Problems identified in					Ideal Management Actio	on		Analysis of Planned &		Feas	sible Management Actio	ns by 2020	Technical	
CCA	"Problem Issue"	Regional target (2020)	General action	Technical	Institutional	Legislative	Technical	n-going Management Actinutional	Legislative	Technical	Institutional	Legislative	Fefasibility	Remark
Contaminants and their effects (1)	land based sources	alimentarius/ Stockholm	Action 1.1 Monitoring and assessment	regular monitoring of all pollutant sources		develop new regulation and strict enforcement		sources and sharing o	national/regional review f of pollution-related	continue monitoring programmes nationally,	[set up a mechanism for] agreements and	mandatory review of environmental quality		
		Convention / MARPOL			sharing of monitoring data among all agencies	based on existing laws or newly developed standards in each country	scattered among responsible agencies	information not well co ordinated	conventions (reg'l GA)	implement regional monitoring programme	methodology to share data	standards every 5 years		
	non-point sources			identification and annual review of "hot spots" (sources and sinks)	regional forum for integrated review on hot spots		"hot spot" of river discharge identified in Poll. Regional Synthesis	3		regional forum every 5years , majoring monitoring technology, parameters, assessment on status	improve national co- ordination of contaminant control through regular IMCC meetings [in the	harmonise existing regulation		
										and trends, main problems, etc. with the monitoring centers and organisations.	Regional forum?]			
	atmospheric			[develop regional	establish coordination	harmonize regional	[water, sediment,		National legislation exist			harmonise existing		
	sources			guidance or guidelines for water, sediment, organism quality assessment .	mechanism for the management of contaminants	standards or guidelines/guidances	organism quality assessment ??? Exist at national levels, but may differ from country to country. No reg'l agreed methods.		but not harmonized	using agreed quality assessment criteria		guidances/guidelines		
			Action 1.2 Control of	install		strict regulation	control with existing		national control	regional monitoring and		harmonize [better to use		
			contaminants discharge	facilities/equipment to control or reduce			standards		standards exist	assessment of contaminant sources		"improve"???]exsiting standards (improve		
				industrial discharge						and fate		existing standards, and harmonize with regional/int'l stds)		
				reduce automobile emission		strict regulations	control with existing standards		standards and regulations exist	[monitoring and asses	sment ???] as above	harmonize [better to use "improve"???]exsiting standards ??? as above		
Nitrogen enrichment and	point sources	Control of total loading to					China: marine	Need improvement of	National legislation exist		Enhance national co-	harmonise existing		
Marine Litter		meet reference point (China will reduce total N loading from point sources 10%	loading	input sources and loads	operate with each other and have regular discussions	meet the target	environmental monitoring program, environmentalmonitoring	national co-ordination [mechanism]	Need harmonisation [delete need harmonisation] but	exchange	ordination [mechanism]	regulation among relevant national regulatory bodies		
		every 5 years) what is the baseline to start the reduction?-input in 2005			miscussions [ministerial level cooperative mechanism to have regular discussions]		program	7	legislation is disjointed, or different agencies responsible for similar issues					
	non-point sources						Korea :marine environmental monitoring program,							
	atmospheric							f no data and information		expand research on	provide additional	annual review that target will		
	deposition			environmental capacity	regional working	need for 2 total quantity	N transfer from atmosphere to YS	exchange mechanism	requirement from law	atmospheric deposition	funding to expand atmospheric input research [delete this item] why delete? Regional forum	be met for each current 5 yr period putting [total quantity		
				to absorb nutrients	group (need for group to do what? Is this group different from regional forum?)		environmental capacity of YS (to absorb nutrients?)		and regulation [clarify the meaning]		ixegional forum	control regulation?] in national planning system		
				increase treatment ability to reduce discharge	annual IMCC meetings and in planning	legalise annual check fo targets being met	China: national plan to reduce N 10% in 5	no regular IMCC discussions	China: regulation and plans for control of	Review the current waste treatment	regular IMCC discussion or regular inter-provincia	[improve laws and a regulations] on clean		
				according to calculation	system[not clear]		years plan, Korea has strict regulation to control N discharge [China: may reduce N by 10% in 5 years plan; Korea, may		discharge, Korea has strict regulation to control N discharge	facilities; provide recommendation for facility's future development every 5 years, promoting clean production and recycling use, improving treatmen	discussion	production, recycling use, etc.		
							reduce N by more than 5% in 5 years]			system and capacity, new treatment plant construction				
				Control of fertilizer use		[enact law or regulations] to encourage eco-agriculture				monitoring and assessment, technical recommendations to do what?, eco-agriculture demonstration		[set up guidelines or enact law/regulations to] encourage eco-agriculture		
				reduce emission from automobiles	[mechanism for] data sharing and planning with relevant agencies	implement total-quantity control regulation	monitoring programmes only at national level and scattered among responsible agencies	discussion from ocean	scattered in law and regulation what is scattered? The law itself?	monitoring and assessment, technical recommendations to do what?	or regular inter-provincia	n regulation for] total- a quantity-control planning and regulation: delete]		many of these actions are applicable to Line #9
				reduce current concentrations in sea water	[share: delete] monitoring data exchange mechansim	initiate environmental- target-control regulation		no sharing mechanism d	scattered in law and regulation what is scattered? The law itself?	monitoring and assessment		establish environmental- al targets-control regulation		
	-		Action 2.2 New approach	huse existing or construct		legislation for utilization	[coastal wetlands lost		Korea - no further	engineering in suitable	regular IMCC discussion	regulation for what?		
			for treatment of nutrients	additional wetlands to serve as nutrient sink for watersheds	discussion	of wetland	due to land reclamation, demo engineering: delete] why delete?	mechanism among marine, wetland, wastewater treatment agencies	coastal land reclamation allowed	site what kind of engineering?, monitoring and assessment of the wetland protection or use of wetland as nutrient sink?	or regular inter-provincia discussion	a		
	N:Si ratio - decrease N, increase Si	3.Improve FW seasonal fluxes	Action 3.1 Adaptively adapt to? Adjust FW according to? increasing Si concentrations	adaptively adjust FW fluxes to the YS	cooperative [mechanism among agencies for] planning flux schedules, levels	agreed regional regulations on adjusting FW fluxes	from rivers	no IMCC discussion	no laws and regulations			n implement regulations or acts related to meet target		
			Action 3.2 Monitoring and assessment on N:P:Si ratios	regional monitoring and assessment	[mechanism for] data and information sharing	agreed regional monitoring guidelines	national monitoring system	no integrated monitoring [mechanism?] from different sources eg atmosperic,	no regional guidelines/guidance	implement regional monitoring program with agreed regional guidelines	regular IMCC discussion or regular inter- provincial discussion	guidelines/guidance(is this		
			Action 4.1 Waste reduction	Implement technologies for waste reduction, re- use, recovery, and disposal	more govt support for recycling enterprises	Compliance with waste management laws and regulations	Continuous execution of ocean waste collection project	watershed,etc. f implement industry policy and encourage and facilitate adequate funding for control of solid pollutants, including		implement national/regional monitoring programme	continue env. awareness and education programmes [move to technical ??]	more regular and stricter enforcement of marine litter laws		
	L			<u>L</u>				litter in rivers	<u> </u>		commune (1)			
	land based sources	Reduced standing stock of litter from current level (Increase public awareness; periodic clean ups)		develop regional indicators and monitoring programme	Regional Forum	Clear national & regiona guidelines on marine litter	monitoring programmes only at national level	devise mechanism for combining region-wide with nation-wide monitoring program		regional/national monitoring program	more govt support for recycling enterprises [delete??? Or to be moved to technical]	Development of national/regional guidelines on integrated management of marine litter with coastal management plan		
	sea based sources		Action 4.2 Marine litter cleaning	cleaning and treatment (please clarify)	operational mechanism (please clarify)	need to implement regulations and acts	youth awareness programs (e.g. beach cleanup, envt'l education) taking place in demo many	demostration [mechanism????]	some regulations scattered in law and regulation	cleaning and treating (please clarify)	data and information exchange at regional/national/local levels	[need to have ????] regulations and acts		
				Need more environmental	national programs [delete]	need to implement regulations and acts	sites scattered in different fields and sites What is	expand env. awareness and	scattered in law and regulation	[[prepare national plannings to implement	national planning [incorporate into the	improve regulations and acts related to awareness		
				awareness and education programs See Contaminants and			scattered?	education programmes exist [delete] (move to technical?)	<u> </u>	different programs???]	left Technical] plans for cleaning beach and publicity	and education]		
	Contomicant	hathing book	Reduced to series"	their effects (1), but based on national standards (goes in box below?)										
Cultural	their effects (2)	bathing beach areas	Reduced to nationally acceptable levels											
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