INDICA	TOR	SCORING GUIDEPOST 60	SCORING GUIDEPOST 80	SCORING GUIDEPOST 100		
Principle 1 A fisher are dep		hery must be conducted in a manner that does not lead to over-fishing or depletion of the exploited populations and, for those populations that lepleted, the fishery must be conducted in a manner that demonstrably leads to their recovery.				
<b>1.1</b> (MSC	C Criterion 1) The fi comm	shery shall be conducted at catch levels that inity relative to its potential productivity.	at continually maintain the high productivi	ty of the target population(s) and associated ecological		
1.1.1	There	should be sufficient information on the targ	et species and stock separation to allow the	effects of the fishery on the stock to be evaluated.		
1.1.1.1	Is the species readily identified as adults and juveniles?	Misidentification is possible and increases recording errors of catches, but this does not compromise monitoring to unacceptable levels. Methods to improve identification are under development.	The target species is unlikely to be confused with any other species and is recorded appropriately.	The species is readily identified by fishers and by regulators and is recorded appropriately.		
1.1.1.2	Is the life history of the species understood and the spawning and nursery areas described?	The basis of the life history is understood, although knowledge may be incomplete. Information is adequate to support a general population model, but some assumptions are required. There is some information on major spawning and nursery areas.	The life history of the species is documented and generally understood. Information is adequate to support an appropriate population model. The major spawning and nursery areas are adequately well described.	The life history of the species is clearly documented and understood including behaviour and ecological interactions. Spawning and nursery areas are sufficiently well documented to support spatial and temporal management measures, including possible closures, where these are deemed necessary.		
1.1.1.3	Is the geographical range of the target stock known and any seasonal migration described?	A management unit approximating the stock is used with some biological justification. This is based upon a sufficiently robust estimation of the geographical range of the target stock, and taking account of uncertainties.	A reliable estimate of the geographic range of the target stock is available including seasonal patterns of movement and availability. Stock assessment and management units are consistent with the majority distribution of the stock.	The complete geographic range of the stock, including seasonal patterns of movement/availability, is estimated and documented and is kept under review.		
1.1.1.4	Is there information on fecundity and growth?	There is some appropriate information available on fecundity and growth.	Reliable estimates or indices are available of fecundity at size and/or weight and growth rates.	There is comprehensive and reliable information on fecundity at size, growth rates, and length and weight at age, and these are monitored over time to detect trends and shifts.		
1.1.1.5	Is there an understanding of the relationship of recruitment to parental stock?	Indices of recruitment levels and recruiting ages, and corresponding spawning stock levels are available and used as appropriate.	Adequate indices of recruitment and spawning stock are estimated and used. Sufficient years of data are available to establish a general relationship between stock and recruitment.	The relationship between stock and recruitment is well understood with high statistical reliability.		

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1.1.1.0	5 Is information collected on the abundance/density of the stock?	Either fishery dependent or fishery independent indices are available on the abundance of the stock biomass. Qualitative information exists supporting the appropriateness of the indices as relative indicators of stock size.	Fishery dependent and/or fishery independent indices are available on the abundance/density of the stock. Uncertainties have been analysed and any uncertainties addressed in ways which allow trends to be determined from the indices. Indices are suitable, either independently or in conjunction with other analyses, to provide a high degree of confidence in the evaluation of stock abundance trends	Multiple fishery dependent and fishery independent indices are available on the abundance/density of the stock with sufficient time series to allow trends in abundance to be quantified. Where fishery independent surveys are used (for juveniles and/or adults) the design of the survey(s) is statistically rigorous and robust, indices are consistent and there is clear evidence that they are proportional to the stock size. Uncertainties have been fully accounted for.
1.1.1.	7 Is information available on environmental influences on the stock dynamics?	Some relevant studies have been undertaken on the effects of biological and physical factors which could affect the stock (including natural mortality). Research is encouraged and ongoing.	There is knowledge of biological and physical factors affecting distribution, survival and year class strength (including natural mortality). Some information is sufficiently robust for use in the stock assessment process.	There is comprehensive knowledge of biological and physical factors affecting distribution, survival and year class strength (including natural mortality). Key information is sufficiently robust for use in the stock assessment process, either in the assessment models or formally in the interpretation of results of assessment models.

1.1.2	There should be sufficient information on the fishery to allow its effects on the target stock to be evaluated			
1.1.2.1	Are all major sources of	Sufficient information is available on the	Landings are accurately recorded. Discards	Landings, discards and incidental mortality are
	mortality recorded/ estimated	fishery to allow accurate estimates to be	and incidental mortality are well estimated	accurately recorded and monitored consistently.
	for the fishery under	made of landings, broken down as	for the fishery.	
	assessment, including landings,	required for an evaluation to be made.		
	discards, incidental mortality	Estimates of discards and incidental		
	and any mortality of juveniles?	mortality are available.		
1.1.2.2	Are fleet descriptions, fishing	Significant fishing methods and gear	Significant fishing methods and gear types	All fishing methods and gear types employed in the
	methods and gear types known	types are known for the fishery with	are known and appropriate information is	fishery are known. In-situ observations are made of
	throughout the fishery under	some information on geographical areas	available on the geographical areas of use.	fishing practices. Comprehensive knowledge is recorded
	assessment?	of use. Appropriate information is	Appropriate recorded information is	and regularly updated, on the size and composition of the
		available on the size and composition of	available on the size and composition of	fleets.
		the fleets, and is updated periodically.	the fleets. This is reviewed and updated at	
			appropriate intervals.	

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1.1.2.3 Is gear selectivity known for the fishery?	Appropriate information is available on selectivity and qualitative changes in selectivity.	Selectivities of gear types and fishing methods are well estimated by size, age and/or sex as appropriate. Information is sufficient to determine any changes in selectivity over time, if any.	Full selectivities have been accurately estimated for all gears, locations and times of fishing over time.
1.1.2.4 Is the target species taken in other fisheries in the area that are not subject to this certification, and are such catches recorded or estimated?	There is an appropriate level of information relating to other fisheries in the area that are not subject to this certification, although these are not fully identified. The catches are estimated in the stock assessments. Levels of IUU fishing are estimated, but with some uncertainty.	The main fisheries not subject to certification are identified. Significant catches of the target species (including IUU fishing) are either recorded or reliably estimated.	All fisheries (and other significant sources of human- induced mortality) in the area that are not subject to this certification are identified and monitored. All the catches are recorded and used in the stock assessment. Levels of IUU fishing are reliably estimated to be negligible.

1.1.3

Appropriate reference levels have been developed for the stock.

1.1.3.1	1 Are there appropriate limit and target reference points based on stock biomass and/or fishing mortality?	Appropriate limit and target reference points have been set based on justifiable and reasonable practice appropriate to the species.	Appropriate limit and target reference points are justified based on stock biology (e.g. a stock-recruitment relationship) and are internally consistent given data and assessment limitations. Reference points may be probability based, but account fully for known uncertainties in data and assessment models.	Limit and target reference points are justified based on stock biology, uncertainty, variability, data limitations and statistical simulations of these factors.
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There is a well-defined and effective harvest strategy to manage the target stock.

1.1.4.1	Is there a mechanism in place to	Mechanisms are in place to monitor and	Appropriate mechanisms are utilised to	Mechanisms are in place to contain harvest as and when
	contain harvest as required?	(if necessary) reduce harvest, but do not	contain harvest as and when required to	required to maintain (or allow the target stock to return
		fully contain harvest, or have not been	maintain, or allow the target stock to return	to) productive levels. Measures are robust to uncertainty
		tested. Measures provide a reasonable	to, productive levels. These have been	in data inputs or stock biology. Specific measures to
		degree of confidence in stock	tested if/as appropriate for robustness	demonstrate effectiveness are in place and their
		management.	against uncertainties in the assessment and	robustness has been examined against a wide range of
			management process	uncertainties

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1.1.4.2	Are clear, tested decision rules set out?	It can be demonstrated that decision making, though not necessarily formally documented, is recorded, logical and appropriate. Rules may not have not been tested, but appear appropriate for management.	Clear decision making rules exist, are fully documented, and have undergone testing - through implementation or simulation. Decision rules are reconciled with reference points and with data and assessment limitations.	Clear, documented and tested decision rules are fully implemented. They have been fully reconciled with reference points, have been periodically evaluated and shown to be robust to all major uncertainties.
1.1.4.3	Are appropriate management tools specified to implement decisions in terms of input and/or output controls?	Management tools exist within the fishery under assessment to implement decisions of input and/or output controls. Evidence shows that tools are effective enough to achieve the minimum level of control necessary to meet the main management objectives.	Management tools have been specified to implement decisions on the level of input and/or output controls. Evidence exists to show clearly that tools are appropriately effective in achieving relevant management objectives.	Management tools have been specified to implement decisions on the level of input and/or output controls. Tools are responsive, relevant and timely. Performance of the tools has been evaluated and evidence exists to show clearly that the tools are effective in achieving relevant management objectives.
1.1.5	There is	a robust assessment of stocks.		
1.1.5.1	Are assessment models used and are they appropriate to the biology of the target species and the type of fishery?	Robust assessment models are used. These are generic and do not account for specific characteristics of either the biology of the species or the nature of the fishery.	Adequate assessment models are used. These are appropriate for the species biology, nature of the fishery and the available data.	Adequate assessment models are used and capture all major features appropriate to the biology of the species and the nature of the fishery and the nature of the management questions being asked, and the available data.
1.1.5.2	Does the assessment take into account major uncertainties in data and have assumptions been evaluated?	Major uncertainties are identified. Some attempt has been made to evaluate these in the assessment.	The assessment takes into account major uncertainties in the data and functional relationships. The most important assumptions have been evaluated and the consequences are known.	The assessment addresses all significant uncertainties in the data and functional relationships and evaluates the assumptions in terms of scope, direction and bias relative to management-related quantities. The assessment model has been shown to meet sufficient levels of precision and accuracy to allow the management process to achieve its objectives.
1.1.5.3	Are uncertainties and assumptions explored and reflected in management advice?	Major uncertainties are recognised and are reported in management advice, as well as possible implications of those uncertainties on the management advice.	Major uncertainties and assumptions are described and addressed in the management advice and through the appropriate decision rules to address those limitations.	All significant uncertainties and assumptions are addressed and reflected in the management advice, including appropriate decision rules.

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1.1.5.4	Does the assessment evaluate	The stock status is estimated relative to	The assessment makes an evaluation of the	The assessment makes a reliable probabilistic evaluation
	current stock status relative to	reference points, with an appropriate	stock status relative to the reference points.	of the stock status relative to the reference points and
	reference points and make	level of understanding of stock trends.	Adequate short and medium term forecasts	projects these into the future over appropriate timescales
	forecasts for the future?		are made.	and under appropriate assumptions about future
				management actions.
1.1.5.5	Does the assessment include the	The assessment gives a credible	The assessment includes a robust	The assessment includes the consequences of current
	consequences of current harvest	indication of the consequences of current	approximation of the consequences of	harvest strategies, forecasts future consequences of these
	strategies?	harvest strategies.	current harvest strategies. Uncertainties in	and evaluates stock trajectories under harvest control
			the model are considered in harvest	rules.
			strategy evaluations.	

1.1.6	The stoc	The stock(s) is/are at appropriate precautionary reference level(s).			
1.1.6.1	Is there evidence that stock	The stock has a high probability of being	The stock has a high probability of being	The stock has a high probability of being consistently at	
	status is consistent with that	above its limit reference point	above its limit reference point and the	or above its target reference levels.	
	providing long-term		stock is at, or fluctuating around, its target		
	productivity?		reference point.		
	[Score 80+: Criterion 1.1 is				
	complete and Criterion 1.2				
	does not apply. Score 79 or				
	less: Answer Criteria 1.2 in				
	addition]				

**1.2** (MSC Criterion 2) Where the exploited populations are depleted, the fishery will be executed such that recovery and rebuilding is allowed to occur to a specified level consistent with the precautionary approach and the ability of the populations to produce long-term potential yields within a specified time frame.

1.2.1	If the stock is below the precautionary reference points, are measures to rebuild the stock specified?	Appropriate rebuilding measures through reduction in exploitation exist and are being implemented. Rebuilding aims to restore the stock such that it is likely to return to reference levels, including precautionary levels.	Appropriate rebuilding measures have been implemented to promote recovery within reasonable time frames. Rebuilding has explicit targets which aim to restore the stock such that it is likely to return to target levels.	Appropriate and demonstrably effective rebuilding measures have been implemented to promote recovery within specified and appropriate timeframes. Rebuilding aims to restore the stock such that it is likely to be consistently above precautionary reference levels.
		Measures are implemented, which may be reasonably expected to work in this situation.	Measures have been tested, in this or a highly comparable situation, and can be shown to be effective in rebuilding the stock through either simulation analysis or actual case histories of implementation.	

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Fishing is conducted in a manner that does not alter the age or genetic structure or sex composition to a degree that impairs reproductive capacity.

1.3.1.1	Is the age/sex/genetic structure	There is some information available on	Estimates are available of the sex and size	There is comprehensive and reliable information on the
	of the stock monitored so as to	the sub-population/sex/age structure of	structure, based on adequate sampling and	sub-population/sex/age structure of the stock, and the
	detect any impairment of	the stock, and the relationship of these to	verification for this stock, and the	relationship of these to reproductive capacity as well as
	reproductive capacity?	reproductive capacity.	relationship of these to reproductive	evaluations of the implications of shifts in these
			capacity. Genetic or sub-population studies	parameters on productivity and management quantities.
		Some monitoring of age/sex and/or sub-	have been carried out as appropriate.	
		populations is conducted and evaluated	Monitoring is continuing to collect such	Population structure is well estimated with only
		periodically.	information on a time scale appropriate to	insignificant errors. Appropriate genetic studies have
			the species and fishery.	been conducted.
1.3.1.2	Does information indicate any	Changes is stock structure may have	Evidence exists that the fishery has not	Data strongly indicate a robust age, sex and genetic
	changes in structure that would	been detected but there is no evidence of	caused changes in stock structure that	structure in the stock, such as would maintain
	alter reproductive capacity?	negative effect on recruitment of the	would affect recruitment.	reproductive capacity.
		stock.		
		Or potentially adverse changes in	Or potentially adverse changes in structure	
		structure are identified and appropriate	are clearly identified and effective	
		remedial measures are in the process of	remedial measures are in place to address	
		implementation over defined timeframes.	impacts over defined timeframes.	

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## **1.3** (MSC Criterion 3) Fishing is conducted in a manner that does not alter the age or genetic structure or sex composition to a degree that impairs reproductive capacity.

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1.3.1

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Principle 2 Fishing e associate		Fishing operations should allow for the maintenance of the structure, productivity, function and diversity of the ecosystem (including habitat and associated dependent and ecologically related species) on which the fishery depends			
<b>2.1</b> (MS	C Criterion 1) The ecos	fishery is conducted in a way that maintains n ystem state changes.	natural functional relationships among speci	ies and should not lead to trophic cascades or	
2.1.1	The	re is adequate understanding of ecosystem fac	tors relevant to the distribution and life hist	tory strategy of the target species.	
2.1.1.1	Are the nature, sensitivity and distribution of habitats releva to the fishing operations known?	Appropriate information on the nature and sensitivity of main habitats exists but may not be comprehensive regarding distribution, or up to date. The seasonal distribution of fishing operations is mapped.	Nature, sensitivity and distribution of all main habitats are known in adequate detail. Information is recent. The distribution of fishing operations is monitored.	The nature, sensitivity and the distribution of all habitats relevant to the fishing operations are known in detail. Information is recent and adequate to assess the risk of significant impacts. The distribution of fishing operations is monitored, and an appropriate time series of information is available.	
2.1.1.2	Is information available on the trophic position, status and relationships of the target species within the food web?	Key prey, predators and competitors are known.	Appropriate information is available on the position, relationships and importance of target species in the food web at key life stages.	Quantitative information is available on the position and importance of the target species and their relationships within the food web at key life stages.	
2.1.1.3	Is there information on the potential for the ecosystem to recover from fishery related impacts?	The most significant elements of the functioning of the ecosystem, relevant to the fishery, are identified and generally understood, adequately to allow a general assessment of recovery potential to be made.	The main elements of the functioning of the ecosystem, relevant to the fishery, have been documented and are understood, allowing reasonable assessment of recovery potential.	Detailed information is available on the potential for all major affected elements of the ecosystem to recover from fishery related impacts.	
2.1.2	Gen	eral risk factors are adequately determined.			
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2.1.2.1	Is information available on th nature and extent of the by- catch (capture of non-target species)?	The main non-target species affected have been identified and adequate qualitative information is available on significantly impacted by-catch.	Information is available on non-target species directly affected by the fishery including their distribution and/or ecology. Quantitative information is available on significantly impacted by-catch. If obtained by sampling, this is considered sufficient to provide adequate information.	Information is available on all non-target species directly affected by the fishery including the distribution and ecology. Accurate records are kept on the nature and extent of all by-catch species including species size and, where appropriate, sex composition.	

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2.1.2.2	Is information available on the extent of discard and slippage (the proportion of the catch not landed)?	Appropriate information is available to estimate the extent of discarding and slippage, including an assessment of the main species represented.	Adequate information is available to allow estimates of discard and slippage to be calculated and interpreted.	Accurate and verifiable information is available on the extent of all discards and slippage (by age/size), and the consequences of these has been evaluated. Or the entire catch is verifiably landed.
2.1.2.3	Is information available on other unobserved fishing mortality on target or other species?	Sources of potential unobserved mortality have been identified.	Appropriate information is available to allow estimates to be made of unobserved mortality.	Information is available to allow quantitative estimates to be made.
2.1.2.4	Are the effects of supply and use of bait known?	Types of bait, extent of use and sources of supply are known. Although little information is known on the amounts used, the general conservation risks of bait collection are known.	There is adequate knowledge of the use of bait including sources and amounts and there is sufficient information to indicate whether collection of bait causes significant conservation problems.	All significant impacts of the supply and use of bait are known.
2.1.2.5	Are the potential and significance of introduced / relocated species known?	There is recognition of potential sources of introduced / relocated species.	Potential routes and significance of introduced/relocated species directly related to the fishery are known	Potential routes and significance of introduced/relocated species directly related to the fishery are known and monitored. Records are kept.

2.1.3	.3 There is adequate knowledge of the effects of gear-use on the receiving ecosystem and extent and type of gear losses.			
2.1.3.1	Is there adequate knowledge of	Main impacts of gear use on the habitat	All impacts of gear use on the habitat are	The physical impacts on the habitat due to use of gear
	the physical impacts on the	are identified, and there is some	adequately identified, and there is reliable	have been studied and quantified, including details of
	habitat due to use of gear?	information on the extent, timing and	information on the extent, including	any irreversible changes.
		location of use.	extent, timing and location of use.	
2.1.3.2	Is any gear lost during fishing	The is a general knowledge of the rate of	There is reliable information on the type,	There is detailed knowledge of the type, quantity and
	operations and can 'ghost	gear losses that takes place such that an	quantity and location of gear lost during	location of gear types lost during fishing operations. The
	fishing' occur?	assessment can be made of ecosystem	fishing operations. Estimates have been	impact of gear loss on habitat, target and non-target
		impacts, including possible 'ghost	made on the extent of adverse effects,	species has been well estimated or recorded.
		fishing'.	including 'ghost fishing'.	

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2.1.4 Strategi ecosyste		ies have been developed within the fisheries em	s management system to address and restra	in any significant negative impacts of the fishery on the
2.1.4.1	Are management strategies in place to address impact identification and avoidance/reduction?	Management strategies include some appropriate consideration of ecosystem impact identification and avoidance/reduction. The strategies may not be tested, but there is reason to expect them to be successful, based on experience in this or other fisheries.	Management strategies are in place to detect and reduce ecosystem impacts, although these may not have been fully tested. Strategies are appropriate to adequately protect key aspects of the ecosystem within main fishing areas.	Management strategies are in place to monitor, detect and reduce impacts. These are appropriate to adequately protect ecosystems, habitats and populations of target and non-target species and keep impacts within determined acceptable levels. Key components of the strategies have been shown to be effective in this or similar fisheries.
2.1.5	Assess	nents of impacts associated with the fishery	including the significance and risk of each	impact show no unacceptable impacts on the ecosystem
	structu	re and/or function, on habitats or on the po	nulations of associated species.	impact show no unacceptable impacts on the cossystem
	50 4004			
2.1.5.1	Does the mortality of target stocks have unacceptable impacts on ecosystem structure and function?	The mortality of target stocks could lead to impacts upon ecological systems (applying the precautionary approach where necessary), but there is no evidence that they are seriously detrimental under current fishery conditions. A program is in development to identify these and, if appropriate, reduce these to acceptable, defined limits.	Sufficient information is available on consequences of current levels of mortality of target species to generally evaluate major impacts, and the information suggests no unacceptable impacts of the fishery on ecological systems.	The ecological consequences of current levels of mortality of target stocks has been quantified and documented to be within acceptable, pre-determined, limits.
2.1.5.2	Does the mortality of non-target stocks have unacceptable impacts on the populations concerned and/or ecosystem structure and function?	The mortality of non-target stocks could lead to impacts upon ecological systems but there is no evidence that the impacts are causing harm that is serious or irreversible (applying the precautionary approach where necessary). A program is in development to identify these and, if appropriate, reduce these to acceptable, defined limits.	Sufficient information is available on consequences of current levels of mortality of non-target species to suggest no unacceptable impacts of the fishery on ecological systems.	The ecological consequences of current levels of mortality of non-target stocks has been quantified and documented to be within acceptable, pre-determined, limits.
2.1.5.3	Does the fishery have unacceptable impacts on habitat structure?	There is no evidence that the fishery is having unacceptable impacts, further work is planned or underway if appropriate.	Information is available on the effects of the fishery on habitat within major fishing areas. This does not indicate any unacceptable impacts.	Effects on habitat structure are well documented and are within acceptable tested/justified limits.

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2.1.5.4	Are associated biological	There is no evidence that the fishery is	Information is available on the effects of	The effects of the fishery on biological diversity,
	diversity, community structure	having unacceptable impacts, further	the fishery on biological diversity,	community structure and productivity have been
	and productivity affected to	work is planned or underway if	community structure and productivity.	quantified and are within acceptable tested/justified
	unacceptable levels?	appropriate.	This does not indicate any unacceptable	limits
			impacts.	

<b>2.2</b> (MSC Criterion 2)	The fishery is conducted in a manner that does not threaten biological diversity (at the genetic, species or population levels and avoids or minimises
	mortality of, or injuries to endangered, threatened or protected species.

2.2.1	Fishin	hing is conducted in a manner that does not have unacceptable impacts on recognised protected, endangered or threatened species.			
2.2.1.1	Is there information on the presence and populations of protected endangered or	There is a programme in place to identify protected, threatened and endangered species directly related to the fishery	All protected, threatened and endangered species significantly (directly or indirectly) related to the fichery have been identified	There is knowledge of all populations of protected species directly or indirectly related to the fishery including threats to their status and recovery. Regular	
	threatened (PET) species?	There is periodic monitoring of the main population trends and status of protected, endangered and threatened species.	Populations of key species are monitored on a regular basis.	monitoring of protected, endangered and threatened species is undertaken, supported by research programmes to assess threats and promote their conservation. The type and distribution of critical habitats have been identified.	
2.2.1.2	Are interactions of the fishery with such species adequately determined?	The main interactions directly related to the fishery are known.	Adequate quantitative estimates are made of the effects of interactions directly related to the fishery. Appropriate monitoring is in place to detect direct incidental mortalities.	Reliable quantitative estimates are made of the interactions of all populations directly related to the fishery, and qualitative information is available on indirect impacts. Incidental mortalities are recorded and reported.	
2.2.1.3	Do interactions pose an unacceptable risk to such species?	Known effects are within acceptable limits of national and international legislative requirements and are believed to create no biological threats to the species concerned.	Critical interactions (which could be direct or indirect effects) are well estimated. Available information shows interactions to be below a level which poses a significant additional risk to PET species. Interactions are monitored at appropriate intervals.	It is established that the direct and indirect effects of fishing on threatened and endangered species are within acceptable pre-defined limits.	

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2.2.2	Strategi endang	es have been developed within the fisherie ered or threatened species.	s management system to address and restra	in any significant impacts of the fishery on protected,	
2.2.2.1	Are management objectives and accompanying strategies in place in relation to impact identification and avoidance/reduction?	Management objectives and accompanying strategies are in place to address key areas of impact identification and avoidance/reduction.	Management objectives are set to detect and reduce impacts as appropriate. Accompanying strategies are designed to adequately protect recognised protected, endangered or threatened species.	Management objectives are set to detect and reduce impacts as appropriate, and they have a sound biological basis. Accompanying strategies are designed to adequately protect recognised protected, endangered or threatened species, and their effectiveness has been tested through simulation or experience with this or very similar fisheries and PET species.	
<b>2.3</b> (MS	<b>2.3</b> (MSC Criterion 3) Where exploited populations (of non-target species) are depleted, the fishery will be executed such that recovery and rebuilding is allowed to occur to a specified level within specified time frames, consistent with the precautionary approach and considering the ability of the population to produce long-term potential yields.				
231	Thorag	re management measures in place that all	w for the rebuilding of affected population	s	
2.3.1	Increa	re management measures in place that and	w for the rebunding of affected population	5.	
2.3.1.1	Is there sufficient information to allow determination of necessary changes in fishery management to allow recovery of depleted populations?	There is some information on functional relationships, sufficient to allow alterations to be made to fishing to recover and rebuild depleted species.	There is adequate information, combined with a precautionary approach wherever necessary, to allow alterations to be made to fishing that would be expected to ensure that the fishery would not impede recovery and rebuilding of depleted species to specified levels within appropriate specified timeframes.	There is a clear understanding of functional relationships between the impacted population and the fishery. Intervention measures based on this understanding have been tested and /or are known to be effective in maximizing the likelihood of promoting recovery of depleted species to specified levels within appropriate timeframes.	
2.3.1.2	Are management measures in place to modify fishery practices in light of the identification of unacceptable impacts?	An appropriate mechanism exists for the modification of fishing practices in light of the identification of unacceptable impacts.	Effective and timely management measures are in place to modify fishery practices in light of the identification of unacceptable impacts.	Monitoring programs are in place within the management system to allow timely modification of fishery practices in light of the identification of unacceptable impacts. Objectives and limits taking account of environmental change are used to guide operational practices. It is demonstrated that these are effective.	

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2.3.1.3	Do management measures allow	Appropriate rebuilding measures exist	Appropriate rebuilding measures have	Appropriate rebuilding measures are being implemented
	for recovery of affected	and are fully implemented. Measures	been implemented. Measures have been	to promote recovery as quickly as is possible and
	populations?	may not have been tested.	tested and can be shown to be promoting	recovery of exploited populations to a specified level
			the rebuilding of affected populations and	within specified time frames. Additional measures are
			recovery of exploited populations to a	being implemented to prevent problems in the future.
			specified level within specified time	
			frames.	

Principle 3	The fishery is subject to an effective management system that respects local, national and international laws and standards and incorporates
-	institutional and operational frameworks that require use of the resource to be responsible and sustainable

**3A.1** (MSC Principle 3 Intent<br/>and Criterion 3)A management system containing an institutional and operational framework exists with clear lines of responsibility.

Management System Criteria

3.A.1.1	Are organisations with management responsibility clearly defined including areas of responsibility and interactions?	Organisations with management responsibility are known. Responsibilities and interactions may require clarification but are effective in critical areas.	Organisations with management responsibility have been defined including key areas of responsibility and interaction. In general, interactions are effective and operate without serious difficulties.	Organisations with management responsibility are clearly defined including all areas of responsibility and interaction. Interactions are demonstrably effective.
3A.1.2	Is the management system consistent with the cultural context, scale and intensity of the fishery?	Inconsistencies may arise in some key areas but a programme is in place to address these.	The system is consistent with key elements of the cultural context, scale and intensity of the fishery.	The system is entirely consistent with the cultural context, scale and intensity of the fishery.
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3A.1.3	Is the management system subject to internal review?	There are mechanisms in place to allow for internal review.	The major components of the management system are subject to internal review at appropriate intervals. Consideration of the recommendations of reviews is demonstrated.	The management system is subject to regular and frequent internal review. This includes evidence that the assessment methodology has been evaluated extensively and that any recommended changes have been made. Monitoring and evaluation are ongoing and improvements quickly tested and implemented.

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3A.1.4	Is the management system subject to external review?	There are mechanisms in place to allow for external review.	The major components of management system are subject to external review at appropriate intervals. Consideration of the recommendations of reviews is demonstrated.	The management system is subject to regular and frequent external review. Monitoring and evaluation are ongoing and improvements quickly tested and implemented
2 4 2 ()4	(C. Cuitania 1. 2. d) The mean	a noment and an has a clean least has		
<b>3</b> A.2 (M	SC Criteria 1, 2, 4)   The man	lagement system has a clear legal basis.		
3A.2.1	Is the fishery consistent with International Conventions and Agreements?	The management system operates under relevant international conventions and agreements, but some management actions may be open to interpretation and challenge in relation to the terms of these.	The management system is generally consistent with relevant international conventions and agreements. The management system does not operate under any controversial exemption to an international fisheries or environment- related agreement.	The management system is demonstrably compliant with all relevant international conventions and agreements.
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3A.2.2	Is the fishery consistent with national legislation?	The management system operates under relevant national legislation, but some management actions may be open to interpretation and challenge in relation to the terms of these.	I he management system makes consistent, good faith efforts to be consistent with relevant national legislation. Management organisations have not been found to be repeatedly in violation of national law.	all relevant national legislation.
3A.2.3	Does the system observe the legal and customary rights of people dependent upon fishing?	The customary and legal rights of the people dependent upon fishing are known and no major conflicts have occurred.	The system observes the legal and customary rights of people dependent upon fishing but does not necessarily have a formal codified system.	The system observes all legal and customary rights of people dependent upon fishing under a formal codified system.
3A.3 (M	SC Criteria 2 5 7) The man	agement system includes strategies to me	et objectives including consultative procedu	res and dispute resolutions
011.0 (101		agement system menues su ategies to me	et objectives including consultative procedu	res and dispute resolutions.
3A.3.1	Does the management system contain clear short and long- term objectives?	Short and long-term resource and environment objectives are implicit within the management system.	The management system contains an appropriate set of clear and explicit short and long-term resource and environment objectives.	The management system contains clear and explicit short and long-term resource and environment objectives that can be measured by performance indicators.
3A.3.2	Do operational procedures exist for meeting objectives?	Generally adequate operational procedures exist which are applied to the meeting of objectives.	Transparent operational procedures are applied to the meeting of objectives. These procedures can be shown to support the objectives.	Operational procedures are transparent and clearly applied. There is a feedback mechanism testing effective application.
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3A.3.3	Are there procedures for measuring performance relative to the objectives?	Operational procedures exist which can be used to measure performance relative to the objectives.	There are appropriate procedures used for measuring performance relative to the objectives, applied at appropriate intervals.	Tested procedures are used for regular measurement of performance relative to the objectives.
3A.3.4	Do procedures enable a precautionary approach in the absence of sufficient information?	Measures exist to implement a precautionary approach in the absence of sufficient information. There is some evidence that this is occurring.	Formalised and appropriate measures are in place which implement a precautionary approach in the development and application of operational procedures in the absence of sufficient information.	All procedures include for evaluation of uncertainty and application of precaution at an appropriate level.
3A.3.5	Does the system include a consultative process including relevant and affected parties?	The system includes an appropriate consultative process including key stakeholders within the fishery.	The system includes an appropriate consultative process including all main public and private stakeholders and can demonstrate consideration of representations made.	The system includes an appropriate consultative process including all affected stakeholders. Decisions specifically discuss and/or address stakeholder concerns.
3A.3.6	Is there an appropriate mechanism for the resolution of disputes within the system?	Mechanisms are theoretically adequate but have not been consistently applied or fully implemented.	There is an appropriate and established mechanism for the resolution of disputes within the system and it is generally applied.	There is an appropriate and tested mechanism within the system for the documentation and resolution of disputes of varying magnitude and it is consistently applied.

<b>3A.4</b> (MSC Criterion 6) The management system operates in a manner appropriate			propriate to the objectives of the fishery.		
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JA.4.1	subsidies that may contribute to unsustainable fishing?	indirectly to unsustainable fishing. These are short-term and are in the process of being removed within acceptable timescales.	subsidies that may contribute to unsustainable fishing or ecosystem degradation.	unsustainable fishing or ecosystem degradation.	
3A.4.2	Does the system include economic/social incentives that contribute to sustainable fishing?	Measures to allocate fishing opportunities and/or entry to the fishery, or other incentives, are generally supportive of achieving fishery objectives.	Allocations of fishing opportunities and/or entry to the fishery, and/or other incentives, promote fishery and ecosystem management goals.	The system has established economic and social incentives that contribute to sustainable fishing and ecosystem management.	

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<b>3A.5</b> (MSC Criterion 8) <b>A rese</b>		A resear	ch plan exists in line with the managemen	t system to address information needs.	
3A.5.1	Have key research areas requiring further inform been identified?	ation	Some major areas requiring further research have been identified.	All key areas requiring further research have been identified.	A comprehensive review of necessary information requirements has been undertaken.
3A.5.2	Is research planned/und by the scientific adviser meet the specific require of the management plan	ertaken s to ements !?	Research is planned for highest priority information needs, and some capacity exists to conduct the planned research.	Research is planned and undertaken to provide necessary scientific support to the plan. There are demonstrable resources to allow implementation of the programme.	There is an ongoing, adequately funded, comprehensive and balanced research programme, linking research to the management plan.
3A.5.3	Is relevant research carr by other organizations ( Universities) and is this into consideration?	ied out e.g. taken	The management system is aware of research carried out by other organisations and elements of this are taken into consideration.	Appropriate research carried out by other organisations is taken into consideration, although there is not necessarily any proactive co-ordination between organisations.	Relevant research carried out by other organisations is taken into account for management considerations. Relevant research of other organisations is often co- ordinated with existing research plans of the management system, or there is an active program to ensure that management is well informed of relevant research carried out by other organisations.

<b>3A.6</b> (MSC Criteria 7, 9, 10) The management system includes measures to achieve objectives for the stock.				
3A.6.1	Are the resource and effects of the fishery monitored?	A monitoring programme is in place that addresses some aspects of resource and effects and which can be extended.	A monitoring programme is in place that addresses all key aspects of resource and effects at appropriate intervals and results are recorded and available for science and management purposes.	The resource and effects of the fishery are closely monitored over appropriate geographical areas and time periods. Full records are kept of monitoring results and these are made available promptly to relevant research and management bodies.
3A.6.2	Are results evaluated against precautionary target and limit reference points?	Target and limit reference points exist and some level of evaluation against these is possible. These take account of the precautionary approach, but this may not be explicit.	Results of monitoring are regularly interpreted in relation to precautionary, target and limit reference points.	Results of monitoring are quantitatively evaluated against precautionary target and limit reference points on a regular and timely basis.
3A.6.3	Do procedures exist for reductions in harvest in light of monitoring results and how quickly and effectively can these be implemented?	Adequate procedures exist to reduce harvest. Programmes to link these with monitoring results are underway.	Appropriate procedures exist to reduce harvest in the light of monitoring results and provide for stock recovery to specified levels. Measures can be implemented in a timely manner.	Practical and effective procedures exist to reduce harvest in light of monitoring results and provide for stock recovery to specified levels within specified time frames. There is evidence or a clear expectation that these procedures to implement changes can be effectively introduced on an appropriate timescale.

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3A.7(MS	<b>3A.7</b> ( <i>MSC Criterion 10</i> ) The management system includes measures to achieve objectives for the affected ecosystem.				
3A.7.1	Are measures in place to address (avoid or minimise) significant environmental impacts?	Significant environmental impacts are known and measures are being applied to reduce them.	Environmental impacts are known. Measures are being applied to minimise all significant ones and there is evidence that the measures are working.	Measures are in place to avoid all significant environmental impacts and are subject to monitoring and periodic review.	
3A.7.2	Are no take zones, Marine Protected Areas or closed areas for specific periods appropriate and, if so, are these established and enforced?	Suitability of no-take zones and/or closed areas / seasons has been reviewed against objective biological criteria. Where these are considered to be appropriate, plans are in place to implement some or all of these as appropriate.	Suitability of no-take zones and closed areas / seasons has been reviewed against objective biological criteria. Where these are considered appropriate they have been, or are currently being, implemented and adequately enforced.	No-take zones and closed areas / seasons are established and effectively enforced if and where appropriate and, if implemented, the consequences are being monitored.	
<b>3 A.8</b> (M	ASC Criterion 11) There ar	e control measures in place to ensure the	management system is effectively implement	ited.	
3A.8.1	Are information, instruction and/or training provided to fishery operatives in the aims and methods of the management system?	Mechanisms exist for the dissemination of information, instruction and training of fishery operatives. Implementation of these mechanisms may not be universally implemented.	Information, instruction and training are provided to fishery operatives in the aims and methods of the management system allowing effective management of the system.	Information, instruction and training are provided to fishery operatives in the aims and methods of the management system allowing effective management of the fishery and operatives demonstrate comprehensive knowledge of this information.	
3A.8.2	Is surveillance and monitoring in place to ensure that requirements of the management system are complied with?	An enforcement system has been implemented; however, its effectiveness and/or compliance have not been fully demonstrated relative to conservation objectives.	An effective enforcement system has been implemented and there is an appropriate degree of control and compliance. Enforcement systems include measures to control IUU fishing and misreporting.	An effective enforcement system has been implemented and there is a high degree of control and compliance. Robust enforcement systems are in place to effectively control IUU fishing misreporting.	
3A.8.3	Can corrective actions be applied in the event of non- compliance and is there evidence of their effectiveness?	Mechanisms exist or are being developed which can be implemented or applied to deal with non-compliance.	There are set measures that can be applied in the event of non-compliance although these may not be included in a formal or codified system. These have been tested if/as appropriate to demonstrate their effectiveness.	Agreed and tested corrective actions can be applied in the event of non-compliance.	

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3.B O		Operational Criteria			
<b>3B.1</b> (MSC Criter	ion 12) There	are measures that include practices to redu	ce impacts on non-target species and inadv	ertent impacts upon target species.	
3.B.1.1 Do mea through alternat include non-tar inadver species by-catc high gr	asures, principally a the use of gear and ive fishing practices, avoidance of impacts of get species and tent impacts upon targe ? These would include h, discard, slippage and ading.	Appropriate measures have been implemented that are intended to reduce the major impacts on non-target species and inadvertent impacts on target species, but their effectiveness is uncertain.	Measures have been implemented as and when appropriate to avoid or reduce the major impacts on non-target species and inadvertent impacts on target species and there is evidence that they are having the desired effect.	Measures have been implemented to consistently avoid or reduce the major impacts on non-target species and inadvertent impacts on target species, and their effectiveness is clearly demonstrated.	
<b>3B.2</b> (MSC Criter	rion 13) There	are systems in place that encourage fishing	methods that minimise adverse impacts on	habitat.	
3B.2.1 Do fish implem method adverse especia zones s nursery	ing operations ent appropriate fishing is designed to minimise impacts on habitat, Ily in critical or sensitivuch as spawning or rareas?	Fishing operations use measures to reduce major impacts on habitat, especially in critical or sensitive zones such as spawning or nursery areas.	There is evidence that fishing operations are effective in avoiding significant adverse effects on the environment, especially in critical or sensitive zones such as spawning or nursery areas.	There is direct evidence that fishing operations implement appropriate methods to avoid significant adverse impacts on all habitats.	
<b>3B.3</b> (MSC Criter	rion 14) The n	lanagement system incorporates measures t	hat discourage destructive practices.		
3B.3.1 Does the destruction (such a	e fishery employ tive fishing practices s poisons or explosives)	The fishery does not allow any such destructive fishing practices.	The fishery does not employ any such destructive fishing practices and enforcement is considered sufficient to prevent their use.	The fishery does not employ any such destructive fishing practices and enforcement is considered sufficient to prevent their use. There is also a code of conduct for responsible fishing, prohibiting these, that is fully supported by fishers.	
	· 15) (10)				
<b>3B.4</b> (MSC Criterion 15) The management system incorporates measures that reduce operational waste.					
3B.4.1 Do mea operation	asures exist to reduce onal waste?	Measures/facilities are in place to reduce sources of operational waste that are known to have detrimental environmental consequences, but further reductions may be possible.	Measures/facilities are in place to reduce all sources of operational waste that are known to have detrimental environmental consequences, and there is evidence they are effective.	Measures/facilities are in place to minimise all sources of operational waste that are known to have detrimental environmental consequences, and there is evidence they are effective and these measures are supported by the fishers.	
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<b>3B.5</b> (MSC Criterion 16) Fishi		perations are conducted in compliance w	ith the management system and legal and a	dministrative requirements.
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Are fishers aware of		Fishers are aware of key management	Fishers are aware of management and legal	All fishers are aware of management legal requirements
management system, lega	al and	and legal requirements.	requirements upon them and are kept up to	through a clearly documented and communicated
administrative requireme	ents?		date with new developments.	mechanism such as a code of conduct.
Do fishers comply with		Fishers appear generally to comply with	Evidence exists to show that fishers are	Fishers are demonstrably fully compliant with, and fully
management system, lega	al and	requirements, but there is incomplete	generally compliant with relevant	supportive of, legal, and administrative requirements,
administrative requirement	ents?	information on the actual extent of	management and legal requirements and	such as through a code of conduct.
		compliance.	there are no indications of consistent	
			violations.	
What is the record of		There is information on breaches of	Evidence of rigorous monitoring of all the	Strong evidence of rigorous monitoring and control of
enforcement of regulation	ns in	regulations and on corrective action to	enforcement measures and evidence of	the enforcement measures through for example satellite
the fishery: quota control	l, by-	prevent or curtail.	effective actions taken in the event of	monitoring, shipboard observers and nominated landing
catch limits, MLS, mesh			breaches is available.	ports. There is strong evidence of firm and effective
regulations and closed are	eas?			action being taken in the event of any breaches.
	SC Criterion 16) Are fishers aware of management system, leg administrative requireme Do fishers comply with management system, leg administrative requireme What is the record of enforcement of regulatio the fishery: quota control catch limits, MLS, mesh regulations and closed ar	SC Criterion 16) Fishing of   Are fishers aware of management system, legal and   administrative requirements? Do fishers comply with   management system, legal and administrative requirements?   Do fishers comply with management system, legal and   administrative requirements? What is the record of   enforcement of regulations in the fishery: quota control, by-   catch limits, MLS, mesh regulations and closed areas?	SC Criterion 16)Fishing operations are conducted in compliance weAre fishers aware of management system, legal and administrative requirements?Fishers are aware of key management and legal requirements.Do fishers comply with management system, legal and administrative requirements?Fishers appear generally to comply with requirements, but there is incomplete information on the actual extent of compliance.What is the record of enforcement of regulations in the fishery: quota control, by- catch limits, MLS, mesh regulations and closed areas?There is information on breaches of revent or curtail.	SC Criterion 16)Fishing operations are conducted in compliance with the management system and legal and aAre fishers aware of management system, legal and administrative requirements?Fishers are aware of key management and legal requirements.Fishers are aware of management and legal requirements upon them and are kept up to date with new developments.Do fishers comply with management system, legal and administrative requirements?Fishers appear generally to comply with requirements, but there is incomplete information on the actual extent of compliance.Evidence exists to show that fishers are generally compliant with relevant management and legal requirements and there are no indications of consistent violations.What is the record of enforcement of regulations in the fishery: quota control, by- catch limits, MLS, mesh regulations and closed areas?There is information on breaches of prevent or curtail.Evidence of rigorous monitoring of all the enforcement of breaches is available.

**3B.6** (MSC Criterion 17)

## The management system involves fishers in data collection.

3B.6.1	Do fishery operatives assist in	Fishery operatives are involved in the	Fishery operatives are regularly involved	Fishery operatives assist significantly in the collection
	the collection of catch, discard	collection of some catch, discard and	in the collection and recording of relevant	and recording of all appropriate catch, discard and other
	and other relevant data?	other information.	catch, discard and other information.	information.