



Australian Government

Australian Fisheries Management Authority

Southern Squid Jig Fishery Resource Assessment Group (SquidRAG) Meeting 28

Meeting minutes

13 October 2022

12:30 – 16:56

Microsoft TEAMS

Southern Squid Jig Fishery Resource Assessment Group (SquidRAG)

Meeting 28 – 13 October 2022

Agenda

Time (AEDT): 12:30-16:56

Location: Microsoft Teams

Chair Name: Mr Bruce Wallner

Approximate time	Item	Purpose	Lead presenter
12:30 (30 min)	Agenda item 1. Preliminaries		
	1.1 Welcome and apologies	For action	Chair
	1.2 Declaration of interests	For action	Chair
	1.3 Adoption of agenda	For action	Chair
	1.4 Minutes from previous meeting	For noting	Chair
	1.5 Actions arising from previous meetings	For noting	Executive officer
13:00 (20 min)	Agenda item 2. Fishery update		
	2.1 AFMA Management	For noting	AFMA member
	2.2 Industry	For noting	Industry members
	2.3 Economic	For noting	Economic member
	2.4 Research	For noting	Research members
13:20 (25 min)	Agenda item 3. Catch per unit effort update	For advice	Rocio Noriega
13:45 (60 min)	Agenda item 4. 2023 TAE Recommendation	For advice	AFMA member
14:45 (15 min)	Break		
15:00 (45 min)	Agenda item 5. Harvest Strategy update	For advice	AFMA member
15:45 (25 min)	Agenda item 6. Draft Data and Monitoring Strategy	For advice	AFMA member
16:10 (30 min)	Agenda item 7. Climate and ecosystem update	For noting	Alice McDonald
16:40 (20 min)	Agenda item 8. Annual research statement	For advice	AFMA member
17:00 (10 min)	Agenda item 9. Other Business		
17:10	Close		

The Chair opened the meeting at 12:30

Agenda item 1. Preliminaries

1.1 Welcome and apologies

Mr Bruce Wallner, the Chair, welcomed members and observers to the meeting and made an Acknowledgement of Country, paying respects to this country's First People and Traditional Custodians of the land throughout Australia. Acknowledging Australia's Traditional Custodians of Country and recognising their continued connection to land, waters and community. Paying our respects to them and their cultures and to Elders past present and emerging.

1. The Southern Squid Jig Fishery Resource Assessment Group (the RAG) members noted the Acknowledgement of Country, that the meeting was being recorded and commenced proceedings.
2. A formal apology was noted for Debbie Wisby. Debbie was thanked for her contributions to SquidRAG over many years.
3. Haydn Titterton and Steve Hall were welcomed to SquidRAG as the new Executive Officer and AFMA member, respectively.
4. John Cull was welcomed to SquidRAG as a new Industry member.
5. Former scientific member Shijie Zhou was thanked for his contributions to SquidRAG over the past years.
6. Heather Johnston was thanked for her contribution to SquidRAG as the former Executive Officer.
7. James Woodhams, observer for Agenda item 5 'Harvest Strategy update' was noted as an apology for the meeting.
8. The Chair noted that the meeting is being recorded by the Executive officer for minute taking purposes.
9. All members, participants and observers introduced themselves and their background to the RAG.

10. Members

Bruce Wallner	Chair
Rocio Noriega	Scientific member
Stephen Leporati	Scientific member
Robert Curtotti	Economic member
John Cull	Industry member
Steve Hall	AFMA member
Haydn Titterton	Executive officer

11. Invited Participants

Alice McDonald	AFMA
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12. Observers

Dan Corrie	AFMA
Yvette Lamont	AFMA
Nastaran Mazloumi	AFMA

13. Apologies

Debbie Wisby (resigned)	Industry member
James Woodhams	Observer

1.2 Declarations of interest

14. The RAG members followed the conflict of interest declarations as outlined in in *Fisheries Administration Paper 12*. Members and participants reviewed and updated the Declarations of Interest included at [Attachment A](#).
15. The Chair noted that where there is a perceived conflict of interest with an Agenda item, that member/participant can generally participate in the discussion but is asked to leave for the formulation of a recommendation.
16. Stephen Leporati noted an update, that he is now works for Bio-Inspecta as a contractor, rather than as an employee.
17. John Cull declared a potential conflict of interest with Agenda item 4.
18. The RAG considered John Cull's interests and how they should be managed.
19. The RAG agreed that John Cull could be part of the discussion but should not participate in the forming of the RAG recommendation for Agenda item 4 '2023 TAE recommendation'.
20. Whilst it was noted that Rocio Noriega and Stephen Leporati have declared potential conflicts of interest with Agenda item 8, given the limited research funding available, it would be beneficial to have the scientific members present for both the discussion and the recommendation for Agenda item 8 'Annual Research Statement'.

1.3 Adoption of agenda

21. The RAG adopted the Agenda as final.

1.4 Minutes of previous meeting

22. The RAG noted the final minutes of the SquidRAG 27 meeting on 8 October 2021 are available on the [AFMA website](#) ('Fisheries Management' – 'Committees'- 'Resource Assessment Groups'- Southern Squid Jig Fishery Resource Assessment Group')

1.5 Actions arising from previous meetings

23. The RAG noted the action items from previous meetings and the updates provided by the Executive Officer at [Attachment B](#).

Agenda item 2 – Fishery update

24. The Chair introduced the Agenda item and asked the RAG to note the AFMA Management, industry and economic updates for the Southern Squid Jig Fishery (SSJF).

2.1 AFMA Management

25. The AFMA member provided the following update:
 - 144 tonnes of Gould's squid has been caught by five boats in the SSJF in 2022 (as of September 2022).
 - No bycatch or protected species interactions were recorded in 2022.
 - AFMA is preparing to transition the fishery to electronic logbooks (elogs). The eelog software has been developed. AFMA encourages those operators who are interested in using elogs to contact the three vendors listed in Table 1 to discuss availability and cost.

Table 1 – Elog software vendor information.

Software vendor	Telephone	Email	Web
Elogs.com.au	0405 323 096	admin@elogs.com.au	www.elogs.com.au
CatchLog Trading Pty. Ltd	07 4033 1322	admin@catchlog.com	www.catchlog.com
OLRAC	03 5258 4399	olrac@olsps.com	www.olsps.com

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2.2 Industry

26. The Industry member provided an update on the 2022 fishing season:

- Several factors contributed to the low effort (i.e. only five active boats) in the fishery so far this season, including vessel maintenance periods, crew shortages, the opening of the Tasmanian scallop fishery, high fuel costs and long distance to Commonwealth waters and other research survey work.
- Tasmanian waters were targeted primarily at the beginning of the squid season, Commonwealth waters were targeted later in the season.
- Squid catchability has become more difficult in recent seasons, with squid jigging machines being set at lower depths. Over the last two seasons, squid have been occurring at lower depths than where they are traditionally caught. Operators have had to move further offshore to target squid as a result. This coincides with the period of La Niña weather patterns, which is likely affecting ocean temperatures and salinity, and therefore potentially the distribution of squid.
- Trawl-caught squid hasn't faced the same issues in terms of the depth at which squid are being caught, however they are noticing that there is reduced consistency seen across the catches over the past few seasons.
- The upwelling off Portland is being investigated by Deakin University, which may produce relevant findings for understanding changes in the distribution of squid.
- The cost of fuel has become a significant issue for industry and is impacting the overheads of fishing operations, with steaming time now a more crucial factor.
- Crew shortages are significantly impacting operations across the fishing industry, to the extent that it has prevented operators from going to sea on occasions.

2.3 Economic

27. The Economic member provided the following update:

- The fishing industry is facing labour shortages across Australia.
- A significant economic challenge to the fishing industry this year has been the increase in fuel prices, which has been further compounded by poor exchange rates.
- Prices of squid have been holding steadily and are higher than they were five to ten years ago.

Agenda item 3 – Catch per unit effort update

28. Rocio Noriega presented the project 'Investigating catch per unit effort (CPUE) for Gould's squid in the SSJF and the Commonwealth Trawl Sector (CTS)'. The RAG noted the following:

- There is a need for improved data. The available data does not currently support the undertaking of CPUE analysis. Better size and growth data and better resolution in effort and gear data are required. Recruitment data and natural mortality data is also required to undertake a reliable depletion analysis.
- The CPUE model is proving to be a difficult indicator to use for squid, and the RAG should discuss this and which alternative assessment methods could potentially be utilised in the future.
- The SSJF is a secondary fishery to most operators, and therefore SSJF vessels are all configured differently, meaning that it is difficult to attribute cause to factors affecting catch rates when there are many variables across each vessel in the fleet (e.g. computer systems, jigging machines, type of lights, age of lights).
- Quality data is required from the fishery over the next five years, in order to be able to effectively analyse effort in the fishery.
- The data requirements for the fishery are achievable with logbooks/elogs, and onboard sampling.
- Due to the higher levels of effort in the CTS, the data is much more reliable than that of the SSJF.

Action item 1: RAG members to provide any further advice regarding the CPUE project being undertaken by ABARES to Rocio Noriega via email.

Action item 2: AFMA to implement the recommended data parameters from the CPUE project into logbooks and elogs.

Agenda item 4 – 2023 TAE Recommendation

29. The AFMA member introduced the Agenda item and asked the RAG to provide advice to the South East Management Advisory Committee (SEMAC) and the AFMA Commission on the total allowable effort (TAE) for the SSJF 2022 fishing season. The AFMA member noted the following background:

2022 Catch summary

- As of September 2022, the total catch of Gould's squid for the 2022 fishing year is 144 tonnes, which is well below the intermediate and limit trigger levels outlined in the current SSJF Harvest Strategy of 3,000 and 5,000 tonnes respectively.
- Trawl catch was approximately 195 tonnes, with 160 tonnes being caught by CTS and 35 tonnes caught by GABTS, as of September 2022, which is also below the 2,000-tonne trawl catch limit trigger in the current SSJF Harvest Strategy.
- Combined jig and trawl catch was approximately 339 tonnes, well below the combined catch limit trigger in the current SSJF Harvest Strategy of 6,000 tonnes.
- Five vessels have been active in the SSJF in 2022 as of September 2022, down from eight vessels in 2021. This does not exceed the effort trigger of '30 standard vessels' in the fishery as outlined in the current SSJF Harvest Strategy.

Economic performance of the fishery

- While the fishery is characterised by very high levels of latent effort, leaving the potential for overcapitalisation, the TAE is typically set at a level to minimise the risk of this occurring without introducing any unnecessary impediments to efficiency. However, the TAE level should also enable the fishery to sustainably exploit the resource and capitalise on a 'boom' year.
- Only five of the 35 statutory fishing rights (SFRs) have been active in 2022.

2022 TAE considerations

- The TAE, in conjunction with the total number of gear statutory fishing rights (SFRs) in force at the beginning of the fishing year are used to determine how many SFRs are required to operate a single standard squid jigging machine in the fishery.
- For the 2022 season, the TAE was 550 standard squid jigging machines and has been set at this level since 2013. There are 4,800 gear SFRs currently held in the fishery (as of September 2022). If the 2023 TAE remains at 550 standard squid jigging machines it would mean 8.7 SFRs are required for each machine.

Recommendation 1: 2023 TAE Recommendation

The RAG recommended that the 2023 TAE be set at 550 standard squid jigging machines. The RAG considered this level to be sustainable and suitable, given the available information; and while there is latent effort in the fishery, the level maintains the capacity of the fleet to respond to changes in squid availability and/or markets.

Agenda item 5 – Harvest Strategy update

30. The AFMA member introduced the Agenda Item and asked the RAG to consider and provide advice on the draft SSJF Harvest Strategy 2022 (draft Harvest Strategy) to the SEMAC and the AFMA Commission.
31. The RAG noted the following background:
 - The AFMA Commission has requested that the current Harvest Strategy be updated to reflect the current state of the fishery.
 - A review of the current Harvest Strategy 2007 was undertaken throughout 2020 and 2021 in recognition of the need to simplify and update triggers and management responses to ensure they are appropriate, reflect the current state of the fishery and meet the requirements of the [Commonwealth Fisheries Harvest Strategy Policy 2018](#).
 - This review concluded that there is insufficient data available to undertake a depletion analysis and support an evaluation of the current Harvest Strategy catch triggers. To address this issue, AFMA, with advice from the RAG, have since reviewed the data needs for the fishery and developed the draft SSJF Data and Monitoring Strategy 2022 (draft Data Strategy). The draft Data Strategy requires further development but will assist future reviews of the existing catch triggers and decision rules within the Harvest Strategy.
 - As an interim approach, the draft Harvest Strategy has been amended to include a lower catch and effort trigger (end-of-year) based on more recent catch and effort data, which better reflect the current levels of fishing within the fishery. The proposed end-of-year triggers of 360 tonnes/213 days are based on average annual catch and effort between 2017 and 2021. If either of the triggers are reached, a review of the available catch and effort data is required to ensure there are no risks associated with the increase in catch or effort. This approach formalises the review already undertaken by SquidRAG each year as part of the TAE setting process.

- SquidRAG and SEMAC considered the draft Harvest Strategy at their meetings in 2021 and asked that AFMA consult further with industry prior to its finalisation.
- AFMA consulted with industry in December 2021, seeking feedback on the revised Harvest Strategy, particularly the lower catch and effort triggers, actions and decision rules. No substantive comments were received and AFMA are proposing the current draft is adopted as final.

32. The RAG noted the following key points made by various SquidRAG participants:

- If the triggers outlined in the draft Harvest Strategy, including the lower catch and effort triggers, are not reached, SquidRAG should still formally consider the available catch and effort data as part of the TAE setting process to ensure there are no sustainability concerns associated with recent catches. Where available, state catches should also be considered to provide context to the level of Commonwealth catch and effort.
- Low CPUE data and relatively low biological data relating to squid stock and population, mean that the CPUE can not effectively inform the TAE.
- Tasmanian state catches should ideally be considered in decision making when setting a TAE for squid.
- For industry, the proximity of squid fishing grounds to port plays a major role in determining where the effort takes place. For example, there are known stocks of squid off South Australia near Kangaroo Island, however these grounds are not proximal to a port and therefore are not generally fished.
- Understanding where squid stocks are spawning, and where they move afterwards would provide crucial information that could improve squid catchability.

Recommendation 2: Harvest Strategy

SquidRAG recommended implementing the draft Harvest Strategy, including:

- supporting the introduction of the new lower catch and effort trigger based on more recent catches; and
- incorporating the following additional rule into the draft Harvest Strategy:
 - If the triggers outlined in this harvest strategy are not reached, SquidRAG will consider the available catch and effort data as part of the Total Allowable Effort setting process to ensure there are no sustainability concerns associated with recent catches. Where available, State catches will also be considered to provide context to the level of Commonwealth catch and effort.

Agenda item 6 – Draft Data and Monitoring Strategy

33. The AFMA member introduced the Agenda Item and asked the RAG to provide advice on the draft Data and Monitoring Strategy (Data Strategy) to AFMA Management.

34. The RAG noted the following background:

- The draft Data Strategy was developed to address the current data needs of the fishery and provide a framework for on-going data collection
- Previous feedback provided by SquidRAG and industry has been incorporated into the draft Data Strategy.

- The draft Data Strategy further incorporates the expected transition of the SSJF to e-logs and will incorporate any updates to the Harvest Strategy.
- Commissioning a literature review of all relevant Squid research has been suggested in previous RAG discussions. There is funding within AFMA's 2022-23 budget to undertake this work. This information could be incorporated into the Data Strategy.

35. In formulating its advice, the RAG made the following key points:

- E-logs will have the capacity to be a source of necessary data for the fishery in the future.
- It would be beneficial to ensure that the data needs of the SSJF are met by incorporating the trawl fishery into the draft Data Strategy.
- Due to the new membership of SquidRAG, and the discussions that surrounded the draft Data Strategy, SquidRAG considered that it would be more beneficial to provide comments and advice out of session.

Action item 2: AFMA to seek comment from the RAG on the draft data strategy out of session.

Agenda item 7 – Climate and ecosystem update

36. Alice McDonald introduced the Agenda item, noting that it will be a new standing Agenda item for SquidRAG. Ms McDonald provided a presentation on climate change impacts in waters relevant to Commonwealth squid fisheries, noting the following key points:

- The South-Eastern fishing grounds in which the Commonwealth squid fishery operates is currently a hotspot for several climate change related impacts.
- Sea surface temperature has gradually increased in the South-East over the last 30 years.
- The results of a recent joint CSIRO/FRDC study indicate that the climate sensitivity of Gould's squid showed variability, with strong increases and decreases projected through time for Gould's squid populations.
- A draft 'Climate and Ecosystem Status Report' has been prepared for the SSJF using readily available information for discussion and input from the RAG.
- The three key impacts projected for fisheries resources broadly are distributional change, productivity change and species composition change. AFMA is seeking to account for these factors in the management of fisheries where relevant data is available.
- The two main goals of AFMA's Climate Adaptation Program are to incorporate information and research on climate impacts into decision-making processes, and, to ensure fisheries management arrangements are adaptive.

37. The RAG noted the following background:

- The projected variability projected for Gould's squid under climate change will challenge the management of the SSJF, as it is a fishery where seasonal variability in catches is already a significant factor.
- Temperature has a strong influence on the life history of cephalopods, which is why spatially variable changes in ocean temperature will influence squid with variability. Cephalopods have temperature thresholds, which will be a limitation for the adaptation of squid.
- The influence of environmental variability on the catchability of squid has been challenging to investigate in the past, due to data limitations and confounding variables.

- Biological information, such as spawning data could provide necessary data for understanding the projection of squid stocks.
- Environmental variables drive catches in all fisheries. Identifying which variables are useful as indicators for the catchability of squid would be valuable to the fishery.
- By being involved in data collection, industry has the capacity to positively influence the adaptability of the SSJF to climate change related impacts.

Agenda item 8 – Annual Research Statement

38. The AFMA member introduced the Agenda Item and asked the RAG to provide advice on research priorities for the 2024-25 financial year to be included in the 2024-25 SSJF Annual Research Statement (draft Annual Research Statement).

39. The RAG noted the following background:

- Each year, the RAG are asked to provide advice on upcoming research needs for the fishery, in this instance for potential AFMA or FRDC funding in 2024-25 financial year.
- This is required in the context of the current AFMA Strategic Research Plan.
- As part of this process, the RAG are asked to prepare an Annual Research Statement and complete a research scope form for each new priority.
- The Annual Research Statement includes consideration of the cost-effectiveness, priority and timeframes for achieving identified priorities.

40. The RAG considered research priorities to be included in the draft Annual Research Statement, making the following key points:

- The boats of opportunity project, which would involve installing data loggers onto SSJF vessels was previously identified as a potential future research opportunity. There is currently a FRDC project underway that will undertake similar work and may include SSJF.
- The CPUE standardisation project being completed by ABARES (Rocio Noriega), while not an AFMA funded project, should be listed as a project 'currently underway' in the Annual Research Statement.
- No new research priorities have arisen in the past 12 months.
- Targeting PhD/Honours research on Gould's squid could fill some of the data gaps for the fishery.
- A basic literature review that provides a summary of which relevant research would be useful and can be incorporated into the Data Strategy. AFMA has funding for this work to be undertaken in 2022-23.
- It would be beneficial to invite researchers undertaking work relevant to the SSJF to present a summary of their work at future SquidRAG meetings. A summary of this could potentially be included at the end of the Annual Research Statement in the future. The RAG agreed that allowing time in the Agenda for researchers to present at future SquidRAG would be beneficial.

Action item 3: As part of next year's Research Agenda item, invite researchers who are undertaking relevant squid research to present a summary of their work at SquidRAG.

Action item 4: AFMA to seek advice from the RAG on the draft Annual Research Statement for 2024-25 out of session.

Close of meeting

41. The Chair thanked the RAG for their contribution and closed the meeting at 16:56.

Attachment A - Register of interest

Table 1. Members, invited participants and observers declarations of interests (reviewed & updated at SquidRAG 28).

Name	Membership	Declared interests
Bruce Wallner	Chair	No interests declared, pecuniary or otherwise in the SSJF.
Stephen Leporati	Scientific member	Contractor for Bio.inspecta, which undertakes audits for Marine Stewardship Council (MSC) as the Conformity Assessment Body for a range of Commonwealth fisheries. No interest declared, pecuniary or otherwise in the SSJF.
Rocio Noriega	Scientific member	ABARES undertakes research on a range of Commonwealth fisheries related matters. No interest declared, pecuniary or otherwise in the SSJF.
Robert Curtotti	Economic member	ABARES undertakes research on a range of commonwealth fisheries related matters. No interest declared, pecuniary or otherwise in the SSJF.
John Cull	Industry member	Holds Commonwealth and State concessions.
Steve Hall	AFMA member	No interests declared, pecuniary or otherwise.
Haydn Titterton	Executive officer	No interests declared, pecuniary or otherwise.
Alice McDonald	Invited participant, AFMA	No interests declared, pecuniary or otherwise.
Dan Corrie	Observer, AFMA	No interests declared, pecuniary or otherwise.
Yvette Lamont	Observer, AFMA	No interests declared, pecuniary or otherwise.
Nastaran Mazloumi	Observer, AFMA	No interests declared, pecuniary or otherwise.

Attachment B- action items

Complete/Redundant	Underway	Yet to start	Need further advice	On hold
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Table 2. Progress of action items from previous meetings

	RAG meeting	Agenda Item	No.	Action Item	Agency/Person Responsible	Timeframe	Progress
	25	2	1a	Investigate methods and data requirements for evaluating whether the current harvest strategy catch triggers remain appropriate, including whether an updated depletion analysis is a cost-effective approach.	AFMA	On hold	To be progressed following additional data collection.
	25	2	1b	Determine whether nominal and/or standardised CPUE is an appropriate performance measure against which triggers can be set.	AFMA and ABARES		To be discussed at agenda item 3.
	25	2	1c	AFMA to review the timing of the HS review subject to a) investigating methods and data requirements for evaluating whether the current harvest strategy remains appropriate, including when it would be	AFMA	On hold	To be discussed at agenda item 5.

			appropriate to complete an updated depletion analysis; and, b) determining whether nominal and/or standardised CPUE is an appropriate performance measure against which triggers can be set.				
	26	4	5	AFMA to provide an update at the next SquidRAG meeting on: a) whether a depletion analysis can be done for Gould's squid; and b) if one can be completed, which method might be most appropriate and what information would be required.	AFMA	SquidRAG 27	To be discussed at agenda item 3.
	26	6	12	AFMA to contact IMOS regarding whether it may be an option to have some of the SSJF vessels become boats of opportunity.	AFMA	Prior to SquidRAG 27	AFMA waiting on outcome of FRDC project proposal to test sensors on SSJF boats.
	27	4	1	AFMA to provide update to the industry member on whether the proposed SSJF trigger can be shared.	AFMA	ASAP	AFMA provided update to industry member.

	27	5	2	RAG members to provide any further advice regarding the CPUE project being undertaken by ABARES to Rocio Noriega via email.	SquidRAG members	ASAP	SquidRAG members provided advice to ABARES.
	27	6	3	AFMA to seek comment from the RAG on the draft data strategy out of session.	AFMA	Prior to SquidRAG 28	To be addressed at Agenda item 6.
	27	8	4	AFMA to seek comment from the RAG on the Annual Research Statement	AFMA	Prior to June 2022	AFMA sought comment from the RAG on the Annual Research Statement.
	27	8	5	AFMA and the RAG to develop a list of ongoing research priorities for the fishery.	AFMA and SquidRAG members	SquidRAG28	To be addressed at Agenda item 8.

Table 3. New action items from SquidRAG 28

Agenda Item	No.	Action Item	Agency/Person Responsible	Timeframe
3	1	RAG members to provide any further advice regarding the CPUE project being undertaken by ABARES to Rocio Noriega via email.	SquidRAG members	Prior to SquidRAG 29
3	2	AFMA to implement the recommended data parameters from the CPUE project into logbooks and elogs.	AFMA	Prior to SquidRAG 29
6	3	AFMA to seek comment from the RAG on the draft data strategy out of session.	AFMA	Prior to SquidRAG 29
8	4	As part of next year's Research Agenda item, invite researchers who are undertaking relevant squid research to present a summary of their work at SquidRAG.	AFMA	Prior to SquidRAG 29
8	5	AFMA to seek out of session advice on the draft Annual Research Statement for 2023-25.	AFMA	Prior to SquidRAG 29

Table 4. Recommendations from SquidRAG 28

Recommendation number	Agenda item	Recommendation
1	4	<p>The RAG recommended that the 2023 TAE be set at 550 standard squid jigging machines. The RAG considered this level to be sustainable and suitable, given the available information; and while there is latent effort in the fishery, the level maintains the capacity of the fleet to respond to changes in squid availability and/or markets.</p>
2	5	<p>SquidRAG recommended implementing the draft Harvest Strategy, including:</p> <ul style="list-style-type: none"> • supporting the introduction of the new lower catch and effort trigger based on more recent catches; and • incorporating the following additional rule into the draft Harvest Strategy: <p>If the triggers outlined in this harvest strategy are not reached, SquidRAG will consider the available catch and effort data as part of the Total Allowable Effort setting process to ensure there are no sustainability concerns associated with recent catches. Where available, State catches will also be considered to provide context to the level of Commonwealth catch and effort.</p>