Pandalus borealis SFA 5, 6 Fishery – Annual Surveillance Report



## Surveillance Report Pandalus borealis SFA 5, 6 Fishery

Certificate No.: MML-F-126

Intertek Moody Marine December 2012

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## **1.0 GENERAL INFORMATION**

**Scope against which the surveillance is undertaken:** MSC Principles and Criteria for Sustainable Fishing as applied to the Canadian Association of Prawn Producers, the Fogo Island Cooperative Society and the Northern Coalition Offshore Northern Shrimp Trawl Fishery.

**Species**: Pandalus borealis

Area: Shrimp Fishing Area 5,6

Method of capture: Trawl

Date of Surveillance Visit:	22 November 20	012		
Initial Certification	Date: 24 June 2	011	Certificate Ref: M	IML-F-126
Surveillance stage	1 <sup>st</sup>	2 <sup>nd</sup>	3rd	4th
Surveillance team:	Lead Assessor: Assessor(s): Ho		s, Colin Bannister	
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## 2.0 RESULTS, CONCLUSIONS AND RECOMMENDATIONS

This report contains the findings of the first surveillance cycle in relation to this fishery. The audit was announced by MSC on October 18, 2012 and the audit team consisted of Don Aldous (Lead Auditor and P3 Expert), Howard Powles (P2 Expert), and Colin Bannister (P1 Expert). All three members were involved in the initial assessment of the fishery and both Don Aldous and Howard were on site during the audit with Colin Bannister working remotely. This audit was not combined with any other fishery.

The client's response to the Conditions of Certification was set out in a Client Action Plan (CAP), which was appended to the Public Certification Report. Progress associated with the actions set forth in the CAP was examined as a part of this surveillance audit. For each Condition, the report sets out progress to date. This progress has been evaluated by the Intertek Moody Marine (IMM) Audit Team (set out below as 'Observations' and 'Conclusion') against the commitments made in the CAP. This assessment includes a re-evaluation of the scoring allocated to the relevant Performance Indicators (PIs) in the original MSC assessment. Where the requirements of a Condition are met, the PI is re-scored at 80 or more and the Condition is "closed out".

The surveillance audit methodology, as defined in the current version of the MSC Certification Requirements is followed in this audit and so the MSC criteria for determining the level of surveillance audit that the fishery requires is followed (see Annex 3).

#### **Information Sources:**

#### Meetings

All stakeholders from the full assessment were contacted by email prior to the surveillance audit site visit. The notice of the annual surveillance audit was posted at msc.org on October 15, 2012. Four meetings took place with regard to this audit:

- November 21, 2012: meeting with the client's representative
- November 21, 2012: meeting with the client's representative and Department of Fisheries and Oceans
- November 22: meeting with representatives of the provincial department of Fisheries and Aquaculture.
- November 23, 2012: meeting with a representative of the Food and Fisheries Allied Workers Union.

#### **Reports etc**

DFO 2009. Policy for Managing the Impacts of Fishing on Sensitive Benthic Areas. http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/fish-ren-peche/sff-cpd/benthi-eng.htm, consulted November 19, 2012

DFO 2010a. Occurrence, sensitivity to fishing, and ecological function of corals, sponges, and hydrothermal vents in Canadian waters. Can. Sci. Adv. Sec. Sci. Adv. Rep. 2010/041: 54 pp.

DFO 2010b. Integrated Fisheries Management Plan: Northern Shrimp - Shrimp Fishing Areas (SFAs) 0-7 and the Flemish Cap. Effective January 2007, modified and dated 2010-05-19. http://dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-gmp/shrimp-crevette/shrimp-crevette-2007-eng.htm

DFO 2010c. Assessment of Northern Shrimp (*Pandalus borealis*) in SFA 0, 2, 3 and Striped Shrimp (*Pandalus montagui*) in SFA 2, 3 and 4 west of 63°W. DFO Can. Sci. Advis. Sec. Sci. Advis. Rep. 2010/024.<u>http://www.dfo-mpo.gc.ca/decisions/fm-2012-gp/atl-031-eng.htm</u>

DFO 2011a. Assessment of Northern Shrimp (*Pandalus borealis*) and Striped Shrimp (*Pandalus montagui*) in Western and Eastern assessment zones (SFA 2 and 3). DFO Can. Sci. Advis. Sec. Sci. Advis. Rep. 2011/010.

DFO 2011b. Science-based encounter protocol framework for corals and sponges. Can. Sci. Adv. Sec. Sci. Adv. Rep. 2011/048: 16 pp.

DFO 2012a. Monitoring update for Northern Shrimp (*Pandalus borealis*) and Striped Shrimp (*Pandalus montagui*) in the western and eastern assessment zones (SFA 2 and 3). DFO Can. Sci. Advis. Sec. Sci. Resp. 2012/001.

DFO 2012b. Monitoring update for the assessment of Northern Shrimp (*Pandalus borealis*) in Shrimp Fishing Areas 4-6 (NAFO Divs. 2G-3K). DFO Can. Sci. Advis. Sec. Sci. Resp. 2012/003.

DFO 2012c. Ecological risk assessment framework (ERAF) for cold water corals and sponge dominated communities. Draft August 24, 2012. 18 pp.

DFO 2012d. Fisheries Management Decisions. Northern shrimp in Shrimp Fishing Areas 0, 1 and 7 <u>http://www.dfo-mpo.gc.ca/decisions/fm-2012-gp/atl-030-eng.htm</u>

DFO 2012e. Fisheries Management Decisions. Northern Shrimp in Shrimp Fishing Areas 2-6 Intertek Moody Marine Ltd 2012. Marine Stewardship Council (MSC) Public Certification Draft Report for Sustainable Fisheries Greenland, West Greenland Cold Water Prawn Trawl Fishery, v.3, 30 Oct 2012: 238p.

Kenchington, E., C. Lirette, A. Cogswell, D. Archambault, P. Archambault, H. Benoit, D. Bernier, B. Brodie, S. Fuller, K. Gilkinson, M. Lévesque, D. Power, T. Siferd, M. Treble and V. Wareham 2010. Delineating coral and sponge concentrations in the biogeographic regions of the east coast of Canada using spatial analyses. Can. Sci. Adv. Sec. Res. Doc. 2010/041: 208 pp.

Moody Marine Ltd 2011a. Marine Stewardship Council (MSC) Public Certification Report for the Canadian Association of Prawn Producers and the Northern Coalition, Canadian Offshore Striped Shrimp (*Pandalus montagui*) Trawl Fishery - Shrimp Fishing Area 2, 3 and 4, v. 5, 23 Jun 2011:176p.

Moody Marine Ltd 2011b. Marine Stewardship Council (MSC) Public Certification Report for the Canadian Association of Prawn Producers and the Northern Coalition, Canadian Offshore Northern Shrimp (*Pandalus borealis*) Trawl Fishery - Shrimp Fishing Area 1, v. 5 of 20 Mar. 2012: 183p.

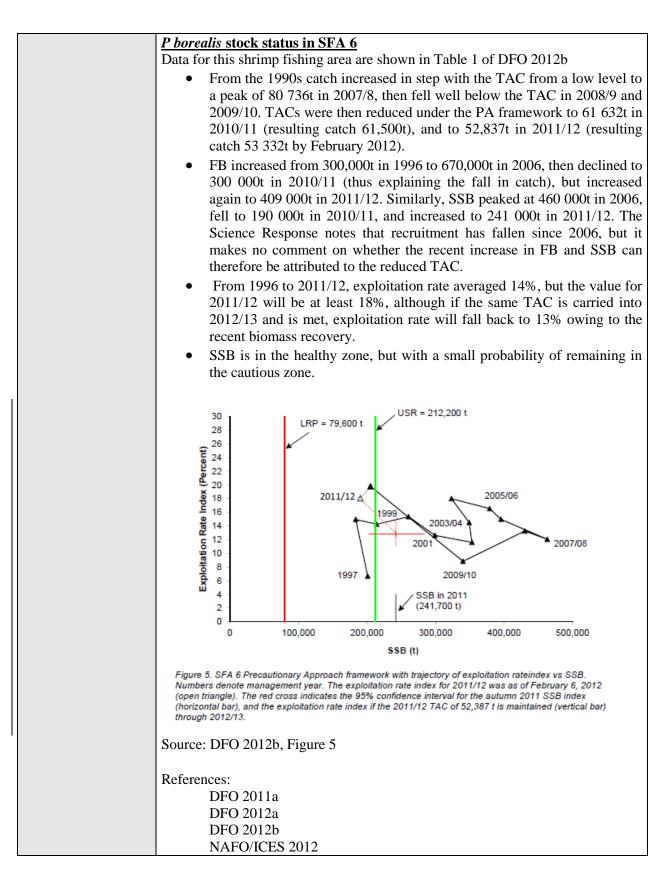
Moody Marine Ltd 2011c. Marine Stewardship Council (MSC) Public Certification Report for the Canadian Association of Prawn Producers and the Northern Coalition, Canadian Offshore Northern Shrimp (*Pandalus borealis*) Trawl Fishery - Shrimp Fishing Areas 2, 3, 4, 5 and 6, v. 5 of 23 Jun 2011: 183p.

Moody Marine Ltd 2011d. Marine Stewardship Council (MSC) Public Certification Report for the Canadian Association of Prawn Producers and the Northern Coalition, Canadian Offshore Northern Shrimp (*Pandalus borealis*) Trawl Fishery - Shrimp Fishing Area 7 v.5 of 23 Jun 2011: 176p.

#### **Standards and Guidelines used:**

- 1. MSC Principles and Criteria
- 2. MSC Certification Requirements v1.2
- 3. Guidance to the MSC Certification Requirements, v 1.1

	General Considerations
Update on Stock	
Status	Shrimp stock status in Canadian waters is usually monitored and assessed using fishery catch, fishery catch per effort (CPUE), survey fishable biomass (FB), female spawning biomass (SSB), and estimates of the exploitation rate (either reported exploitation rate = reported catch/FB, or potential exploitation rate = total allowable catch/FB).
	For SFAs 2-6, the Canadian Zonal Advisory Process for northern and striped shrimp now takes place on a biennial schedule, with full assessments in every odd year (2011 and 2013), and updates of precautionary indices in intervening years as required. For example, the last assessment for SFAs 2 and 3 was carried out in 2011 (DFO 2011a), but an update was undertaken on 20 February 2012 under the Special Response process (DFO 2012a) which reviewed the state of the stocks at the end of the 2011/12 fishing season. Under this cycle, stock status in 2012/13 will not be fully assessed or subject to the RAP process until 2013 but for some SFAs the updates have estimated a likely exploitation rate for 2012/13 assuming that the TAC for that year will be taken.
	Phorealis stock status in SEA 5
	<ul> <li><i>P borealis</i> stock status in SFA 5         Data for this shrimp fishing area are shown in Table 2 of DFO 2012b         Since 1990 catch has increased in line with the TAC, reaching the 23,300t TAC in 2004, and being maintained around that level since. It is expected that the 23 000t TAC will have been taken in both 2011/12 and 2012/13.     </li> <li>The southern part of SFA5 is surveyed every year, but the northern area was only surveyed intermittently before 2010. For years when the whole area was sampled since 2001 FB has been reasonably stable in the range 128 000t-155 000t, and SSB has been stable in the range 65,000t.</li> <li>The resulting estimate of exploitation rate varied from 15 to 20%, with an average of 15%, but will be 16% for 2011/12 if the TAC was taken.</li> <li>SSB is assessed to be in the healthy zone.</li> </ul>
	2002 dc 6 -
	SSB in 2011 75,500 t
	0 20,000 40,000 60,000 80,000 100,000 120,000 SSB (t)
	Figure 10. SFA 5 Precautionary Approach framework with trajectory of exploitation rate index vs SSB. Numbers denote management year. The exploitation rate index for 2011/12 was as of February 6, 2012 (open triangle). The red cross indicates the 95% confidence interval for the autumn 2011 SSB index (horizontal bar), and the exploitation rate index if the 2011/12 TAC of 23,300 t is maintained (vertical bar) through 2012/13.
	Source: DFO 2012b, Figure 10.



Total Allowable Catch (TAC) in most recent fishing year	The <i>Pandalus borealis</i> TAC for the most recent complete year (2011-2012) in SFAs 5 and 6 was 75,687t. An uncaught portion of this was carried over into the next quota year.
Unit of Certification share of TAC	100%
Client share of TAC	100%
Green Weight <sup>1</sup> of catch taken by	Most recent calendar year (2011-12): 84,949t
client group	Previous year (2010-11): 74,137t

<sup>&</sup>lt;sup>1</sup> The weight of a catch prior to processing

Condition	1
РІ	2.4.1 Habitat Outcome
	The fishery does not cause serious or irreversible harm to habitat structure, considered on a regional or bioregional basis, and function.
SG 60	The fishery is unlikely to reduce habitat structure and function to a point where there would be serious or irreversible harm.
SG 80	The fishery is highly unlikely to reduce habitat structure and function to a point where there would be serious or irreversible harm.
SG 100	There is evidence that the fishery is highly unlikely to reduce habitat structure and function to a point where there would be serious or irreversible harm.
Score	60
Scoring Rationale	Given its mode of operation, this fishery is unlikely to reduce habitat structure and function to a point where there would be serious or irreversible harm, but analyses of fishery impacts would be required to increase certainty, particularly with respect to potential impacts on hard coral areas; accordingly it cannot be said that the fishery is "highly unlikely" to have unacceptable impacts.
Condition	The client is required to present evidence by the fourth annual audit that the fishery is highly unlikely to reduce habitat structure and function to a point where there would be serious or irreversible harm.
Client Action Plan	<ul> <li>To achieve the 3 habitat related conditions: CAPP and NC will collaborate with other stakeholders and the Department of Fisheries &amp; Oceans Canada (DFO), towards development of a program (a) to enhance the collection of information, and (b) to conduct an evaluation of the nature and distribution of habitat types, their vulnerability, and the related impact of otter trawl fishing for shrimp in this area. A "project team" will be assembled for this purpose, which more generally will also ensure implementation of DFO's Sustainable Fisheries Framework Policies, including with respect to Sensitive Benthic Areas as it applies to the conduct of shrimp fishing in this area.</li> <li>By the first annual audit there will documented evidence that a plan for the assembly of available information and a program for evaluation has been developed by the "project team", and data collection and assembly for this purpose has commenced.</li> <li>By the second annual audit there will documented evidence showing the information that has been assembled and the results of analysis to date.</li> <li>By the third annual audit there will documented evidence showing that at least a provisional evaluation has been completed.</li> <li>By the fourth annual audit there will be documented evidence that at least a provisional evaluation has been completed.</li> </ul>

Conclusions of the previous audit	This is the first audit.
Client Progress	The client advised that the Northern Shrimp Advisory Committee (NSAC) has formed an MSC Working Group, which functions as the "project team". The Project Team reviewed and generally endorsed a draft plan at its meeting held May 15/12 and subsequently reviewed/accepted minor adjustments that are reflected in the attached plan. Data collection has commenced.
Observations	The Audit Team reviewed the "Elements of a Strategy to evaluate, manage & monitor the impact of the Northern Shrimp Fishery on Habitats and Ecosystems within the respective certification units" discussed by the NSAC MSC Working Group on November 1, 2012. This outlines a stepwise approach to assembling information, assessing impacts, and putting in place additional measures to manage impact of the fishery on habitats and ecosystems, if necessary. The team sought clarification on several elements of the strategy.
	With respect to the Ecological Risk Assessment Framework (ERAF) to be used in assessing risk of serious or irreversible harm to coral and sponge areas, the Audit Team reviewed a draft of this Framework which is being developed by DFO (DFO 2012c). The approach is consistent with other ecological risk approaches, including the Scale Intensity Consequence Analysis (SICA) approach used by MSC, and as such appears to be appropriate for use in this fishery. The team noted that the Framework applies to "significant benthic areas", and that limited guidance is provided on identifying these.
	The team noted that assessment and management actions for benthic habitats and ecosystems would be triggered if analyses of the fisheries footprint indicated that 10% of sensitive habitats or 30% of less sensitive habitats were affected by the fishery, and questioned the source of the 10%/30% thresholds. The client advised that the 30% threshold (assessment and management action would be triggered if analyses determined that the fishery impacts more than 30% of less sensitive habitats for more than 100 days) was based on the MSC guideline for determining whether it was "highly likely" that the fishery was not causing serious or irreversible to habitats and ecosystems (MSC Certification Requirements Table CB18 p.C88) – there should be no more than a 30% probability that the true status of the component is within the range where there is risk of serious or irreversible harm. While noting that the two contexts were different (probability of harm vs proportion of habitat impacted by the fishery) the team agreed that the 10% threshold for assessment and management action on sensitive habitats was a judgment based on the fact that a higher level of caution should be applied to sensitive than to non-sensitive habitats. The team agreed that this was reasonable; although not based on modeling or analysis, this threshold is a reasonable judgment-based level to guide action.
	action, the team noted that it would be critical to clearly define "of what" 10% and 30% were being taken – these percentages should be applied to habitats within the depth range or general area of operation of the fishery, not, for example, to all continental shelf areas.
	The team was advised that data assembly had begun as indicated in the client action plan and in the "Elements of a Strategy". With respect to the footprint of

	the fishery, information on distribution of offshore fishing effort has been compiled, and information on distribution of effort by the inshore fleet will be compiled in the near future. Information on distribution of bottom habitats will be available from DFO and other sources. A consultant with prior experience on mapping fishery footprints has been engaged to do the data mapping. A template and analytical approach which have been used by the client to assess habitat and ecosystem impacts in other fisheries will be used in this analysis. The client has compiled a bibliography of studies on impacts of shrimp fisheries on habitats and ecosystems.
	DFO is not directly involved in implementing the Strategy but will be providing information (fishery distribution, habitat distribution) and will be contributing to oversight of the work through their participation on the NSAC.
	In addition to the Strategy to be implemented by the client, the team was advised of the continuing development of a strategy for protection of sponge-coral areas in Newfoundland-Labrador Region of DFO. This will be part of DFO's Coral and Sponge Conservation Strategy for Eastern Canadian Waters. In 2010/11 DFO's Newfoundland and Labrador and Central and Arctic Regions consulted with stakeholders (governments, Aboriginal, fishing industry, oil and gas, ENGOs) on elements to be included in the strategy. One outcome of these consultations was specific targets and actions to achieve conservation, management and research objectives. Subsequently development of the strategy was expanded to cover all Atlantic and eastern Arctic areas. Once consultations and definition of targets and actions in the remaining areas (Maritimes, Gulf, Québec Regions) have been completed, further consultations on a draft strategy will be undertaken. Consultations on the draft strategy are expected to be complete by March 31, 2013. The strategy will be finalised and implemented following this date.
	<ul> <li>Development of this habitat strategy follows from a series of policy and science initiatives related to impacts of fishing in benthic environments in recent years, including, for example:</li> <li>development of a Policy on Managing the Impacts of Fishing on Sensitive Benthic Areas (DFO 2009)</li> <li>mapping of coral and sponge areas, based on available information, in all Atlantic Canadian ocean areas, and establishing thresholds for protecting these areas (Kenchington et al 2010; DFO 2010a)</li> <li>development of science advice on encounter protocols for fishing gear which may impact corals and sponges (DFO 2011b)</li> </ul>
	References
	DFO 2009 DFO 2010a DFO 2011b DFO 2012c Kenchington, <i>et al</i> 2010
Conclusion	The Audit Team concludes that progress is on track toward meeting the condition in Year 4 of the certification, and that milestones set for the first annual audit in the Client Action Plan have been met. In particular, a project team has been established to carry through work required, a draft strategy has been prepared to address the conditions, and data assembly has begun.
	The Team considers that the "Elements of a Strategy" outlined by the project provide an appropriate framework for meeting the Condition by Year 4 of the

certification. We note that with respect to the 10% and 30% thresholds for action on sensitive and non-sensitive habitats, it would be important to clarify that these percentages apply to habitats within the general area where the fishery operates (for example within the depth range in which the fishery operates).
The Team notes that the strategy will address both sensitive and less sensitive habitats and ecosystems, a broader scope than the recent DFO initiatives, which focus on protecting coral-sponge areas.
Progress is considered on target with respect to meeting conditions and milestones. While progress has been made at meeting the 80SG, there was no re-scoring of this PI during the first surveillance audit, therefore the score remains at 60.

Condition	2
PI	2.4.2 Habitat Strategy
	There is a strategy in place that is designed to ensure the fishery does not pose a risk of serious or irreversible harm to habitat types.
SG 60	There are measures in place, if necessary, that are expected to achieve the Habitat Outcome 80 level of performance.
	The measures are considered likely to work, based on plausible argument (e.g general experience, theory or comparison with similar fisheries/habitats).
SG 80	There is a partial strategy in place, if necessary, that is expected to achieve the Habitat Outcome 80 level of performance or above.
	There is some objective basis for confidence that the partial strategy will work, based on some information directly about the fishery and/or habitats involved.
	There is some evidence that the partial strategy is being implemented successfully.
SG 100	There is a strategy in place for managing the impact of the fishery on habitat types.
	The strategy is mainly based on information directly about the fishery and/or habitats involved, and testing supports high confidence that the strategy will work.
	There is clear evidence that the strategy is being implemented successfully, and intended changes are occurring. There is some evidence that the strategy is achieving its objective.
Score	70
Scoring Rationale	All scoring issues of the SG 60 are in place, as measures are in place to reduce impacts and these are considered likely to work. The suite of measures (light gear design; fishing mainly on mud-sand bottoms; coral conservation policy by the offshore fleet and developing DFO coral/sponge policy; voluntary closed areas) is considered a partial strategy as there is an understanding of how they work to conserve habitat and there is an awareness of the need to further modify the strategy if necessary. There is evidence that the strategy is being implemented successfully, since bycatch of corals and sponges is very low.
	However, further information on the fishery impacts on habitat would be necessary to provide a more objective basis for confidence that the strategy is meeting its objectives.
Condition	The client is required to demonstrate by the fourth annual audit that there is some objective basis for confidence that the partial strategy will work, based on some information directly about the fishery and/or habitats involved.
Client Action Plan	To achieve the 3 habitat related conditions: CAPP and NC will collaborate with other stakeholders and the Department of Fisheries & Oceans Canada (DFO), towards development of a program (a) to enhance the collection of information, and (b) to conduct an evaluation of the nature and distribution of

	habitat types, their vulnerability, and the related impact of otter trawl fishing for shrimp in this area. A "project team" will be assembled for this purpose, which more generally will also ensure implementation of DFO's Sustainable Fisheries Framework Policies, including with respect to Sensitive Benthic Areas as it applies to the conduct of shrimp fishing in this area.
	• By the first annual audit there will documented evidence that a plan for the assembly of available information and a program for evaluation has been developed by the "project team", and data collection and assembly for this purpose has commenced.
	• By the second annual audit there will documented evidence showing the information that has been assembled and the results of analysis to date.
	• By the third annual audit there will documented evidence showing that at least a provisional evaluation has been completed.
	• By the fourth annual audit there will be documented evidence that at least a partial strategy is in place, and incremental mitigation measures have been identified and are being implemented as appropriate for this fishing activity.
Conclusions of the previous audit	This is the first audit.
Client Progress	The client advised that the Northern Shrimp Advisory Committee (NSAC) has formed an MSC Working Group, which functions as the "project team". The Project Team reviewed and generally endorsed a draft plan at its meeting held May 15/12 and subsequently reviewed/accepted minor adjustments that are reflected in the attached plan. Data collection has commenced
Observations	The Audit Team reviewed the "Elements of a Strategy to evaluate, manage & monitor the impact of the Northern Shrimp Fishery on Habitats and Ecosystems within the respective certification units" discussed by the NSAC MSC Working Group on November 1, 2012. This outlines a stepwise approach to assembling information, assessing impacts, and putting in place additional measures to manage impact of the fishery on habitats and ecosystems, if necessary.
	The team sought clarification on several elements of the strategy.
	With respect to the Ecological Risk Assessment Framework (ERAF) to be used in assessing risk of serious or irreversible harm to coral and sponge areas, the Audit Team reviewed a draft of this Framework which is being developed by DFO (DFO 2012c). The approach is consistent with other ecological risk approaches, including the Scale Intensity Consequence Analysis (SICA) approach used by MSC, and as such appears to be appropriate for use in this fishery. The team noted that the Framework applies to "significant benthic areas", and that limited guidance is provided on identifying these.
	The team noted that assessment and management actions for benthic habitats and ecosystems would be triggered if analyses of the fisheries footprint indicated that 10% of sensitive habitats or 30% of less sensitive habitats were affected by the fishery, and questioned the source of the 10%/30% thresholds. The client advised

that the 30% threshold (assessment and management action would be triggered if analyses determined that the fishery impacts more than 30% of less sensitive habitats for more than 100 days) was based on the MSC guideline for determining whether it was "highly likely" that the fishery was not causing serious or irreversible to habitats and ecosystems (MSC Certification Requirements Table CB18 p.C88) – there should be no more than a 30% probability that the true status of the component is within the range where there is risk of serious or irreversible harm. While noting that the two contexts were different (probability of harm vs proportion of habitat impacted by the fishery) the team agreed that this was a reasonable threshold for the client strategy. The client advised that the 10% threshold for assessment and management action on sensitive habitats was a judgment based on the fact that a higher level of caution should be applied to sensitive than to non-sensitive habitats. The team agreed that this was reasonable; although not based on modeling or analysis, this threshold is a reasonable judgment-based level to guide action. While concurring that the 10%/30% guidelines were appropriate thresholds for action, the team noted that it would be critical to clearly define "of what" 10% and 30% were being taken – these percentages should be applied to habitats within the depth range or general area of operation of the fishery, not, for example, to all continental shelf areas. The team was advised that data assembly had begun as indicated in the client action plan and in the "Elements of a Strategy". With respect to the footprint of the fishery, information on distribution of offshore fishing effort has been compiled, and information on distribution of effort by the inshore fleet will be compiled in the near future. Information on distribution of bottom habitats will be available from DFO and other sources. A consultant with prior experience on mapping fishery footprints has been engaged to do the data mapping. A template and analytical approach which have been used by the client to assess habitat and ecosystem impacts in other fisheries will be used in this analysis. The client has compiled a bibliography of studies on impacts of shrimp fisheries on habitats and ecosystems. DFO is not directly involved in implementing the Strategy but will be providing information (fishery distribution, habitat distribution) and will be contributing to oversight of the work through their participation on the NSAC. In addition to the Strategy to be implemented by the client, the team was advised of the continuing development of a strategy for protection of sponge-coral areas in Newfoundland-Labrador Region of DFO. This will be part of DFO's Coral and Sponge Conservation Strategy for Eastern Canadian Waters. In 2010/11 DFO's Newfoundland and Labrador and Central and Arctic Regions consulted with stakeholders (governments, Aboriginal, fishing industry, oil and gas, ENGOs) on elements to be included in the strategy. One outcome of these consultations was specific targets and actions to achieve conservation, management and research objectives. Subsequently development of the strategy was expanded to cover all Atlantic and eastern Arctic areas. Once consultations and definition of targets and actions in the remaining areas (Maritimes, Gulf, Québec Regions) have been completed, further consultations on a draft strategy will be undertaken. Consultations on the draft strategy are expected to be complete by March 31, 2013. The strategy will be finalised and implemented following this date. Development of this habitat strategy follows from a series of policy and science initiatives related to impacts of fishing in benthic environments in recent years,

	<ul> <li>including, for example:</li> <li>development of a Policy on Managing the Impacts of Fishing on Sensitive</li> </ul>
	Benthic Areas (DFO 2009)
	• mapping of coral and sponge areas, based on available information, in all
	Atlantic Canadian ocean areas, and establishing thresholds for protecting these
	areas (Kenchington et al 2010; DFO 2010a)
	• development of science advice on encounter protocols for fishing gear
	which may impact corals and sponges (DFO 2011b)
	References
	DFO 2009
	DFO 2010a
	DFO 2011b
	DFO 2012c
	Kenchington, et al 2010
Conclusion	The Audit Team concludes that progress is on track toward meeting the condition
0011010051011	in Year 4 of the certification, and that milestones set for the first annual audit in the
	Client Action Plan have been met. In particular, a project team has been
	established to carry through work required, a draft strategy has been prepared to
	address the conditions, and data assembly has begun.
	The Team considers that the "Elements of a Strategy" outlined by the project
	provide an appropriate framework for meeting the Condition by Year 4 of the
	certification. We note that with respect to the 10% and 30% thresholds for action
	on sensitive and non-sensitive habitats, it would be important to clarify that these
	percentages apply to habitats within the general area where the fishery operates
	(for example within the depth range in which the fishery operates).
	The Team notes that the strategy will address both consistive and loss consistive
	The Team notes that the strategy will address both sensitive and less sensitive habitats and ecosystems, a broader scope than the recent DFO initiatives, which
	focus on protecting coral-sponge areas.
	Progress is considered on target with respect to meeting conditions and milestones.
	While progress has been made at meeting the 80SG, there was no re-scoring of this
	PI during the first surveillance audit, therefore the score remains at 70.

Condition	3
PI	2.4.3 Habitat Information
	Information is adequate to determine the risk posed to habitat types by the fishery and the effectiveness of the strategy to manage impacts on habitat types.
SG 60	There is a basic understanding of the types and distribution of main habitats in the area of the fishery.
	Information is adequate to broadly understand the main impacts of gear use on the main habitats, including spatial extent of interaction.
SG 80	The nature, distribution and vulnerability of all main habitat types in the fishery area are known at a level of detail relevant to the scale and intensity of the fishery.
	Sufficient data are available to allow the nature of the impacts of the fishery on habitat types to be identified and there is reliable information on the spatial extent, timing and location of use of the fishing gear.
	Sufficient data continue to be collected to detect any increase in risk to habitat (e.g. due to changes in the outcome indicator scores or the operation of the fishery or the effectiveness of the measures).
SG 100	The distribution of habitat types is known over their range, with particular attention to the occurrence of vulnerable habitat types.
	Changes in habitat distributions over time are measured.
	The physical impacts of the gear on the habitat types have been quantified fully.
Score	70
Scoring Rationale	The fishery meets all the scoring issues of the 60 SG in that there is a basic understanding of types and distribution of habitats in the fishery, and of the impacts of the fishery on habitats. The fishery is assigned a score above 60 because there is detailed information on nature and distribution of sensitive habitats (coral and sponge areas) and reliable information on spatial extent, timing and location of the fishery.
Condition	The client is required to demonstrate by the fourth annual audit that sufficient data continue to be collected to detect any increase in risk to habitat (e.g. due to changes in the outcome indicator scores or the operation of the fishery or the effectiveness of the measures).
Client Action Plan	To achieve the 3 habitat related conditions: CAPP and NC will collaborate with other stakeholders and the Department of Fisheries & Oceans Canada (DFO), towards development of a program (a) to enhance the collection of information, and (b) to conduct an evaluation of the nature and distribution of habitat types, their vulnerability, and the related impact of otter trawl fishing for shrimp in this area. A "project team" will be assembled for this purpose, which more generally will also ensure implementation of DFO's Sustainable Fisheries Framework Policies, including with respect to Sensitive Benthic Areas as it applies to the conduct of shrimp fishing in this area.

	<ul> <li>By the first annual audit there will documented evidence that a plan for the assembly of available information and a program for evaluation has been developed by the "project team", and data collection and assembly for this purpose has commenced.</li> <li>By the second annual audit there will documented evidence showing the information that has been assembled and the results of analysis to date.</li> <li>By the third annual audit there will documented evidence showing that at least a provisional evaluation has been completed.</li> <li>By the fourth annual audit there will be documented evidence that at least a partial strategy is in place, and incremental mitigation measures have been identified and are being implemented as appropriate for this fishing activity.</li> </ul>
Conclusions of the previous audit	This is the first audit.
Client Progress	The client advised that the Northern Shrimp Advisory Committee (NSAC) has formed an MSC Working Group, which functions as the "project team". The Project Team reviewed and generally endorsed a draft plan at its meeting held May 15/12 and subsequently reviewed/accepted minor adjustments that are reflected in the attached plan. Data collection has commenced
Observations	The Audit Team reviewed the "Elements of a Strategy to evaluate, manage & monitor the impact of the Northern Shrimp Fishery on Habitats and Ecosystems within the respective certification units" discussed by the NSAC MSC Working Group on November 1, 2012. This outlines a stepwise approach to assembling information, assessing impacts, and putting in place additional measures to manage impact of the fishery on habitats and ecosystems, if necessary. The team sought clarification on several elements of the strategy. With respect to the Ecological Risk Assessment Framework (ERAF) to be used in assessing risk of serious or irreversible harm to coral and sponge areas, the Audit Team reviewed a draft of this Framework which is being developed by DFO (DFO 2012c). The approach is consistent with other ecological risk approaches, including the Scale Intensity Consequence Analysis (SICA) approach used by MSC, and as such appears to be appropriate for use in this fishery. The team noted that the Framework applies to "significant benthic areas", and that limited guidance is provided on identifying these.

reasonable threshold for the client strategy. The client advised that the 10% threshold for assessment and management action on sensitive habitats was a judgment based on the fact that a higher level of caution should be applied to sensitive than to non-sensitive habitats. The team agreed that this was reasonable; although not based on modeling or analysis, this threshold is a reasonable judgment-based level to guide action.
While concurring that the 10%/30% guidelines were appropriate thresholds for action, the team noted that it would be critical to clearly define "of what" 10% and 30% were being taken – these percentages should be applied to habitats within the depth range or general area of operation of the fishery, not, for example, to all continental shelf areas.
The team was advised that data assembly had begun as indicated in the client action plan and in the "Elements of a Strategy". With respect to the footprint of the fishery, information on distribution of offshore fishing effort has been compiled, and information on distribution of effort by the inshore fleet will be compiled in the near future. Information on distribution of bottom habitats will be available from DFO and other sources. A consultant with prior experience on mapping fishery footprints has been engaged to do the data mapping. A template and analytical approach which have been used by the client to assess habitat and ecosystem impacts in other fisheries will be used in this analysis. The client has compiled a bibliography of studies on impacts of shrimp fisheries on habitats and ecosystems.
DFO is not directly involved in implementing the Strategy but will be providing information (fishery distribution, habitat distribution) and will be contributing to oversight of the work through their participation on the NSAC.
In addition to the Strategy to be implemented by the client, the team was advised of the continuing development of a strategy for protection of sponge-coral areas in Newfoundland-Labrador Region of DFO. This will be part of DFO's Coral and Sponge Conservation Strategy for Eastern Canadian Waters. In 2010/11 DFO's Newfoundland and Labrador and Central and Arctic Regions consulted with stakeholders (governments, Aboriginal, fishing industry, oil and gas, ENGOs) on elements to be included in the strategy. One outcome of these consultations was specific targets and actions to achieve conservation, management and research objectives. Subsequently development of the strategy was expanded to cover all Atlantic and eastern Arctic areas. Once consultations and definition of targets and actions in the remaining areas (Maritimes, Gulf, Québec Regions) have been completed, further consultations on a draft strategy will be undertaken. Consultations on the draft strategy are expected to be complete by March 31, 2013. The strategy will be finalised and implemented following this date.
<ul> <li>Development of this habitat strategy follows from a series of policy and science initiatives related to impacts of fishing in benthic environments in recent years, including, for example:</li> <li>development of a Policy on Managing the Impacts of Fishing on Sensitive Benthic Areas (DFO 2009)</li> <li>mapping of early and sponge group head on evailable information in all</li> </ul>
<ul> <li>mapping of coral and sponge areas, based on available information, in all Atlantic Canadian ocean areas, and establishing thresholds for protecting these areas (Kenchington et al 2010; DFO 2010a)</li> <li>development of science advice on encounter protocols for fishing gear which may impact corals and sponges (DFO 2011b)</li> </ul>

	References
Conclusion	DFO 2009 DFO 2010a DFO 2011b DFO 2012c Kenchington, <i>et al</i> 2010 The Audit Team concludes that progress is on track toward meeting the condition in Year 4 of the certification, and that milestones set for the first annual audit in the
	Client Action Plan have been met. In particular, a project team has been established to carry through work required, a draft strategy has been prepared to address the conditions, and data assembly has begun. The Team considers that the "Elements of a Strategy" outlined by the project provide an appropriate framework for meeting the Condition by Year 4 of the certification. We note that with respect to the 10% and 30% thresholds for action on sensitive and non-sensitive habitats, it would be important to clarify that these percentages apply to habitats within the general area where the fishery operates
	<ul> <li>(for example within the depth range in which the fishery operates).</li> <li>The Team notes that the strategy will address both sensitive and less sensitive habitats and ecosystems, a broader scope than the recent DFO initiatives, which focus on protecting coral-sponge areas.</li> <li>Progress is considered on target with respect to meeting conditions and milestones. While progress has been made at meeting the 80SG, there was no re-scoring of this PI during the first surveillance audit, therefore the score remains at 70.</li> </ul>

Condition	4
PI	2.5.1 Ecosystem Outcome
	The fishery does not cause serious or irreversible harm to the key elements of ecosystem structure and function.
SG 60	The fishery is unlikely to disrupt the key elements underlying ecosystem structure and function to a point where there would be a serious or irreversible harm.
SG 80	The fishery is highly unlikely to disrupt the key elements underlying ecosystem structure and function to a point where there would be a serious or irreversible harm.
SG 100	There is evidence that the fishery is highly unlikely to disrupt the key elements underlying ecosystem structure and function to a point where there would be a serious or irreversible harm
Score	70
Scoring Rationale	One identified ecosystem element (changes in trophic relationships due to removal of the target species) meets the 80 SG, another (non-catch impacts on benthic communities) meets the 60. Overall it appears highly unlikely that the fishery is causing serious or irreversible harm to ecosystems. Accordingly an intermediate score of 70 is assigned.
Condition	The client is required to present evidence by the fourth annual audit that the fishery is highly unlikely to disrupt benthic communities structure and
	function to a point where there would be a serious or irreversible harm.
Client Action Plan	Client Action: To achieve the 3 ecosystem related conditions :
	<ul> <li>CAPP and NC will collaborate with other stakeholders and the Department of Fisheries &amp; Oceans Canada (DFO), towards development of a program (a) to enhance the collection of information, and (b) to conduct an evaluation of the vulnerability of ecosystem components and the inferred impact of otter trawl fishing for shrimp in this area. A "project team" will be assembled for this purpose, which more generally will also ensure implementation of DFO's Sustainable Fisheries Framework Policies as they applies to the conduct of shrimp fishing in this area.</li> <li>By the first annual audit there will documented evidence that a plan for the assembly of available information and a program for evaluation has been developed by the "project team", and data collection and assembly for this purpose has commenced.</li> <li>By the second annual audit there will documented evidence showing the information that has been assembled and the results of analysis to date.</li> <li>By the third annual audit there will documented evidence showing that at least a provisional evaluation has been completed.</li> <li>By the fourth annual audit there will be documented evidence that at least a partial strategy is in place, and incremental mitigation measures have been identified and are being implemented as appropriate for this fishing activity.</li> </ul>
Conclusions of the	This is the first audit.
previous audit	The client educed that the Newtone Obvious Adation Of the (NGAO) 1
Client Progress	The client advised that the Northern Shrimp Advisory Committee (NSAC) has

	formed an MSC Working Group, which functions as the "project team". The Project Team reviewed and generally endorsed a draft plan at its meeting held May 15/12 and subsequently reviewed/accepted minor adjustments that are reflected in the attached plan. Data collection has commenced
Observations	The Audit Team reviewed the "Elements of a Strategy to evaluate, manage & monitor the impact of the Northern Shrimp Fishery on Habitats and Ecosystems within the respective certification units" discussed by the NSAC MSC Working Group on November 1, 2012. This outlines a stepwise approach to assembling information, assessing impacts, and putting in place additional measures to manage impact of the fishery on habitats and ecosystems, if necessary.
	The team sought clarification on several elements of the strategy.
	With respect to the Ecological Risk Assessment Framework (ERAF) to be used in assessing risk of serious or irreversible harm to coral and sponge areas, the Audit Team reviewed a draft of this Framework which is being developed by DFO (DFO 2012c). The approach is consistent with other ecological risk approaches, including the Scale Intensity Consequence Analysis (SICA) approach used by MSC, and as such appears to be appropriate for use in this fishery. The team noted that the Framework applies to "significant benthic areas", and that limited guidance is provided on identifying these.
	The team noted that assessment and management actions for benthic habitats and ecosystems would be triggered if analyses of the fisheries footprint indicated that 10% of sensitive habitats or 30% of less sensitive habitats were affected by the fishery, and questioned the source of the 10%/30% thresholds. The client advised that the 30% threshold (assessment and management action would be triggered if analyses determined that the fishery impacts more than 30% of less sensitive habitats for more than 100 days) was based on the MSC guideline for determining whether it was "highly likely" that the fishery was not causing serious or irreversible to habitats and ecosystems (MSC Certification Requirements Table CB18 p.C88) – there should be no more than a 30% probability that the true status of the component is within the range where there is risk of serious or irreversible harm. While noting that the two contexts were different (probability of harm vs proportion of habitat impacted by the fishery) the team agreed that the 10% threshold for assessment and management action on sensitive habitats was a judgment based on the fact that a higher level of caution should be applied to sensitive than to non-sensitive habitats. The team agreed that this was reasonable; although not based on modeling or analysis, this threshold is a reasonable judgment-based level to guide action.
	While concurring that the 10%/30% guidelines were appropriate thresholds for action, the team noted that it would be critical to clearly define "of what" 10% and 30% were being taken – these percentages should be applied to habitats within the depth range or general area of operation of the fishery, not, for example, to all continental shelf areas.
	The team was advised that data assembly had begun as indicated in the client action plan and in the "Elements of a Strategy". With respect to the footprint of the fishery, information on distribution of offshore fishing effort has been compiled, and information on distribution of effort by the inshore fleet will be compiled in the near future. Information on distribution of bottom habitats will be available from DFO and other sources. A consultant with prior experience on mapping fishery footprints has been engaged to do the data mapping. A template

	and analytical approach which have been used by the client to assess habitat and ecosystem impacts in other fisheries will be used in this analysis. The client has compiled a bibliography of studies on impacts of shrimp fisheries on habitats and ecosystems. DFO is not directly involved in implementing the Strategy but will be providing information (fishery distribution, habitat distribution) and will be contributing to oversight of the work through their participation on the NSAC. In addition to the Strategy to be implemented by the client, the team was advised of the continuing development of a strategy for protection of sponge-coral areas in Newfoundland-Labrador Region of DFO. This will be part of DFO's Coral and Sponge Conservation Strategy for Eastern Canadian Waters. In 2010/11 DFO's Newfoundland and Labrador and Central and Arctic Regions consulted with stakeholders (governments, Aboriginal, fishing industry, oil and gas, ENGOs) on elements to be included in the strategy. One outcome of these consultations was specific targets and actions to achieve conservation, management and research objectives. Subsequently development of the strategy was expanded to cover all Atlantic and eastern Arctic areas. Once consultations and definition of targets and actions in the remaining areas (Maritimes, Gulf, Québec Regions) have been completed, further consultations on a draft strategy will be undertaken. Consultations on the draft strategy are expected to be complete by March 31, 2013. The strategy will be finalised and implemented following this date. Development of this habitat strategy follows from a series of policy and science initiatives related to impacts of fishing in benthic environments in recent years, including, for example: development of a Policy on Managing the Impacts of Fishing on Sensitive Benthic Areas (DFO 2009) development of science advice on encounter protocols for fishing gear which may impact corals and sponge areas, based on available information, in all Atlantic Canadian ocean areas, and es
Conclusion	The Audit Team concludes that progress is on track toward meeting the condition in Year 4 of the certification, and that milestones set for the first annual audit in the Client Action Plan have been met. In particular, a project team has been established to carry through work required, a draft strategy has been prepared to address the conditions, and data assembly has begun. The Team considers that the "Elements of a Strategy" outlined by the project provide an appropriate framework for meeting the Condition by Year 4 of the certification. We note that with respect to the 10% and 30% thresholds for action on sensitive and non-sensitive habitats, it would be important to clarify that these

(for example within the depth range in which the fishery operates).
The Team notes that the strategy will address both sensitive and less sensitive habitats and ecosystems, a broader scope than the recent DFO initiatives, which focus on protecting coral-sponge areas. Progress is considered on target with respect to meeting conditions and milestones. While progress has been made at meeting the 80SG, there was no re-scoring of this PI during the first surveillance audit, therefore the score remains at 70.

Condition	5
PI	2.5.2 Ecosystem Strategy
	There are measures in place to ensure the fishery does not pose a risk of serious or irreversible harm to ecosystem structure and function.
SG 60	There are measures in place, if necessary, that take into account potential impacts of the fishery on key elements of the ecosystem.
	The measures are considered likely to work, based on plausible argument (e.g., general experience, theory or comparison with similar fisheries/ecosystems).
SG 80	There is a partial strategy in place, if necessary, that takes into account available information and is expected to restrain impacts of the fishery on the ecosystem so as to achieve the Ecosystem Outcome 80 level of performance.
	The partial strategy is considered likely to work, based on plausible argument (e.g., general experience, theory or comparison with similar fisheries/ecosystems).
	There is some evidence that the measures comprising the partial strategy are being implemented successfully.
SG 100	There is a strategy that consists of a plan, containing measures to address all main impacts of the fishery on the ecosystem, and at least some of these measures are in place. The plan and measures are based on well-understood functional relationships between the fishery and the Components and elements of the ecosystem.
	This plan provides for development of a full strategy that restrains impacts on the ecosystem to ensure the fishery does not cause serious or irreversible harm.
	The measures are considered likely to work based on prior experience, plausible argument or information directly from the fishery/ecosystems involved.
	There is evidence that the measures are being implemented successfully.
Score	70
Scoring Rationale	A partial strategy is in place to ensure that adequate forage is maintained for predators (guideline exploitation rate, ongoing monitoring) (SG 80). Measures are in place to ensure that non-catch impacts on benthic communities are low (light gear, soft-bottom areas with communities which recover relatively quickly are fished) (SG 60). Accordingly a score of 70 is assigned.
Condition	The client is required to demonstrate by the fourth annual audit that:
	<ul> <li>There is a partial strategy in place, if necessary, that takes into account available information and is expected to restrain impacts of the fishery on the ecosystem – in particular the non-catch impacts on benthic communities - to achieve the Ecosystem Outcome 80 level of</li> </ul>
	performance. ii. The partial strategy is considered likely to work, based on plausible

	<ul> <li>argument (e.g., general experience, theory or comparison with similar fisheries/ ecosystems).</li> <li>iii. There is some evidence that the measures comprising the partial strategy are being implemented successfully.</li> </ul>
Client Action Plan	<ul> <li>Client Action: To achieve the 3 ecosystem related conditions:</li> <li>CAPP and NC will collaborate with other stakeholders and the Department of Fisheries &amp; Oceans Canada (DFO), towards development of a program (a) to enhance the collection of information, and (b) to conduct an evaluation of the vulnerability of ecosystem components and the inferred impact of otter trawl fishing for shrimp in this area. A "project team" will be assembled for this purpose, which more generally will also ensure implementation of DFO's Sustainable Fisheries Framework Policies as they applies to the conduct of shrimp fishing in this area.</li> <li>By the first annual audit there will documented evidence that a plan for the assembly of available information and a program for evaluation has been developed by the "project team", and data collection and assembly for this purpose has commenced.</li> <li>By the second annual audit there will documented evidence showing the information that has been assembled and the results of analysis to date.</li> <li>By the third annual audit there will documented evidence showing that at least a provisional evaluation has been completed.</li> <li>By the fourth annual audit there will be documented evidence that at least a partial strategy is in place, and incremental mitigation measures have been identified and are being implemented as appropriate for this fishing activity.</li> </ul>
Conclusions of the previous audit	This is the first audit.
Client Progress	The client advised that the Northern Shrimp Advisory Committee (NSAC) has formed an MSC Working Group, which functions as the "project team". The Project Team reviewed and generally endorsed a draft plan at its meeting held May 15/12 and subsequently reviewed/accepted minor adjustments that are reflected in the attached plan. Data collection has commenced
Observations	The Audit Team reviewed the "Elements of a Strategy to evaluate, manage & monitor the impact of the Northern Shrimp Fishery on Habitats and Ecosystems within the respective certification units" discussed by the NSAC MSC Working Group on November 1, 2012. This outlines a stepwise approach to assembling information, assessing impacts, and putting in place additional measures to manage impact of the fishery on habitats and ecosystems, if necessary. The team sought clarification on several elements of the strategy. With respect to the Ecological Risk Assessment Framework (ERAF) to be used in assessing risk of serious or irreversible harm to coral and sponge areas, the Audit Team reviewed a draft of this Framework which is being developed by DFO (DFO 2012c). The approach is consistent with other ecological risk approaches, including the Scale Intensity Consequence Analysis (SICA) approach used by MSC, and as such appears to be appropriate for use in this fishery. The team noted that the Framework applies to "significant benthic areas", and that limited

guidance is provided on identifying these.
The team noted that assessment and management actions for benthic habitats and ecosystems would be triggered if analyses of the fisheries footprint indicated that 10% of sensitive habitats or 30% of less sensitive habitats were affected by the fishery, and questioned the source of the 10%/30% thresholds. The client advised that the 30% threshold (assessment and management action would be triggered if analyses determined that the fishery impacts more than 30% of less sensitive habitats for more than 100 days) was based on the MSC guideline for determining whether it was "highly likely" that the fishery was not causing serious or irreversible to habitats and ecosystems (MSC Certification Requirements Table CB18 p.C88) – there should be no more than a 30% probability that the true status of the component is within the range where there is risk of serious or irreversible harm. While noting that the two contexts were different (probability of harm vs proportion of habitat impacted by the fishery) the team agreed that the 10% threshold for the client strategy. The client advised that the 10% threshold for assessment and management action on sensitive habitats was a judgment based on modeling or analysis, this threshold is a reasonable; although not based level to guide action.
While concurring that the 10%/30% guidelines were appropriate thresholds for action, the team noted that it would be critical to clearly define "of what" 10% and 30% were being taken – these percentages should be applied to habitats within the depth range or general area of operation of the fishery, not, for example, to all continental shelf areas.
The team was advised that data assembly had begun as indicated in the client action plan and in the "Elements of a Strategy". With respect to the footprint of the fishery, information on distribution of offshore fishing effort has been compiled, and information on distribution of effort by the inshore fleet will be compiled in the near future. Information on distribution of bottom habitats will be available from DFO and other sources. A consultant with prior experience on mapping fishery footprints has been engaged to do the data mapping. A template and analytical approach which have been used by the client to assess habitat and ecosystem impacts in other fisheries will be used in this analysis. The client has compiled a bibliography of studies on impacts of shrimp fisheries on habitats and ecosystems.
DFO is not directly involved in implementing the Strategy but will be providing information (fishery distribution, habitat distribution) and will be contributing to oversight of the work through their participation on the NSAC.
In addition to the Strategy to be implemented by the client, the team was advised of the continuing development of a strategy for protection of sponge-coral areas in Newfoundland-Labrador Region of DFO. This will be part of DFO's Coral and Sponge Conservation Strategy for Eastern Canadian Waters. In 2010/11 DFO's Newfoundland and Labrador and Central and Arctic Regions consulted with stakeholders (governments, Aboriginal, fishing industry, oil and gas, ENGOs) on elements to be included in the strategy. One outcome of these consultations was specific targets and actions to achieve conservation, management and research objectives. Subsequently development of the strategy was expanded to cover all Atlantic and eastern Arctic areas. Once consultations and definition of targets and actions in the remaining areas (Maritimes, Gulf, Québec Regions) have been

	completed, further consultations on a draft strategy will be undertaken. Consultations on the draft strategy are expected to be complete by March 31, 2013. The strategy will be finalised and implemented following this date.
	Development of this habitat strategy follows from a series of policy and science initiatives related to impacts of fishing in benthic environments in recent years, including, for example:
	• development of a Policy on Managing the Impacts of Fishing on Sensitive Benthic Areas (DFO 2009)
	<ul> <li>mapping of coral and sponge areas, based on available information, in all Atlantic Canadian ocean areas, and establishing thresholds for protecting these areas (Kenchington et al 2010; DFO 2010a)</li> </ul>
	• development of science advice on encounter protocols for fishing gear which may impact corals and sponges (DFO 2011b)
	References
	DFO 2009 DFO 2010a DFO 2011b
	DFO 2012c Kenchington, <i>et al</i> 2010
Conclusion	The Audit Team concludes that progress is on track toward meeting the condition in Year 4 of the certification, and that milestones set for the first annual audit in the Client Action Plan have been met. In particular, a project team has been established to carry through work required, a draft strategy has been prepared to address the conditions, and data assembly has begun.
	The Team considers that the "Elements of a Strategy" outlined by the project provide an appropriate framework for meeting the Condition by Year 4 of the certification. We note that with respect to the 10% and 30% thresholds for action on sensitive and non-sensitive habitats, it would be important to clarify that these percentages apply to habitats within the general area where the fishery operates (for example within the depth range in which the fishery operates).
	The Team notes that the strategy will address both sensitive and less sensitive habitats and ecosystems, a broader scope than the recent DFO initiatives, which focus on protecting coral-sponge areas.
	Progress is considered on target with respect to meeting conditions and milestones. While progress has been made at meeting the 80SG, there was no re-scoring of this PI during the first surveillance audit, therefore the score remains at 70.

Condition	6
PI	2.5.3 Ecosystem Information
	There is adequate knowledge of the impacts of the fishery on the ecosystem.
SG 60	Information is adequate to identify the key elements of the ecosystem (e.g. trophic structure and function, community composition, productivity pattern and biodiversity).
	Main impacts of the fishery on these key ecosystem elements can be inferred from existing information, but have not been investigated in detail.
SG 80	Information is adequate to broadly understand the functions of the key elements of the ecosystem.
	Main impacts of the fishery on these key ecosystem elements can be inferred from existing information, but may not have been investigated in detail. The main functions of the Components (i.e. target, Bycatch, Retained and ETP species and Habitats) in the ecosystem are known.
	Sufficient information is available on the impacts of the fishery on these Components to allow some of the main consequences for the ecosystem to be inferred.
	Sufficient data continue to be collected to detect any increase in risk level (e.g. due to changes in the outcome indicator scores or the operation of the fishery or the effectiveness of the measures).
SG 100	Information is adequate to broadly understand the key elements of the ecosystem.
	Main interactions between the fishery and these ecosystem elements can be inferred from existing information, and have been investigated.
	The impacts of the fishery on target, Bycatch, Retained and ETP species and Habitats are identified and the main functions of these Components in the ecosystem are understood.
	Sufficient information is available on the impacts of the fishery on the Components and elements to allow the main consequences for the ecosystem to be inferred.
	Information is sufficient to support the development of strategies to manage ecosystem impacts.
Score	70
Scoring Rationale	Very good information is available on the ecological relationships of Pandalus and on abundance of this target species, such that impacts of the fishery on predator-prey relationships can be assessed and mitigated if need be. Monitoring continues. As such the fishery meets the 80 SG for this issue.
	Partial knowledge of potential non-catch impacts of the fishery on benthic species and general knowledge of benthic communities exists, however information has not been compiled in such a way as to allow consequences on benthic communities to be assessed. As such the fishery meets the 60 SG for

	this issue. Overall, with respect to ecosystem impacts, the fishery is close to the 80 SG: information is adequate to broadly understand functions of key elements of the ecosystem, main impacts can be inferred, the functions of the components are understood, and some of the main consequences can be assessed.					
Condition	<ul> <li>The client is required to demonstrate by the fourth annual audit that: <ol> <li>Sufficient information is available on the impacts of the fishery on benthic communities to allow some of the main consequences for the ecosystem to be inferred.</li> <li>Sufficient data continue to be collected to detect any increase in risk level (e.g. due to changes in the outcome indicator scores or the operation of the fishery or the effectiveness of the measures).</li> </ol> </li> </ul>					
Client Action Plan	<ul> <li>To achieve the 3 ecosystem related conditions:</li> <li>CAPP and NC will collaborate with other stakeholders and the Department of Fisheries &amp; Oceans Canada (DFO), towards development of a program (a) to enhance the collection of information, and (b) to conduct an evaluation of the vulnerability of ecosystem components and the inferred impact of otter trawl fishing for shrimp in this area. A "project team" will be assembled for this purpose, which more generally will also ensure implementation of DFO's Sustainable Fisheries Framework Policies as they applies to the conduct of shrimp fishing in this area.</li> <li>By the first annual audit there will documented evidence that a plan for the assembly of available information and a program for evaluation has been developed by the "project team", and data collection and assembly for this purpose has commenced.</li> <li>By the second annual audit there will documented evidence showing the information that has been assembled and the results of analysis to date.</li> <li>By the third annual audit there will documented evidence showing that at least a provisional evaluation has been completed.</li> <li>By the fourth annual audit there will be documented evidence that at least a partial strategy is in place, and incremental mitigation measures have been identified and are being implemented as</li> </ul>					
Conclusions of the	appropriate for this fishing activity. This is the first audit.					
previous audit Client Progress	The client advised that the Northern Shrimp Advisory Committee (NSAC) has formed an MSC Working Group, which functions as the "project team". The Project Team reviewed and generally endorsed a draft plan at its meeting held May 15/12 and subsequently reviewed/accepted minor adjustments that are reflected in the attached plan. Data collection has commenced					
Observations	The Audit Team reviewed the "Elements of a Strategy to evaluate, manage & monitor the impact of the Northern Shrimp Fishery on Habitats and Ecosystems within the respective certification units" discussed by the NSAC MSC Working Group on November 1, 2012. This outlines a stepwise approach to assembling information, assessing impacts, and putting in place additional measures to manage impact of the fishery on habitats and ecosystems, if necessary. The team sought clarification on several elements of the strategy.					

With respect to the Ecological Risk Assessment Framework (ERAF) to be used in assessing risk of serious or irreversible harm to coral and sponge areas, the Audit Team reviewed a draft of this Framework which is being developed by DFO (DFO 2012c). The approach is consistent with other ecological risk approaches, including the Scale Intensity Consequence Analysis (SICA) approach used by MSC, and as such appears to be appropriate for use in this fishery. The team noted that the Framework applies to "significant benthic areas", and that limited guidance is provided on identifying these.

The team noted that assessment and management actions for benthic habitats and ecosystems would be triggered if analyses of the fisheries footprint indicated that 10% of sensitive habitats or 30% of less sensitive habitats were affected by the fishery, and questioned the source of the 10%/30% thresholds. The client advised that the 30% threshold (assessment and management action would be triggered if analyses determined that the fishery impacts more than 30% of less sensitive habitats for more than 100 days) was based on the MSC guideline for determining whether it was "highly likely" that the fishery was not causing serious or irreversible to habitats and ecosystems (MSC Certification Requirements Table CB18 p.C88) – there should be no more than a 30% probability that the true status of the component is within the range where there is risk of serious or irreversible harm. While noting that the two contexts were different (probability of harm vs proportion of habitat impacted by the fishery) the team agreed that this was a reasonable threshold for the client strategy. The client advised that the 10% threshold for assessment and management action on sensitive habitats was a judgment based on the fact that a higher level of caution should be applied to sensitive than to non-sensitive habitats. The team agreed that this was reasonable; although not based on modeling or analysis, this threshold is a reasonable judgment-based level to guide action.

While concurring that the 10%/30% guidelines were appropriate thresholds for action, the team noted that it would be critical to clearly define "of what" 10% and 30% were being taken – these percentages should be applied to habitats within the depth range or general area of operation of the fishery, not, for example, to all continental shelf areas.

The team was advised that data assembly had begun as indicated in the client action plan and in the "Elements of a Strategy". With respect to the footprint of the fishery, information on distribution of offshore fishing effort has been compiled, and information on distribution of effort by the inshore fleet will be compiled in the near future. Information on distribution of bottom habitats will be available from DFO and other sources. A consultant with prior experience on mapping fishery footprints has been engaged to do the data mapping. A template and analytical approach which have been used by the client to assess habitat and ecosystem impacts in other fisheries will be used in this analysis. The client has compiled a bibliography of studies on impacts of shrimp fisheries on habitats and ecosystems.

DFO is not directly involved in implementing the Strategy but will be providing information (fishery distribution, habitat distribution) and will be contributing to oversight of the work through their participation on the NSAC.

In addition to the Strategy to be implemented by the client, the team was advised of the continuing development of a strategy for protection of sponge-coral areas in Newfoundland-Labrador Region of DFO. This will be part of DFO's Coral and Sponge Conservation Strategy for Eastern Canadian Waters. In 2010/11 DFO's

	Newfoundland and Labrador and Central and Arctic Regions consulted with stakeholders (governments, Aboriginal, fishing industry, oil and gas, ENGOs) on elements to be included in the strategy. One outcome of these consultations was specific targets and actions to achieve conservation, management and research objectives. Subsequently development of the strategy was expanded to cover all Atlantic and eastern Arctic areas. Once consultations and definition of targets and actions in the remaining areas (Maritimes, Gulf, Québec Regions) have been completed, further consultations on a draft strategy will be undertaken. Consultations on the draft strategy are expected to be complete by March 31, 2013. The strategy will be finalised and implemented following this date.						
	Development of this habitat strategy follows from a series of policy and science initiatives related to impacts of fishing in benthic environments in recent years, including, for example:						
	• development of a Policy on Managing the Impacts of Fishing on Sensitive Benthic Areas (DFO 2009)						
	<ul> <li>mapping of coral and sponge areas, based on available information, in all Atlantic Canadian ocean areas, and establishing thresholds for protecting these areas (Kenchington et al 2010; DFO 2010a)</li> </ul>						
	• development of science advice on encounter protocols for fishing ge which may impact corals and sponges (DFO 2011b)						
	References						
	DFO 2009						
	DFO 2010a						
	DFO 2011b						
	DFO 2012c Konshington, et al 2010						
Conclusion	Kenchington, et al 2010The Audit Team concludes that progress is on track toward meeting the condition						
Conclusion	in Year 4 of the certification, and that milestones set for the first annual audit in the Client Action Plan have been met. In particular, a project team has been established to carry through work required, a draft strategy has been prepared to address the conditions, and data assembly has begun.						
	The Team considers that the "Elements of a Strategy" outlined by the project provide an appropriate framework for meeting the Condition by Year 4 of the certification. We note that with respect to the 10% and 30% thresholds for action on sensitive and non-sensitive habitats, it would be important to clarify that these percentages apply to habitats within the general area where the fishery operates (for example within the depth range in which the fishery operates).						
	The Team notes that the strategy will address both sensitive and less sensitive habitats and ecosystems, a broader scope than the recent DFO initiatives, which focus on protecting coral-sponge areas.						
	Progress is considered on target with respect to meeting conditions and milestones. While progress has been made at meeting the 80SG, there was no re-scoring of this PI during the first surveillance audit, therefore the score remains at 70.						

Condition	7					
PI	3.2.1 Fishery Specific Objectives					
	The fishery has clear, specific objectives designed to achieve the outcomes					
	expressed by MSC's Principles 1 and 2.					
SG 60	Objectives, which are broadly consistent with achieving the outcomes					
	expressed by MSC's Principles 1 and 2, are implicit within the fishery's					
	management system.					
SG 80	Short and long term objectives, which are consistent with achieving the					
	outcomes expressed by MSC's Principles 1 and 2, are explicit within the					
G.G. 400	fishery's management system.					
SG 100	Well defined and measurable short and long term objectives, which are					
	demonstrably consistent with achieving the outcomes expressed by MSC's					
C	Principles 1 and 2, are explicit within the fishery's management system.					
Score	70 Short and long to me ship time in the domestic fishers are well dependent in the					
Scoring Rationale	Short and long-term objectives in the domestic fishery are well described in					
	the management system. The lack of explicit mention of application of the precautionary approach to Principle 2 related issues and specific					
	measurement indicators makes evaluation of some of the objectives difficult					
	and keeps this indicator from achieving a higher score. The score would have					
	also been higher if maintenance of biodiversity and maintenance of shrimp					
	biomass to support predators had been included in the objectives.					
Condition	The client is required to present evidence by the first annual audit that short					
	and long-term objectives, which are consistent with achieving the outcomes					
	expressed by MSC's Principles 1 and 2, are explicit within the fishery's					
	management system.					
<b>Client Action Plan</b>	CAPP and NC will collaborate with other stakeholders and the Department of					
	Fisheries & Oceans Canada (DFO), to amend the IFMP with explicit references					
	to the precautionary approach being applicable to managing the impact of fiching on consistive babitat species and the accession					
	fishing on sensitive habitat, species and the ecosystem.					
Conclusions of the	This is the first audit.					
previous audit						
Client Progress	"Fishery Objectives" are contained in section 1.1 of the Integrated Fishery					
	Management Plan (IFMP) for shrimp fishing areas (SFAs) 0-7 and the Flemish Cap. This section of the IFMP has been amended to include umbrella references to					
	the Precautionary Approach for the Strategies and Management Measures, and					
	special reference to the precautionary approach when setting exploitation rates for					
	the directed fishery. The revised "Fishery Objectives" may be viewed at the					
	following link: <u>http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/ifmp-</u>					
	gmp/shrimp-crevette/shrimp-crevette-2007-eng.htm#n1.1					
Observations	The Audit Team confirmed that an expanded set of objectives, strategies and					
	management measures has been added to section 1.1 of the IFMP at the request of					
	the MSC Working Group of the Northern Shrimp Advisory Committee. Long-					
	term objectives related to mitigating impacts on habitats, protecting biodiversity					
	and ecosystem structure and function, and explicitly recognizing the role of shrimp					
	as a forage species in setting TACs have been added, along with strategies and					
	management measures related to these.					
	As such, the suite of long-range objectives explicitly defined in the IFMP now					
	covers the range of P1 and P2 issues as required by the 80SG related to this PI.					
	covers the range of 1.1 and 1.2 issues as required by the bobb related to this 1.1.					
	Although the IFMP does not include a section entitled "short-term objectives", the					

	Team considers that the strategies and management measures outlined in section 1.1 of the IFMP (along with the long-term objectives), constitute medium- and short-term objectives for management of the fishery consistent with the MSC requirements. The Team also noted that "Fisheries Management Decisions" are published annually at the start of the fishing year, outlining TACs for the year and any other management changes (DFO 2012e); these are considered to represent publication of short-term (annual) objectives for the fishery. The Team notes that although these new objectives were added to the IFMP during 2012, the date of the IFMP on the DFO internet site remains May 19, 2010. As such, the recommendation from the certification report that a version tracking system be added to the IFMP has not yet been addressed. References DFO 2012e.
Conclusion	The Audit Team concludes that this condition has been met. This PI has been re- scored to 80, based on the justification provided in the observations section. As such, the condition has been closed out.

<b>Scoring Rationale</b> While there is significant ongoing research activity to support the fishery, there is no actual research plan that provides the management system with a strategic approach to research as is required by the 80 scoring guidepost.	Condition	8					
Management.           SG 60         Research is undertaken, as required, to achieve the objectives consistent with MSC's Principles 1 and 2 Research results are available to interested parties.           SG 80         A research plan provides the management system with a strategic approach to research and reliable and timely information sufficient to achieve the objectives consistent with MSC's Principles 1 and 2. Research results are disseminated to all interested parties in a timely fashion.           SG 100         A comprehensive research plan provides the management system with a coherent and strategic approach to research across P1, P2 and P3, and reliable and timely information sufficient to achieve the objectives consistent with MSC's Principles 1 and 2           Research Plan and results are disseminated to all interested parties in a timely fashion and are widely and publicly available.           Score         75           Scoring Rationale         While there is significant ongoing research activity to support the fishery, there is no actual research plan that provides the management system with a strategic approach to research as is required by the 80 scoring guidepost. The research survey and assessment program is described and is published as part of the IFMP (Annex D) and, such as to provides management with necessary information. However this it is not comprehensive, as it does not address all issues identified in the stock assessment as requiring resolution through research. In addition, although ecosystem insues are addressed in ongoing research, there is no a comprehensive range of research topics identified to resolve issues related to ecosystem impacts of fishing". The research being conducted is circulated to all interested parties in a timely fashion, either directly t	PI	3.2.4 Research Plan					
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existing activity and develop a Research Flan for the short-to-infu term, that							
are linked to the objectives established for the fishery and for MSC Principles							
1 and 2.							
to conduct gap analysis has been developed by the working group.							
<ul> <li>By the second annual audit there will be documented evidence that a</li> </ul>							
gap analysis has been completed.							
<ul> <li>By the fourth annual audit there will be documented evidence that a</li> </ul>							
research plan is in place.							

<b>Conclusions of the</b>	This is the first audit.
previous audit	
Client Progress	A "plan to conduct a gap analysis" has been developed for the working group. "DFO conducts an annual internal audit ("The Fishery Checklist") of various functions/activities within the Department, that also identifies gaps in research and stock assessment activities. The assembly of this checklist occurs annually during the October through March period, with a consolidated "checklist" being completed soon thereafter. In the late Spring of 2013, NSAC's MSC Working Group will review information from the updated checklist as it pertains to shrimp in SFAs 1-7, categorize research issues/activities into what may be "needed vs simply desirable", what may be cost-effective to achieve in the short-to-medium- to-long term, and prioritize these where possible. The result of this analysis will be vetted through the next Regional Assessment Process (RAP), likely to occur in 2015. The final result of this process, i.e. the Research Plan, will be forwarded to NSAC and the Regional Director of Science."
Observations	The Audit Team noted the Client Progress report and considers that the milestone outlined in the Action Plan has been met. The milestones in the Client Action Plan represent a rigorous approach to defining research priorities and should result in a sound research plan by Year 4 of the certification.
Conclusion	The Audit team concludes that progress on the action plan is on target to meet the Condition by Year 4 of the certification period, and that the first year milestone has been met. However, actions to date have not resulted in enough information to rescore this PI.

#### Any complaints against the certified operation; recorded, reviewed and actioned.

No written submissions of significant complaint have been recorded over the past 12 months.

#### Any relevant changes to legislation or regulation.

DFO confirms there have been no relevant changes to legislation or regulation that would materially affect the assessment or MSC certification of this fishery.

#### Any relevant changes to management regime.

DFO confirms there have been no relevant changes to the management regime that would materially affect the assessment or MSC certification of this fishery.

#### **Overall Conclusions.**

No changes in management have taken place that would detrimentally affect the performance of this fishery against the MSC standard.

During this first annual audit, the audit team closed one condition and re-scored the PI to 80 (Condition 7 PI: 3.2.1) and concluded that progress on the action plan is on track to meet the other seven conditions.

MSC Certification should therefore continue with annual audits.

#### Annex 1

Written stakeholder submissions to the surveillance audit and IMM responses to points raised. There were no written submissions except the progress report of the client with respect to this audit. Annex 2

Notification of surveillance audit

# CANADA NORTHERN AND STRIPED SHRIMP TRAWL FISHERIES: SHRIMP FISHING AREAS (SFA) 1-7

### MSC Certification Certification Body: Intertek Moody Marine

### **Surveillance Audit**

Following certification of this fishery, we are now continuing the process of annual surveillance audit of the fishery. These audits have two principal functions:

- 1. To review any changes in the management of the fishery, including regulations, key management or scientific staff, or stock evaluation
- 2. To evaluate the progress of the fishery against any Conditions of Certification raised during the Main Assessment

During the audit, or at separate meetings, we shall be speaking with representatives of the fishery and fishery management organisations. We expect to carry out meetings on **November 22**, 2012.

Meetings will be held at **Courtyard Marriott Hotel in St. John's Newfoundland, Canada** and will be attended by Audit Team members:

Don Aldous	Coordinator	On site
Colin Bannister	P1	Conducting work remotely
Howard Powles	P2	On site
Don Aldous	P3	On site

Full CVs of the team members are available on request from IMM

Should you have any information on this fishery that you feel should be considered in the assessment, please advise us. We may be available to meet with stakeholders as appropriate. If you would like to arrange a meeting, please advise us of:

- a) your name and contact details
- b) your association with the fishery
- c) the issues you would like to discuss (in order for us to arrange appropriate representation)
- d) where and when you would like to meet

Yours Don Aldous Lead Assessor October 15, 2012

E-mail: d.aldous@me.com Fax: +44 1332 675020 Address: below

#### Annex 3

#### **Determination of surveillance level**

A surveillance audit may be conducted as either an "on-site" or "offsite audit". This is determined by using criteria set out by the MSC:

Criteria	Surveillance Score	Insert name of fishery and complete scores
1. Default Assessment Tree		
Yes	0	0
No	2	
2. Number of Conditions		
Zero Conditions	0	
1-5 Conditions	1	
>5 Conditions	2	2
3. Principle Level Scores		
$\geq 85$	0	
<85	2	2
4. Conditions on outcome PIs?		
Yes	2	2
No	0	
	Total	6

The score for the fishery is used to determine the surveillance level appropriate to the fishery using the table below:

			Years after certification or re-certification			
Surveillance score	Surveillance level		Year 1	Year 2	Year 3	Year 4
2 or more	Normal surveillance		On-site surveillance audit	On-site surveillance audit	On-site surveillance audit	On-site surveillance audit & recertification visit
1	Remote surveillance	Option 1	Off-site surveillance audit	On-site surveillance audit	Off-site surveillance audit	On-site surveillance audit & recertification visit
		Option 2	On-site surveillance audit	Off-site surveillance audit	On-site surveillance audit	
0	Reduced surveillance		Review new information	On-site surveillance audit	Review new information	On-site surveillance audit & recertification visit

The *Pandalua borealis SFA 5,6 Fishery* scores 6 because 8 Conditions remain open and Principle 2 scored <85 (82) in the assessment, *and so will require an on-site audit.s*