

## 1. MSC Pre-Assessment of Selected New Zealand Orange Roughy Fisheries



**Fisheries:** ORH2A South, ORH2B & ORH3A (Mid East Coast), ORH3B (North West Rise and East & South Chatham Rise), ORH7A (Challenger Plateau)

Orange roughy (*Hoplostethus atlanticus*)

### MSC Pre-assessment Reference List

Principle 1:			
P.I.	80 Scoring Guidelines	Fishery	References
1.1.1	<b>Stock Status</b> - Stock at a level which maintains high productivity	ORH MEC	<ul style="list-style-type: none"> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013. (pp <b>601-626</b>)</li> </ul>
		ORH3B (NWR)	<ul style="list-style-type: none"> <li>MPI. (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013. (pp <b>635-639, 651-652</b>)</li> <li>Ryan, T., &amp; Kloser, R. (2013) <i>Biomass estimates of orange roughy in June 2012 at Northwest Chatham Rise using a net attached acoustic optical system</i>. Report to Deepwater Group New Zealand. 40p</li> </ul>
		ORH3B (ESCR)	<ul style="list-style-type: none"> <li>MPI. (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013. (pp <b>640-650, 652-653</b>)</li> <li>MPI (2013) MPI. (2013) <i>Review of Management Controls for Orange Roughy 3B (ORH3B)</i>. MPI Discussion Paper 2013/27. 22p</li> </ul>
		ORH7A	<ul style="list-style-type: none"> <li>MPI. (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013. (pp <b>657-668</b>)</li> </ul>
1.1.2	<b>Reference Points</b> - Appropriate limits and reference points for the stock	ALL	<ul style="list-style-type: none"> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013. (pp <b>601-668</b>)</li> <li>MPI. (2013) <i>Orange Roughy Harvest Strategy</i></li> <li>MPI (2008) <i>Harvest Strategy Standard for New Zealand Fisheries</i>. Ministry of Fisheries. October 2008. 30p</li> <li>MPI (2007) <i>Operational Guidelines for New Zealand's Harvest Strategy Standard</i>. Ministry of Fisheries. December 2007. 68p</li> <li>MPI (2006) <i>Harvest Strategy Standard – Standards for Stocks managed under s 13 of the Fisheries Act. Discussion Document</i>. Ministry of Fisheries. November 2006. 50p</li> </ul>

1.1.3	<b>Stock Rebuilding</b> - Where stock depleted - there is evidence of rebuilding	ALL	<ul style="list-style-type: none"> <li>• DWG (2012)</li> <li>• MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013. (pp <b>601-668</b>)</li> <li>• MPI. (2013) Orange Roughy Harvest Strategy</li> <li>• MPI (2010) <i>Review of Sustainability Measures and Other Management Controls for the 2010/11 Fishing Year – Final Advice Paper</i>. Ministry of Fisheries. September 2010. 219p (ORH 3B – see pp119-138; ORH7A - see <b>pp</b>139-150)</li> </ul>
1.2.1	<b>Harvest Strategy</b> - Precautionary and robust harvest strategy in place	ALL	<ul style="list-style-type: none"> <li>• DWG (2012) Memo re ORH OEO OP Schedule Update 2012-13. September 2012.</li> <li>• DWG (2012) ORH OEO Operational Procedure (v4) 2012-13. Schedule 1. September 2012.</li> <li>• DWG (2011) ORH OEO Operational Procedure (v4) 2011-12. September 2012.</li> <li>• DWG (2011) ORH OEO Operational Procedure (v4) 2011-12. Schedule 1. September 2012.</li> <li>• MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013. (pp <b>601-668</b>)</li> <li>• MPI (2010) <i>National Fishing Plan Deepwater and Middledepth Fisheries Part 1B - Orange Roughy</i>. Ministry for Primary Industries</li> <li>• MPI. (2013) Orange Roughy Harvest Strategy</li> </ul>
1.2.2	<b>Harvest Control Rules &amp; Tools</b> - Well defined harvest control rules in place	ALL	<ul style="list-style-type: none"> <li>• MPI (2013) MPI. (2013) <i>Review of Management Controls for Orange Roughy 3B (ORH3B)</i>. MPI Discussion Paper 2013/27. 22p</li> <li>• MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013. (pp <b>601-668</b>)</li> <li>• MPI.(2013) Orange Roughy Harvest Strategy</li> <li>• MPI (2008) <i>Harvest Strategy Standard for New Zealand Fisheries</i>. Ministry of Fisheries. October 2008. 30p</li> <li>• MPI (2011) <i>Operational Guidelines for New Zealand's Harvest Strategy Standard</i>. Ministry of Fisheries. June 2011. 80p</li> <li>• MPI (2012) <i>Annual Operational Plan for Deepwater Fisheries 2012-13</i>. July 2012. 71p</li> <li>• MPI (2011) <i>Annual Operational Plan for Deepwater Fisheries 2011-12</i>. July 2011. 75p</li> </ul>
1.2.3	<b>Information &amp; Monitoring</b> - Relevant Information collected to support harvest strategy	ALL	<ul style="list-style-type: none"> <li>• MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013. (pp <b>601-668</b>)</li> <li>• MPI (2013) <i>Annual Review Report: Deepwater Fisheries 2011-12</i>. June 2013. 78p</li> <li>• MPI (2012) <i>Annual Operational Plan for Deepwater Fisheries 2012-13</i>. July 2012. 71p</li> <li>• MPI (2011) <i>Annual Operational Plan for Deepwater Fisheries 2011-12</i>. July 2011. 75p</li> <li>• MPI (2011) <i>Research and Science Information Standard for the New Zealand Fisheries</i>. Ministry of Fisheries. October 2008. 30p</li> <li>• MPI (2011) <i>Operational Guidelines for New Zealand's Harvest Strategy Standard</i>. Ministry of Fisheries. June 2011. 80p</li> <li>• MPI (2011) <i>Science Working Groups - Terms of Reference</i>. 8p</li> <li>• MPI (2010) <i>National Fishing Plan Deepwater and Middle-depth Fisheries Part 1A</i>. Ministry for Primary Industries</li> <li>• MPI (2010) <i>National Fishing Plan Deepwater and Middle-depth Fisheries Part 1B - Orange Roughy</i>. Ministry for</li> </ul>

			<ul style="list-style-type: none"> <li>Primary Industries</li> <li>MPI (2010) <i>10 Year Research Programme for Deepwater Fisheries</i>. Ministry of Fisheries. 148p</li> </ul>
1.2.4	<b>Assessment of Stock Status</b> - Assessment of stock status is adequate		<ul style="list-style-type: none"> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013. (pp 601-668)</li> </ul>

Principle 2:			
P.I.	80 Scoring Guidelines	Score	Rationale
2.1.1	<b>Retained Species Outcome</b> - Does not cause serious or irreversible harm to retained species.	ALL	<ul style="list-style-type: none"> <li>Boyd (2013) <i>Assessment of ecological effects of four New Zealand orange roughy fisheries. Report prepared for Deepwater Group Limited. 34p</i></li> <li>DWG &amp; MPI (2013) <i>ORH Fishery Observer Programme Report</i>. Unpublished Report presented to AEEF Aug 2013. 77p</li> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 1: Introduction to Jack Mackerel</i>. Ministry for Primary Industries. May 2013.</li> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013.</li> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 3: Red Snapper to Yellow eyed Mullet</i>. Ministry for Primary Industries. May 2013.</li> <li>MPI (2008) <i>Harvest Strategy Standard for New Zealand Fisheries</i>. Ministry of Fisheries. October 2008. 30p</li> <li>O'Driscoll et al. (2011) A review of hoki and middle-depth trawl surveys of the Chatham Rise 1992-2010 –New Zealand Fisheries Assessment Report 2011/47</li> </ul>
2.1.2	<b>Retained Species Management</b> - Strategy in place for managing retained species	ALL	<ul style="list-style-type: none"> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 1: Introduction to Jack Mackerel</i>. Ministry for Primary Industries. May 2013.</li> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013.</li> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 3: Red Snapper to Yellow eyed Mullet</i>. Ministry for Primary Industries. May 2013.</li> <li>MPI (2008) <i>Harvest Strategy Standard for New Zealand Fisheries</i>. Ministry of Fisheries. October 2008. 30p</li> <li>MPI (2013) <i>Annual Review Report: Deepwater Fisheries 2011-12</i>. June 2013. 78p</li> <li>MPI (2012) <i>Annual Operational Plan for Deepwater Fisheries 2012-13</i>. July 2012. 71p</li> <li>MPI (2011) <i>Annual Operational Plan for Deepwater Fisheries 2011-12</i>. July 2011. 75p</li> </ul>
2.1.3	<b>Retained Species Information</b> - Relevant information to help manage retained species	ALL	<ul style="list-style-type: none"> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 1: Introduction to Jack Mackerel</i>. Ministry for Primary Industries. May 2013.</li> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013.</li> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 3: Red Snapper to Yellow eyed Mullet</i>. Ministry for Primary Industries. May 2013.</li> <li>O'Driscoll et al. (2011) A review of hoki and middle-depth trawl surveys of the Chatham Rise 1992-2010 –New Zealand Fisheries Assessment Report 2011/47</li> <li>MPI. (2010) <i>National Fisheries Plan for Deepwater and Middle-depth Fisheries</i>. Part 1A</li> </ul>

			<ul style="list-style-type: none"> <li>MPI. (2010) <i>National Fisheries Plan for Deepwater and Middle-depth Fisheries</i>. Part Part 1B Orange Roughy Fisheries.</li> </ul>
		ORH MEC	<ul style="list-style-type: none"> <li>Doonan &amp; Dunn (2011) <i>Trawl survey of Mid-East Coast orange roughy, March-April 2010</i>. New Zealand Fisheries Assessment Report 2011/20. 62p</li> <li>MacGibbon (2013) <i>Fishery characterisation and standardised CPUE analyses for alfonsino, (Beryx splendens), (Lowe, 1834) (Berycidae), 1989–90 to 2009–10</i>. New Zealand Fisheries Assessment Report 2013/30. 233p</li> </ul>
2.2.1	<b>By-catch Species Outcome</b> - Does not cause serious or irreversible harm to by-catch species	ALL	<ul style="list-style-type: none"> <li>Anderson (2013) <i>Fish and invertebrate By-catch in New Zealand deepwater fisheries from 1990–91 until 2010–11</i>. Zealand Aquatic Environment and Biodiversity Report No. 113. 61p</li> <li>Anderson (2011) <i>Fish and invertebrate by-catch and discards in orange roughy and oreo fisheries from 1990–91 until 2008–09</i>. Zealand Aquatic Environment and Biodiversity Report No. 67. 60p</li> <li>Blackwell (2010) <i>Distribution and abundance of deepwater sharks in New Zealand waters, 2000–01 to 2005–06</i>. New Zealand Aquatic Environment and Biodiversity Report No. 57. 51p</li> <li><b>Boyd (2013) Assessment of ecological effects of four New Zealand orange roughy fisheries. Report prepared for Deepwater Group Limited. 34p</b></li> <li>DWG &amp; MPI (2013) <i>ORH Fishery Observer Programme Report</i>. Unpublished Report presented to AEEF Aug 2013. 77p</li> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates</i>. <ul style="list-style-type: none"> <li>- <i>Volume 1: Introduction to Jack Mackerel</i>. Ministry for Primary Industries. May 2013.</li> <li>- <i>Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013.</li> <li>- <i>Volume 3: Red Snapper to Yellow eyed Mullet</i>. Ministry for Primary Industries. May 2013.</li> </ul> </li> <li>O'Driscoll et al. (2011) <i>A review of hoki and middle-depth trawl surveys of the Chatham Rise 1992-2010 –New Zealand Fisheries Assessment Report 2011/47</i></li> <li>Stevens et al (2010) <i>Age, growth, and maturity of four New Zealand rattail species</i>. New Zealand Aquatic Environment and Biodiversity Report No. 59. 39p.</li> </ul>
2.2.2	<b>By-catch Species Management</b> - Strategy in place for managing by-catch species		<ul style="list-style-type: none"> <li><b>Boyd (2013) Assessment of ecological effects of four New Zealand orange roughy fisheries. Report prepared for Deepwater Group Limited. 34p</b></li> <li>MPI (2012) <i>Aquatic Environment and Biodiversity Annual Review</i>. 390p (see By-catch species pp 120 –158)</li> <li>MPI (2010) <i>National Fishing Plan Deepwater and Middle-depth Fisheries Part 1B – Ora Roughy</i>. Ministry for Primary Industries</li> <li>MPI (2010). <i>Introduction of Bladder Kelp Seaweed, Macrocystispyrifera (KBB), in Fisheries Management Areas 3 and 4 into the Quota Management System on 1 October 2010</i>. Final Advice Paper .24 September 2009.</li> <li>MPI. (2010). <i>Introduction of Patagonian Toothfish (PTO) into the Quota Management System on 1 October 2010</i>. Final Advice Paper. 15 February 2010.</li> <li>ODriscoll et al. (2011) <i>A review of hoki and middle-depth trawl surveys of the Chatham Rise 1992-2010 - FAR 47</i></li> </ul>
2.2.3	<b>By-catch Species Information</b> - Relevant information to help manage by-catch species		<ul style="list-style-type: none"> <li>Anderson (2013) <i>Fish and invertebrate By-catch in New Zealand deepwater fisheries from 1990–91 until 2010–11</i>.</li> </ul>

		<p>Zealand Aquatic Environment and Biodiversity Report No. 113. 61p</p> <ul style="list-style-type: none"> <li>• Anderson (2011) <i>Fish and invertebrate by-catch and discards in orange roughy and oreo fisheries from 1990–91 until 2008–09</i>. Zealand Aquatic Environment and Biodiversity Report No. 67. 60p</li> <li>• Blackwell (2010) Distribution and abundance of deepwater sharks in New Zealand waters, 2000–01 to 2005–06. New Zealand Aquatic Environment and Biodiversity Report No. 57. 51p</li> <li>• <b>Boyd (2013) <i>Assessment of ecological effects of four New Zealand orange roughy fisheries. Report prepared for Deepwater Group Limited</i>. 34p</b></li> <li>• DWG &amp; MPI (2013) ORH Fishery Observer Programme Report</li> <li>• ODriscoll et al. (2011) A review of hoki and middle-depth trawl surveys of the Chatham Rise 1992-2010 - FAR 47</li> <li>• Ramm. (2011). Conservation Services Programme Observer Report: 1st July 2009 to 30 June 2010. Marine Conservation Services, Department of Conservation.</li> <li>• Ramm. (2010). Conservation Services Programme Observer Report: 1 July 2008 to 30 June 2009, Final Draft. Marine Conservation Services, Department of Conservation.</li> <li>• Rowe . (2010). Level 1 risk assessment for incidental seabird mortality associated with New Zealand fisheries in the NZ-</li> </ul>
<p>2.3.1 <b>ETP Species Outcome</b> - Meets national and international requirements for EPTs protection</p>		<ul style="list-style-type: none"> <li>• Suze Baird and Malcolm Clark (2013) Additional notes on Coral distribution and orange roughy fisheries: Distribution maps of protected coral samples – Orders Anthoathecata, Antipatharia, Alcyonacea (Gorgonacea) &amp; Scleractinia &amp; Overlays of ORH trawl footprint and coral sample distributions for selected Scleractinia. Presentation for Deepwater Group. August 2013. 18p</li> <li>• Baird et al (2012) Distribution of Protected Corals in New Zealand. Department of Conservation. 95p</li> <li>• <b>Boyd (2013) <i>Assessment of ecological effects of four New Zealand orange roughy fisheries. Report prepared for Deepwater Group Limited</i>. 34p</b></li> <li>• DWG &amp; MPI (2013) <i>ORH Fishery Observer Programme Report</i>. Unpublished Report presented to AEEF Aug 2013. 77p</li> <li>• MPI (2012) Aquatic Environment and Biodiversity Annual Review. 390p (see ETP species pp 16-119)</li> <li>• Thompson and Berkenbusch (2013) Protected species by-catch in orange roughy trawl fisheries - 2002-03 to 2011-12. Report for MPI by Dragonfly. 56p</li> <li>• Richard &amp; Abraham (2013a) Seabird Risk Assessment AEBR 109</li> <li>• Richard &amp; Abraham (2013b) Seabird Risk Assessment AEBR 109 – (Supplementary)</li> <li>• Richard &amp; Abraham (2013c) Seabird PBR - AEBR 108</li> <li>• Richard &amp; Abraham (2011) Seabird Risk Assessment</li> <li>• Rowe (2010b) Level 1 Seabird Risk Assessment</li> </ul>
<p>2.3.2 <b>ETP Species Management</b> - Precautionary management strategies in place (</p>		<ul style="list-style-type: none"> <li>• DOC (2013) Conservation Services Programme Annual Plan 2013/14. Dept. of Conservation</li> <li>• DWG (2012) Marine Mammals Operational Procedures (v7) 2011-12 and Vessel Management Plans. September 2012.</li> <li>• Fisheries Commercial Regulations 2001: Reprint as 1t 12 May 2011 (SR 2001/253)</li> <li>• MPI (2013) <i>Annual Review Report</i>. Deepwater Fisheries 2011-12. June 2013. 78p</li> <li>• MPI (2012) <i>Annual Operational Plan for Deepwater Fisheries 2012-13</i>. July 2012. 71p</li> <li>• MPI (2011) Draft Seabirds Policy for addressing fishing</li> </ul>

		<p>related mortality of Seabirds. May 2011. 18p Ramm. (2011). Conservation Services Programme Observer Report: 1st July 2009 to 30 June 2010. Marine Conservation Services, Department of Conservation.</p> <ul style="list-style-type: none"> <li>• Ramm. (2010). Conservation Services Programme Observer Report: 1 July 2008 to 30 June 2009, Final Draft. Marine Conservation Services, Department of Conservation.</li> </ul>
2.3.3	<p><b>ETP Species Information</b> - Relevant information to support management of impacts on EPTs</p>	<ul style="list-style-type: none"> <li>• Suze Baird and Malcolm Clark (2013) Additional notes on Coral distribution and orange roughy fisheries: Distribution maps of protected coral samples – Orders Anthoathecata, Antipatharia, Alcyonacea (Gorgonacea) &amp; Scleractinia &amp; Overlays of ORH trawl footprint and coral sample distributions for selected Scleractinia. Presentation for Deepwater Group. August 2013. 18p</li> <li>• Baird et al (2012) Distribution of Protected Corals in New Zealand. Department of Conservation. 95p</li> <li>• <b>Boyd (2013) Assessment of ecological effects of four New Zealand orange roughy fisheries. Report prepared for Deepwater Group Limited. 34p</b></li> <li>• DOC (2013) Conservation Services Programme Annual Plan 2013/14. Dept. of Conservation</li> <li>• DWG &amp; MPI (2013) <i>ORH Fishery Observer Programme Report</i>. Unpublished Report presented to AEEF Aug 2013. 77p</li> <li>• Thompson and Berkenbusch (2013) Protected species by-catch in orange roughy trawl fisheries - 2002-03 to 2011-12. Report for MPI by Dragonfly. 56p</li> </ul>
2.4.1	<p><b>Habitats Outcome</b> - The fishery does not cause serious or irreversible harm to habitat structure, considered on a regional or bioregional basis and function</p>	<ul style="list-style-type: none"> <li>• Anderson (2011) Deep sea bio-physical variables as surrogates for biological assemblages an example from the Lord Howe Rise. Deep-Sea Research II 58 (2011) 979–991</li> <li>• Baird et al (2012) Distribution of Protected Corals in New Zealand. Department of Conservation. 95p</li> <li>• <b>Boyd (2013) Assessment of ecological effects of four New Zealand orange roughy fisheries. Report prepared for Deepwater Group Limited. 34p</b></li> <li>• Clark (2013) <i>Information on the Structure and Function of UTF habitats</i>. Presentation prepared for DWG. Aug 2013.</li> <li>• Floerl et al (2011) Benthic Patterns Chatham Challenger - AEBR 97</li> <li>• Hewitt et al (2011a) Biotic Habitats Chatham Challenger - AEBR 81</li> <li>• MPI (2012) Aquatic Environment and Biodiversity Annual Review. 390p (see Benthic Impacts pp 159-186)</li> <li>• Nodder et al (2011) Physical biogeochemical and microbial characteristics Chatham Rise - AEBR 70</li> <li>• Stewart (2013) Analysis of Orange Roughy Trawl Footprint 2007/08 – 2011/12 and 1989/90 – 2011/12, and Underwater Topographic Feature Trawl Effort Analysis. GNS Science Report for Deepwater Group. August 2013. CLR 2013/190LR. 32p</li> <li>• Tilney (2013) <i>Summary of ORH Fishery Trawl Footprint</i>. Report for Deepwater Group by Clement 2013.</li> </ul>
2.4.2	<p><b>Habitats Management</b> - Information is adequate to determine risk of serious or irreversible harm to habitat types</p>	<ul style="list-style-type: none"> <li>• DOC (2013) Conservation Services Programme Annual Plan 2013/14. Dept. of Conservation</li> <li>• Fisheries (Benthic Protection Areas) Regulations 2007 (SR 2007/308)</li> <li>• MPI (2013) <i>Annual Review Report</i>. Deepwater Fisheries 2011-12. June 2013. 78p</li> <li>• MPI (2012) <i>Annual Operational Plan for Deepwater Fisheries 2012-13</i>. July 2012. 71p</li> <li>• MPI. (2010) <i>National Fisheries Plan for Deepwater and Middle-depth Fisheries</i>. Part 1A</li> <li>• MPI. (2010) <i>National Fisheries Plan for Deepwater and Middle-depth Fisheries</i>. Part Part 1B Orange Roughy</li> </ul>



		<p>Fisheries.</p>
<p>2.4.3</p>	<p><b>Habitats Information</b> - 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 type.</p>	<ul style="list-style-type: none"> <li>• Anderson (2011) Deep sea bio-physical variables as surrogates for biological assemblages an example from the Lord Howe Rise. <i>Deep-Sea Research II</i> 58 (2011) 979–991</li> <li>• Black et al (2013) Deepwater Trawl Footprint - AEBR 110</li> <li>• Clark (2013) <i>Information on the Structure and Function of UTF habitats</i>. Presentation prepared for DWG. Aug 2013.</li> <li>• MPI (2012) Aquatic Environment and Biodiversity Annual Review. 390p (see Benthic Impacts pp 159-186)</li> <li>• Tracey et al. (2011) <i>Identification of Protected Corals: distribution in relation to fishing effort and accuracy of observer identifications</i>. Draft Final Report prepared for Marine Conservation Services (MCS), Department of Conservation.</li> <li>• Nodder et al (2011) Physical biogeochemical and microbial characteristics Chatham Rise - AEBR 70</li> <li>• Stewart (2013) Analysis of Orange Roughy Trawl Footprint 2007/08 – 2011/12 and 1989/90 – 2011/12, and Underwater Topographic Feature Trawl Effort Analysis. GNS Science Report for Deepwater Group. August 2013. CLR 2013/190LR. 32p</li> <li>• Tilney (2013) <i>Summary of ORH Fishery Trawl Footprint</i>. Report for Deepwater Group by Clement 2013.</li> </ul>
<p>2.5.1</p>	<p><b>Ecosystem Outcome</b> - The fishery does not cause serious or irreversible harm to the key elements of ecosystem structure and function. (a) The fishery is <b>highly unlikely</b> to disrupt the key elements underlying ecosystem structure and function to a point where there would be a serious or irreversible harm</p>	<ul style="list-style-type: none"> <li>• <b>Boyd (2013) Assessment of ecological effects of four New Zealand orange roughy fisheries. Report prepared for Deepwater Group Limited. 34p</b></li> <li>• Doonan &amp; Dunn (2011) Trawl survey of Mid-East Coast orange roughy 2010-11</li> <li>• Dunn (2013) Ecosystem Impacts of Orange Roughy Fisheries [Unpublished report for Deepwater Group] 17p</li> <li>• Dunn et al. (2013) <i>Trophic Interactions and Distribution of Some Squaliforme Sharks, Including New Diet Descriptions for <i>Deania calcea</i> and <i>Squalus acanthias</i></i> PLoS ONE 8(3): e59938. doi:10.1371/journal.pone.0059938</li> <li>• Dunn &amp; Forman (2010) <i>Hypotheses of Spatial Stock Structure in Orange Roughy <i>Hoplostethus atlanticus</i> inferred from Diet, Feeding, Condition, and Reproductive Activity</i>. PLoS ONE 6(11): e26704</li> <li>• DWG &amp; MPI (2013) <i>ORH Fishery Observer Programme Report</i>. Unpublished Report presented to AEEF Aug 2013. 77p</li> <li>• Knight et al (2011) <i>Sustainability of NZ's deepwater fisheries from an energetic perspective – an update</i>. Prepared for Deepwater Group Ltd. Cawthron Institute Report No. 2044.</li> <li>• MPI (2012) Aquatic Environment and Biodiversity Annual Review. 390p (see Ecosystem Effects pp 187-205)</li> <li>•</li> </ul>
<p>2.5.2</p>	<p><b>Ecosystem Management</b> - Measures are in place to mitigate risk to ecosystem structure and function.</p>	<ul style="list-style-type: none"> <li>• <b>Boyd (2013) Assessment of ecological effects of four New Zealand orange roughy fisheries. Report prepared for Deepwater Group Limited. 34p</b></li> <li>• DOC (2013) Conservation Services Programme Annual Plan 2013/14. Dept. of Conservation</li> <li>• Fisheries (Benthic Protection Areas) Regulations 2007 (SR 2007/308)</li> <li>• MPI (2013) <i>Annual Review Report: Deepwater Fisheries 2011-12</i>. June 2013. 78p</li> <li>• MPI (2012) <i>Annual Operational Plan for Deepwater Fisheries 2012-13</i>. July 2012. 71p</li> <li>• MPI. (2010) <i>National Fisheries Plan for Deepwater and Middle-depth Fisheries</i>. Part 1A</li> <li>• MPI. (2010) <i>National Fisheries Plan for Deepwater and</i></li> </ul>

			<p><i>Middle-depth Fisheries. Part Part 1B Orange Roughy Fisheries.</i></p> <ul style="list-style-type: none"> <li>• MPI (2010). <i>Introduction of Bladder Kelp Seaweed, Macrocystispyrifera (KBB), in Fisheries Management Areas 3 and 4 into the Quota Management System on 1 October 2010.</i> Final Advice Paper .24 September 2009.</li> <li>• MPI. (2010). <i>Introduction of Patagonian Toothfish (PTO) into the Quota Management System on 1 October 2010.</i> Final Advice Paper. 15 February 2010.</li> <li>• ODriscoll et al. (2011) A review of hoki and middle-depth trawl surveys of the Chatham Rise 1992-2010 - FAR 47</li> </ul>
2.5.3	<p><b>Ecosystem Information</b> - Adequate knowledge of impacts of fishery on the ecosystem</p>		<ul style="list-style-type: none"> <li>• <b>Boyd (2013) Assessment of ecological effects of four New Zealand orange roughy fisheries. Report prepared for Deepwater Group Limited. 34p</b></li> <li>• Doonan &amp; Dunn (2011) Trawl survey of Mid-East Coast orange roughy 2010-11</li> <li>• Dunn (2013) Ecosystem Impacts of Orange Roughy Fisheries [Unpublished report for Deepwater Group] 17p</li> <li>• DWG &amp; MPI (2013) <i>ORH Fishery Observer Programme Report.</i> Unpublished Report presented to AEEF Aug 2013. 77p</li> <li>• Knight et al (2011) <i>Sustainability of NZ's deepwater fisheries from an energetic perspective – an update.</i> Prepared for Deepwater Group Ltd. Cawthron Institute Report No. 2044.</li> <li>• MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates.</i> <ul style="list-style-type: none"> <li>○ <i>Volume 1: Introduction to Jack Mackerel.</i> Ministry for Primary Industries. May 2013.</li> <li>○ <i>Volume 2: John Dory to Red Gurnard.</i> Ministry for Primary Industries. May 2013.</li> <li>○ <i>Volume 3: Red Snapper to Yellow eyed Mullet.</i> Ministry for Primary Industries. May 2013.</li> </ul> </li> <li>• MPI (2012) Aquatic Environment and Biodiversity Annual Review. 390p (see Ecosystem Effects pp 187-205)</li> <li>• MPI. (2010) <i>National Fisheries Plan for Deepwater and Middle-depth Fisheries. Part 1A</i></li> <li>• MPI. (2010) <i>National Fisheries Plan for Deepwater and Middle-depth Fisheries. Part Part 1B Orange Roughy Fisheries.</i></li> <li>• MPI (2008) <i>Harvest Strategy Standard for New Zealand Fisheries.</i> Ministry of Fisheries. October 2008. 30p</li> <li>• ODriscoll et al. (2011) A review of hoki and middle-depth trawl surveys of the Chatham Rise 1992-2010 - FAR 47</li> </ul>

### Principle 3: Orange Roughy 3B North-west Rise (NWR) Fishery

P.I.	80 Scoring Guidelines	Score	Rationale
3.1.1	<p><b>Legal/Customary Framework</b> - Management system exists with legal/customary framework • Is capable of delivering sustainable fisheries in accordance with MSC Principles 1 and 2;</p>	ALL	<ul style="list-style-type: none"> <li>• Deed of Settlement 1992. Her Majesty the Queen &amp; Maori.</li> <li>• DWG (2010) <i>Memorandum of Understanding between the Ministry of Fisheries and the DeepWater Group.</i> Continuing a partnership between the Ministry of Fisheries and the deepwater fishing industry for the management of New Zealand's deepwater fisheries. December 2010. 12p.</li> <li>• Fisheries Act 1996 No 88.</li> <li>• Fisheries Commercial Fishing Amendment Regulations No 2. 2009</li> <li>• Fisheries (Benthic Protection Areas) Regulations 2007 (SR 2007/308)</li> <li>• Fisheries (Reporting) Regulations 2001 (SR 2001/188)</li> <li>• Fisheries (Commercial Fishing) Regulations 2001 (SR</li> </ul>



			<ul style="list-style-type: none"> <li>2001/ 253)</li> <li>Fisheries (Satellite Vessel Monitoring) Regulations 1993 (SR 1993/354)</li> <li>Treaty of Waitangi (Fisheries Claims) Settlement Act 1992 No 121.</li> <li>Lock, K and Leslie, S. (2007), <i>New Zealand's Quota Management System: A History of the First 20 Years</i>, Motu Working Paper 07-02. Motu Economic and Public Policy Research (April 2007). 75p.</li> <li>MPI (2008) Review of Sustainability Measures and Other Management Measures. Volume 2: Initial Position Papers and Summary of Submissions</li> </ul>
3.1.2	<b>Consultation, Roles &amp; Responsibilities</b> - Management system has clear processes	ALL	<ul style="list-style-type: none"> <li>Fisheries Act 1996</li> <li>MPI (2013) Review of Management Controls for Orange Roughy 3B</li> <li>MPI (2010) Statement of Intent. Ministry of Fisheries</li> <li>MPI (2009) Stakeholder Consultation Process Standard. Ministry of Fisheries</li> </ul>
3.1.3	<b>Long Term Objectives</b> - Management policy contains clear long-term objectives	ALL	<ul style="list-style-type: none"> <li>DOC (2013) Conservation Services Programme Annual Plan 2013/14. Dept. of Conservation</li> <li>DWG (2012) ORH OEO Operational Procedure (v4) 2012-13. Schedule 1. September 2012.</li> <li>DWG (2012) Marine Mammals Operational Procedures (v7) 2011-12. September 2012.</li> <li>DWG (2011) Reporting Operational Procedures (v5) 2011-12</li> <li>MPI (2013) <i>Annual Review Report</i>. Deepwater Fisheries 2011-12. June 2013. 78p</li> <li>MPI (2012) <i>Annual Operational Plan for Deepwater Fisheries 2012-13</i>. July 2012. 71p</li> <li>MPI (2011) <i>Annual Operational Plan for Deepwater Fisheries 2011-12</i>. July 2011. 75p</li> <li>MPI (2011) <i>Research and Science Information Standard for the New Zealand Fisheries</i>. Ministry of Fisheries. October 2008. 30p</li> <li>MPI (2011) <i>Operational Guidelines for New Zealand's Harvest Strategy Standard</i>. Ministry of Fisheries. June 2011. 80p</li> <li>MPI (2011) <i>Science Working Groups - Terms of Reference</i>. 8p</li> <li>MPI (2010) <i>10 Year Research Programme for Deepwater Fisheries</i>. Ministry of Fisheries. 148p</li> <li>MPI (2010) <i>National Fishing Plan Deepwater and Middledepth Fisheries Part 1A</i>. Ministry for Primary Industries</li> <li>MPI (2010) <i>National Fishing Plan Deepwater and Middledepth Fisheries Part 1B - Orange Roughy</i>. Ministry for Primary Industries</li> </ul>
3.1.4	<b>Incentives for Sustainable Fishing</b> - Management system has sustainability incentives	ALL	<ul style="list-style-type: none"> <li>Fisheries Act 1996 No 88.</li> <li>Treaty of Waitangi (Fisheries Claims) Settlement Act 1992 No 121.</li> <li>Lock, K and Leslie, S. (2007), <i>New Zealand's Quota Management System: A History of the First 20 Years</i>, Motu Working Paper 07-02. Motu Economic and Public Policy Research (April 2007). 75p.</li> </ul>
3.2.1	<b>Fishery Specific Objectives</b> - Fishery has clear and specific outcome objectives	ALL	<ul style="list-style-type: none"> <li>DOC (2013) Conservation Services Programme Annual Plan 2013/14. Dept. of Conservation</li> <li>DWG (2012) ORH OEO Operational Procedure (v4) 2012-13. Schedule 1. September 2012.</li> <li>DWG (2012) Marine Mammals Operational Procedures (v7) 2011-12. September 2012.</li> <li>DWG (2011) Reporting Operational Procedures (v5) 2011-12</li> <li>MPI (2013) <i>Annual Review Report</i>. Deepwater</li> </ul>

			<ul style="list-style-type: none"> <li>Fisheries 2011-12. June 2013. 78p</li> <li>MPI (2012) <i>Annual Operational Plan for Deepwater Fisheries 2012-13</i>. July 2012. 71p</li> <li>MPI (2011) <i>Annual Operational Plan for Deepwater Fisheries 2011-12</i>. July 2011. 75p</li> <li>MPI (2011) <i>Research and Science Information Standard for the New Zealand Fisheries</i>. Ministry of Fisheries. October 2008. 30p</li> <li>MPI (2011) <i>Operational Guidelines for New Zealand's Harvest Strategy Standard</i>. Ministry of Fisheries. June 2011. 80p</li> <li>MPI (2011) <i>Science Working Groups - Terms of Reference</i>. 8p</li> <li>MPI (2010) <i>Final Advice Paper - Review of Sustainability Measures</i> (01 Oct 2010)</li> <li>MPI (2010) <i>10 Year Research Programme for Deepwater Fisheries</i>. Ministry of Fisheries. 148p</li> <li>MPI (2010) <i>National Fishing Plan Deepwater and Middledepth Fisheries Part 1A</i>. Ministry for Primary Industries</li> <li>MPI (2010) <i>National Fishing Plan Deepwater and Middledepth Fisheries Part 1B - Orange Roughy</i>. Ministry for Primary Industries</li> </ul>
3.2.2	<p><b>Decision Making Processes</b> - Management system includes effective decision making</p>	ALL	<ul style="list-style-type: none"> <li>MPI (2013) MPI. (2013) <i>Review of Management Controls for Orange Roughy 3B (ORH3B)</i>. MPI Discussion Paper 2013/27. 22p</li> <li>MPI (2013) <i>Annual Review Report: Deepwater Fisheries 2011-12</i>. June 2013. 78p</li> <li>MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard</i>. Ministry for Primary Industries. May 2013. (pp <b>601-668</b>)</li> <li>MPI. (2013) <i>Orange Roughy Harvest Strategy</i></li> <li>MPI (2012) <i>Annual Operational Plan for Deepwater Fisheries 2012-13</i>. July 2012. 71p</li> <li>MPI (2010) <i>Review of Sustainability Measures and Other Management Controls for the 2010/11 Fishing Year – Final Advice Paper</i>. Ministry of Fisheries. September 2010. 219p (ORH 3B – see pp119-138; ORH7A - see pp139-150)</li> <li>MPI (2010) <i>Statement of Intent</i>. Ministry of Fisheries</li> <li>MPI (2010) <i>10 Year Research Programme for Deepwater Fisheries</i>. Ministry of Fisheries. 148p</li> <li>MPI (2009) <i>Stakeholder Consultation Process Standard</i>. Ministry of Fisheries</li> </ul>
3.2.3	<p><b>Compliance &amp; Enforcement</b> - Monitoring, control and surveillance mechanisms in place</p>	ALL	<ul style="list-style-type: none"> <li>DWG (2012) <i>ORH OEO Operational Procedure (v4) 2012-13. Schedule 1</i>. September 2012.</li> <li>DWG (2012) <i>Marine Mammals Operational Procedures (v7) 2011-12</i>. September 2012.</li> <li>DWG (2011) <i>Reporting Operational Procedures (v5) 2011-12</i></li> <li>Fisheries Act 1996 No 88.</li> <li>Fisheries Commercial Fishing Amendment Regulations No 2. 2009</li> <li>Fisheries (Benthic Protection Areas) Regulations 2007 (SR 2007/308)</li> <li>Fisheries (Reporting) Regulations 2001 (SR 2001/188)</li> <li>Fisheries (Commercial Fishing) Regulations 2001 (SR 2001/ 253)</li> <li>Fisheries (Satellite Vessel Monitoring) Regulations 1993 (SR 1993/354)</li> <li>Kazmierow et al (2010) <i>Commercial Fishers Compliance Decision Making: Perceptions, Experiences and Factors Influencing Regulatory Compliance</i>. Report Prepared for Ministry of Fisheries. 106p</li> <li>MPI (2013) <i>Fisheries Observer Tables 2010-11 &amp;</i></li> </ul>

			<ul style="list-style-type: none"> <li>2011-12</li> <li>• MPI (2009) Compliance Information Sheet 01 - - Misreporting.</li> <li>• MPI (2009) Compliance Information Sheet 02 – Benchmarking of New Zealand Fisheries</li> <li>• MPI (2010) Compliance Information Sheet 03 – Accuracy of Reporting</li> <li>• MPI (2010) Compliance Information Sheet 04 – Conversion Factors</li> <li>• MPI (2010) Compliance Information Sheet 05 – registration names and numbers</li> <li>• MPI (2010) Compliance Information Sheet 06 - Seabird Mitigation Devices</li> <li>• MPI (2010) Compliance Information Sheet 07 – Benthic Protection and Seamount Closures</li> </ul>
3.2.4	<p><b>Research Plan</b> - Research plan that addresses management needs are in place</p>	ALL	<ul style="list-style-type: none"> <li>• DOC (2013) Conservation Services Programme Annual Plan 2013/14. Dept. of Conservation</li> <li>• MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard.</i> Ministry for Primary Industries. May 2013. (pp <b>601-668</b>)</li> <li>• MPI (2013) <i>Annual Review Report.</i> Deepwater Fisheries 2011-12. June 2013. 78p</li> <li>• MPI (2012) <i>Annual Operational Plan for Deepwater Fisheries 2012-13.</i> July 2012. 71p</li> <li>• MPI (2011) <i>Annual Operational Plan for Deepwater Fisheries 2011-12.</i> July 2011. 75p</li> <li>• MPI (2011) <i>Research and Science Information Standard for the New Zealand Fisheries.</i> Ministry of Fisheries. October 2008. 30p</li> <li>• MPI (2011) <i>Operational Guidelines for New Zealand's Harvest Strategy Standard.</i> Ministry of Fisheries. June 2011. 80p</li> <li>• MPI (2011) <i>Science Working Groups - Terms of Reference.</i> 8p</li> <li>• MPI (2010) <i>10 Year Research Programme for Deepwater Fisheries.</i> Ministry of Fisheries. 148p</li> <li>• MPI (2010) <i>National Fishing Plan Deepwater and Middle-depth Fisheries Part 1A.</i> Ministry for Primary Industries</li> <li>• MPI (2010) <i>National Fishing Plan Deepwater and Middle-depth Fisheries Part 1B - Orange Roughy.</i> Ministry for Primary Industries</li> </ul>
3.2.5	<p><b>Management Performance Evaluation</b> - There is a system of monitoring and evaluating the performance of the fishery-specific management system against its objectives and here is effective and timely review of the fishery-specific management system.</p>	ALL	<ul style="list-style-type: none"> <li>• DOC (2013) Conservation Services Programme Annual Plan 2013/14. Dept. of Conservation</li> <li>• DWG (2010) <i>Memorandum of Understanding between the Ministry of Fisheries and the DeepWater Group.</i> Continuing a partnership between the Ministry of Fisheries and the deepwater fishing industry for the management of New Zealand's deepwater fisheries. December 2010. 12p.</li> <li>• MPI (2013) <i>Fisheries Assessment Plenary May. Stock Assessments and Yield Estimates. Volume 2: John Dory to Red Gurnard.</i> Ministry for Primary Industries. May 2013. (pp <b>601-668</b>)</li> <li>• MPI (2013) <i>Annual Review Report.</i> Deepwater Fisheries 2011-12. June 2013. 78p</li> <li>• MPI (2012) <i>Annual Operational Plan for Deepwater Fisheries 2012-13.</i> July 2012. 71p</li> <li>• MPI (2011) <i>Annual Operational Plan for Deepwater Fisheries 2011-12.</i> July 2011. 75pMPI (2010) <i>10 Year Research Programme for Deepwater Fisheries.</i> Ministry of Fisheries. 148p</li> <li>• MPI (2010) <i>National Fishing Plan Deepwater and Middle-depth Fisheries Part 1A.</i> Ministry for Primary Industries</li> </ul>

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|  |  |  | <ul style="list-style-type: none"><li>• MPI (2010) <i>National Fishing Plan Deepwater and Middle-depth Fisheries Part 1B - Orange Roughy</i>. Ministry for Primary Industries</li><li>• MPI (2010) <i>Overview of New Zealand Fishery Science Peer Review Processes</i>. Ministry of Fisheries. 10 June 2010. 24p</li></ul> |
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## Orange Roughy Fisheries Indicative Score Sheet (MSC Performance Indicators) – 2013

PI No.	Performance Indicators	ORH MEC	ORH3B (ESCR)	ORH3B (NWR)	ORH 7A (Chall)	Notes
1.1.1	<b>Stock Status</b> - Stock at a level which maintains high productivity					
1.1.2	<b>Reference Points</b> - Appropriate limits and reference points for the stock					
1.1.3	<b>Stock Rebuilding</b> - Where stock depleted - there is evidence of rebuilding					
1.2.1	<b>Harvest Strategy</b> - Precautionary and robust harvest strategy in place					
1.2.2	<b>Harvest Control Rules &amp; Tools</b> - Well defined harvest control rules in place					
1.2.3	<b>Information &amp; Monitoring</b> - Relevant Information collected to support harvest strategy					
1.2.4	<b>Assessment of Stock Status</b> - Assessment of stock status is adequate					
<b>P1 ALL</b>	<b>Sustainability of Exploited Stock</b>					
2.1.1	<b>Retained Species Outcome</b> - Does not cause serious or irreversible harm to retained species					
2.1.2	<b>Retained Species Management</b> - Strategy in place for managing retained species					
2.1.3	<b>Retained Species Information</b> - Relevant information to help manage retained species					
2.2.1	<b>By-catch Species Outcome</b> - Does not cause serious or irreversible harm to by-catch species					
2.2.2	<b>By-catch Species Management</b> - Strategy in place for managing by-catch species					
2.2.3	<b>By-catch Species Information</b> - Relevant information to help manage by-catch species					
2.3.1	<b>ETP Species Outcome</b> - Meets national and international requirements for EPTs protection					
2.3.2	<b>ETP Species Management</b> - Precautionary management strategies in place					
2.3.3	<b>ETP Species Information</b> - Relevant information to support management of impacts on EPTs					
2.4.1	<b>Habitats Outcome</b> - Does not cause serious or irreversible harm to habitat structure					
2.4.2	<b>Habitats Management</b> - Information is adequate to determine risk to habitat types					
2.4.3	<b>Habitats Information</b> - Information adequate to determine risk to habitats					
2.5.1	<b>Ecosystem Outcome</b> - Does not cause serious or irreversible harm to ecosystem					
2.5.2	<b>Ecosystem Management</b> - Measures are in place to mitigate risk to ecosystem					
2.5.3	<b>Ecosystem Information</b> - Adequate knowledge of impacts of fishery on the ecosystem					
<b>P2 ALL</b>	<b>Maintenance of Ecosystem</b>					
3.1.1	<b>Legal/Customary Framework</b> - Management system exists with legal/customary framework					
3.1.2	<b>Consultation, Roles &amp; Responsibilities</b> - Management system has clear processes					
3.1.3	<b>Long Term Objectives</b> - Management policy contains clear long-term objectives					
3.1.4	<b>Incentives for Sustainable Fishing</b> - Management system has sustainability incentives					
3.2.1	<b>Fishery Specific Objectives</b> - Fishery has clear and specific outcome objectives					
3.2.2	<b>Decision Making Processes</b> - Management system includes effective decision making					
3.2.3	<b>Compliance &amp; Enforcement</b> - Monitoring, control and surveillance mechanisms in place					
3.2.4	<b>Research Plan</b> - Research plan that addresses management needs are in place					
3.2.5	<b>Management Performance Evaluation</b> - Performance Evaluation processes in place					
<b>P3 ALL</b>	<b>Effective Management System</b>					

Key: Indicative Assessment Scores

>80 (Pass)	60-80 (Condition)	<60 (Fail)
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Key: Indicative Aggregate Scores

Pass	Fail
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