

Appendix VII. Issues of concern – national and regional matrix

Table A1: National Relevance of issues presented in Draft Issues Framework, as validated during Causal Chain Analysis Workshops (July-August 2011) (* Issue that was subsequently removed from the list during the Regional TDAIII workshop)

Major Area of Concern	Issue no.	Issue	Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	Relevant now	Relevant future	Not relevant
MAC01:	1.1.	Alteration of natural river flow and changes in freshwater input and sediment load	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	1.2.	Degradation of ground and surface water quality	✓ ^f	✓	✓	✓	✓	✓	✓	✓	✓	8	1	0
	1.3.	Degradation of coastal and marine water quality	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	1.3.1	Microbiological contamination from land-based (domestic, industrial, agriculture and livestock) and marine (mariculture, shipping) sources	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	1.3.2	Nutrient enrichment from land-based (domestic, industrial, agriculture, livestock) and marine (mariculture) sources	✓	✓	✓	✓	✓ ^f	✓	✓	✓	✓	8	1	0
	1.3.3	Chemical contamination (excluding oil spills) from land-based (domestic, industrial and agricultural) and marine (shipping, dumping at sea) sources	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	1.3.4	Suspended solids in coastal waters due to human activities on land and in the coastal zone	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	1.3.5	Solid wastes / marine debris (plastics etc.) from shipping and land-based-sources	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	1.3.6	Oil spills (drilling, exploitation, transport, processing, storage, shipping).	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
MAC02:	2.1.	Shoreline change, due to modification, land reclamation and coastal erosion	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	2.2.	Disturbance, damage and loss of coastal, watershed and upland habitats	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	2.2.1.	Disturbance, damage and loss of upland / watershed habitats (>10 m elevation)	✓	✓	✓	✓	✓	NR	✓	✓	✓	8	0	1
	2.2.2.	Disturbance, damage and loss of coastal forest habitats	✓	✓	✓	NR	NR	✓	✓	✓	✓	7	0	2
	2.2.3.	Disturbance, damage and loss of coastal habitats (beaches, dunes, coastal vegetation and flood plain habitats to 10 m elevation)	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0

Major Area of Concern	Issue no.	Issue	Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	Relevant now	Relevant future	Not relevant
	2.2.4.	Disturbance, damage and loss of wetland habitats	NR	✓	✓	✓	✓ _f	✓	✓	✓	✓	7	1	1
	2.2.5.	Disturbance, damage and loss of estuarine habitats	NR	✓	✓	NR	✓	NR	✓	✓	✓	6	0	3
	2.2.6.	Disturbance, damage and loss of mangrove habitats	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	2.3.	Disturbance, damage and loss of subtidal benthic habitats	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	2.3.1.	Disturbance, damage and loss of coral reef habitats	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	2.3.2.	Disturbance, damage and loss of seagrass habitats	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	2.3.3.	Disturbance, damage and loss of macroalgal habitats	✓	✓	✓	NR	✓	NR	✓	✓	✓	7	0	2
	2.3.4.	Disturbance, damage and loss of soft sediment habitats	NR	✓	✓	✓	✓	✓	✓	✓	✓	8	0	1
	2.3.5.	Disturbance, damage and loss of deep water habitats (including sea mounts)	NR	✓	✓ _f	NR	NR	NR	✓	✓	✓	4	1	4
	2.4.	Disturbance, damage and degradation of pelagic habitats (nearshore <30 m, neritic 30-200m and oceanic >200m depth)	NR	✓	✓	✓	✓ _f	✓ _f	✓	✓	✓	6	2	1
	2.5.	Increase in the occurrence of harmful or toxic algal blooms (HABs)	✓	✓	✓	✓	✓	NR	✓	✓	✓	8	0	1
	2.6.	Introduction of exotic non-native species, invasives and nuisance species	✓ _f	✓	✓	✓	✓	NR	✓	✓	✓	7	1	1
MAC03:	3.1.	Decline in populations of focal species	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	3.1.1.	Decline in populations of marine mammals	✓	✓	✓	✓ _f	✓	✓	✓	NR	NR	6	1	2
	3.1.2.	Decline in populations of cetaceans	NR	✓	✓ _f	✓	✓	✓	✓	NR	NR	5	1	3
	3.1.3.	Decline in populations of seabirds	✓	✓	✓ _f	✓	✓	✓	✓	✓	NR	7	1	1
	3.1.4.	Decline in populations of turtles	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	3.2.	Decline in populations of commercial fish stocks	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	3.2.1.	Decline in populations of sharks and rays	✓	✓	✓	✓	✓	✓	✓	✓	NR	8	0	1
	3.2.2.	Decline in populations of large pelagic	✓	✓	✓	✓	✓ _f	✓	✓	✓	✓	8	1	0
	3.2.3.	Decline in populations of small pelagic	✓	✓	✓ _f	NR	✓ _f	NR	✓	✓	✓	5	2	2
3.2.4.	Decline in populations of deep water demersals	NR	✓	NR	✓	✓ _f	✓	✓	✓	✓	6	1	2	

Major Area of Concern	Issue no.	Issue											Relevant now	Relevant future	Not relevant
			Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania				
	3.2.5.	Decline in populations of reef and demersal fish	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	3.3.	Decline in populations of commercial invertebrates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	3.3.1.	Decline in populations of molluscs (bivalves, gastropods)	✓ f	✓	✓ f	✓	✓ f	NR	NR	✓	✓	✓	4	3	2
	3.3.2.	Decline in populations of abalone*	NR	NR	NR	NR	NR	NR	NR	✓	NR	NR	1	0	8
	3.3.3.	Decline in populations of cephalopods	✓	✓	✓	✓	✓ f	✓	✓	NR	✓	✓	7	1	1
	3.3.4.	Decline in populations of sea cucumbers	✓	✓	✓	✓	✓	✓	✓	NR	✓	✓	8	0	1
	3.3.5.	Decline in populations of sea urchins*	NR	✓	✓ f	NR	✓ f	NR	NR	NR	NR	NR	1	2	6
	3.3.6.	Decline in populations of prawns and shrimp	✓	✓	✓	✓	✓	NR	✓	✓	✓	✓	8	0	1
	3.3.7.	Decline in populations of lobsters	NR	✓	✓	✓	✓	✓	✓	NR	✓	✓	7	0	2
	3.3.8.	Decline in populations of crayfish*	NR	NR	NR	NR	✓ f	NR	✓	NR	NR	NR	1	1	7
	3.3.9.	Decline in populations of crabs	✓	✓	✓	✓	✓ f	NR	✓	NR	✓	✓	6	1	2
	3.4.	Excessive bycatch and discards	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
3.5.	Expansion of mariculture industry (biosecurity, diseases in wildstocks, exotics, habitat implications, water quality)	✓	✓	✓	✓	✓ f	✓	✓ f	✓ f	✓	✓	6	3	0	
MAC04: Unpredic table Environm ental Variabilit y and Extreme Events	4.1.	Climate hazards and extreme weather events (cyclones, storms, rainfall, coastal flooding)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	4.2.	Sea level change	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	4.3.	Ocean acidification	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	4.4.	Changes in seawater temperatures	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	4.5.	Changes to hydrodynamics and ocean circulation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	4.6.	Changes in productivity (shifts in primary and secondary production)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0
	4.7.	Geohazards (tsunamis, volcanic eruptions, earthquakes)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	0	0

Table A2: Prioritization Level 1: National Importance of Issues (* Issue that was subsequently removed from the list during the Regional TDAIII workshop)

Main Area of Concern	Issue No.	Issue	Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	H	M	L	NR
MAC01.	1.1.	Alteration of natural river flow and changes in freshwater input and sediment load	H	H	H	L	H	M	M	H	H	6	2	1	0
	1.2.	Degradation of ground and surface water quality	H	H	H	L	H	M	M	H	H	6	2	1	0
	1.3.	Degradation of coastal and marine water quality													
	1.3.1	Microbiological contamination from land-based (domestic, industrial, agriculture and livestock) and marine (mariculture, shipping) sources	M	M	H	L	M	M	L	H	M	2	5	2	0
	1.3.2	Nutrient enrichment from land-based (domestic, industrial, agriculture, livestock) and marine (mariculture) sources	L	H	H	L	H	M	L	M	H	4	2	3	0
	1.3.3	Chemical contamination (excluding oil spills) from land-based (domestic, industrial and agricultural) and marine (shipping, dumping at sea) sources	H	M	M	L	L	M	H	M	M	2	5	2	0
	1.3.4	Suspended solids in coastal waters due to human activities on land and in the coastal zone	H	H	H	L	H	M	M	M	M	4	4	1	0
	1.3.5	Solid wastes / marine debris (plastics etc.) from shipping and land-based-sources	H	H	H	L	H	M	H	M	H	6	2	1	0
	1.3.6	Oil spills (drilling, exploitation, transport, processing, storage, shipping).	H	H	H	M	H	L	H	H	M	6	2	1	0
MAC02:	2.1.	Shoreline change, due to modification, land reclamation and coastal erosion	M	H	H	H	H	H	L	M	H	6	2	1	0
	2.2.	Disturbance, damage and loss of coastal, watershed and upland habitats													
	2.2.1.	Disturbance, damage and loss of upland / watershed habitats (>10 m elevation)	H	H	H	M	H	NR	H	H	H	7	1	0	1
	2.2.2.	Disturbance, damage and loss of coastal forest habitats	M	H	H	M	NR	M	H	H	H	5	3	0	1
	2.2.3.	Disturbance, damage and loss of coastal habitats (beaches, dunes, coastal vegetation and flood plain habitats to 10 m elevation)	H	H	H	H	H	H	H	H	H	9	0	0	0
	2.2.4.	Disturbance, damage and loss of wetland habitats	NR	H	M	H	M	M	H	H	H	5	3	0	1

Main Area of Concern	Issue No.	Issue	Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	H	M	L	NR
	2.2.5.	Disturbance, damage and loss of estuarine habitats	NR	H	H	NR	H	NR	H	H	M	5	1	0	3
	2.2.6.	Disturbance, damage and loss of mangrove habitats	L	H	H	H	H	L	H	L	H	6	0	3	0
	2.3.	Disturbance, damage and loss of subtidal benthic habitats													
	2.3.1.	Disturbance, damage and loss of coral reef habitats	H	H	H	H	H	H	H	M	H	8	1	0	0
	2.3.2.	Disturbance, damage and loss of seagrass habitats	M	H	H	M	H	L	H	L	H	5	2	2	0
	2.3.3.	Disturbance, damage and loss of macroalgal habitats	M	L	M	NR	M	NR	M	M	L	0	5	2	2
	2.3.4.	Disturbance, damage and loss of soft sediment habitats	NR	M	M	L	H	M	M	H	H	3	4	1	1
	2.3.5.	Disturbance, damage and loss of deep water habitats (including sea mounts)	NR	L	H	NR	NR	NR	L	H	H	3	0	2	4
	2.4.	Disturbance, damage and degradation of pelagic habitats (nearshore <30 m, neritic 30-200m and oceanic >200m depth)	NR	H	H	H	M	L	H	H	H	6	1	1	1
	2.5.	Increase in the occurrence of harmful or toxic algal blooms (HABs)	H	M	H	H	L	NR	M	H	M	4	3	1	1
2.6.	Introduction of exotic non-native species, invasives and nuisance species	L	M	H	M	M	NR	L	H	H	3	3	2	1	
MAC03:	3.1.	Decline in populations of focal species													
	3.1.1.	Decline in populations of marine mammals	M	H	M	H	H	H	H	NR	NR	5	2	0	2
	3.1.2.	Decline in populations of cetaceans	NR	H	H	H	M	H	H	NR	NR	5	1	0	3
	3.1.3.	Decline in populations of seabirds	H	L	L	H	M	H	L	M	NR	3	2	3	1
	3.1.4.	Decline in populations of turtles	H	H	H	H	H	H	H	M	M	7	2	0	0
	3.2.	Decline in populations of commercial fish stocks													
	3.2.1.	Decline in populations of sharks and rays	H	H	H	H	H	H	H	H	NR	8	0	0	1
	3.2.2.	Decline in populations of large pelagics	H	M	H	H	H	H	H	L	H	7	1	1	0
	3.2.3.	Decline in populations of small pelagics	H	H	H	NR	L	NR	H	L	H	5	0	2	2
3.2.4.	Decline in populations of deep water demersals	NR	L	NR	H	L	H	H	L	H	4	0	3	2	

Main Area of Concern	Issue No.	Issue	Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	H	M	L	NR
	3.2.5.	Decline in populations of reef and demersal fish	H	H	H	H	H	H	H	H	H	9	0	0	0
	3.3.	Decline in populations of commercial invertebrates													
	3.3.1.	Decline in populations of molluscs (bivalves, gastropods)	M	H	M	H	L	NR	NR	M	L	2	3	2	2
	3.3.2.	Decline in populations of abalone*	NR	NR	NR	NR	NR	NR	NR	H	NR	1	0	0	8
	3.3.3.	Decline in populations of cephalopods	H	H	H	H	M	H	H	NR	H	7	1	0	1
	3.3.4.	Decline in populations of sea cucumbers	H	H	H	H	H	H	H	NR	H	8	0	0	1
	3.3.5.	Decline in populations of sea urchins*	NR	H	L	NR	L	NR	NR	NR	NR	1	0	2	6
	3.3.6.	Decline in populations of prawns and shrimp	H	H	H	H	M	NR	H	M	H	6	2	0	1
	3.3.7.	Decline in populations of lobsters	NR	H	H	H	H	H	H	NR	M	6	1	0	2
	3.3.8.	Decline in populations of crayfish*	NR	NR	NR	NR	L	NR	H	NR	NR	1	0	1	7
	3.3.9.	Decline in populations of crabs	H	H	H	H	M	NR	M	NR	L	4	2	1	2
	3.4.	Excessive bycatch and discards	H	H	H	H	H	H	H	M	H	8	1	0	0
	3.5.	Expansion of mariculture industry (biosecurity, diseases in wildstocks, exotics, habitat implications, water quality)	H	H	H	H	H	H	L	M	M	6	2	1	0

Table A3:
workshop)

Prioritization Level 1: Availability of baseline data related to the issue (* Issue that was subsequently removed from the list during the Regional TDAIII

Main Area of Concern	Issue No.	Issue	Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	?	NR	X	✓	•
MAC01.	1.1.	Alteration of natural river flow and changes in freshwater input and sediment load	X	✓	✓	✓	✓	✓	✓	✓	✓	0	0	1	8	0
	1.2.	Degradation of ground and surface water quality	X	✓	X	✓	✓	X	✓	✓	✓	0	0	3	6	0
	1.3.	Degradation of coastal and marine water quality														
	1.3.1	Microbiological contamination from land-based (domestic, industrial, agriculture and livestock) and marine (mariculture, shipping) sources	X	✓	✓	•	✓	X	X	✓	✓	0	0	3	5	1
	1.3.2	Nutrient enrichment from land-based (domestic , industrial, agriculture, livestock) and marine (mariculture) sources	X	✓	✓	•	X	X	?	✓	✓	1	0	3	4	1
	1.3.3	Chemical contamination (excluding oil spills) from land-based (domestic, industrial and agricultural) and marine (shipping, dumping at sea) sources	X	✓	X	•	✓	X	✓	✓	✓	0	0	3	5	1
	1.3.4	Suspended solids in coastal waters due to human activities on land and in the coastal zone	X	✓	X	•	✓	X	X	•	✓	0	0	4	3	2
	1.3.5	Solid wastes / marine debris (plastics etc.) from shipping and land-based-sources	X	✓	✓	•	✓	X	X	✓	✓	0	0	3	5	1
	1.3.6	Oil spills (drilling, exploitation, transport, processing, storage, shipping).	X	✓	✓	X	✓	X	X	✓	✓	0	0	4	5	0
MAC02:	2.1.	Shoreline change, due to modification, land reclamation and coastal erosion	✓	•	✓	✓	✓	✓	X	✓	•	0	0	1	6	2
	2.2.	Disturbance, damage and loss of coastal, watershed and upland habitats														
	2.2.1.	Disturbance, damage and loss of upland / watershed habitats (>10 m elevation)	✓	•	✓	✓	✓	✓	✓	✓	•	0	0	0	7	2
	2.2.2.	Disturbance, damage and loss of coastal forest habitats	✓	✓	✓	?	NR	✓	✓	✓	✓	1	1	0	7	0

Main Area of Concern	Issue No.	Issue	Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania
	2.2.3.	Disturbance, damage and loss of coastal habitats (beaches, dunes, coastal vegetation and flood plain habitats to 10 m elevation)	✓	?	?	X	✓	✓	?	✓	•
	2.2.4.	Disturbance, damage and loss of wetland habitats	NR	✓	✓	✓	✓	✓	?	✓	•
	2.2.5.	Disturbance, damage and loss of estuarine habitats	NR	✓	✓	NR	✓	NR	?	✓	•
	2.2.6.	Disturbance, damage and loss of mangrove habitats	✓	✓	✓	✓	✓	✓	✓	•	•
	2.3.	Disturbance, damage and loss of subtidal benthic habitats									
	2.3.1.	Disturbance, damage and loss of coral reef habitats	✓	✓	✓	✓	✓	✓	✓	✓	•
	2.3.2.	Disturbance, damage and loss of seagrass habitats	✓	✓	✓	X	✓	✓	✓	X	•
	2.3.3.	Disturbance, damage and loss of macroalgal habitats	✓	✓	✓	NR	✓	NR	✓	X	✓
	2.3.4.	Disturbance, damage and loss of soft sediment habitats	NR	X	?	X	✓	X	?	X	•
	2.3.5.	Disturbance, damage and loss of deep water habitats (including sea mounts)	NR	X	✓	NR	NR	NR	X	X	•
	2.4.	Disturbance, damage and degradation of pelagic habitats (nearshore <30 m, neritic 30-200m and oceanic >200m depth)	NR	✓	✓	✓	X	X	✓	X	•
	2.5.	Increase in the occurrence of harmful or toxic algal blooms (HABs)	✓	✓	✓	✓	✓	NR	✓	X	•
2.6.	Introduction of exotic non-native species, invasives and nuisance species	?	✓	?	X	✓	NR	X	X	•	
MAC03:	3.1.	Decline in populations of focal species									
	3.1.1.	Decline in populations of marine mammals	•	✓	X	✓	•	X	✓	NR	NR
	3.1.2.	Decline in populations of cetaceans	NR	✓	X	✓	•	X	✓	NR	NR
	3.1.3.	Decline in populations of seabirds	X	✓	✓	✓	✓	✓	X	✓	NR
	3.1.4.	Decline in populations of turtles	✓	✓	✓	✓	✓	X	✓	✓	✓

?	NR	X	✓	•
3	0	1	4	1
1	1	0	6	1
1	3	0	4	1
0	0	0	7	2
0	0	0	8	1
0	0	2	6	1
0	2	1	6	0
2	1	4	1	1
0	4	3	1	1
0	1	3	4	1
0	1	1	6	1
2	1	3	2	1
0	2	2	3	2
0	3	2	3	1
0	1	2	6	0
0	0	1	8	0

Main Area of Concern	Issue No.	Issue	Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	?	NR	X	✓	•		
	3.2.	Decline in populations of commercial fish stocks																
	3.2.1.	Decline in populations of sharks and rays	X	✓	✓	✓	X	X	✓	✓	NR	0	1	3	5	0		
	3.2.2.	Decline in populations of large pelagics	✓	✓	✓	✓	•	✓	✓	✓	✓	0	0	0	8	1		
	3.2.3.	Decline in populations of small pelagics	X	✓	✓	NR	•	NR	✓	✓	✓	0	2	1	5	1		
	3.2.4.	Decline in populations of deep water demersals	NR	?	NR	✓	•	✓	✓	✓	✓	1	2	0	5	1		
	3.2.5.	Decline in populations of reef and demersal fish	X	✓	✓	✓	•	✓	✓	✓	✓	0	0	1	7	1		
	3.3.	Decline in populations of commercial invertebrates																
	3.3.1.	Decline in populations of molluscs (bivalves, gastropods)	X	✓	X	✓	•	NR	NR	•	✓	0	2	2	3	2		
	3.3.2.	Decline in populations of abalone*	NR	NR	NR	NR	NR	NR	NR	NR	✓	0	8	0	1	0		
	3.3.3.	Decline in populations of cephalopods	X	✓	✓	✓	•	X	X	NR	✓	0	1	3	4	1		
	3.3.4.	Decline in populations of sea cucumbers	X	✓	✓	✓	•	✓	X	NR	✓	0	1	2	5	1		
	3.3.5.	Decline in populations of sea urchins*	NR	✓	X	NR	•	NR	NR	NR	NR	0	6	1	1	1		
	3.3.6.	Decline in populations of prawns and shrimp	X	✓	✓	•	✓	NR	✓	✓	✓	0	1	1	6	1		
	3.3.7.	Decline in populations of lobsters	NR	✓	✓	•	•	✓	✓	NR	✓	0	2	0	5	2		
	3.3.8.	Decline in populations of crayfish*	NR	NR	NR	NR	•	NR	X	NR	NR	0	7	1	0	1		
	3.3.9.	Decline in populations of crabs	X	✓	✓	•	•	NR	X	NR	✓	0	2	2	3	2		
	3.4.	Excessive bycatch and discards	X	✓	✓	•	✓	X	✓	✓	✓	0	0	2	6	1		
	3.5.	Expansion of mariculture industry (biosecurity, diseases in wildstocks, exotics, habitat implications, water quality)	X	✓	✓	✓	•	X	X	✓	✓	0	0	3	5	1		

Key	
✓	Yes baseline data available

•	Limited baseline (site specific)
X	No baseline data
?	Don't know
NR	Not relevant

Table A4: Prioritization Level 1: Existence of a monitoring programme related to the issue (* Issue that was subsequently removed from the list during the Regional TDAIII workshop)

Main Area of Concern	Issue No.	Issue	Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania					
MAC01: Water quality degradation	1.1.	Alteration of natural river flow and changes in freshwater input and sediment load	✓	X	X	•	✓	✓	✓	✓	•	?	NR	X	✓	•
	1.2.	Degradation of ground and surface water quality	•	X	X	✓	✓	X	✓	✓	•	0	0	2	5	2
	1.3.	Degradation of coastal and marine water quality										0	0	3	4	2
	1.3.1	Microbiological contamination from land-based (domestic, industrial, agriculture and livestock) and marine (mariculture, shipping) sources	X	X	X	•	•	X	X	•	•	0	0	5	0	4
	1.3.2	Nutrient enrichment from land-based (domestic, industrial, agriculture, livestock) and marine (mariculture) sources	X	X	✓	✓	X	X	X	✓	•	0	0	5	3	1
	1.3.3	Chemical contamination (excluding oil spills) from land-based (domestic, industrial and agricultural) and marine (shipping, dumping at sea) sources	X	X	✓	X	X	X	X	✓	•	0	0	6	2	1
	1.3.4	Suspended solids in coastal waters due to human activities on land and in the coastal zone	•	X	X	X	X	X	X	•	•	0	0	6	0	3
	1.3.5	Solid wastes / marine debris (plastics etc.) from shipping and land-based-sources	•	X	✓	X	X	X	X	•	•	0	0	5	1	3
	1.3.6	Oil spills (drilling, exploitation, transport, processing, storage, shipping).	X	X	✓	X	✓	X	X	X	•	0	0	6	2	1
MAC02: Habitat and community modification	2.1.	Shoreline change, due to modification, land reclamation and coastal erosion	X	✓	X	•	•	✓	X	X	•	0	0	4	2	3
	2.2.	Disturbance, damage and loss of coastal, watershed and upland habitats														
	2.2.1.	Disturbance, damage and loss of upland / watershed habitats (>10 m elevation)	X	X	?	•	✓	NR	?	✓	?	3	1	2	2	1

Main Area of Concern	Issue No.	Issue	Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania
	2.2.2.	Disturbance, damage and loss of coastal forest habitats	X	✓	✓	NR	•	•	?	•	?
	2.2.3.	Disturbance, damage and loss of coastal habitats (beaches, dunes, coastal vegetation and flood plain habitats to 10 m elevation)	X	•	?	X	•	X	X	X	?
	2.2.4.	Disturbance, damage and loss of wetland habitats	X	•	?	X	•	X	X	✓	?
	2.2.5.	Disturbance, damage and loss of estuarine habitats	X	X	?	NR	•	NR	X	✓	?
	2.2.6.	Disturbance, damage and loss of mangrove habitats	X	X	✓	✓	•	✓	X	X	?
	2.3.	Disturbance, damage and loss of subtidal benthic habitats									
	2.3.1.	Disturbance, damage and loss of coral reef habitats	?	✓	✓	✓	•	✓	X	X	✓
	2.3.2.	Disturbance, damage and loss of seagrass habitats	?	•	✓	X	•	X	X	X	✓
	2.3.3.	Disturbance, damage and loss of macroalgal habitats	?	?	?	NR	•	NR	X	X	X
	2.3.4.	Disturbance, damage and loss of soft sediment habitats	NR	X	?	X	✓	X	X	X	X
	2.3.5.	Disturbance, damage and loss of deep water habitats (including sea mounts)	NR	?	?	NR	NR	NR	X	X	X
	2.4.	Disturbance, damage and degradation of pelagic habitats (nearshore <30 m, neritic 30-200m and oceanic >200m depth)	NR	•	✓	✓	X	X	X	X	X
	2.5.	Increase in the occurrence of harmful or toxic algal blooms (HABs)	?	✓	✓	✓	X	NR	X	X	?
	2.6.	Introduction of exotic non-native species, invasives and nuisance species	?	✓	X	✓	X	NR	X	X	?
	MAC03: Declines in living marine resources	3.1.	Decline in populations of focal species								
3.1.1.		Decline in populations of marine mammals	X	✓	X	✓	•	X	X	NR	NR
3.1.2.		Decline in populations of cetaceans	NR	✓	X	✓	•	X	X	NR	NR
3.1.3.		Decline in populations of seabirds	X	?	✓	✓	•	✓	X	✓	NR

?	NR	X	✓	•
2	1	1	2	3
2	0	5	0	2
2	0	4	1	2
2	2	3	1	1
1	0	4	3	1
1	0	2	5	1
1	0	4	2	2
3	2	3	0	1
1	1	6	1	0
2	4	3	0	0
0	1	5	2	1
2	1	3	3	0
2	1	4	2	0
0	2	4	2	1
0	3	3	2	1
1	1	2	4	1

Main Area of Concern	Issue No.	Issue	Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	?	NR	X	✓	•
	3.1.4.	Decline in populations of turtles	✓	✓	✓	?	•	✓	X	✓	•	1	0	1	5	2
	3.2.	Decline in populations of commercial fish stocks														
	3.2.1.	Decline in populations of sharks and rays	X	•	X	✓	X	X	X	✓	NR	0	1	5	2	1
	3.2.2.	Decline in populations of large pelagic	✓	?	✓	✓	•	✓	✓	✓	X	1	0	1	6	1
	3.2.3.	Decline in populations of small pelagic	X	?	✓	NR	•	NR	X	✓	•	1	2	2	2	2
	3.2.4.	Decline in populations of deep water demersals	NR	?	NR	✓	X	✓	X	✓	•	1	2	2	3	1
	3.2.5.	Decline in populations of reef and demersal fish	X	✓	✓	✓	•	✓	X	✓	•	0	0	2	5	2
	3.3.	Decline in populations of commercial invertebrates														
	3.3.1.	Decline in populations of molluscs (bivalves, gastropods)	X	•	X	✓	•	NR	NR	✓	•	0	2	2	2	3
	3.3.2.	Decline in populations of abalone*	NR	NR	NR	NR	NR	NR	NR	✓	NR	0	8	0	1	0
	3.3.3.	Decline in populations of cephalopods	X	?	X	✓	•	X	X	NR	•	1	1	4	1	2
	3.3.4.	Decline in populations of sea cucumbers	X	?	X	✓	X	✓	X	NR	•	1	1	4	2	1
	3.3.5.	Decline in populations of sea urchins*	NR	?	X	NR	X	NR	NR	NR	NR	1	6	2	0	0
	3.3.6.	Decline in populations of prawns and shrimp	X	✓	✓	✓	✓	NR	X	✓	•	0	1	2	5	1
	3.3.7.	Decline in populations of lobsters	NR	•	✓	✓	•	✓	✓	NR	•	0	2	0	4	3
	3.3.8.	Decline in populations of crayfish*	NR	NR	NR	NR	•	NR	X	NR	NR	0	7	1	0	1
	3.3.9.	Decline in populations of crabs	X	•	X	✓	•	NR	X	NR	•	0	2	3	1	3
	3.4.	Excessive bycatch and discards	X	•	✓	✓	✓	X	X	✓	•	0	0	3	4	2
	3.5.	Expansion of mariculture industry (biosecurity, diseases in wildstocks, exotics, habitat implications, water quality)	X	✓	✓	✓	✓	X	X	✓	•	0	0	3	5	1

Key

✓	Yes monitoring programme (operational)
•	Limited monitoring (site specific or periodic)
X	No monitoring programme
?	Don't know
NR	Not relevant

Table A5: Prioritization Level 2: Overall Severity at National Level (* Issue that was subsequently removed from the list during the Regional TDAIII workshop)

Main Area of Concern	Issue No.	Issue	OVERALL SEVERITY										SUMMARY			
			Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	1 to 3	4 to 6	7 to 9	10 to 12	
MAC01	1.1.	Alteration of natural river flow and changes in freshwater input and sediment load	6	9	10	3	10	10	6	11	12	1	2	1	5	
	1.2.	Degradation of ground and surface water quality	3	6	7	3	9	7	9	11	9	2	1	5	1	
	1.3.	Degradation of coastal and marine water quality														
	1.3.1	Microbiological contamination from land-based (domestic, industrial, agriculture and livestock) and marine (mariculture, shipping) sources	6	3	12	3	6	8	9	4	6	2	4	2	1	
	1.3.2	Nutrient enrichment from land-based (domestic, industrial, agriculture, livestock) and marine (mariculture) sources	3	6	5	3	5	9	7	4	6	2	5	2	0	
	1.3.3	Chemical contamination (excluding oil spills) from land-based (domestic, industrial and agricultural) and marine (shipping, dumping at sea) sources	3	4	8	3	3	6	12	3	5	4	3	1	1	
	1.3.4	Suspended solids in coastal waters due to human activities on land and in the coastal zone	3	6	7	3	7	9	4	3	8	3	2	4	0	
	1.3.5	Solid wastes / marine debris (plastics etc.) from shipping and land-based-sources	5	7	6	3	8	10	6	3	8	2	3	3	1	
	1.3.6	Oil spills (drilling, exploitation, transport, processing, storage, shipping).	4	6	9	3	4	12	7	4	4	1	5	2	1	
MAC02	2.1.	Shoreline change, due to modification, land reclamation and coastal erosion	9	9	6	12	12	12	3	5	12	1	2	2	4	
	2.2.	Disturbance, damage and loss of coastal, watershed and upland habitats														
	2.2.1.	Disturbance, damage and loss of upland / watershed habitats (>10 m elevation)	9	12	12	5	12		9	9	9	0	1	4	3	
	2.2.2.	Disturbance, damage and loss of coastal forest habitats	6	10	12			4	8	7	12	0	2	2	3	
	2.2.3.	Disturbance, damage and loss of coastal habitats (beaches, dunes, coastal vegetation and flood plain habitats to 10 m elevation)	11	9	6	10	12	5	5	9	12	0	3	2	4	

Main Area of Concern	Issue No.	Issue	OVERALL SEVERITY									SUMMARY			
			Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	1 to 3	4 to 6	7 to 9	10 to 12
	2.2.4.	Disturbance, damage and loss of wetland habitats		11	8	8	12	4	5	9	9	0	2	4	2
	2.2.5.	Disturbance, damage and loss of estuarine habitats		8	5		8		4	9	8	0	2	4	0
	2.2.6.	Disturbance, damage and loss of mangrove habitats	4	12	12	10	12	5	7	6	12	0	3	1	5
	2.3.	Disturbance, damage and loss of subtidal benthic habitats													
	2.3.1.	Disturbance, damage and loss of coral reef habitats	10	12	7	12	9	12	10	6	12	0	1	2	6
	2.3.2.	Disturbance, damage and loss of seagrass habitats	4	1		6	10	3	7	3	12	3	2	1	2
	2.3.3.	Disturbance, damage and loss of macroalgal habitats	3	3			10		4	6	3	3	2	0	1
	2.3.4.	Disturbance, damage and loss of soft sediment habitats		4	6		10	3	4	9	11	1	3	1	2
	2.3.5.	Disturbance, damage and loss of deep water habitats (including sea mounts)	3	4	8			9	3	5	8	2	2	3	0
	2.4.	Disturbance, damage and degradation of pelagic habitats (nearshore <30 m, neritic 30-200m and oceanic >200m depth)	3	10	7	7	11	9	8	6	11	1	1	4	3
	2.5.	Increase in the occurrence of harmful or toxic algal blooms (HABs)	5	6	6	7	4		3	4	5	1	6	1	0
	2.6.	Introduction of exotic non-native species, invasives and nuisance species	3	6	3	8	10		3	7	7	3	1	3	1
	MAC03	3.1.	Decline in populations of focal species												
3.1.1.		Decline in populations of marine mammals	7	7	5	4	10	3	5			1	3	2	1
3.1.2.		Decline in populations of cetaceans		5	8	9	7	7	2			1	1	4	0
3.1.3.		Decline in populations of seabirds	7	4		7	7	9	2	7		1	1	5	0
3.1.4.		Decline in populations of turtles	12	8	10	8	10	8	8	7	5	0	1	5	3
3.2.		Decline in populations of commercial fish stocks													
3.2.1.	Decline in populations of sharks and rays	11	7	10	10	11	10	12	7		0	0	2	6	

Main Area of Concern	Issue No.	Issue	OVERALL SEVERITY								
			Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania
	3.2.2.	Decline in populations of large pelagics	11	6		11	8	11	12	5	
	3.2.3.	Decline in populations of small pelagics	9	9			9		9	7	8
	3.2.4.	Decline in populations of deep water demersals		3		12	3	8	3	7	7
	3.2.5.	Decline in populations of reef and demersal fish	10	12		12	11	11	10	7	9
	3.3.	Decline in populations of commercial invertebrates									
	3.3.1.	Decline in populations of molluscs (bivalves, gastropods)	8	7		9	8			6	3
	3.3.2.	Decline in populations of abalone*								6	
	3.3.3.	Decline in populations of cephalopods	10	11		8	9	5	3		10
	3.3.4.	Decline in populations of sea cucumbers	11	11		8	11	11	3		7
	3.3.5.	Decline in populations of sea urchins*		9			4				
	3.3.6.	Decline in populations of prawns and shrimp	9	11	11	11	12		7	5	10
	3.3.7.	Decline in populations of lobsters		10		9	7	5	11		3
	3.3.8.	Decline in populations of crayfish*					3		11		
	3.3.9.	Decline in populations of crabs	7	7		7	7		4		3
	3.4.	Excessive bycatch and discards	9	11		10	9	9	10	6	7
	3.5.	Expansion of mariculture industry (biosecurity, diseases in wildstocks, exotics, habitat implications, water quality)	9	10		12	12	10		4	

SUMMARY			
1 to 3	4 to 6	7 to 9	10 to 12
0	2	1	4
0	0	6	0
3	0	3	1
0	0	2	6
1	1	4	0
0	1	0	0
1	1	2	3
1	0	2	4
0	1	1	0
0	1	2	5
1	1	2	2
1	0	0	1
1	1	4	0
0	1	4	3
0	1	1	4

Table A1: Prioritization Level 2: Overall Scope (* Issue that was subsequently removed from the list during the Regional TDAll workshop)

Main Area of Concern	Issue No.	Issue	OVERALL SCOPE								SUMMARY				
			Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	1 to 3	4 to 6	7 to 9	10 to 12
MAC01	1.1.	Alteration of natural river flow and changes in freshwater input and sediment load	9	8	5	10	9	8	6	8	8	0	2	6	1
	1.2.	Degradation of ground and surface water quality	9	6	12	10	6	9	5	8	9	0	3	4	2
	1.3.	Degradation of coastal and marine water quality													
	1.3.1	Microbiological contamination from land-based (domestic, industrial, agriculture and livestock) and marine (mariculture, shipping) sources	10	7	12	11	9	6	7	6	9	0	2	4	3
	1.3.2	Nutrient enrichment from land-based (domestic, industrial, agriculture, livestock) and marine (mariculture) sources	8	9	10	8	7	8	8	6	6	0	2	6	1
	1.3.3	Chemical contamination (excluding oil spills) from land-based (domestic, industrial and agricultural) and marine (shipping, dumping at sea) sources	9	7	10	9	9	9	5	4	6	0	3	5	1
	1.3.4	Suspended solids in coastal waters due to human activities on land and in the coastal zone	8	7	10	9	8	8	6	5	9	0	2	6	1
	1.3.5	Solid wastes / marine debris (plastics etc.) from shipping and land-based-sources	10	11	10	11	9	9	10	7	10	0	0	3	6
	1.3.6	Oil spills (drilling, exploitation, transport, processing, storage, shipping).	11	6	11	9	4	10	10	5	8	0	3	2	4
MAC02	2.1.	Shoreline change, due to modification, land reclamation and coastal erosion	8	9	6	10	10	12	10	9	10	0	1	3	5
	2.2.	Disturbance, damage and loss of coastal, watershed and upland habitats													
	2.2.1.	Disturbance, damage and loss of upland / watershed habitats (>10 m elevation)	8	12	6	7	9		8	9	9	0	1	6	1
	2.2.2.	Disturbance, damage and loss of coastal forest habitats	7	9	9			3	8	11	9	1	0	5	1
	2.2.3.	Disturbance, damage and loss of coastal habitats (beaches, dunes, coastal vegetation and flood plain habitats to 10 m elevation)	6	10	5	9	11	6	8	10	11	0	3	2	4

Main Area of Concern	Issue No.	Issue	OVERALL SCOPE									SUMMARY				
			Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	1 to 3	4 to 6	7 to 9	10 to 12	
	2.2.4.	Disturbance, damage and loss of wetland habitats		10	6	8	7	8	8	10	9	0	1	5	2	
	2.2.5.	Disturbance, damage and loss of estuarine habitats		5	5		9		6	10	8	0	3	2	1	
	2.2.6.	Disturbance, damage and loss of mangrove habitats	6	10	12	10	11	12	9	11	12	0	1	1	7	
	2.3.	Disturbance, damage and loss of subtidal benthic habitats														
	2.3.1.	Disturbance, damage and loss of coral reef habitats	10	10	12	9	8	12	9	10	11	0	0	3	6	
	2.3.2.	Disturbance, damage and loss of seagrass habitats	6	1	12	6	10	7	8	10	9	1	2	3	3	
	2.3.3.	Disturbance, damage and loss of macroalgal habitats	3	3			10		4	10	5	2	2	0	2	
	2.3.4.	Disturbance, damage and loss of soft sediment habitats		4	3	6	10	5	7	10	9	1	3	2	2	
	2.3.5.	Disturbance, damage and loss of deep water habitats (including sea mounts)		4	8			5	6	7	9	0	3	3	0	
	2.4.	Disturbance, damage and degradation of pelagic habitats (nearshore <30 m, neritic 30-200m and oceanic >200m depth)		6	12	10	9	9	8	6	10	0	2	3	3	
	2.5.	Increase in the occurrence of harmful or toxic algal blooms (HABs)	3	9	4	8	11		4	7	8	1	2	4	1	
	2.6.	Introduction of exotic non-native species, invasives and nuisance species	4	10	12	10	10		6	7	9	0	2	2	4	
MAC03	3.1.	Decline in populations of focal species														
	3.1.1.	Decline in populations of marine mammals	11	9	6	11	11	8	8			0	1	3	3	
	3.1.2.	Decline in populations of cetaceans		8	8	11	10	10	8			0	0	3	3	
	3.1.3.	Decline in populations of seabirds	11	6		10	10	7	6	5		0	3	1	3	
	3.1.4.	Decline in populations of turtles	12	8	9	11	12	9	8	8	7	0	0	6	3	
	3.2.	Decline in populations of commercial fish stocks														
	3.2.1.	Decline in populations of sharks and rays	11	8	4	11	10	11	10	9		0	1	2	5	
	3.2.2.	Decline in populations of large pelagics	12	9		12	11	10	10	10		0	0	1	6	

Main Area of Concern	Issue No.	Issue	OVERALL SCOPE									SUMMARY			
			Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	1 to 3	4 to 6	7 to 9	10 to 12
	3.2.3.	Decline in populations of small pelagics	11	7			9		8	7	10	0	0	4	2
	3.2.4.	Decline in populations of deep water demersals		3		12	8	7	6	7	7	1	1	4	1
	3.2.5.	Decline in populations of reef and demersal fish	7	9		12	10	6	10	8	9	0	1	4	3
	3.3.	Decline in populations of commercial invertebrates													
	3.3.1.	Decline in populations of molluscs (bivalves, gastropods)	6	8		12	6			8	4	0	3	2	1
	3.3.2.	Decline in populations of abalone*								5		0	1	0	0
	3.3.3.	Decline in populations of cephalopods	5	8		9	8	5	9		9	0	2	5	0
	3.3.4.	Decline in populations of sea cucumbers	6	8		8	9	5	8		9	0	2	5	0
	3.3.5.	Decline in populations of sea urchins*		5			7					0	1	1	0
	3.3.6.	Decline in populations of prawns and shrimp	7	9	6	10	12		8	8	9	0	1	5	2
	3.3.7.	Decline in populations of lobsters		8		11	9	5	8		4	0	2	3	1
	3.3.8.	Decline in populations of crayfish*					6		6			0	2	0	0
	3.3.9.	Decline in populations of crabs	7	5		6	6		7		3	1	3	2	0
	3.4.	Excessive bycatch and discards	8	8		11	10	10	11	8	9	0	0	4	4
	3.5.	Expansion of mariculture industry (biosecurity, diseases in wildstocks, exotics, habitat implications, water quality)	8	9		10	11	6		7		0	1	3	2

Table A7: Prioritization Level 2: Overall Rating (* Issue that was subsequently removed from the list during the Regional TDAIII workshop)

Main Area of Concern	Issue No.	Issue	OVERALL RATING										SUMMARY	
			Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	No. above average	% above average	
MAC01	1.1.	Alteration of natural river flow and changes in freshwater input and sediment load	15	17	15	13	19	18	12	19	20	7	77.8	
	1.2.	Degradation of ground and surface water quality	12	12	19	13	15	16	14	19	18	5	55.6	
	1.3.	Degradation of coastal and marine water quality												
	1.3.1	Microbiological contamination from land-based (domestic, industrial, agriculture and livestock) and marine (mariculture, shipping) sources	16	10	24	14	15	14	16	10	15	5	55.6	
	1.3.2	Nutrient enrichment from land-based (domestic, industrial, agriculture, livestock) and marine (mariculture) sources	11	15	15	11	12	17	15	10	12	2	22.2	
	1.3.3	Chemical contamination (excluding oil spills) from land-based (domestic, industrial and agricultural) and marine (shipping, dumping at sea) sources	12	11	18	12	12	15	17	7	11	1	11.1	
	1.3.4	Suspended solids in coastal waters due to human activities on land and in the coastal zone	11	13	17	12	15	17	10	8	17	2	22.2	
	1.3.5	Solid wastes / marine debris (plastics etc.) from shipping and land-based-sources	15	18	16	14	17	19	16	10	18	7	77.8	
	1.3.6	Oil spills (drilling, exploitation, transport, processing, storage, shipping).	15	12	20	12	8	22	17	9	12	4	44.4	
MAC02	2.1.	Shoreline change, due to modification, land reclamation and coastal erosion	17	18	12	22	22	24	13	14	22	7	77.8	
	2.2.	Disturbance, damage and loss of coastal, watershed and upland habitats												
	2.2.1.	Disturbance, damage and loss of upland / watershed habitats (>10 m elevation)	17	24	18	12	21		17	18	18	6	75.0	
	2.2.2.	Disturbance, damage and loss of coastal forest habitats	13	19	21			7	16	18	21	6	85.7	
	2.2.3.	Disturbance, damage and loss of coastal habitats (beaches, dunes, coastal vegetation and flood plain habitats to 10 m elevation)	17	19	11	19	23	11	13	19	23	7	77.8	
	2.2.4.	Disturbance, damage and loss of wetland habitats		21	14	16	19	12	13	19	18	3	37.5	
	2.2.5.	Disturbance, damage and loss of estuarine habitats		13	10		17		10	19	16	1	16.7	

Main Area of Concern	Issue No.	Issue	OVERALL RATING										SUMMARY	
			Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	No. above average	% above average	
	2.2.6.	Disturbance, damage and loss of mangrove habitats	10	22	24	20	23	17	16	17	24	8	88.9	
	2.3.	Disturbance, damage and loss of subtidal benthic habitats												
	2.3.1.	Disturbance, damage and loss of coral reef habitats	20	22	19	21	17	24	19	16	23	8	88.9	
	2.3.2.	Disturbance, damage and loss of seagrass habitats	10	2	12	12	20	10	15	13	21	3	33.3	
	2.3.3.	Disturbance, damage and loss of macroalgal habitats	6	6			20		8	16	8	2	33.3	
	2.3.4.	Disturbance, damage and loss of soft sediment habitats		8	9	6	20	8	11	19	20	3	37.5	
	2.3.5.	Disturbance, damage and loss of deep water habitats (including sea mounts)	3	8	16			14	9	12	17	1	14.3	
	2.4.	Disturbance, damage and degradation of pelagic habitats (nearshore <30 m, neritic 30-200m and oceanic >200m depth)	3	16	19	17	20	18	16	12	21	7	77.8	
	2.5.	Increase in the occurrence of harmful or toxic algal blooms (HABs)	8	15	10	15	15		7	11	13	0	0.0	
2.6.	Introduction of exotic non-native species, invasives and nuisance species	7	16	15	18	20		9	14	16	3	25.0		
MAC03	3.1.	Decline in populations of focal species												
	3.1.1.	Decline in populations of marine mammals	18	16	11	15	21	11	13			2	28.6	
	3.1.2.	Decline in populations of cetaceans		13	16	20	17	17	10			3	50.0	
	3.1.3.	Decline in populations of seabirds	18	10		17	17	16	8	12		1	14.3	
	3.1.4.	Decline in populations of turtles	24	16	19	19	22	17	16	15	12	6	66.7	
	3.2.	Decline in populations of commercial fish stocks												
	3.2.1.	Decline in populations of sharks and rays	22	15	14	21	21	21	22	16		7	87.5	
	3.2.2.	Decline in populations of large pelagics	23	15		23	19	21	22	15		6	85.7	
	3.2.3.	Decline in populations of small pelagics	20	16			18		17	14	18	5	83.3	
	3.2.4.	Decline in populations of deep water demersals				24	11	15	9	14	14	3	50.0	
3.2.5.	Decline in populations of reef and demersal fish	17	21		24	21	17	20	15	18	7	87.5		

Main Area of Concern	Issue No.	Issue	OVERALL RATING									SUMMARY		
			Comoros	Kenya	Madagascar	Mauritius	Mozambique	Seychelles	Somalia	South Africa	Tanzania	No. above average	% above average	
	3.3.	Decline in populations of commercial invertebrates												
	3.3.1.	Decline in populations of molluscs (bivalves, gastropods)	14	15		21	14				14	7	2	33.3
	3.3.2.	Decline in populations of abalone*									11		0	0.0
	3.3.3.	Decline in populations of cephalopods	15	19		17	17	10	12			19	2	28.5
	3.3.4.	Decline in populations of sea cucumbers	17	19		16	20	16	11			16	4	57.1
	3.3.5.	Decline in populations of sea urchins*		14			11						0	0.0
	3.3.6.	Decline in populations of prawns and shrimp	16	20	17	21	24		15	13		19	5	62.5
	3.3.7.	Decline in populations of lobsters		18		20	16	10	19			7	3	50.0
	3.3.8.	Decline in populations of crayfish*					9		17				1	50.0
	3.3.9.	Decline in populations of crabs	14	12		13	13		11			6	0	0.0
	3.4.	Excessive bycatch and discards	17	19		21	19	19	21	14		16	7	87.5
3.5.	Expansion of mariculture industry (biosecurity, diseases in wildstocks, exotics, habitat implications, water quality)	17	19		22	23	16			11		4	66.7	