

#### Annex 4: Draft Indicators Matrix

Category of Indicator	Possible regional Seas Coordinated Indicator	SDG 14 (plus SDG 1 SDG 2 others)	TWAP indicators <sup>1</sup>	Desirability in RS
Total inputs of nitrogen and phosphorus from agriculture, sewage and atmospheric nitrogen	<b>Chlorophyll a concentration</b> as an indicator of phytoplankton biomass	14.1	Chlorophyll time series; <b>DIN, DIP</b> (modelled data) ( <b>both concentration and flux</b> )	Med / BS/ NOWPAP/ ROPME / SACEP / HELCOM / Nairobi
Inputs of marine chemical pollution Trends for selected priority chemicals	Trends for selected <b>priority chemicals including POPs and heavy metals</b>	14.1	POPS (Persistent Organic Pollutants) status	NOWPAP /Nairobi / BS/ CPPS
Overall levels of marine litter Quantification of beach litter items	Quantification <b>and classification</b> of <b>beach litter</b> items	14.1	Marine Plastic Litter	NOPAP /HELCOM/ PERSGA /Nairobi
Ocean warming	Annual mean <b>sea surface temperature</b> (25m below the surface)	14.2	Sea Surface Temperature (SST)	Agreed
Fish landings	Fish catches within EEZs (tonnes) – total capture production	14.4	Fish landings and Landed Value, Fishing effort, Fish stock status, Primary Production required, Marine Trophic Index, Fishing in Balance Index	FAO to provide inputs
Aquaculture	Application of risk assessment to account for pollution and biodiversity impacts	14.4		FAO to provide inputs
Aquaculture	Destruction of habitat due to aquaculture			FAO to provide inputs
Population pressure / urbanization	<b>Length of coastal modification and km<sup>2</sup> of coastal reclamation</b>	14.2	Rural/ Urban population, %poor,	ROPME / MAP / NOWPAP/ SACEP
Eutrophication status	<b>Locations and frequency of algal blooms reported</b>	14.1	Index of coastal eutrophication	agreed
Pollution hot spots <sup>2</sup>	1) Concentration of Status of	14.1	Floating plastic debris	agreed

<sup>1</sup> A detailed table is presented below.

Category of Indicator	Possible regional Seas Coordinated Indicator	SDG 14 (plus SDG 1 SDG 2 others)	TWAP indicators <sup>1</sup>	Desirability in RS
	selected <b>pollutant</b> contamination in biota and sediments and temporal trends  2) Number of hotspots			
Ocean acidification	1) Aragonite saturation 2) pH 3) Alkalinity	14.3	Pteropods at risk:	ROPME (pH)
Level of exploitation of commercial fisheries	FAO stock status: % stocks overfished compared to MSY	14.4	Catch Stock Status, Marine Trophic Index, Fishing in Balance Index	FAO to provide inputs
Species replacement as a consequence of capture fisheries	Marine trophic index	14.5	Marine Trophic Index	FAO to provide inputs
Endangered species	Distribution of Red List Index species	14.5		NOWPAP
Loss of critical habitat	Trends in critical habitat extent and condition	14.5	Mangrove status; Reefs at Risk Index; seagrass; salt marshes	NOWPAP / CPPS
National Action Plans to reduce input from LBS	% National action plans ratified / operational	14.1	Transboundary Legal Instruments	agreed
Waste water treatment facilities	1) % coastal urban population connected to sewage facilities  2) % of waste water facilities complying with adequate standards  3) % of untreated waste water	14.1	NA	agreed
Incentive to reduce marine litter at source	1) % port waste reception facilities available	14.1	NA	agreed

<sup>2</sup> Actual pollution hotspot and source of hotspot

Category of Indicator	Possible regional Seas Coordinated Indicator	SDG 14 (plus SDG 1 SDG 2 others)	TWAP indicators <sup>1</sup>	Desirability in RS
	2) Incentives to reduce land based sources <sup>3</sup> 3) Amount of recycled waste on land (%)			
Climate change adaptation	1) % national adaptation plans in place 2) Sector based national adaptation plans 3) Number of existing national and local coastal and marine plans incorporating climate change adaptation	14.2	Transboundary Legal Instruments	agreed
Fish harvested within safe ecological limits	Fisheries measures in place (by-catch limits, area-based closures, recovery plans, capacity reduction measures) and multilateral/bilateral fisheries management arrangements	14.4	Catch Stock Status, Marine Trophic Index, Fishing in Balance Index; Fishery Production Potential of LMEs	FAO to provide inputs
Critical marine habitat under protection	% Marine protected areas designated	14.5	Change in Protected Area Coverage	agreed
National ICZM in place	National ICZM guidelines and enabling legislation adopted	14.2		agreed

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<sup>3</sup> In monetary terms