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Attendance

Name	Membership (type i.e. chair)
John Glaister	NORMAC Chair
David Carter	Industry member
Greg Albert	Industry member
lan Boot	Industry member
Arthur Raptis	Industry member
Claire van der Geest	Environment/conservation member
Ian Knuckey	Research member
Steve Bolton	AFMA member
Steve Eves	NORMAC EO
Annie Jarrett	Invited participant – NPFI
Trevor Hutton	Observer – CSIRO
Phil Robson	Observer – Raptis
Andy Prendergast	Observer – Austral
Adrianne Laird	Observer – NPFI
Bryan van Wyk	Observer – Austral
David Power	Observer, NPF Manager, NPRAG AFMA member
John Palmer	Observer – WA Seafood Exporters
Rik Buckworth	Observer – consultant, NPRAG scientific member
Robert Curtotti	Observer – ABARES
Eva Plaganyi	Observer – CSIRO
Rob Kenyon	Observer – CSIRO
Roy Deng	Observer – CSIRO
Gary Fry	Observer – CSIRO

1 Preliminary business

1.1 Chairs opening remarks

The Chair opened the meeting at 9.00 am (EST) at the Riverview Hotel in Brisbane on 20 February 2019. Apologies were noted from Ron Earle, industry member, and the State invited participant Darren Roy.

1.2 Adoption of agenda

The agenda was adopted without change.

1.3 Declaration of interests

The Chair advised that NORMAC consider the standing table of declared interests (Attachment 2) and individually declare whether the stated interests are accurate, and if

not, provide an update on those. Updated interests were declared by Rik Buckworth, Ian Knuckey, Robert Curtotti, John Palmer, Eva Plaganyi and Rob Kenyon. No apparent conflicts of interest were identified that would prevent individuals participating in discussions but if a particular conflict arose for any agenda item, the relevant party would be asked to leave the meeting at the appropriate time.

1.4 Minutes from previous meeting

It was noted that the Minutes from the February 2018 meeting were accepted out of session and had been published on the AFMA website.

1.5 Actions arising

The Executive Officer addressed the action items and updated NORMAC on progress. It was advised that the reason for multiple gear surveys in 2018 was due to AFMA not receiving the gear survey undertaken by NPFI and needing to complete its own. It was suggested that, to prevent multiple gear surveys being sent out in future, the gear field in e-logs could be made mandatory so that operators can report the actual gear used on each trip throughout the season. The e-log can include the last gear entered as the default setting to simplify data entry so operators only need to update the gear fields if they change their gear.

1.6 Correspondence received/sent

The list provided under item 1.6 was noted

ACTION:

 AFMA to liaise with catch log to make the gear field in e-logs mandatory so that operators can report the actual gear used on each trip throughout the season.

2 Reports and updates

2.1 NPF Industry Report

Industry provided an update on the 2018 fishing season. The MAC noted that 2018 was not as profitable as previous years due to average banana prawn and tiger prawn seasons. The market has increased in competitiveness and the profits made through the supermarkets is becoming increasingly difficult to maintain. Fuel price increased by 24 per cent compared to 2017. The total catch of tiger prawns in 2018 was right on average for the last 11 years (excluding 2015 as an anomalous year). There were increased costs associated with mother-shipping as Seaswift started charging for outbound freight.

NPFI provided a summary of the 2018 crew member observer (CMO) program. It was noted that 16 crew participated in the CMO program in 2018 covering two vessels in the banana prawn season and eleven in the tiger prawn season. Initial review of 2018 CMO data indicates all CMOs exceeded their required targets. A total of 4,020 shots (15% of the fleets fishing activity) were monitored for interactions with TEP and at-risk species, well exceeding the target of 2,350 shots per year that is required to detect changes in the

species being monitored. The MAC noted that 2018 was the most successful year of CMO coverage since the program began in 2003.

2.2 AFMA Management Report

The AFMA member provided a report to NORMAC on the key areas of focus for AFMA, in the NPF and more broadly, for the coming year. In the NPF, the priorities are: the completion of Ecological Risk Assessment (ERA); working with NPRAG and NORMAC on bringing the harvest strategy and bycatch strategy into line with the new Commonwealth policies (noting any timelines established in those policies); assisting industry to make the shift to bycatch reduction devices that meet bycatch targets; begin work on an NPF Fisheries Management Strategy (FMS); review and update the NPF data plan to ensure data collection supports assessment; evaluation and reporting on performance targets established in the new Bycatch and Harvest Strategy Policies; finalise an amended NPF Management Plan, and; work to satisfy Commission concerns about co-management and develop a policy position for AFMA, industry and stakeholders.

It was advised that the funding arrangement for the NPF co-management contract is being reviewed as the procurement rules under the *Public Governance, Performance and Accountability Act 2013* were updated in 2018. AFMA will continue to collaborate with NPFI throughout to resolve any contractual challenges.

David Power provided a presentation on the revised Commonwealth Harvest Strategy and Bycatch policies that were published in November 2018. Key changes include bringing together management of byproduct species under the harvest strategy policy with clearer guidance around how all species are managed under both policies. For the NPF a new Ecological Risk Assessment (ERA) is underway and this will support updates to the harvest strategy and bycatch strategies to ensure they are aligned with the revised policies. This work is scheduled for 2019 and a key component includes reviewing species classifications to define key commercial species, by-products and bycatch.

The MAC noted the AFMA management report paper that provided updates on Commonwealth Harvest Strategy and Bycatch policies, ERA, FMS, co-management, wildlife trade assessment, pre-season surveys, US National Oceanic and Atmospheric Administration (NOAA) visit and turtle excluder device (TED) inspections, SFR sales price data, staffing arrangements, 2019-20 budget, compliance report, a summary of the 2018 Scientific Observer coverage, environment update, and changes to e-log passwords.

2.3 NPRAG Update

The NORMAC research member/NPRAG Chair provided a summary of the key RAG discussions over the last year. The RAG has continued discussions on how to revise the Redleg Banana Prawn harvest strategy to ensure catch or effort levels can be adjusted to achieve the target reference point, or to allow catch or effort to be progressively reduced as biomass approaches the limit reference point. The RAG proposed a management strategy evaluation (MSE) be conducted on a number of harvest strategy options put forward by NPFI and CSIRO.

The MAC noted the RAG had discussed options for dealing with MSC requirements for endeavour prawns. Currently, the Blue and Red Endeavour prawn stocks are not expected

to fluctuate around MSY because they are managed as part of a species 'basket' in a fishery-wide MEY target. As such, there are questions as to how best to handle the endeavour prawn species under MSC requirements. It was advised that there is a change in the MSC criteria between assessment versions one and two. The NPF is currently assessed under version one but the criteria under version two may recognise that some fisheries have multiple target species, which may help the NPF meet this criteria.

It was noted the RAG also discussed the data collection protocols for the AFMA Scientific Observer Program and whether the current protocols reflect the data needs of the NPF. The RAG identified a number of areas where the protocols could be improved and subsequently modified the protocols to ensure the data collected is robust. The NPF research priorities were also reviewed and updating the species-split model was considered the highest stock assessment related research priority. The Northern waters developments continues to be recognised as the highest external threat to the fishery.

Other items the RAG discussed over the last year included broodstock collection, ERA, FMS, autonomous adjustment, the NPF bycatch strategy, potential impacts of climate change on the NPF, GoC mangrove dieback, incursion of Spotted Tilapia in GoC catchments, proposed changes to the Kimberley Prawn Fishery season dates, and reviewing research on TEPS.

2.4 Northern Development Update

NORMAC noted a presentation by Rob Kenyon on the outcomes of the Northern Australia Water Resource Assessment (NAWRA). The presentation informed the MAC on a number of key areas including:

- NPF target species rely on inshore habitats, which have historically been pristine in Northern Australia.
- Development associated with water resources in northern Australia has the potential to substantially alter river flow regimes to freshwater and marine ecosystems.
- The extent of the impacts vary between river catchments and depend on flow scenarios. In the severe scenarios, dry with continued water extraction, the model predicted declines in prawn catch per unit effort (CPUE) of up to 29.8 per cent and decreases in catch of 14.6 per cent.
- The NAWRA modelling accounts for the significance of early season flows and late season flows. The early season flows are the low flows which have a strong influence on NPF catch. These low flows are the ones that won't make it to the estuaries due to damns or harvesting.
- There is some additional research being undertaken using NPF data that may show the influence of lower flow events on NPF catch.
- Juvenile prawns are found in higher volumes in the tributaries as opposed to the main river systems. There is a high level of predation in the tributaries and in years when the rivers are more brackish, juvenile prawns migrate from the tributaries to the main river system.
- If irrigation developments take away the early season flows that create a brackish river system, productivity will be lost from the system.

CSIRO concluded with several key recommendations to minimise impacts on NPF prawn species and fishery catch rates:

- Ensure 'defensible' ecosystem/environmental flows are maintained;
- Engineer and build dams to allow environmental flows;
- Extraction of water from high flows over short periods of time; and
- Implement legislated trigger levels to assure 'early wet season' flows remain intact.

2.5 Jurisdiction update

NORMAC noted an apology from Darren Roy (state representative). The jurisdictional update paper was taken as read. The MAC suggested the report should include information on all relevant jurisdictions (i.e. Qld, NT, WA) and recommended that AFMA write to each jurisdiction asking them to coordinate a joint report for future MAC meetings.

It was advised that the VMS requirements proposed in Queensland are not compatible with other fisheries. Operators fishing in Queensland fisheries are expected to purchase a new VMS unit regardless of whether this unit will work in other fisheries. There is concern regarding the cost of purchasing a new unit and also regarding the compliance risk for fishers operating in more than one fishery (e.g. Qld and Commonwealth fisheries). The MAC suggested that AFMA should liaise with Queensland fisheries to ensure the new VMS system being rolled out will not cause any unnecessary compliance problems for NPF operators.

ACTIONS:

- AFMA to write to Qld, NT and WA asking them to coordinate a joint jurisdictional report for future NORMAC meetings
- AFMA to liaise with Queensland fisheries to ensure the new VMS system being rolled out will not cause any unnecessary compliance problems for NPF operators.

2.6 Conservation report

The MAC noted a report from the environment/conservation member on some global and domestic trends regarding conservation. There was a discussion about ways the fishery is reducing the impact from plastic products on the environment. It was suggested that the way the NPF is reducing its plastic footprint could be better communicated. The environment/conservation member noted the benefits of communicating any good work undertaken by NPFI on environmental issues.

3 NPF Bycatch Strategy

Bycatch Reduction Strategy

NPFI gave an update on the Bycatch Reduction Strategy which aims to reduce small bycatch across the NPF by 30 per cent over 3 years. In 2018, three scientific trials were conducted using different bycatch reduction devices (BRDs) including two modified Toms Fisheye's and the FishEX70. One of the Toms Fisheye's and the FishEX70 achieved the target reduction of 30 per cent with minimal prawn loss. NORMAC approved the FishEX70

for use in the 2018 tiger prawn season and were asked to support the addition of the successful Toms Fisheye to the list of approved devices for use in 2019.

NPFI advised that the proposed approach for 2019 is that the current BRD requirements remain with the following additional requirements:

- from 1 May until the end of the banana prawn season each vessel targeting tiger prawns with tiger prawn nets is to have a BRD that has proven to reduce bycatch by 30 per cent installed in at least 50 per cent of its nets and an approved BRD in the remaining nets, and
- during the tiger prawn season each vessel is required to have a BRD that has proven to reduce bycatch by 30 per cent installed in at least 50 per cent of its nets and an approved BRD in the remaining nets approved

In 2020, each boat targeting tiger prawns will be required to have a BRD that has proven to reduce bycatch by 30 per cent installed in all of its nets. The MAC endorsed the addition of the Toms Fisheye as proposed for use in 50 per cent of nets in 2019.

Sawfish

NORMAC noted that NPFI is working with several research providers to improve management and mitigation of sawfish interactions in the NPF. Current and proposed projects aim to address the following research questions:

- Can sawfish bycatch within the NPF be mitigated using an electric field? Flinders University, Charles Darwin University
- How does trawl gear configuration affect sawfish catches: mitigating interactions with sawfish in the NPF, CSIRO
- Is the Northern Prawn Fishery interacting with a single population, or multiple populations of the Narrow Sawfish Anoxypristis cuspidata?, Charles Darwin University.

Dr Peter Kyne and Dr Barbara Wueringer will be attending the pre-season briefings in March 2019 to provide education to skippers and crew on sawfish identification. Sawfish identification is also being improved through the use of cameras. Skippers photograph sawfish for species identification and validation by CSIRO and NPFI.

Future bycatch strategy

NORMAC noted the NPFI's plan to develop a new bycatch strategy over the coming months. The strategy will focus on sawfish and sea snake mitigation (taking account of the EPBC export approval conditions), the risks to/needs of the NPF and the outputs of the February 2019 NPF Research Strategy workshop. The MAC discussed further areas that should be covered by the strategy including outcomes from the ERA and improving logbook reporting.

4 MSC

The Chair welcomed Kevin Mcloughlin from MRAG Americas who is conducting the MSC principle one component (stock status, harvest strategy etc.) of the first surveillance audit

of the NPF. The surveillance will review any changes in science and management, and will monitor progress in closing out conditions. The inclusion of red endeavour prawns as a sensitivity test in the tiger prawn fishery assessment was noted as an important component of the action plan requirements for the two red endeavour prawn conditions. There is one condition for redleg banana prawns and MSC noted that appropriate information has been provided to assist with writing the surveillance report for this species, with any further questions to be addressed through discussion with science, industry and/or management representatives.

NORMAC sought clarification on how the MSC guidelines apply for multi-species fisheries. MSC noted that the NPF was assessed under version 1.3 MSC certification requirements and that under more recent version 2.0 requirements there is updated guidance for multi and mixed species fisheries which is potentially relevant to the NPF and its maximum economic yield approach to managing the fishery. The new guidance provides recognition that fishing on one stock has impacts on others and that compromise is needed to achieve what is considered the best yield from a combination of stocks. This may be relevant in the choice of target reference points in multi-species fisheries such as the NPF.

5 JBG Redleg Banana Prawn sub-fishery

NORMAC noted that a pre-proposal for the management strategy evaluation (MSE) of the redleg banana prawn sub-fishery has been drafted and will be considered at the next NPRAG meeting. Following comments from the RAG, a full proposal will be drafted for NORMAC endorsement before being submitted to the AFMA Research Committee.

6 Broodstock

NORMAC noted that AFMA has received a request to increase the total number of broodstock individuals permitted to be collected from the NPF. The request is for 20 000 individuals, up from 9000 in 2018. It was advised that NPRAG would be discussing the request at its meeting the following day. Following the RAG's advice, NORMAC will provide a response to AFMA out-of-session.

ACTION:

 AFMA to provide NORMAC with a broodstock discussion paper for its comment following the NPRAG's recommendation.

7 NPF Management Plan

NORMAC noted the draft Northern Prawn Fishery Management Plan and discussed the proposed changes. A few suggestions that arose from the discussion included:

• The link between a boat SFR and a gear SFR could be clarified. To fish in the NPF both a boat SFR and gear SFRs are required but the wording in the current draft makes it appear that you can fish in the NPF with just a boat SFR.

• Review the definition of 'harvest strategy' as it makes reference to biological and economic objectives but no reference to social objectives.

The changes were generally accepted noting that the final plan will be brought to NORMAC before finalising the plan. NORMAC members indicated they would provide further comments out-of-session and would review the plan after it had gone through the legal drafting process.

ACTIONS:

- NORMAC to provide comments on the draft NPF management plan out-ofsession
- AFMA to return the NPF management plan to NORMAC for finalising once it has gone through the legal drafting process.

8 Recreational/Indigenous expertise

NORMAC noted there is potential for increasing sea claims under the Native Title Act in the area of the NPF and discussed the need for Indigenous expertise on the MAC. It was suggested that there are many Indigenous communities in the area of the NPF and it may be difficult to find an individual with the expertise to speak on behalf of so many different groups. It is also common for an individual to be unwilling to speak on behalf of another group they do not represent. It was advised that MACs and RAGs are expertise based bodies, not representative bodies, and the individual would inform on Indigenous matters not represent any particular interest. Nonetheless, it was suggested that there is only a limited number of Indigenous people who possess the expertise at the desired level.

NORMAC noted that NPFI currently liaise with Indigenous groups through its attendance at native land council stakeholder meetings regularly. It was suggested that the legislation requires MACs/RAGs 'to pay interest to' Indigenous fishing interests. The MAC could consider the implications of any of its recommendations on Indigenous communities as a matter of process.

9 Five-year strategic research plan

NORMAC noted that on Tuesday 19 February 2019, a strategic planning workshop was held to identify the NPF research needs for the short to medium term. From the research needs identified at this workshop, a revised five-year plan will be drafted for NORMAC's support out-of-session.

10 Other business

Amendment to the NPF gear Direction

NORMAC noted that officers from the United States (US) US National Oceanic and Atmospheric Administration (NOAA) attended the July 2018 pre-season briefings and compliance inspections to recertify the NPF to import catch into the US. The Officers were ensuring that NPF sea turtle protection programs are comparable to that of the US. The

US Officers identified an area for improvement in the current regulations to be comparable in effectiveness to that of the US. This being to update the requirement for more defined escape opening specifications.

NORMAC noted the reason for the need for the change related to the 'Horizontal Cut', as there is a considerable difference in effectiveness between the current regulations and US regulations with respect to turtle escapement from nets. Currently, a number of operators in the NPF sew a rope along the 'Horizontal Cut' to reinforce and increase the longevity of the nets. However, as the nets wear this rope can become loose and impede animals escaping the net.

NORMAC supported an amendment to the NPF gear Direction to align the wording with that used by the United States regarding TED escape openings, making it clear that the escape opening must be completely clear of any obstruction or modifications, including sewing a rope along the 'Horizontal Cut'. It was also suggested that operators be informed and educated of the amendment at the 2019 pre-season briefings.

Redleg banana prawn harvest strategy decision rules

NORMAC noted that the current harvest strategy decision rules regarding redleg banana prawns are based on a minimum of 100 boat days, and the adoption of a limit reference point (LRP) of 390 kg CPUE for the period from August to October. CSIRO advised that preliminary data from 2018 indicates the CPUE value was above the LRP during the reporting period which means both seasons in 2019 will be open to fishing for redleg banana prawns. The southern oscillation index (SOI) and rainfall data were also assessed against CSIRO's environmental model. The data suggests that there is unlikely to be a large environmental impact on the redleg banana prawn fishery in 2019.

NPF species categorisation

NORMAC was advised that the NPF species categorisation into primary, byproduct, bycatch or TEPs will be reviewed. Under the new Commonwealth Harvest Strategy and Bycatch Policies, the category each species is classed in will have implications on the amount of data required and level of assessment. It is therefore prudent for the MAC to carefully consider how each species is categorised. The MAC requested more information regarding the percentage each species contributes to total catch, GVP, the implications of listing each species in a certain category, and the implications of re-categorising primary species. AFMA advised it will circulate a discussion paper out-of-session addressing all of the MACs questions for its consideration.

ACTION:

 AFMA to provide NORMAC with a discussion paper out-of-session on species categorisation for ERA purposes and implications under the revised harvest strategy and bycatch policies.

Signed (Chairperson):

John Glaister

27 March 2019

List of Attachments

- 1) NORMAC annotated agenda
- 2) NORMAC declared conflicts of interest
- 3) NORMAC action items

Draft Agenda

Northern Prawn Fishery Management Advisory Committee (NORMAC) meeting

20 February 2019

9.00 am - 5.00 pm (Eastern Standard Time)

Title	Presenter	Outcome
 Preliminary Business 1.1 Chair's opening remarks Apologies: Ron Earle, Darren Roy 1.2 Adoption of Agenda 1.3 Declaration of interests 1.4 Minutes February 2018 meeting 1.5 Actions arising 1.6 Correspondence sent/received 	Chair	Noting/Discussion
2. Reports/ Updates 2.1 NPF Industry report 2.2 AFMA management report 2.3 NPRAG update 2.4 Northern development update 2.5 Jurisdictional update 2.6 Conservation report Outcomes: The MAC notes the various update reports.	NPFI AFMA NPRAG Chair CSIRO Darren Roy Claire van der Geest	Noting
 NPF Bycatch Strategy BRD trials and proposal for 2019 Sawfish/sea snakes Reporting Revised Commonwealth bycatch policy Outcome: The MAC recommends the next steps to implementing the industry bycatch strategy and discusses options to further mitigate interactions with sawfish/sea snakes; the MAC to consider the implications to the revised Commonwealth bycatch policy.	NPFI/AFMA	Recommendation
4. MSCFirst surveillance audit	Kevin Mcloughlin	Discussion

Title	Presenter	Outcome
Outcome: The MAC to provide information to MSC assessors as part of the fishery's first surveillance audit.		
JBG Redleg Banana Prawn sub-fishery NPRAG proposal for Management Strategy Evaluation (MSE) Outcome: The MAC to note that a recommendation will be sought out-of-session on the NPRAG's proposal for an MSE.	AFMA	Noting
Broodstock Update on NPF broodstock developments Outcome: The MAC to note recent requests for an increased supply of broodstock form the NPF.	AFMA/NPFI	Noting
 7. NPF Management Plan Review the revised NPF management plan Implication of the revised Commonwealth Harvest Strategy Policy Outcomes: The MAC to discuss proposed changes to the NPF management plan and consider implications of the revised Commonwealth Harvest strategy Policy. 	AFMA	Discussion
8. Recreational / Indigenous expertise • Fisheries Legislation Amendment (Representation) Bill 2017 Outcomes: The MAC to discuss the need for additional expertise on NORMAC.	AFMA	Discussion
9. Five-year strategic research plan • Review the outcomes from the strategic workshop Outcomes: The MAC to recommend the priorities for the fishery to include in the AFMA 5-year research plan.	AFMA	Recommendation
10. Other business/ next meeting	Chair	Noting

Attachment 2 – NORMAC Declared Conflicts of Interest

Participant	Membership	Interest declared
John Glaister	NORMAC Chair	NORMAC Chair. No pecuniary interest.
David Carter	Industry member	NPF Statutory Fishing Right (SFR) holder, interested in the successful management of a profitable and sustainable fishery.
Greg Albert	Industry member	NPF SFR holder, interested in the successful management of a profitable and sustainable fishery.
Arthur Raptis	Industry member	NPF SFR holder, interested in the successful management of a profitable and sustainable fishery.
Ian Boot	Industry member	Managing Director of Austfish, a company which has SFR holdings in the fishery.
Ian Knuckey	Research member	Director - Fishwell Consulting Pty Ltd Director - Olrac Australia – a company associated with electronic logbooks. Scientific member - NORMAC Chair - Tropical Rock Lobster RAG Chair - Victorian Rock Lobster RAG Scientific member - SESSF shark RAG Scientific member – GABRAG Works with Indigenous communities in capacity building activities Chair - South Australia's Gulf of St Vincent prawn fishery's research committee Scientific member - South Australia's Gulf of St Vincent prawn fishery's management advisory committee Various research interests in other Commonwealth and State fisheries.
Claire van der Geest	Environment/conservation member	Consultant to the International Seafood Sustainability Foundation Consultant to TerraMar Consulting's SeaNet Indonesia program.
Steve Bolton	AFMA member	AFMA employee. No pecuniary interest.
Steve Eves	NORMAC EO	NORMAC EO and AFMA employee. No pecuniary interest.
Annie Jarrett	Invited participant – NPFI	CEO of NPF Industry Pty Ltd (NPFI). No pecuniary interest in relation to holding NPF SFRs. MSC Stakeholder Council Member, Director of MSC Asia Pacific, Chair of the Australian Council of Prawn Fisheries (ACPF).
Trevor Hutton	Observer – CSIRO	CSIRO employee. Participates in projects related to the NPF that currently receives funding and will seek to receive funding in the future.
Phil Robson	Observer – Raptis	Fleet Manager for company with SFR holdings in the fishery.
Andy Prendergast	Observer – Austral	Fleet Manager for company with SFR holdings in the fishery.

Participant	Membership	Interest declared
Adrianne Laird	Observer – NPFI	Contractor to NPFI. No pecuniary interest.
David Power	Observer – AFMA	AFMA NPF Manager and NPRAG member. No pecuniary interest.
Bryan van Wyck	Observer – Austral	Employee of a company with SFR holdings in the fishery.
John Palmer	Observer – WA Seafoods	NPF SFR holder, interested in the successful management of a profitable and sustainable fishery.
Rik Buckworth	Observer – NPRAG scientific member	Scientific Member - South East RAG Scientific Member - Torres Strait Finfish RAG Chair - NT Research Advisory Committee (FRDC) Director - Aquatic Remote Biopsy Pty Ltd Director - Sea Sense Australia Pty Ltd Current consultancy contract with NPFI to review Red Endeavour prawns Current consultancy contract with the Anindilyakwa Land Council in a project evaluating the opportunities for development of aquaculture in the Groote Eylandt Archipelago. Researcher involved particularly in stock assessment research in NPF. Has in the past and may in future seek and receive funding for research in the fishery.
Robert Curtotti	Observer – ABARES	Economics research provider. No current pecuniary interest in fishery. Potential to seek and receive funding for research in the fishery in future.
Eva Plaganyi	Observer – CSIRO	Research provider involved particularly in stock assessment research in NPF. Has in the past and may in future seek and receive funding for research in the fishery.
Rob Kenyon	Observer – CSIRO	CSIRO employee. Participates in projects related to the NPF that currently receives funding and will seek to receive funding in the future.
Roy Deng	Observer – CSIRO	CSIRO employee. Participates in projects related to the NPF that currently receives funding and will seek to receive funding in the future.
Gary Fry	Observer – CSIRO	CSIRO employee. Participates in projects related to the NPF that currently receives funding and will seek to receive funding in the future.

Attachment 3 – NORMAC action items

Person/Organisation	Actions arising	Progress		
responsible		update		
NORMAC 80 – 14 February 2017				
AFMA	NORMAC to write to GrowNorth expressing the NPF industry's interest in being considered through the Northern Water's developments	Complete – overtaken by recent events, GrowNorth no longer exists as an entity.		
AFMA	AFMA to provide a revised draft of the Management Plan at the next meeting	Complete – agenda item 7		
NORMAC 81 – 22 Februar				
AFMA	AFMA to confirm who is responsible for reporting the sale price of SFRs and what the data is being used for	Complete – agenda item 2.2		
AFMA	AFMA to follow up with the relevant bodies [on coordination between gear surveys] and provide feedback [on the purpose and status of the surveys]			
AFMA	AFMA to confirm Commission meeting dates for NPFI	Complete		
AFMA	AFMA to confirm and inform industry as to a) what exactly is being changed regarding passwords [e-log systems matching Go-Fish]; and b) the reason for the change	Complete – agenda item 2.2		
AFMA	AFMA to amend the record to reflect the reduction in the proportion of unidentified sawfish being reported	Complete		
NPFI/AFMA	NPFI and AFMA to conduct scientific trials on the single Kon's Covered Fisheye (KCF) and Square Mesh Panel (SMP) at the end of the banana season	Complete – trials were conducted on a single KCF. SMP trials were not conducted.		
NPFI	NPFI to review the current list of BRDs with view to removing any that don't meet the reduction target	Complete – agenda item 2.1		
AFMA/NPFI	AFMA to work with NPFI to update the gear direction to be implemented for the start of the tiger season 2018	Complete		
AFMA/NPFI	AFMA to work with NPFI to finalise the [Autonomous Adjustment Indicators] report and respond to the Commission for the May 2018 Commission meeting	Complete		
Phil Robson	Phil Robson to develop a [stretched mesh measuring] guide in consultation with other industry members and circulate to AFMA Compliance for agreement	Complete – guide developed but decision made not to implement.		
AFMA	AFMA to determine whether a sub- committee could be set up as the primary contact [to support] the ERA [and provide feedback to CSIRO during the initial stages]	Complete – sub- committee formed at NPRAG.		