGED that the Scientific Committee's Multi-Annual Work Plan will contribute to improving the Commission's understanding of vulnerable marine ecosystems within the SPRFMO Convention Area;

DETERMINED to ensure that the precautionary approach is applied, including in the utilization of impact assessments to inform management decisions and consideration of significant adverse impacts on vulnerable marine ecosystems, including their associated and dependent species, consistently with the actions called for by UNGA Resolution 77/118;

RECOGNISING the immense importance and value of deep-sea ecosystems and the biodiversity they contain, as documented in the first World Ocean Assessment;

BEARING IN MIND the FAO Deep-sea Fisheries Guidelines are recommended international minimum standards to be taken into account, and that the Guidelines describe what constitutes significant adverse impacts, factors to be considered when determining the scale and significance of an impact, what constitutes temporary impacts and factors to be considered in determining whether an impact is temporary;

REAFFIRMING the steps already taken by the Commission to address the impacts of large-scale pelagic driftnets and all deepwater gillnets in the Convention Area, through the implementation of CMM 08-2019 (Gillnetting);

RECOGNISING Articles 20(1)(a) and (d) of the Convention, which provide that the CMMs adopted by the Commission shall include measures to ensure the long-term sustainability of fishery resources and promote the objective of their responsible utilisation, and to protect the habitats and marine ecosystems in which fishery resources and non-target and associated or dependent species occur from the impacts of fishing, including measures to prevent significant adverse impacts on VMEs and precautionary measures where it cannot adequately be determined whether VMEs are present or whether fishing would cause significant adverse impacts on VMEs;

FURTHER RECOGNISING Article 22 of the Convention, which provides that a fishery that has not been subject to fishing or has not been subject to fishing with a particular gear type or technique for ten years or more shall be opened only when the Commission has adopted cautious preliminary CMMs in respect of that fishery, and, as appropriate, non-target and associated or dependent species, and appropriate measures to protect the marine ecosystem in which that fishery occurs from adverse impacts of fishing activities;

ADOPTS the following CMM in accordance with Articles 8, 20, 21 and 22 of the Convention:



Objective

1. The objective of the CMM together with CMM 03a-2023 (Deepwater Species) is, through the application of the precautionary approach and an ecosystem approach to fisheries management, to ensure the long-term conservation and sustainable use of deep sea fishery resources, including target fish stocks as well as non-target or associated and dependent species, and, in doing so, to safeguard the marine ecosystems in which these resources occur, including *inter alia* the prevention of significant adverse impacts on vulnerable marine ecosystems.

Definitions

2. For the purposes of this CMM, the term “bottom fishing” is defined as fishing using any gear type likely to come in contact with the seafloor or benthic organisms during the normal course of operations, and includes *inter alia*:
 - a) “Bottom trawl” which is defined as fishing using a trawl net that is designed to be pulled through the water and to come into contact with the seabed;
 - b) “Mid-water trawl” which is defined as fishing for benthic-pelagic species using a trawl net that is designed to be pulled through the water near the seabed and designed not to come into extended contact with the seabed;
 - c) “Bottom line” which is defined as fishing using a line to which a hook or hooks (whether baited or not) are attached and rigged to sink and fish on or near the seabed. This includes, but is not limited to, longlines, hand lines, drop lines, trot lines, and dahn lines.
3. For the purposes of this CMM, the term “vulnerable marine ecosystem” (VME) means a marine ecosystem that has the characteristics referred to in paragraph 42 of, and elaborated in the Annex to, the FAO Deep-sea Fisheries Guidelines.
4. For the purposes of this CMM, the term “Evaluated Area” means those parts of the Convention Area that are within the area starting at a point of 24°S latitude and 146°W, extending southward to latitude 57° 30S, then westward to 150°E longitude, northward to 55°S, westward to 143°E, northward to 24°S and eastward back to point of origin (Annex 1).
5. For the purposes of this CMM, the term “Management Area(s)” means those parts of the Evaluated Area specified in paragraph 14.
6. For the purposes of this CMM, the term “fishing year” means the period starting 0001 hours UTC on 1 January and ending 2359 hours on 31 December in the same year.
7. For the purposes of this CMM, ‘Fishery Management Area’ has the same meaning as in CMM 03a-2023.

General Provisions

- a. This CMM applies to the entire Convention Area.
- b. This CMM together with CMM 03a-2023 (Deepwater Species) are adopted as cautious preliminary CMMs consistent with Article 22(1) of the Convention.
- c. This CMM together with CMM 03a-2023 (Deepwater Species) applies to all fishing vessels flying the flag of a Member or Cooperating non-Contracting Party (CNCP) to the South Pacific Regional Fisheries Management Organisation (SPRFMO) engaging or intending to engage in bottom fishing in the Convention Area.
- d. Members and CNCPs shall prohibit vessels flying their flag from participating in bottom fishing in the Convention Area other than in accordance with the provisions of this CMM together with CMM 03a-2023 (Deepwater Species).
- e. Only fishing vessels duly authorised pursuant to Article 25 of the Convention and in accordance



with CMM 05-2023 (Record of Vessels) that are flagged to Members and CNCPs shall participate in bottom fishing in the Convention Area.

13. No Member or CNCP shall authorise vessels flying their flag to engage in any bottom fishing in the Convention Area unless:
- Authorisation has been given by the Commission under paragraph 22(d)(i); or
 - approval has been given by the Commission under paragraph 14 of CMM 13-2021 (Exploratory Fisheries).

Bottom Fishing Management Areas

14. The Commission hereby establishes within the Evaluated Area the following Management Areas, the coordinates for which are provided in Annex 4:

- Bottom trawl Management Area
- Mid-water trawl Management Area
- Bottom line Management Area

15. Bottom fishing in the Convention Area shall occur only in the three Management Areas established in paragraph 14 and in accordance with the terms of this CMM together with CMM 03a-2023 (Deepwater Species). CMM 13-2021 (Exploratory Fisheries) does not apply to bottom fishing in the three Management Areas established in paragraph 14.

15. Notwithstanding paragraphs 11 and 15, proposals to undertake bottom fishing:

- outside a Management Area; or
- inside a Management Area using bottom fishing methods other than bottom trawl, midwater trawl or bottom line fishing; or
- in a mid-water trawl Management Area using bottom trawl gear or in a bottom line Management Area using bottom trawl or mid-water trawl gear; or
- inside a Management Area targeting species not previously targeted in the area proposed to be fished (unless the species has regularly been caught as part of an existing fishery);

shall be handled in accordance with CMM 13-2021 (Exploratory Fisheries).

17. Unless a Member or CNCP is fishing in an exploratory fishery established pursuant to CMM 13-2021 (Exploratory Fisheries), Members and CNCPs shall ensure that vessels flying their flag comply with the following provisions:

- Bottom trawling shall only occur in a bottom trawl Management Area;
- Midwater trawling shall only occur in a midwater trawl Management Area or a bottom trawl Management Area;
- Bottom lining shall only occur in a Management Area.

18. The Commission may in future establish, disestablish, or adjust the boundaries of the Evaluated Area or any Management Area, based on advice from the Scientific Committee.

19. From 2024, the Commission shall apply a minimum of 70% protection of suitable habitat for each modelled VME indicator taxa. The Commission, taking into account the advice and recommendations of the Scientific Committee, shall review the boundaries of the Management Areas established in paragraph 14 and Annex 4 of this CMM and make any modifications necessary to achieve this level of protection at its 12th annual



meeting in 2024¹.

Marine Mammals, Seabirds, Reptiles and Other Species of Concern²

20. Members and CNCPs shall require vessels flying their flag and undertaking bottom fishing to implement seabird mitigation measures in accordance with CMM 09-2017 (Seabirds), and shall report annually to the Commission on bycatch rates and total bycatch estimates in accordance with CMM 02-2022 (Data Standards) and the Guidelines for Annual National Reports to the SPRFMO Scientific Committee.

21. The Scientific Committee shall provide advice biennially to the Commission on:

- a) direct and indirect interactions between bottom fishing and marine mammals, seabirds, reptiles and other species of concern;
- b) any recommended spatial or temporal closures or spatially/temporally limited gear prohibitions for any identified hotspots of these species; and
- c) any recommended bycatch limits and/or measures for an encounter protocol for any of these species.

Assessment of Proposed Bottom Fishing

22. Subject to paragraph 16, all proposals to undertake bottom fishing in one of the Management Areas established in paragraph 14 shall be subject to an assessment process, based on the best available scientific information and taking into account the history of bottom fishing in the areas proposed and cumulative impacts of past and proposed fishing. The assessment will determine if such fishing would contribute to having significant adverse impacts on VMEs, and to ensure that if it is determined that this fishing would make such contributions, that they are managed to prevent such impacts or not authorised to proceed. The assessments shall follow the following procedures:

- a) Each Member or CNCP proposing to participate in bottom fishing activities shall submit to the Scientific Committee a proposed assessment that meets the SPRFMO Bottom Fishery Impact Assessment Standard (SPRFMO BFIAS³) with the best available data including consideration of cumulative impacts, not less than 60 days prior to the annual meeting of the Scientific Committee. BFIA's shall be prepared using a scale no coarser than the Fishery Management Area. These submissions shall also include the mitigation measures proposed by the Member or CNCP to prevent such impacts.
- b) The Scientific Committee shall undertake a review of the proposed assessment and provide advice to the Commission on:
 - i. whether the proposed bottom fishing would contribute to having significant adverse impacts on deep sea fish stocks for which no stock assessment has been completed, bycatch species and/or VMEs and, if so,
 - ii. whether any proposed or additional mitigation measures would prevent such impacts.

¹ Recognising that the minimum level of protection is an interim approach recommended in COMM11-Doc07, and notwithstanding paragraph 19, the Commission may, in 2024 or any year thereafter, adopt a different level of protection to prevent significant adverse impacts on VMEs. The Commission will receive further advice on thresholds for SAIs, multi-spatial scale risk assessments to assess encounters, and how to reduce uncertainties in these risk assessments based on the fulfilment of the work set out in the Scientific Committee's multi-annual work plan including to assess the feasibility of developing catchability estimates for VME indicator taxa.

² "Other species of concern" means the list contained in Annex 14 of CMM 02-2022 (Data standards).

³ As approved by the seventh session of the Scientific Committee 2019, available at: <https://www.sprfmo.int/assets/Fisheries/Science/SPRFMO-Bottom-Fishery-Impact-Assessment-Standard-2019.pdf>



- c) In its review of the proposed assessment, the Scientific Committee may use additional information available to it, including information from other fisheries in the region or similar fisheries elsewhere. The Scientific Committee is not obliged to consider, or provide advice on, proposed assessments provided after the deadline for submission of proposed assessments contained in paragraph 22(a).
- d) On the basis of the Scientific Committee's review of the submitted assessment, taking into account any recommendations and advice of the Scientific Committee and in line with the precautionary approach, the Commission shall consider:
 - i. whether, and if applicable the extent to which, bottom fishing in the Management Area(s) for which the proposed assessment was conducted should be authorised;
 - ii. which, if any, additional measures (which may include closures) to those proposed are required pursuant to Article 20 to prevent significant adverse impacts on VMEs;
 - iii. which, if any, additional precautionary measures are required where it cannot adequately be determined whether VMEs are present or whether fishing could cause significant adverse impacts on VMEs;
 - iv. data availability, especially with regard to baseline data and the spatial distribution and connectivity of vulnerable marine ecosystems, including their associated and dependent species; and
 - v. in relation to an application to target a species for which no total catch limit exists, an exemption for such a Member or CNCP to paragraph 11 of CMM 03a-2023 (Deepwater Species), bearing in mind the need to be precautionary.

23. Members and CNCPs whose bottom fishing proposal has been authorised by the Commission under paragraph 22(d)(i) shall ensure that a proposed assessment meeting the requirements contained in paragraph 22(a) is submitted to the Scientific Committee and Commission at least every 3 years, and also when a substantial change in the fishery has occurred such that it is likely that the risk or impact of the fishery may have changed.

24. The Secretariat shall make publicly available on the SPRFMO website all assessments submitted in accordance with paragraph 21(a) within three days of receipt and shall invite public comment for 30 days from the date of publication on such assessment. The Secretariat shall also make the Scientific Committee's review of such assessments public in accordance with its usual procedures,

25. The Scientific Committee shall review, and update if required, the SPRFMO BFIAS every 5 years, starting in 2025, to ensure that it reflects, as appropriate, best practice.

Encounters with Potential VMEs

26. For the purposes of this section of the CMM, the term "VME indicator taxa" means any benthic organism listed in Annex 5.

27. For the purposes of this section of the CMM, the term "Encounter" means catch of a VME indicator taxa at or above threshold levels as set out in paragraph 28.

28. Where VME indicator taxa are encountered in any one tow at or above the weight threshold in Annex 6A, or three or more different VME indicator taxa at or above the weight thresholds in Annex 6B, Members and CNCPs shall require any vessel flying their flag to:

- a) cease bottom fishing immediately within an encounter area of one (1) nautical mile either side of the trawl track extended by one (1) nautical mile at each end;
- b) report the encounter immediately to the Member or CNCP whose flag the vessel is flying and the Secretariat, in accordance with the Guidelines for the preparation and submission of notifications of encounters with potential VMEs, contained in Annex 7.



29. In the event of an encounter, Members and CNCPs shall cooperate to the extent possible with the Secretariat and other Members or CNCPs engaged in bottom fishing to exchange such data and information as may be relevant to the Scientific Committee's consideration of the encounter area.
30. On receipt of a notification under paragraph 28(b) the Secretariat shall:
- a) record the location of the encounter area;
 - b) within three (3) working days of receipt, notify all Members and CNCPs that bottom fishing is suspended in the encounter area in paragraph 28(a); and
 - c) publicise the encounter area on the internal part of the SPRFMO website for the duration of the suspension.
31. Members and CNCPs shall ensure that vessels flying their flags do not bottom fish in an encounter area notified under paragraph 30(b) unless and until such time as the Commission determines management actions under paragraph 34 that would permit the resumption of bottom fishing in the area.
32. Members and CNCPs shall submit to the Scientific Committee⁴ a review of each encounter by vessels flying their flag that resulted in a temporary suspension pursuant to paragraph 28, that meets the SPRFMO Encounter Review Standard (SPRFMO ERS⁵). Each review must include a detailed description of each encounter, an assessment of whether a VME is known or likely to occur within the encounter area, an evaluation to assess if re-opening the encounter area will expose any VMEs to significant adverse impacts, and suggested management actions to prevent significant adverse impacts on VMEs⁶. Members should provide as much detail as possible to verify whether a VME is likely to be present at the encounter area and/or the surrounding area, whether a significant adverse impact has occurred, and the risk of a significant adverse impact occurring in the future.
33. The Scientific Committee, at its next annual meeting, and in accordance with the requirements of the SPRFMO ERS, shall review all encounters reported pursuant to paragraph 28(b) once the relevant Member or CNCP has provided its review pursuant to paragraph 32, and provide advice on management actions proposed by the relevant Member or CNCP under paragraph 32 and any alternate or additional management actions the Scientific Committee considers appropriate. The Scientific Committee shall:
- a) Apply the Convention, including Article 3(2)(a);
 - b) Consider the detailed analyses provided by a Member or CNCP pursuant to paragraph 32 including:
 - i. historical fishing events within 5nm of the encounter tow, in particular, any previous encounters, and all information on benthic bycatch;
 - ii. model predictions for all VME indicator taxa and associated uncertainty layers, including predictions discounted for historical fishing impacts;
 - iii. details of the relevant fishing activity, including the bioregion in which the encounter occurred (noting that different regions have different compositions of benthic bycatch, for example stony coral are more commonly caught on the Louisville Ridge than elsewhere); and

⁴ Reviews shall, to the extent possible, be undertaken promptly and be submitted to the next Scientific Committee meeting by the Member or CNCP whose flag the vessel was flying at the time of the encounter. Where a Member or CNCP does not have the capacity to undertake the review within that timeframe, including because: the encounter has occurred in the weeks immediately prior to the next annual Scientific Committee meeting; or a Member or CNCP other than the flag State of the vessel which reported the encounter agrees to take responsibility for the review; or if the encounter is the subject of a domestic investigation or legal process which limits the disclosure of information relevant to the assessment, then the relevant Member(s) and/or CNCP(s) shall inform the Scientific Committee of the circumstances and, as the case requires, an indication of when the review will be provided to the Scientific Committee.

⁵ As approved at the 12th meeting of the Scientific Committee 2024, available at: <https://www.sprfmo.int/assets/Fisheries/Science/SPRFMO-Encounter-Review-Impact-2024.pdf>

⁶ Relevant outputs from habitat suitability models (e.g., shapefiles of predicted distributions) will be made available to Members.



- iv. any other information the Scientific Committee considers relevant. This could include spatial scales of endemicity for the taxa impacted, spatial scales of connectivity and meta-population dynamics, catchability of VME indicator taxa, and taxonomic resolution of the bycatch records in relation to species complexes;

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- c) apply the FAO Deep-sea Fisheries Guidelines, including to use the full set of criteria contained therein to identify where VMEs occur or are likely to occur, as well as for assessing significant adverse impacts on such ecosystems, including their associated and dependent species;
- d) In its review, the Scientific Committee must provide a clear determination regarding the adequacy of information included in the members review pursuant to paragraph 32, including the robustness of the analyses, to:
 - i. determine if a VME is known or likely to occur within the encounter area;
 - ii. determine if reopening the encounter area will expose any VMEs to significant adverse impacts;
 - iii. provide meaningful advice and recommendations, with the objective of avoiding significant adverse impacts on VMEs;

34. Notwithstanding paragraph 33, the Scientific Committee may defer consideration of an encounter if:

- a) there is inadequate information to provide meaningful advice and recommendations; or
- b) The relevant Member of CNCP has notified the Scientific Committee of a delay pursuant to paragraph 32; or
- c) There has been insufficient time for the flag State to present the relevant information within the normal timeframes for the submission of working papers to the Scientific Committee.

35. At its next annual meeting, the Commission shall determine, for each encounter, management actions to prevent significant adverse impacts on VMEs, which may include: the closing of some areas to some or all bottom fishing gear, temporal restrictions, spatial restriction, reopening areas. Management actions determined by the Commission will apply as appropriate, unless otherwise determined, from the conclusion of the relevant Commission meeting. The Commission shall base its decision on the Scientific Committee's advice; and be satisfied that its decision is consistent with the requirements of the Convention, including Article 3(2)(a).

36. For the avoidance of doubt, each VME encounter shall be assessed against the requirements of the relevant CMM in effect at the time of the encounter. However, this shall not preclude the Scientific Committee and/or the Commission from taking into account the best available science in relation to the encounter in discharging their respective functions within the encounter review process.

37. The Scientific Committee shall review, and update if required, the SPRFMO ERS every 5 years, starting in 2029, to ensure that it reflects best practice.

38. The Scientific Committee shall, in addition to the 5 yearly reviews, update the SPRFMO ERS as needed to account for the best available scientific information relevant to determining the presence of VMEs or to assessing adverse impacts on VMEs;

General provisions in relation to the scientific review of information

39. Members and CNCPs shall submit to the Secretariat annual reports of all benthic bycatch data from vessels flying their flag, consistent with CMM 02-2022 (Data Standards), as part of their annual reports to the Scientific Committee, to enable an ongoing review of the effectiveness of the spatial management



arrangements.

- 4.1. The Scientific Committee shall review all available data and provide advice on the ongoing effectiveness of the management measures in this CMM to ensure the measure meets its objective and the objectives of the Convention and implements the relevant United Nations General Assembly Resolutions⁷.
- 4.1. From 2023, the Scientific Committee shall adopt the Fishery Management Area as the appropriate scale of management for assessing the performance of the VME spatial management scenarios that underpin this CMM.
- 4.2. The Scientific Committee shall develop a biologically-relevant multi spatial-scale risk-based approach to assess encounters with VME indicator taxa. The Scientific Committee shall take into account the Convention and the FAO DeepSea Fisheries Guidelines and may consider a broad range of scales in the context of the best available science on, *inter alia*, the distribution of VME across spatial scales.
- 4.3. Nothing in this CMM shall prevent Members or CNCPs from taking additional measures compatible with this measure in relation to encounters with VME indicator taxa below the threshold in paragraph 28.

Monitoring and Control of Bottom Fishing Activities

4.1. Members and CNCPs shall:

- a) ensure that vessels that fly their flag and participate in bottom fishing:
 - are equipped and configured so that they can comply with all relevant SPRFMO CMMs;
 - act in accordance with CMM 06-2023 (Commission VMS), polling once every 30 minutes for the duration of the trip;⁸
 - report tow or set start and end position to 1/100th degree resolution - decimal format, notwithstanding the Annexes of CMM 02-2022 (Data standards).
- b) only authorise vessels flying their flag to fish in the Convention Area where they are able to exercise their responsibilities as a flag State under the Convention and all relevant SPRFMO CMMs;
- c) ensure that they meet the level of observer coverage specified in this CMM to collect data in accordance with this and other CMMs;
- d) prohibit vessels flying their flag from participating in bottom fishing if the agreed minimum required data submissions have not been provided in accordance with the agreed subset of the vessel identification data requirements;
- e) in respect of each vessel that flies their flag and participates in bottom fishing, submit VMS reports to the Secretariat in accordance with CMM 06-2023 (Commission VMS).

Observer Coverage

- 4.1. All Members and CNCPs participating in bottom fishing pursuant to this CMM shall ensure scientific observer coverage of trips for vessels flying their flag consistent with the minimum observer coverage levels set out in Annex 8 and shall ensure that such observers collect and report data as described in CMM 02-2022 (Data Standards).
- 4.2. The Commission shall review the appropriateness of the minimum observer coverage levels specified in

⁷ UNGA Resolutions 61/105, 64/72, 66/68, 71/123, 72/72, 77/118 and any subsequent resolutions adopted by the United Nations General Assembly.

⁸ This obligation shall apply to all trips in which the vessel departs port with the intention of entering the Convention Area. The term "duration of the trip" commences from the time the vessel departs from port, includes all times that it is in the Convention Area and concludes once it enters port.



Annex 8 of this CMM at its annual meeting in 2024, taking into account the bottom fishing impact assessment and the SC advice and recommendations therein.

47. Nothing in this measure shall affect the rights of Members and CNCPs to apply higher levels of observer coverage than set out in Annex 8, in accordance with their domestic requirements.

Electronic Monitoring

48. Members and CNCPs may also require vessels flying their flag to have an electronic monitoring system installed and operating that is capable of recording (including visually) and storing recordings of fishing events for data collection and verification purposes.

Register of Known VMEs

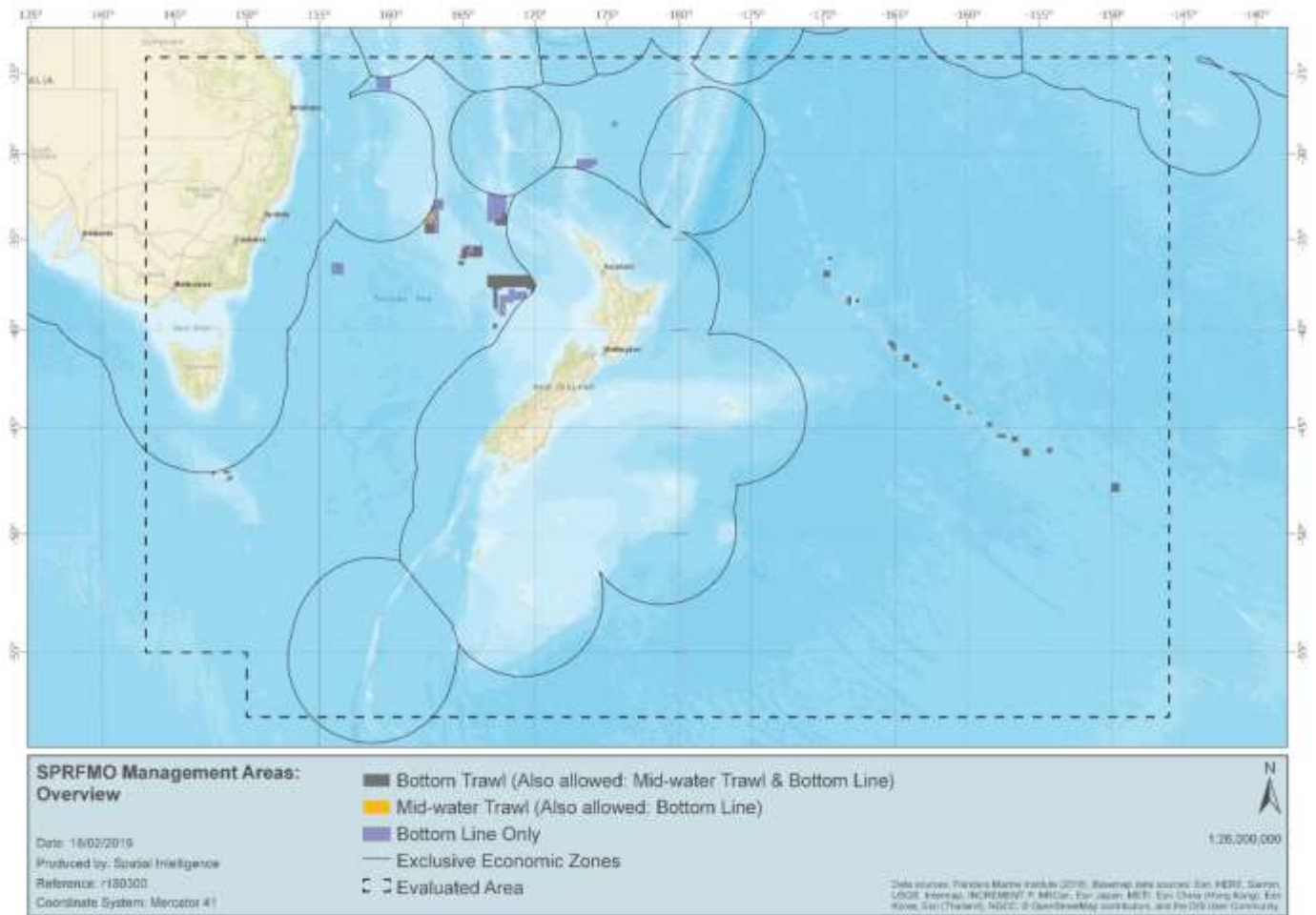
49. Where the Commission has identified areas as vulnerable marine ecosystems, the Commission shall:
- a) Register the VME in Annex 9 of this CMM; and
 - b) Ensure the Management Area boundaries established in paragraph 14 and Annex 4 of this CMM are updated to exclude the VME from areas open to fishing.

Review

50. The Commission shall review this CMM at least every 3 years, and in doing so, take appropriate action to meet the objectives of this CMM and the Convention, in view of the advice and recommendations of the Scientific Committee. Each such review shall consider the protocol for encounters with VME indicator taxa and the appropriateness of applied management measures. The Commission shall, for each review, take into account relevant technical information from United Nations bottom fishing reviews processes, any related resolutions adopted by the United Nations General Assembly (UNGA), and the United Nations Food and Agriculture Organization's International Guidelines for the Management of Deep-Sea Fisheries in the High Seas. The Commission shall make any modification to the CMM as is required to meet its objective.

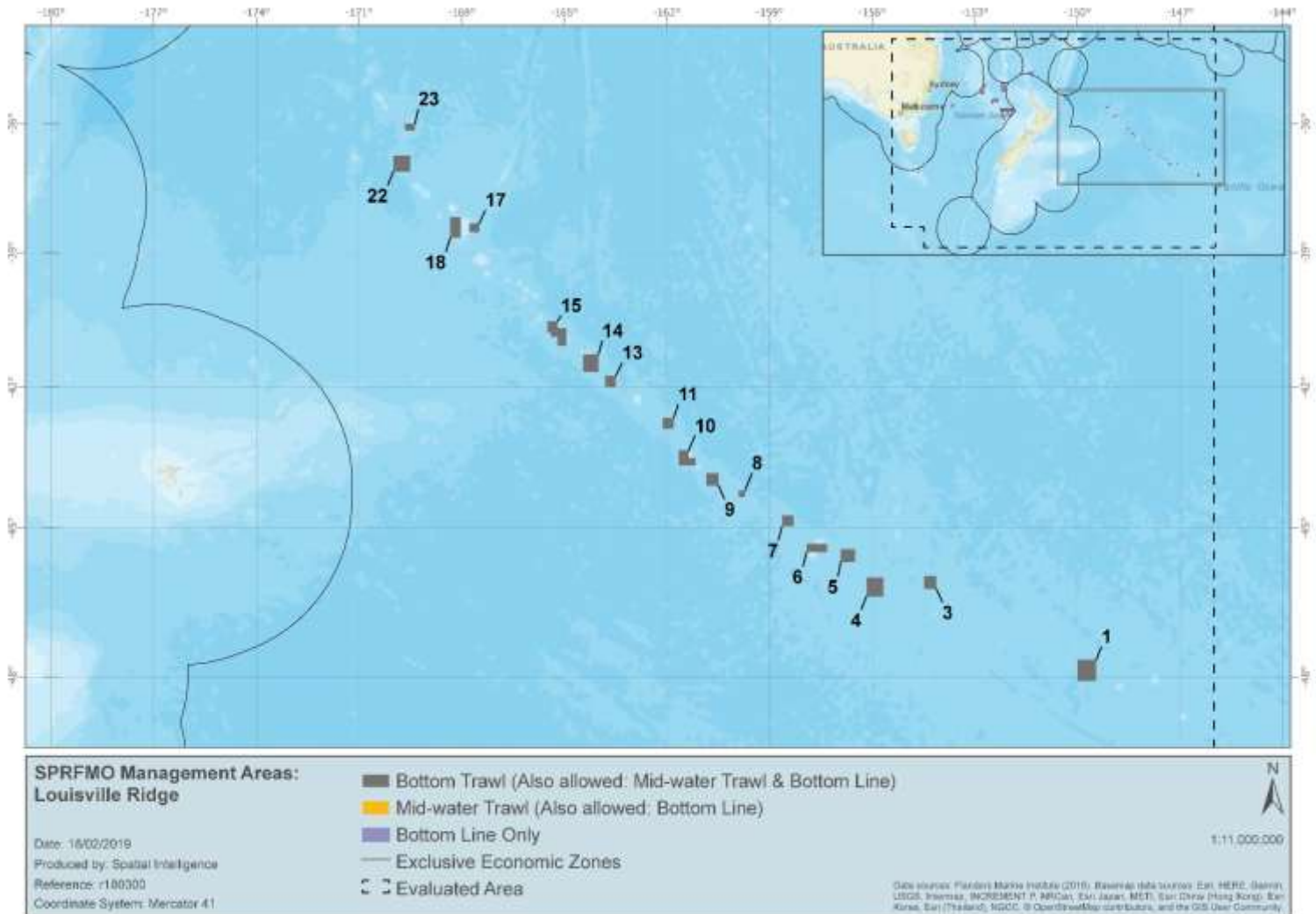


ANNEX 1: SPRFMO Bottom Fishing Evaluated Area and Bottom Fishing Management Areas



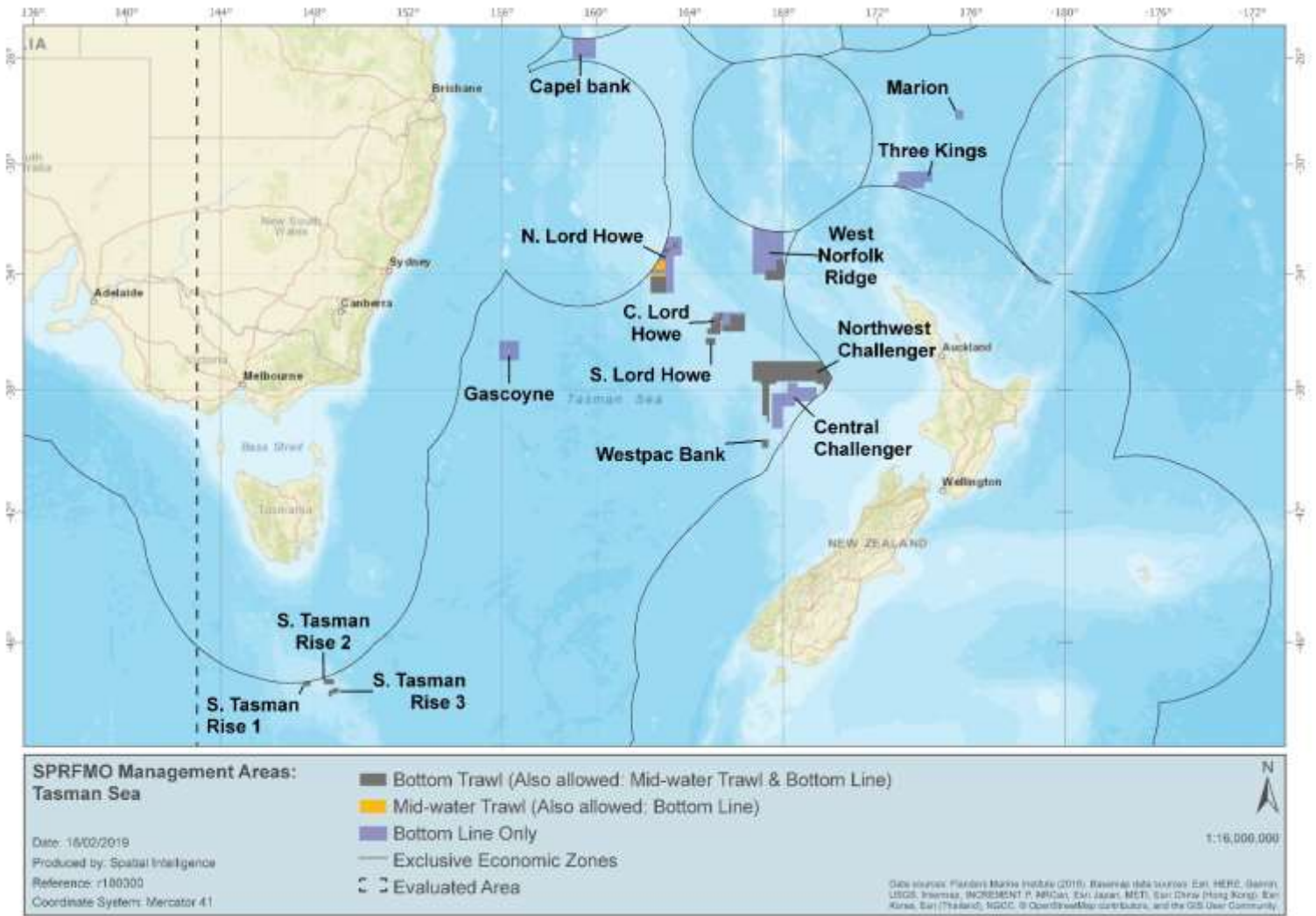


ANNEX 2: SPRFMO Bottom Fishing Management Areas for the Louisville Ridge





ANNEX 3: SPRFMO Bottom Fishing Management Areas for the Tasman Sea





ANNEX 4: Coordinates for Each Bottom Fishing Management Area⁹

a) Bottom Trawl Management Area coordinates

| Block Name | FMA | Method | Latitude | Longitude | EEZ Direction |
|---------------------|------------------|--------------|-------------|--------------|---------------|
| C. Lord Howe – West | C. Lord Howe | Bottom trawl | 35°21.000'S | 165°13.553'E | |
| C. Lord Howe – West | C. Lord Howe | Bottom trawl | 35°21.000'S | 165°24.000'E | |
| C. Lord Howe – West | C. Lord Howe | Bottom trawl | 35°36.000'S | 165°24.000'E | |
| C. Lord Howe – West | C. Lord Howe | Bottom trawl | 35°36.000'S | 165°18.000'E | |
| C. Lord Howe – West | C. Lord Howe | Bottom trawl | 36°06.000'S | 165°18.000'E | |
| C. Lord Howe – West | C. Lord Howe | Bottom trawl | 36°06.000'S | 164°46.000'E | |
| C. Lord Howe – West | C. Lord Howe | Bottom trawl | 35°54.000'S | 164°46.000'E | |
| C. Lord Howe – West | C. Lord Howe | Bottom trawl | 35°54.000'S | 164°54.000'E | |
| C. Lord Howe – West | C. Lord Howe | Bottom trawl | 35°31.000'S | 165°54.000'E | |
| C. Lord Howe – West | C. Lord Howe | Bottom trawl | 35°31.000'S | 165°13.550'E | |
| C. Lord Howe – East | C. Lord Howe | Bottom trawl | 35°26.000'S | 165°44.000'E | |
| C. Lord Howe – East | C. Lord Howe | Bottom trawl | 35°26.000'S | 166°21.915'E | |
| C. Lord Howe – East | C. Lord Howe | Bottom trawl | 35°47.000'S | 165°26.000'E | |
| C. Lord Howe – East | C. Lord Howe | Bottom trawl | 35°47.000'S | 165°44.000'E | |
| C. Lord Howe – East | C. Lord Howe | Bottom trawl | 36°00.500'S | 165°26.000'E | |
| C. Lord Howe – East | C. Lord Howe | Bottom trawl | 36°00.500'S | 166°21.915'E | |
| S. Lord Howe | C. Lord Howe | Bottom trawl | 36°13.460'S | 164°40.830'E | S. Lord Howe |
| S. Lord Howe | C. Lord Howe | Bottom trawl | 36°13.460'S | 165°06.050'E | S. Lord Howe |
| S. Lord Howe | C. Lord Howe | Bottom trawl | 36°26.800'S | 164°40.830'E | S. Lord Howe |
| S. Lord Howe | C. Lord Howe | Bottom trawl | 36°26.800'S | 165°06.050'E | S. Lord Howe |
| 01 | South Louisville | Bottom trawl | 47°40.000'S | 149°27.000'W | |
| 01 | South Louisville | Bottom trawl | 47°40.000'S | 150°00.000'W | |

⁹ For the avoidance of doubt, no Management Area shall include any area under within the exclusive economic zone of a Member, CNCP or non-Member.



| Block Name | FMA | Method | Latitude | Longitude | EEZ Direction |
|------------|------------------|--------------|-------------|--------------|---------------|
| 01 | South Louisville | Bottom trawl | 48°05.000'S | 149°27.000'W | |
| 01 | South Louisville | Bottom trawl | 48°05.000'S | 150°00.000'W | |
| 03 | South Louisville | Bottom trawl | 45°59.000'S | 154°07.224'W | |
| 03 | South Louisville | Bottom trawl | 45°59.000'S | 154°28.653'W | |
| 03 | South Louisville | Bottom trawl | 46°15.000'S | 154°07.224'W | |
| 03 | South Louisville | Bottom trawl | 46°15.000'S | 154°28.653'W | |
| 04 | South Louisville | Bottom trawl | 46°01.000'S | 155°40.000'W | |
| 04 | South Louisville | Bottom trawl | 46°01.000'S | 156°10.000'W | |
| 04 | South Louisville | Bottom trawl | 46°24.000'S | 155°40.000'W | |
| 04 | South Louisville | Bottom trawl | 46°24.000'S | 156°10.000'W | |
| 05 | South Louisville | Bottom trawl | 45°26.000'S | 156°30.000'W | |
| 05 | South Louisville | Bottom trawl | 45°26.000'S | 156°55.000'W | |
| 05 | South Louisville | Bottom trawl | 45°42.000'S | 156°30.000'W | |
| 05 | South Louisville | Bottom trawl | 45°42.000'S | 156°55.000'W | |
| 06 | South Louisville | Bottom trawl | 45°19.500'S | 157°19.000'W | |
| 06 | South Louisville | Bottom trawl | 45°19.500'S | 157°55.000'W | |
| 06 | South Louisville | Bottom trawl | 45°30.000'S | 157°19.000'W | |
| 06 | South Louisville | Bottom trawl | 45°30.000'S | 157°55.000'W | |
| 07 | South Louisville | Bottom trawl | 44°43.950'S | 158°18.000'W | |
| 07 | South Louisville | Bottom trawl | 44°43.950'S | 158°38.000'W | |
| 07 | South Louisville | Bottom trawl | 44°57.950'S | 158°18.000'W | |
| 07 | South Louisville | Bottom trawl | 44°57.950'S | 158°38.000'W | |
| 08 | South Louisville | Bottom trawl | 44°13.000'S | 159°43.000'W | |
| 08 | South Louisville | Bottom trawl | 44°13.000'S | 159°54.000'W | |
| 08 | South Louisville | Bottom trawl | 44°21.000'S | 159°43.000'W | |
| 08 | South Louisville | Bottom trawl | 44°21.000'S | 159°54.000'W | |
| 09 | South Louisville | Bottom trawl | 43°51.183'S | 160°29.235'W | |
| 09 | South Louisville | Bottom trawl | 43°51.183'S | 160°50.820'W | |



| Block Name | FMA | Method | Latitude | Longitude | EEZ Direction |
|------------|--------------------|--------------|-------------|--------------|---------------|
| 09 | South Louisville | Bottom trawl | 44°07.000'S | 160°29.235'W | |
| 09 | South Louisville | Bottom trawl | 44°07.000'S | 160°50.820'W | |
| 10 | South Louisville | Bottom trawl | 43°22.000'S | 161°21.770'W | |
| 10 | South Louisville | Bottom trawl | 43°22.000'S | 161°39.000'W | |
| 10 | South Louisville | Bottom trawl | 43°31.370'S | 161°10.170'W | |
| 10 | South Louisville | Bottom trawl | 43°31.370'S | 161°21.770'W | |
| 10 | South Louisville | Bottom trawl | 43°41.440'S | 161°10.170'W | |
| 10 | South Louisville | Bottom trawl | 43°41.440'S | 161°39.000'W | |
| 11 | South Louisville | Bottom trawl | 42°40.000'S | 161°48.000'W | |
| 11 | South Louisville | Bottom trawl | 42°40.000'S | 162°07.000'W | |
| 11 | South Louisville | Bottom trawl | 42°54.500'S | 161°48.000'W | |
| 11 | South Louisville | Bottom trawl | 42°54.500'S | 162°07.000'W | |
| 13 | Central Louisville | Bottom trawl | 41°45.000'S | 163°29.500'W | |
| 13 | Central Louisville | Bottom trawl | 41°45.000'S | 163°49.000'W | |
| 13 | Central Louisville | Bottom trawl | 42°00.000'S | 163°29.500'W | |
| 13 | Central Louisville | Bottom trawl | 42°00.000'S | 163°49.000'W | |
| 14 | Central Louisville | Bottom trawl | 41°17.000'S | 164°00.000'W | |
| 14 | Central Louisville | Bottom trawl | 41°17.000'S | 164°27.000'W | |
| 14 | Central Louisville | Bottom trawl | 41°40.000'S | 164°00.000'W | |
| 14 | Central Louisville | Bottom trawl | 41°40.000'S | 164°27.000'W | |
| 15 | Central Louisville | Bottom trawl | 40°32.897'S | 165°12.000'W | |
| 15 | Central Louisville | Bottom trawl | 40°32.897'S | 165°30.000'W | |
| 15 | Central Louisville | Bottom trawl | 40°42.000'S | 164°56.400'W | |
| 15 | Central Louisville | Bottom trawl | 40°42.000'S | 165°12.000'W | |
| 15 | Central Louisville | Bottom trawl | 40°48.000'S | 165°24.000'W | |
| 15 | Central Louisville | Bottom trawl | 40°48.000'S | 165°30.000'W | |
| 15 | Central Louisville | Bottom trawl | 40°54.000'S | 165°12.000'W | |
| 15 | Central Louisville | Bottom trawl | 40°54.000'S | 165°24.000'W | |



| Block Name | FMA | Method | Latitude | Longitude | EEZ Direction |
|----------------------|--------------------|--------------|-------------|--------------|---------------|
| 15 | Central Louisville | Bottom trawl | 41°06.000'S | 164°56.400'W | |
| 15 | Central Louisville | Bottom trawl | 41°06.000'S | 165°12.000'W | |
| 17 | North Louisville | Bottom trawl | 38°20.013'S | 167°29.000'W | |
| 17 | North Louisville | Bottom trawl | 38°20.013'S | 167°47.067'W | |
| 17 | North Louisville | Bottom trawl | 38°32.000'S | 167°29.000'W | |
| 17 | North Louisville | Bottom trawl | 38°32.000'S | 167°47.067'W | |
| 18 | North Louisville | Bottom trawl | 38°11.013'S | 168°01.785'W | |
| 18 | North Louisville | Bottom trawl | 38°11.013'S | 168°20.000'W | |
| 18 | North Louisville | Bottom trawl | 38°40.000'S | 168°01.785'W | |
| 18 | North Louisville | Bottom trawl | 38°40.000'S | 168°20.000'W | |
| 22 | North Louisville | Bottom trawl | 36°45.000'S | 169°30.000'W | |
| | North Louisville | | | | |
| 22 | North Louisville | Bottom trawl | 36°45.000'S | 170°00.000'W | |
| 22 | North Louisville | Bottom trawl | 37°08.000'S | 169°30.000'W | |
| 22 | North Louisville | Bottom trawl | 37°08.000'S | 170°00.000'W | |
| 23 | North Louisville | Bottom trawl | 36°00.000'S | 169°22.000'W | |
| 23 | North Louisville | Bottom trawl | 36°00.000'S | 169°40.000'W | |
| 23 | North Louisville | Bottom trawl | 36°10.000'S | 169°22.000'W | |
| 23 | North Louisville | Bottom trawl | 36°10.000'S | 169°40.000'W | |
| N. Lord Howe - South | N. Lord Howe Rise | Bottom trawl | 34°04.035'S | 162°20.000'E | |
| N. Lord Howe - South | N. Lord Howe Rise | Bottom trawl | 34°04.035'S | 163°00.000'E | |
| N. Lord Howe - South | N. Lord Howe Rise | Bottom trawl | 34°40.000'S | 162°20.000'E | |
| N. Lord Howe - South | N. Lord Howe Rise | Bottom trawl | 34°40.000'S | 163°00.000'E | |
| N. Lord Howe - East | N. Lord Howe Rise | Bottom trawl | 32°54.650'S | 163°16.615'E | |
| N. Lord Howe - East | N. Lord Howe Rise | Bottom trawl | 32°54.650'S | 163°26.380'E | |
| N. Lord Howe - East | N. Lord Howe Rise | Bottom trawl | 33°04.400'S | 163°16.615'E | |
| N. Lord Howe - East | N. Lord Howe Rise | Bottom trawl | 33°04.400'S | 163°26.380'E | |
| N. Lord Howe - West | N. Lord Howe Rise | Bottom trawl | 33°16.400'S | 162°52.540'E | |



| Block Name | FMA | Method | Latitude | Longitude | EEZ Direction |
|----------------------|----------------------|--------------|-------------|--------------|--------------------------------------|
| N. Lord Howe - West | N. Lord Howe Rise | Bottom trawl | 33°09.296'S | 162°52.540'E | North-east along the Australian EEZ |
| N. Lord Howe - West | N. Lord Howe Rise | Bottom trawl | 33°04.400'S | 162°54.941'E | |
| N. Lord Howe - West | N. Lord Howe Rise | Bottom trawl | 33°04.400'S | 163°10.540'E | |
| N. Lord Howe - West | N. Lord Howe Rise | Bottom trawl | 33°10.400'S | 163°10.540'E | |
| N. Lord Howe - West | N. Lord Howe Rise | Bottom trawl | 33°10.400'S | 163°04.540'E | |
| N. Lord Howe - West | N. Lord Howe Rise | Bottom trawl | 33°16.400'S | 163°04.540'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 38°00.000'S | 169°47.848'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 38°00.000'S | 169°42.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°48.000'S | 169°42.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°48.000'S | 169°24.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°42.000'S | 169°24.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°42.000'S | 167°42.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°48.000'S | 167°42.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°48.000'S | 167°24.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 39°06.000'S | 167°24.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 39°06.000'S | 167°18.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 38°52.000'S | 167°18.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 38°52.000'S | 167°06.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°48.000'S | 167°06.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°48.000'S | 167°00.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°42.000'S | 167°00.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°42.000'S | 166°40.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°01.333'S | 166°40.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°01.333'S | 169°36.706'E | South-east along the New Zealand EEZ |



| Block Name | FMA | Method | Latitude | Longitude | EEZ Direction |
|------------------------|--------------------------------|--------------|-------------|--------------|--|
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°29.902'S | 170°00.000'E | Due south to a point on the New Zealand EEZ |
| Northwest Challenger | Northwest Challenger | Bottom trawl | 37°41.589'S | 170°00.000'E | South-west along the New Zealand EEZ |
| S.Tasman Rise | S. Tasman Rise 1 | Bottom trawl | 47°08.280'S | 147°50.200'E | Start on the Australian EEZ |
| S. Tasman Rise 1 Box 1 | S. Tasman RiseS. Tasman Rise 1 | Bottom trawl | 47°17.370'S | 147°50.200'E | |
| S. Tasman Rise 1 Box 1 | S. Tasman RiseS. Tasman Rise 1 | Bottom trawl | 47°17.370'S | 147°32.300'E | |
| S. Tasman Rise 1 Box 1 | S. Tasman RiseS. Tasman Rise 1 | Bottom trawl | 47°10.197'S | 147°32.300'E | East along the Australian EEZ to the start point |
| S. Tasman Rise 1 Box 1 | S. Tasman RiseS. Tasman Rise 2 | Bottom trawl | 47°05.160'S | 148°24.165'E | |
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 2 | Bottom trawl | 47°05.160'S | 148°50.670'E | |
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 2 | Bottom trawl | 47°13.780'S | 148°24.165'E | |
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 2 | Bottom trawl | 47°13.780'S | 148°50.670'E | |
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 3 | Bottom trawl | 47°21.000'S | 148°45.610'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom trawl | 47°21.000'S | 149°03.200'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom trawl | 47°24.015'S | 148°37.235'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom trawl | 47°24.015'S | 148°45.610'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom trawl | 47°24.800'S | 149°03.200'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom trawl | 47°30.320'S | 148°44.390'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom trawl | 47°30.320'S | 148°57.650'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom trawl | 47°35.205'S | 148°37.235'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom trawl | 47°35.205'S | 148°44.390'E | |
| S. Tasman Rise 3 Box 3 | S. Lord Howe | Bottom trawl | 35°31.000'S | 164°54.000'E | |



| Block Name | FMA | Method | Latitude | Longitude | EEZ Direction |
|----------------------|---------------------------------|--------------|-------------|--------------|---------------|
| S. Lord Howe - West | S. Lord Howe | Bottom trawl | 36°13.460'S | 164°40.830'E | |
| S. Lord Howe - South | S. Lord Howe | Bottom trawl | 36°13.460'S | 165°06.050'E | |
| S. Lord Howe - South | S. Lord Howe | Bottom trawl | 36°26.800'S | 164°40.830'E | |
| S. Lord Howe - South | S. Lord Howe | Bottom trawl | 36°26.800'S | 165°06.050'E | |
| Wanganella | West Norfolk West Norfolk Ridge | Bottom trawl | 33°28.000'S | 167°42.000'E | |
| Wanganella | West Norfolk West Norfolk Ridge | Bottom trawl | 33°28.000'S | 168°00.000'E | |
| Wanganella | West Norfolk West Norfolk Ridge | Bottom trawl | 33°52.000'S | 167°13.000'E | |
| Wanganella | West Norfolk West Norfolk Ridge | Bottom trawl | 33°52.000'S | 167°42.000'E | |
| Wanganella | West Norfolk West Norfolk Ridge | Bottom trawl | 34°12.000'S | 167°13.000'E | |
| Wanganella | West Norfolk West Norfolk Ridge | Bottom trawl | 34°12.000'S | 168°00.000'E | |
| Westpac Bank | Westpac Bank | Bottom trawl | 39°39.000'S | 167°05.000'E | |
| Westpac Bank | Westpac Bank | Bottom trawl | 39°39.000'S | 167°21.090'E | |
| Westpac Bank | Westpac Bank | Bottom trawl | 39°55.000'S | 167°05.000'E | |
| Westpac Bank | Westpac Bank | Bottom trawl | 39°55.000'S | 167°21.090'E | |



b) Mid-water Trawl Management Area coordinates

| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|--|--------------|-----------------|-------------|--------------|---------------|
| CS. Lord Howe - East | C. Lord Howe | Mid-water trawl | 35°26.000'S | 165°44.000'E | |
| C. Lord Howe - East S. Lord Howe - East | C. Lord Howe | Mid-water trawl | 35°26.000'S | 166°21.915'E | |
| C. Lord Howe - East S. Lord Howe - East | C. Lord Howe | Mid-water trawl | 35°47.000'S | 165°26.000'E | |
| C. Lord Howe - East S. Lord Howe - East | C. Lord Howe | Mid-water trawl | 35°47.000'S | 165°44.000'E | |
| C. Lord Howe - East S. Lord Howe - East | C. Lord Howe | Mid-water trawl | 36°00.500'S | 165°26.000'E | |
| C. Lord Howe - East S. Lord Howe - East | C. Lord Howe | Mid-water trawl | 36°00.500'S | 166°21.915'E | |
| C. Lord Howe - West S. Lord Howe - West | C. Lord Howe | Mid-water trawl | 35°21.000'S | 165°13.550'E | |
| C. Lord Howe - West S. Lord Howe - West | C. Lord Howe | Mid-water trawl | 35°21.000'S | 165°24.000'E | |
| C. Lord Howe - West S. Lord Howe - West | C. Lord Howe | Mid-water trawl | 35°31.000'S | 164°54.000'E | |
| C. Lord Howe - West S. Lord Howe - West | C. Lord Howe | Mid-water trawl | 35°31.000'S | 165°13.550'E | |
| C. Lord Howe - West S. Lord Howe - West | C. Lord Howe | Mid-water trawl | 35°40.383'S | 165°18.000'E | |
| C. Lord Howe - West S. Lord Howe - West | C. Lord Howe | Mid-water trawl | 35°40.383'S | 165°24.000'E | |
| C. Lord Howe - West S. Lord Howe - West | C. Lord Howe | Mid-water trawl | 35°54.000'S | 164°46.000'E | |
| C. Lord Howe - West S. Lord Howe - West | C. Lord Howe | Mid-water trawl | 35°54.000'S | 164°54.000'E | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|--|--------------------------------------|-----------------|-------------|--------------|---------------|
| C. Lord Howe - West S. Lord Howe - West | C. Lord Howe | Mid-water trawl | 36°06.000'S | 164°46.000'E | |
| CS. Lord Howe - West | C. Lord Howe | Mid-water trawl | 36°06.000'S | 165°18.000'E | |
| S. Lord Howe | C. Lord Howe | Mid-water trawl | 36°13.460'S | 164°40.830'E | S. Lord Howe |
| S. Lord Howe | C. Lord Howe | Mid-water trawl | 36°13.460'S | 165°06.050'E | S. Lord Howe |
| S. Lord Howe | C. Lord Howe | Mid-water trawl | 36°26.800'S | 164°40.830'E | S. Lord Howe |
| S. Lord Howe | C. Lord Howe | Mid-water trawl | 36°26.800'S | 165°06.050'E | S. Lord Howe |
| 1 | South Louisville | Mid-water trawl | 47°40.000'S | 149°27.000'W | |
| 1 | Louisville Ridge | Mid-water trawl | 47°40.000'S | 150°00.000'W | |
| 1 | South Louisville Louisville Ridge | Mid-water trawl | 48°05.000'S | 149°27.000'W | |
| 1 | South Louisville Louisville Ridge | Mid-water trawl | 48°05.000'S | 150°00.000'W | |
| 3 | South Louisville Louisville Ridge | Mid-water trawl | 45°59.000'S | 154°07.224'W | |
| 3 | South Louisville Louisville Ridge | Mid-water trawl | 45°59.000'S | 154°28.653'W | |
| 3 | South Louisville Louisville Ridge | Mid-water trawl | 46°15.000'S | 154°07.224'W | |
| 3 | South Louisville Louisville Ridge | Mid-water trawl | 46°15.000'S | 154°28.653'W | |
| 4 | South Louisville Louisville Ridge | Mid-water trawl | 46°01.000'S | 155°40.000'W | |
| 4 | South Louisville Louisville Ridge | Mid-water trawl | 46°01.000'S | 156°10.000'W | |
| 4 | South Louisville Louisville Ridge | Mid-water trawl | 46°24.000'S | 155°40.000'W | |
| 4 | South Louisville Louisville Ridge | Mid-water trawl | 46°24.000'S | 156°10.000'W | |
| 5 | South Louisville Louisville Ridge | Mid-water trawl | 45°26.000'S | 156°30.000'W | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|------------|--------------------------------------|--------------------|-------------|--------------|---------------|
| 5 | South Louisville Louisville Ridge | Mid-water trawl | 45°26.000'S | 156°55.000'W | |
| 5 | South Louisville Louisville Ridge | Mid-water trawl | 45°42.000'S | 156°30.000'W | |
| 5 | South Louisville Louisville Ridge | Mid-water trawl | 45°42.000'S | 156°55.000'W | |
| 6 | South Louisville Louisville Ridge | Mid-water trawl | 45°19.500'S | 157°19.000'W | |
| 6 | South Louisville Louisville Ridge | Mid-water trawl | 45°19.500'S | 157°55.000'W | |
| 6 | South Louisville Louisville Ridge | Mid-water trawl | 45°30.000'S | 157°19.000'W | |
| 6 | South Louisville Louisville Ridge | Mid-water trawl | 45°30.000'S | 157°55.000'W | |
| 7 | South Louisville Louisville Ridge | Mid-water trawl | 44°43.950'S | 158°18.000'W | |
| 7 | South Louisville Louisville Ridge | Mid-water trawl | 44°43.950'S | 158°38.000'W | |
| 7 | South Louisville Louisville Ridge | Mid-water trawl | 44°57.950'S | 158°18.000'W | |
| 7 | South Louisville Louisville Ridge | Mid-water trawl | 44°57.950'S | 158°38.000'W | |
| 8 | South Louisville Louisville Ridge | Mid-water trawl | 44°13.000'S | 159°43.000'W | |
| 8 | South Louisville Louisville Ridge | Mid-water trawl | 44°13.000'S | 159°54.000'W | |
| 8 | South Louisville Louisville Ridge | Mid-water trawl | 44°21.000'S | 159°43.000'W | |
| 8 | South Louisville Louisville Ridge | Mid-water trawl | 44°21.000'S | 159°54.000'W | |
| 9 | South Louisville Louisville Ridge | Mid-water trawl | 43°51.183'S | 160°29.235'W | |
| 9 | South Louisville Louisville Ridge | Mid-water trawl | 43°51.183'S | 160°50.820'W | |
| 9 | South Louisville Louisville Ridge | Mid-water trawl | 44°07.000'S | 160°29.235'W | |
| 9 | South Louisville Louisville Ridge | Mid-water trawl | 44°07.000'S | 160°50.820'W | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|------------|--|--------------------|-------------|--------------|---------------|
| 10 | South Louisville Louisville Ridge | Mid-water trawl | 43°22.000'S | 161°21.770'W | |
| 10 | South Louisville Louisville Ridge | Mid-water trawl | 43°22.000'S | 161°39.000'W | |
| 10 | South Louisville Louisville Ridge | Mid-water trawl | 43°31.370'S | 161°10.170'W | |
| 10 | South Louisville Louisville Ridge | Mid-water trawl | 43°31.370'S | 161°21.770'W | |
| 10 | South Louisville Louisville Ridge | Mid-water trawl | 43°41.440'S | 161°10.170'W | |
| 10 | South Louisville Louisville Ridge | Mid-water trawl | 43°41.440'S | 161°39.000'W | |
| 11 | South Louisville Louisville Ridge | Mid-water trawl | 42°40.000'S | 161°48.000'W | |
| 11 | South Louisville Louisville Ridge | Mid-water trawl | 42°40.000'S | 162°07.000'W | |
| 11 | South Louisville Louisville Ridge | Mid-water trawl | 42°54.500'S | 161°48.000'W | |
| 11 | South Louisville Louisville Ridge | Mid-water trawl | 42°54.500'S | 162°07.000'W | |
| 13 | Central Louisville Ridge | Mid-water trawl | 41°45.000'S | 163°29.500'W | |
| 13 | Central Louisville Louisville Ridge | Mid-water trawl | 41°45.000'S | 163°49.000'W | |
| 13 | Central Louisville Louisville Ridge | Mid-water trawl | 42°00.000'S | 163°29.500'W | |
| 13 | Central Louisville Louisville Ridge | Mid-water trawl | 42°00.000'S | 163°49.000'W | |
| 14 | Central Louisville Louisville Ridge | Mid-water trawl | 41°17.000'S | 164°00.000'W | |
| 14 | Central Louisville Louisville Ridge | Mid-water trawl | 41°17.000'S | 164°27.000'W | |
| 14 | Central Louisville Louisville Ridge | Mid-water trawl | 41°40.000'S | 164°00.000'W | |
| 14 | Central Louisville Louisville Ridge | Mid-water trawl | 41°40.000'S | 164°27.000'W | |
| 15 | Central Louisville Louisville Ridge | Mid-water trawl | 40°32.897'S | 165°12.000'W | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|------------|--|--------------------|-------------|--------------|---------------|
| 15 | Central Louisville Louisville Ridge | Mid-water trawl | 40°32.897'S | 165°30.000'W | |
| 15 | Central Louisville Louisville Ridge | Mid-water trawl | 40°42.000'S | 164°56.400'W | |
| 15 | Central Louisville Louisville Ridge | Mid-water trawl | 40°42.000'S | 165°12.000'W | |
| 15 | Central Louisville Louisville Ridge | Mid-water trawl | 40°48.000'S | 165°24.000'W | |
| 15 | Central Louisville Louisville Ridge | Mid-water trawl | 40°48.000'S | 165°30.000'W | |
| 15 | Central Louisville Louisville Ridge | Mid-water trawl | 40°54.000'S | 165°12.000'W | |
| 15 | Central Louisville Louisville Ridge | Mid-water trawl | 40°54.000'S | 165°24.000'W | |
| 15 | Central Louisville Louisville Ridge | Mid-water trawl | 41°06.000'S | 164°56.400'W | |
| 15 | Central Louisville Louisville Ridge | Mid-water trawl | 41°06.000'S | 165°12.000'W | |
| 17 | North Louisville Ridge | Mid-water trawl | 38°20.013'S | 167°29.000'W | |
| 17 | North Louisville Louisville Ridge | Mid-water trawl | 38°20.013'S | 167°47.067'W | |
| 17 | North Louisville Louisville Ridge | Mid-water trawl | 38°32.000'S | 167°29.000'W | |
| 17 | North Louisville Louisville Ridge | Mid-water trawl | 38°32.000'S | 167°47.067'W | |
| 18 | North Louisville Louisville Ridge | Mid-water trawl | 38°11.013'S | 168°01.785'W | |
| 18 | North Louisville Louisville Ridge | Mid-water trawl | 38°11.013'S | 168°20.000'W | |
| 18 | North Louisville Louisville Ridge | Mid-water trawl | 38°40.000'S | 168°01.785'W | |
| 18 | North Louisville Louisville Ridge | Mid-water trawl | 38°40.000'S | 168°20.000'W | |
| 22 | North Louisville Louisville Ridge | Mid-water trawl | 36°45.000'S | 169°30.000'W | |
| 22 | North Louisville Louisville Ridge | Mid-water trawl | 36°45.000'S | 170°00.000'W | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|---------------------------|--------------------------------------|--------------------|-------------|--------------|-------------------------------------|
| 22 | North Louisville Louisville Ridge | Mid-water trawl | 37°08.000'S | 169°30.000'W | |
| 22 | North Louisville Louisville Ridge | Mid-water trawl | 37°08.000'S | 170°00.000'W | |
| 23 | North Louisville Louisville Ridge | Mid-water trawl | 36°00.000'S | 169°22.000'W | |
| 23 | North Louisville Louisville Ridge | Mid-water trawl | 36°00.000'S | 169°40.000'W | |
| 23 | North Louisville Louisville Ridge | Mid-water trawl | 36°10.000'S | 169°22.000'W | |
| 23 | North Louisville Louisville Ridge | Mid-water trawl | 36°10.000'S | 169°40.000'W | |
| N. Lord Howe - Central | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 33°49.630'S | 162°25.670'E | |
| N. Lord Howe - Central | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 33°48.622'S | 162°25.670'E | North-east along the Australian EEZ |
| N. Lord Howe - Central | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 33°32.530'S | 162°38.450'E | |
| N. Lord Howe - Central | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 33°32.530'S | 162°57.770'E | |
| N. Lord Howe - Central | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 33°49.630'S | 162°57.770'E | |
| N. Lord Howe - East | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 32°54.650'S | 163°16.615'E | |
| N. Lord Howe - East | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 32°54.650'S | 163°26.380'E | |
| N. Lord Howe - East | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 33°04.400'S | 163°16.615'E | |
| N. Lord Howe - East | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 33°04.400'S | 163°26.380'E | |
| N. Lord Howe - South | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 33°58.670'S | 162°20.000'E | |
| N. Lord Howe - South | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 33°58.670'S | 163°00.000'E | |
| N. Lord Howe - South | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 34°40.000'S | 162°20.000'E | |
| N. Lord Howe - South | N. Lord Howe RiseN. Lord Howe | Mid-water trawl | 34°40.000'S | 163°00.000'E | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|----------------------|-----------------------------------|-----------------|-------------|--------------|---|
| N. Lord Howe - West | N. Lord Howe Rise N. Lord Howe | Mid-water trawl | 33°16.400'S | 162°52.540'E | |
| N. Lord Howe - West | N. Lord Howe Rise N. Lord Howe | Mid-water trawl | 33°09.296'S | 162°52.540'E | North-east along the Australian EEZ |
| N. Lord Howe - West | N. Lord Howe Rise N. Lord Howe | Mid-water trawl | 33°04.400'S | 162°54.941'E | |
| N. Lord Howe - West | N. Lord Howe Rise N. Lord Howe | Mid-water trawl | 33°04.400'S | 163°10.540'E | |
| N. Lord Howe - West | N. Lord Howe Rise N. Lord Howe | Mid-water trawl | 33°10.400'S | 163°04.540'E | |
| N. Lord Howe - West | N. Lord Howe Rise N. Lord Howe | Mid-water trawl | 33°10.400'S | 163°10.540'E | |
| N. Lord Howe - West | N. Lord Howe Rise N. Lord Howe | Mid-water trawl | 33°16.400'S | 163°04.540'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°01.333'S | 166°40.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°01.333'S | 169°36.706'E | South-east along the New Zealand EEZ |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°29.902'S | 170°00.000'E | Due south to a point on the New Zealand EEZ |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°41.589'S | 170°00.000'E | South-west along the New Zealand EEZ |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 38°00.000'S | 169°47.848'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 38°00.000'S | 169°42.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°48.000'S | 169°42.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°48.000'S | 169°24.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°42.000'S | 169°24.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°42.000'S | 167°42.004'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°48.000'S | 167°42.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°48.000'S | 167°24.000'E | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|------------------------|--------------------------------|-----------------|-------------|--------------|--|
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 39°06.000'S | 167°24.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 39°06.000'S | 167°18.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 38°52.000'S | 167°18.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 38°52.000'S | 167°06.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°48.000'S | 167°06.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°48.000'S | 167°00.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°42.000'S | 167°00.000'E | |
| Northwest Challenger | Northwest Challenger | Mid-water trawl | 37°42.000'S | 166°40.000'E | |
| S. Lord Howe - South | S. Lord Howe | Mid-water trawl | 36°13.460'S | 164°40.830'E | |
| S. Lord Howe - South | S. Lord Howe | Mid-water trawl | 36°13.460'S | 165°06.050'E | |
| S. Lord Howe - South | S. Lord Howe | Mid-water trawl | 36°26.800'S | 164°40.830'E | |
| S. Lord Howe - South | S. Lord Howe | Mid-water trawl | 36°26.800'S | 165°06.050'E | |
| S. Tasman Rise 1 Box 1 | S. Tasman Rise 1 | Mid-water trawl | 47°08.280'S | 147°50.200'E | Start on the Australian EEZ |
| S. Tasman Rise 1 Box 1 | S. Tasman RiseS. Tasman Rise 1 | Mid-water trawl | 47°17.370'S | 147°50.200'E | |
| S. Tasman Rise 1 Box 1 | S. Tasman RiseS. Tasman Rise 1 | Mid-water trawl | 47°17.370'S | 147°32.300'E | |
| S. Tasman Rise 1 Box 1 | S. Tasman RiseS. Tasman Rise 1 | Mid-water trawl | 47°10.197'S | 147°32.300'E | East along the Australian EEZ to the start point |
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 2 | Mid-water trawl | 47°05.160'S | 148°24.165'E | |
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 2 | Mid-water trawl | 47°05.160'S | 148°50.670'E | |
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 2 | Mid-water trawl | 47°13.780'S | 148°24.165'E | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|---------------------------|-----------------------------------|--------------------|-------------|--------------|---------------|
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 2 | Mid-water trawl | 47°13.780'S | 148°50.670'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Mid-water trawl | 47°21.000'S | 148°45.610'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Mid-water trawl | 47°21.000'S | 149°03.200'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Mid-water trawl | 47°24.015'S | 148°37.235'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Mid-water trawl | 47°24.015'S | 148°45.610'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Mid-water trawl | 47°24.800'S | 149°03.200'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Mid-water trawl | 47°30.320'S | 148°44.390'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Mid-water trawl | 47°30.320'S | 148°57.650'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Mid-water trawl | 47°35.205'S | 148°37.235'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Mid-water trawl | 47°35.205'S | 148°44.390'E | |
| Wanganella | West Norfolk Ridge | Mid-water trawl | 33°28.000'S | 167°42.000'E | |
| Wanganella | West Norfolk Ridge | Mid-water trawl | 33°28.000'S | 168°00.000'E | |
| Wanganella | West Norfolk Ridge | Mid-water trawl | 33°52.000'S | 167°13.000'E | |
| Wanganella | West Norfolk Ridge | Mid-water trawl | 33°52.000'S | 167°42.000'E | |
| Wanganella | West Norfolk Ridge | Mid-water trawl | 34°12.000'S | 167°13.000'E | |
| Wanganella | West Norfolk Ridge | Mid-water trawl | 34°12.000'S | 168°00.000'E | |
| Westpac Bank | Westpac Bank | Mid-water trawl | 39°39.000'S | 167°05.000'E | |
| Westpac Bank | Westpac Bank | Mid-water trawl | 39°39.000'S | 167°21.090'E | |
| Westpac Bank | Westpac Bank | Mid-water trawl | 39°55.000'S | 167°05.000'E | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|--------------|--------------|-----------------|-------------|--------------|---------------|
| Westpac Bank | Westpac Bank | Mid-water trawl | 39°55.000'S | 167°21.090'E | |



c) Bottom Line Management Area coordinates

| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|----------------------|--------------|-------------|-------------|--------------|---------------|
| Carpel bank | | Bottom Line | 25°14.950'S | 159°00.285'E | |
| Carpel bank | | Bottom Line | 25°14.950'S | 160°00.000'E | |
| Carpel bank | | Bottom Line | 25°59.640'S | 159°00.285'E | |
| Carpel bank | | Bottom Line | 25°59.640'S | 160°00.000'E | |
| Gascoyne | | Bottom Line | 36°19.950'S | 155°53.630'E | |
| Gascoyne | | Bottom Line | 36°19.950'S | 156°43.770'E | |
| Gascoyne | | Bottom Line | 36°59.440'S | 155°53.630'E | |
| Gascoyne | | Bottom Line | 36°59.440'S | 156°43.770'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 35°20.000'S | 165°00.000'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 35°20.000'S | 166°21.915'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 35°31.000'S | 164°54.000'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 35°31.000'S | 165°00.000'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 35°54.000'S | 164°46.000'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 35°54.000'S | 164°54.000'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 36°00.500'S | 165°18.000'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 36°00.500'S | 166°21.915'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 36°06.000'S | 164°46.000'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 36°06.000'S | 165°18.000'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 36°13.460'S | 164°40.830'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 36°13.460'S | 165°06.050'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 36°26.800'S | 164°40.830'E | |
| S. Lord Howe | C. Lord Howe | Bottom Line | 36°26.800'S | 165°06.050'E | |
| North Lord Howe Rise | Capel bank | Bottom Line | 25°14.950'S | 159°00.285'E | |
| North Lord Howe Rise | Capel bank | Bottom Line | 25°14.950'S | 160°00.000'E | |
| North Lord Howe Rise | Capel bank | Bottom Line | 25°59.640'S | 159°00.285'E | |
| North Lord Howe Rise | Capel bank | Bottom Line | 25°59.640'S | 160°00.000'E | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|--------------------|--------------------------------------|-------------|-------------|--------------|--------------------------------------|
| Central Challenger | Central Challenger | Bottom Line | 37°45.615'S | 168°35.830'E | |
| Central Challenger | Central Challenger | Bottom Line | 37°55.230'S | 168°35.830'E | |
| Central Challenger | Central Challenger | Bottom Line | 37°55.230'S | 169°25.400'E | |
| Central Challenger | Central Challenger | Bottom Line | 38°13.830'S | 169°25.400'E | South-west along the New Zealand EEZ |
| Central Challenger | Central Challenger | Bottom Line | 38°23.165'S | 169°11.967'E | |
| Central Challenger | Central Challenger | Bottom Line | 38°23.165'S | 168°30.780'E | |
| Central Challenger | Central Challenger | Bottom Line | 38°32.750'S | 168°30.780'E | |
| Central Challenger | Central Challenger | Bottom Line | 38°32.750'S | 167°57.950'E | |
| Central Challenger | Central Challenger | Bottom Line | 39°17.180'S | 167°57.950'E | |
| Central Challenger | Central Challenger | Bottom Line | 39°17.180'S | 167°30.500'E | |
| Central Challenger | Central Challenger | Bottom Line | 38°06.430'S | 167°30.500'E | |
| Central Challenger | Central Challenger | Bottom Line | 38°06.430'S | 168°09.833'E | |
| Central Challenger | Central Challenger | Bottom Line | 37°45.615'S | 168°09.833'E | |
| Gascoyne | Gascoyne | Bottom Line | 36°19.950'S | 155°53.630'E | |
| Gascoyne | Gascoyne | Bottom Line | 36°19.950'S | 156°43.770'E | |
| Gascoyne | Gascoyne | Bottom Line | 36°59.440'S | 155°53.630'E | |
| Gascoyne | Gascoyne | Bottom Line | 36°59.440'S | 156°43.770'E | |
| 1 | South Louisville Louisville Ridge | Bottom Line | 47°40.000'S | 149°27.000'W | |
| 1 | South Louisville Louisville Ridge | Bottom Line | 47°40.000'S | 150°00.000'W | |
| 1 | South Louisville Louisville Ridge | Bottom Line | 48°05.000'S | 149°27.000'W | |
| 1 | South Louisville Louisville Ridge | Bottom Line | 48°05.000'S | 150°00.000'W | |
| 3 | South Louisville Louisville Ridge | Bottom Line | 45°59.000'S | 154°07.224'W | |
| 3 | South Louisville Louisville Ridge | Bottom Line | 45°59.000'S | 154°28.653'W | |
| 3 | South Louisville Louisville Ridge | Bottom Line | 46°15.000'S | 154°07.224'W | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|------------|--------------------------------------|-------------|-------------|--------------|---------------|
| 3 | South Louisville Louisville Ridge | Bottom Line | 46°15.000'S | 154°28.653'W | |
| 4 | South Louisville Louisville Ridge | Bottom Line | 46°01.000'S | 155°40.000'W | |
| 4 | South Louisville Louisville Ridge | Bottom Line | 46°01.000'S | 156°10.000'W | |
| 4 | South Louisville Louisville Ridge | Bottom Line | 46°24.000'S | 155°40.000'W | |
| 4 | South Louisville Louisville Ridge | Bottom Line | 46°24.000'S | 156°10.000'W | |
| 5 | South Louisville Louisville Ridge | Bottom Line | 45°26.000'S | 156°30.000'W | |
| 5 | South Louisville Louisville Ridge | Bottom Line | 45°26.000'S | 156°55.000'W | |
| 5 | South Louisville Louisville Ridge | Bottom Line | 45°42.000'S | 156°30.000'W | |
| 5 | South Louisville Louisville Ridge | Bottom Line | 45°42.000'S | 156°55.000'W | |
| 6 | South Louisville Louisville Ridge | Bottom Line | 45°19.500'S | 157°19.000'W | |
| 6 | South Louisville Louisville Ridge | Bottom Line | 45°19.500'S | 157°55.000'W | |
| 6 | South Louisville Louisville Ridge | Bottom Line | 45°30.000'S | 157°19.000'W | |
| 6 | South Louisville Louisville Ridge | Bottom Line | 45°30.000'S | 157°55.000'W | |
| 7 | South Louisville Louisville Ridge | Bottom Line | 44°43.950'S | 158°18.000'W | |
| 7 | South Louisville Louisville Ridge | Bottom Line | 44°43.950'S | 158°38.000'W | |
| 7 | South Louisville Louisville Ridge | Bottom Line | 44°57.950'S | 158°18.000'W | |
| 7 | South Louisville Louisville Ridge | Bottom Line | 44°57.950'S | 158°38.000'W | |
| 8 | South Louisville Louisville Ridge | Bottom Line | 44°13.000'S | 159°43.000'W | |
| 8 | South Louisville Louisville Ridge | Bottom Line | 44°13.000'S | 159°54.000'W | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|------------|--|-------------|-------------|--------------|---------------|
| 8 | South Louisville Louisville Ridge | Bottom Line | 44°21.000'S | 159°43.000'W | |
| 8 | South Louisville Louisville Ridge | Bottom Line | 44°21.000'S | 159°54.000'W | |
| 9 | South Louisville Louisville Ridge | Bottom Line | 43°51.183'S | 160°29.235'W | |
| 9 | South Louisville Louisville Ridge | Bottom Line | 43°51.183'S | 160°50.820'W | |
| 9 | South Louisville Louisville Ridge | Bottom Line | 44°07.000'S | 160°29.235'W | |
| 9 | South Louisville Louisville Ridge | Bottom Line | 44°07.000'S | 160°50.820'W | |
| 10 | South Louisville Louisville Ridge | Bottom Line | 43°22.000'S | 161°21.770'W | |
| 10 | South Louisville Louisville Ridge | Bottom Line | 43°22.000'S | 161°39.000'W | |
| 10 | South Louisville Louisville Ridge | Bottom Line | 43°31.370'S | 161°10.170'W | |
| 10 | South Louisville Louisville Ridge | Bottom Line | 43°31.370'S | 161°21.770'W | |
| 10 | South Louisville Louisville Ridge | Bottom Line | 43°41.440'S | 161°10.170'W | |
| 10 | South Louisville Louisville Ridge | Bottom Line | 43°41.440'S | 161°39.000'W | |
| 11 | South Louisville Louisville Ridge | Bottom Line | 42°40.000'S | 161°48.000'W | |
| 11 | South Louisville Louisville Ridge | Bottom Line | 42°40.000'S | 162°07.000'W | |
| 11 | South Louisville Louisville Ridge | Bottom Line | 42°54.500'S | 161°48.000'W | |
| 11 | South Louisville Louisville Ridge | Bottom Line | 42°54.500'S | 162°07.000'W | |
| 13 | Central Louisville Louisville Ridge | Bottom Line | 41°45.000'S | 163°29.500'W | |
| 13 | Central Louisville Louisville Ridge | Bottom Line | 41°45.000'S | 163°49.000'W | |
| 13 | Central Louisville Louisville Ridge | Bottom Line | 42°00.000'S | 163°29.500'W | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|------------|--|-------------|-------------|--------------|---------------|
| 13 | Central Louisville Louisville Ridge | Bottom Line | 42°00.000'S | 163°49.000'W | |
| 14 | Central Louisville Louisville Ridge | Bottom Line | 41°17.000'S | 164°00.000'W | |
| 14 | Central Louisville Louisville Ridge | Bottom Line | 41°17.000'S | 164°27.000'W | |
| 14 | Central Louisville Louisville Ridge | Bottom Line | 41°40.000'S | 164°00.000'W | |
| 14 | Central Louisville Louisville Ridge | Bottom Line | 41°40.000'S | 164°27.000'W | |
| 15 | Central Louisville Louisville Ridge | Bottom Line | 40°32.897'S | 165°12.000'W | |
| 15 | Central Louisville Louisville Ridge | Bottom Line | 40°32.897'S | 165°30.000'W | |
| 15 | Central Louisville Louisville Ridge | Bottom Line | 40°42.000'S | 164°56.400'W | |
| 15 | Central Louisville Louisville Ridge | Bottom Line | 40°42.000'S | 165°12.000'W | |
| 15 | Central Louisville Louisville Ridge | Bottom Line | 40°48.000'S | 165°24.000'W | |
| 15 | Central Louisville Louisville Ridge | Bottom Line | 40°48.000'S | 165°30.000'W | |
| 15 | Central Louisville Louisville Ridge | Bottom Line | 40°54.000'S | 165°12.000'W | |
| 15 | Central Louisville Louisville Ridge | Bottom Line | 40°54.000'S | 165°24.000'W | |
| 15 | Central Louisville Louisville Ridge | Bottom Line | 41°06.000'S | 164°56.400'W | |
| 15 | Central Louisville Louisville Ridge | Bottom Line | 41°06.000'S | 165°12.000'W | |
| 17 | North Louisville Louisville Ridge | Bottom Line | 38°20.013'S | 167°29.000'W | |
| 17 | North Louisville Louisville Ridge | Bottom Line | 38°20.013'S | 167°47.067'W | |
| 17 | North Louisville Louisville Ridge | Bottom Line | 38°32.000'S | 167°29.000'W | |
| 17 | North Louisville Louisville Ridge | Bottom Line | 38°32.000'S | 167°47.067'W | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|--------------|--------------------------------------|-------------|-------------|--------------|-----------------------------|
| 18 | North Louisville Louisville Ridge | Bottom Line | 38°11.013'S | 168°01.785'W | |
| 18 | North Louisville Louisville Ridge | Bottom Line | 38°11.013'S | 168°20.000'W | |
| 18 | North Louisville Louisville Ridge | Bottom Line | 38°40.000'S | 168°01.785'W | |
| 18 | North Louisville Louisville Ridge | Bottom Line | 38°40.000'S | 168°20.000'W | |
| 22 | North Louisville Louisville Ridge | Bottom Line | 36°45.000'S | 169°30.000'W | |
| 22 | North Louisville Louisville Ridge | Bottom Line | 36°45.000'S | 170°00.000'W | |
| 22 | North Louisville Louisville Ridge | Bottom Line | 37°08.000'S | 169°30.000'W | |
| 22 | North Louisville Louisville Ridge | Bottom Line | 37°08.000'S | 170°00.000'W | |
| 23 | North Louisville Louisville Ridge | Bottom Line | 36°00.000'S | 169°22.000'W | |
| 23 | North Louisville Louisville Ridge | Bottom Line | 36°00.000'S | 169°40.000'W | |
| 23 | North Louisville Louisville Ridge | Bottom Line | 36°10.000'S | 169°22.000'W | |
| 23 | North Louisville Louisville Ridge | Bottom Line | 36°10.000'S | 169°40.000'W | |
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| | | | | | |
| N. Lord Howe | N. Lord Howe | Bottom Line | 32°39.630'S | 163°04.415'E | Start on the Australian EEZ |
| N. Lord Howe | N. Lord Howe | Bottom Line | 32°39.630'S | 163°40.000'E | |
| N. Lord Howe | N. Lord Howe | Bottom Line | 33°20.000'S | 163°40.000'E | |
| N. Lord Howe | N. Lord Howe | Bottom Line | 33°20.000'S | 163°20.000'E | |
| N. Lord Howe | N. Lord Howe | Bottom Line | 34°40.000'S | 162°20.000'E | |
| N. Lord Howe | N. Lord Howe | Bottom Line | 34°40.000'S | 163°20.000'E | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|----------------------|----------------------|-------------|-------------|--------------|--|
| N. Lord Howe | N. Lord Howe | Bottom Line | 33°54.773'S | 162°20.000'E | North-east along the Australian EEZ to the start point |
| Central Challenger | Northwest Challenger | Bottom Line | 37°45.615'S | 168°35.830'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 37°55.230'S | 168°35.830'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 37°55.230'S | 169°25.400'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 38°13.830'S | 169°25.400'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 38°23.165'S | 169°11.967'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 38°23.165'S | 168°30.780'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 38°32.750'S | 168°30.780'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 38°32.750'S | 167°57.950'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 39°17.180'S | 167°57.950'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 39°17.180'S | 167°30.500'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 38°06.430'S | 167°30.500'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 38°06.430'S | 168°09.833'E | |
| Central Challenger | Northwest Challenger | Bottom Line | 37°45.615'S | 168°09.833'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°01.333'S | 169°36.706'E | South-east along the New Zealand EEZ |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°29.902'S | 170°00.000'E | Due south to a point on the New Zealand EEZ |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°41.589'S | 170°00.000'E | South-west along the New Zealand EEZ |
| Northwest Challenger | Northwest Challenger | Bottom Line | 38°00.000'S | 169°47.848'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 38°00.000'S | 169°42.000'E | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|------------------------|---------------------------------|-------------|-------------|--------------|-----------------------------|
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°48.000'S | 169°42.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°48.000'S | 169°24.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°42.000'S | 169°24.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°42.000'S | 167°42.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°48.000'S | 167°42.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°48.000'S | 167°24.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 39°06.000'S | 167°24.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 39°06.000'S | 167°18.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 38°52.000'S | 167°18.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 38°52.000'S | 167°06.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°48.000'S | 167°06.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°48.000'S | 167°00.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°42.000'S | 167°00.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°42.000'S | 166°40.000'E | |
| Northwest Challenger | Northwest Challenger | Bottom Line | 37°01.333'S | 166°40.000'E | |
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| S. Tasman Rise 1 Box 1 | S. Tasman Rise 1 S. Tasman Rise | Bottom Line | 47°08.280'S | 147°50.200'E | Start on the Australian EEZ |
| S. Tasman Rise 1 Box 1 | S. Tasman Rise S. Tasman Rise 1 | Bottom Line | 47°17.370'S | 147°50.200'E | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|---------------------------|-----------------------------------|-------------|-------------|--------------|---|
| S. Tasman Rise 1 Box 1 | S. Tasman RiseS. Tasman Rise 1 | Bottom Line | 47°17.370'S | 147°32.300'E | |
| S. Tasman Rise 1 Box 1 | S. Tasman RiseS. Tasman Rise 1 | Bottom Line | 47°10.197'S | 147°32.300'E | East along the Australian EEZ to the start point |
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 2 | Bottom Line | 47°05.160'S | 148°24.165'E | |
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 2 | Bottom Line | 47°05.160'S | 148°50.670'E | |
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 2 | Bottom Line | 47°13.780'S | 148°24.165'E | |
| S. Tasman Rise 2 Box 2 | S. Tasman RiseS. Tasman Rise 2 | Bottom Line | 47°13.780'S | 148°50.670'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom Line | 47°21.000'S | 148°45.610'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom Line | 47°21.000'S | 149°03.200'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom Line | 47°24.015'S | 148°37.235'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom Line | 47°24.015'S | 148°45.610'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom Line | 47°24.800'S | 149°03.200'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom Line | 47°30.320'S | 148°44.390'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom Line | 47°30.320'S | 148°57.650'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom Line | 47°35.205'S | 148°37.235'E | |
| S. Tasman Rise 3 Box 3 | S. Tasman RiseS. Tasman Rise 3 | Bottom Line | 47°35.205'S | 148°44.390'E | |
| Marion | Three Kings | Bottom Line | 27°59.155'S | 175°19.590'E | |
| Marion | Three Kings | Bottom Line | 27°59.155'S | 175°40.370'E | |
| Marion | Three Kings | Bottom Line | 28°19.800'S | 175°19.590'E | |
| Marion | Three Kings | Bottom Line | 28°19.800'S | 175°40.370'E | |
| Three Kings | Three Kings | Bottom Line | 30°49.324'S | 172°42.880'E | Start on the New Zealand EEZ |
| Three Kings | Three Kings | Bottom Line | 30°40.115'S | 172°42.880'E | |
| Three Kings | Three Kings | Bottom Line | 30°40.115'S | 172°53.295'E | |



| Block name | Locality | Method | Latitude | Longitude | EEZ Direction |
|--------------------|--------------------|-------------|-------------|--------------|---|
| Three Kings | Three Kings | Bottom Line | 30°16.500'S | 172°53.295'E | |
| Three Kings | Three Kings | Bottom Line | 30°16.500'S | 174°20.000'E | |
| Three Kings | Three Kings | Bottom Line | 30°40.245'S | 174°20.000'E | |
| Three Kings | Three Kings | Bottom Line | 30°40.245'S | 174°00.200'E | |
| Three Kings | Three Kings | Bottom Line | 30°53.670'S | 174°00.200'E | |
| Three Kings | Three Kings | Bottom Line | 30°53.670'S | 173°08.819'E | West along the New Zealand EEZ to the start point |
| West Norfolk Ridge | West Norfolk Ridge | Bottom Line | 32°17.000'S | 166°41.530'E | |
| West Norfolk Ridge | West Norfolk Ridge | Bottom Line | 32°17.000'S | 166°41.921'E | South-east along the Australian EEZ |
| West Norfolk Ridge | West Norfolk Ridge | Bottom Line | 32°28.633'S | 168°00.000'E | |
| West Norfolk Ridge | West Norfolk Ridge | Bottom Line | 34°12.000'S | 168°00.000'E | |
| West Norfolk Ridge | West Norfolk Ridge | Bottom Line | 34°12.000'S | 167°13.000'E | |
| West Norfolk Ridge | West Norfolk Ridge | Bottom Line | 34°00.000'S | 167°13.000'E | |
| West Norfolk Ridge | West Norfolk Ridge | Bottom Line | 34°00.000'S | 166°41.530'E | |
| Westpac Bank | Westpac Bank | Bottom Line | 39°39.000'S | 167°05.000'E | |
| Westpac Bank | Westpac Bank | Bottom Line | 39°39.000'S | 167°21.090'E | |
| Westpac Bank | Westpac Bank | Bottom Line | 39°55.000'S | 167°05.000'E | |
| Westpac Bank | Westpac Bank | Bottom Line | 39°55.000'S | 167°21.090'E | |



ANNEX 5: List of VME Indicator Taxa

| Taxonomic Level | Common Name | Qualifying taxa |
|-------------------------------------|---------------------|--|
| <i>Vulnerable taxa</i> | | |
| Phylum Porifera | Sponges | All taxa of the classes Demospongiae and Hexactinellidae |
| Phylum Cnidaria | | |
| Class Anthozoa | | |
| Order Scleractinia | Stony corals | All taxa within the following genera: <i>Solenosmilia</i> ; <i>Goniocorella</i> ; <i>Oculina</i> ; <i>Enallopsammia</i> ; <i>Madrepora</i> ; <i>Lophelia</i> |
| Order Antipatharia | Black corals | All taxa |
| Order Alcyonacea | True soft corals | All taxa excluding Gorgonian Alcyonacea |
| Informal group Gorgonian Alcyonacea | Sea fans octocorals | All taxa within the following suborders: Holaxonia; Calcaxonia; Scleraxonia |
| Order Pennatulacea | Sea pens | All taxa |
| Order Actiniaria | Anemones | All taxa |
| Order Zoantharia | Hexacorals | All taxa |
| Class Hydrozoa | Hydrozoans | All taxa within the orders Anthoathecata and Leptothecata, excluding Stylasteridae |
| Order Anthoathecatae | | |
| Family Stylasteridae | Hydrocorals | All taxa |
| Phylum Bryozoa | Bryozoans | All taxa within the orders Cheilostomatida and Ctenostomatida |
| <i>Habitat indicators</i> | | |
| Phylum Echinodermata | | |
| Class Asteroidea | | |
| Order Brisingida | Armless stars | All taxa |
| Class Crinoidea | Sea lillies | All taxa |



ANNEX 6A: Weight Threshold for Triggering VME Encounter Protocol in Any One Tow for a Single VME Indicator Taxa

| Taxonomic Level | Common Name | Weight Threshold (kg) |
|-------------------------------------|-------------------|-----------------------|
| <i>Vulnerable taxa</i> | | |
| Phylum Porifera | Sponges | 25 |
| Phylum Cnidaria | | |
| Class Anthozoa | | |
| Order Scleractinia | Stony corals | 60 |
| Order Antipatharia | Black Corals | 5 |
| Informal group Gorgonian Alcyonacea | Seafan octocorals | 15 |
| Order Actiniaria | Anemones | 35 |
| Order Zoantharia | Hexacorals | 10 |



ANNEX 6B: Weight Threshold for Triggering VME Encounter Protocol in Any One Tow for Three or More Different VME Indicator Taxa

| Taxonomic Level | Common Name | Weight Threshold (kg) |
|-------------------------------------|-------------------|-----------------------|
| <i>Vulnerable taxa</i> | | |
| Phylum Porifera | Sponges | 5 |
| Phylum Cnidaria | | |
| Class Anthozoa | | |
| Order Scleractinia | Stony corals | 5 |
| Order Antipatharia | Black corals | 1 |
| Order Alcyonacea | True soft corals | 1 |
| Informal group Gorgonian Alcyonacea | Seafan octocorals | 1 |
| Order Pennatulacea | Sea pens | 1 |
| Order Actiniaria | Anemones | 5 |
| Order Zoantharia | Hexacorals | 1 |
| Class Hydrozoa | Hydrozoans | 1 |
| Order Anthoathecatae | | |
| Family Stylasteridae | Hydrocorals | 1 |
| Phylum Bryozoa | Bryozoans | 1 |
| Phylum Echinodermata | | |
| Class Asteroidea | | |
| Order Brisingida | Armless stars | 1 |
| Class Crinoidea | Sea lillies | 1 |



ANNEX 7: Guidelines for the Preparation and Submission of Notifications of Encounters with Potential VMEs

1. General Information:
 - a. Contact details
 - b. Nationality
 - c. Vessel name
 - d. Date of fishing effort and notification
 - e. Time of tow start (UTC)
 - f. Time of tow end (UTC)
 - g. Fishing gear used
2. Location Information:
 - a. Bottom trawl or mid-water trawl
 - b. Start and end position of trawl (to nearest 0.01 decimal degree)
3. VME Information:
 - a. Summary information:
 - i. Number of VME Indicator taxa encountered
 - ii. Total weight of VME Indicator taxa encountered
 - b. Detailed information:
 - i. Weight of each VME Indicator taxa in tow (including any under threshold)

ANNEX 8: Minimum Observer Coverage Levels

| Gear type | Minimum level of observer coverage |
|---|---|
| Vessels using bottom trawl and mid-water trawl gear | 100% observer coverage |
| Bottom line gear | At least 10% observer coverage for the fishing year ¹⁰ |

ANNEX 9: Register of VMEs

| Area | Coordinates | Depth (start, end) | Number and weight of VME taxa encountered | Date encountered |
|------|-------------|--------------------|---|------------------|
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| | | | | |

¹⁰ Expressed as the percentage of the total number of observed hooks.