

## IV. PROTECTING AND MANAGING THE NATURAL RESOURCE BASE OF ECONOMIC AND SOCIAL DEVELOPMENT

### Coastal area management

Action items in the Plan of Implementation (A/CONF.199/20, Resolution 2)		Relevant space applications	Space-related initiatives and programmes that could support the implementation of the action		Web-site(s) for further information
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	
30(b)	Promote the implementation of chapter 17 of Agenda 21, which provides the programme of action for achieving the sustainable development of oceans, coastal areas and seas through its programme areas of integrated management and sustainable development of coastal areas, including exclusive economic zones	RS and GIS for integrated management of coastal areas and marine resources	Ministry for Regional Planning and the Environment (Algeria)	Mapping of development indicators by remote sensing. Blue Plan	
			CLS, IRD, Thales, SODENA, Ministry of Research and New Technologies (France)	Integrated fish stock resource management aid service (SEAGERH)	
			CLS (France)	Argos beacon applications	
			ASI	COSMO-SkyMed Programme for monitoring and managing coastlines and marine and inland waters, including ice monitoring. The Programme is to start operating in 2007 and reach full capacity in 2008.	
			SUPARCO, Forest Deptt. Govt. of Pakistan	SRS applications Program for oceanographic studies including development of coastal areas, etc.	
			ESCAP	Regional Space Applications Programme for Sustainable Development in Asia and the Pacific (RESAP)	<a href="http://www.unescap.org/icstd/SPACE/resap/resap_main.asp">http://www.unescap.org/icstd/SPACE/resap/resap_main.asp</a>
			WMO	World Weather Watch Programme	<a href="http://www.wmo.ch/web/www/www.html">http://www.wmo.ch/web/www/www.html</a>

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		RS and GIS information as decision making tools for policy makers and managers; development of forecasting and management models; training and research as a key to poverty alleviation	UNESCO	IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	<a href="http://ioc.unesco.org/goos/africa/ROOFS-AFRICA.htm">http://ioc.unesco.org/goos/africa/ROOFS-AFRICA.htm</a>
30(e)	Promote integrated, multidisciplinary and multisectoral coastal and ocean management at the national level and encourage and assist coastal States in developing ocean policies and mechanisms on integrated coastal management	RS and GIS for integrated coastal management	BRGM, BRLI, CNES, CIRAD, Ifremer, SCOT, Ministry of Research and New Technologies (France)	AGIL project for integrated coastal management. Development of services	
			ASI	COSMO-SkyMed Programme for monitoring and managing coastlines and marine and inland waters, including ice monitoring. The Programme is to start operating in 2007 and reach full capacity in 2008.	
			SUPARCO, NGOs, Forest Deptt. Govt. of Pakistan.	Use of SRS data and GIS for monitoring and managing coastal resources	
			ESCAP	Regional Space Application Programme for Sustainable Development in Asia and the Pacific (RESAP)	<a href="http://www.unescap.org/icstd/SPACE/resap/resap_main.asp">http://www.unescap.org/icstd/SPACE/resap/resap_main.asp</a>

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		RS and GIS information as decision making tools for policy makers and managers; development of forecasting and management models; training and research as a key to poverty alleviation	UNESCO	IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	<a href="http://ioc.unesco.org/goos/africa/ROOFS-AFRICA.htm">http://ioc.unesco.org/goos/africa/ROOFS-AFRICA.htm</a>
31(d)	Urgently develop and implement national and, where appropriate, regional plans of action, to put into effect the international plans of action of the Food and Agriculture Organization of the United Nations, in particular the International Plan of Action for the Management of Fishing Capacity <sup>1</sup> by 2005 and the	RS and GIS information as decision making tools for policy makers and managers; development of forecasting and management models; training	SPOT Image, IRD, Ifremer, Ministry of Research and New Technologies (France)	IBIS for tracking of vessels	
			ESA/EU	Galileo and satellite navigation applications	
			CLS	Data collection with Argos beacons	
			ASI	COSMO-SkyMed Programme for monitoring and managing coastlines and marine and inland waters, including ice monitoring. The Programme is to start operating in 2007 and reach full capacity in 2008.	

<sup>1</sup> Rome, Food and Agriculture Organization of the United Nations, 1999.

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	International Plan of Action to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing by 2004. Establish effective monitoring, reporting and enforcement, and control of fishing vessels, including by flag States, to further the International Plan of Action to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing	and research as a key to poverty alleviation	UNESCO	IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	<a href="http://ioc.unesco.org/goos/africa/ROOFS-AFRICA.htm">http://ioc.unesco.org/goos/africa/ROOFS-AFRICA.htm</a>
35	Governments, taking into account their national circumstances, are encouraged, recalling paragraph 8 of resolution GC (44)/RES/17 of the General Conference of the International Atomic Energy Agency, and taking into account the very	Work of the Scientific and Technical Subcommittee of COPUOS in the use of nuclear sources in outer space	ASI	COSMO-SkyMed Programme for monitoring and managing coastlines and marine and inland waters, including ice monitoring. The programme can also be used for intelligence applications for strategic purposes. The Programme is to start operating in 2007 and reach full capacity in 2008.	

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	serious potential for environment and human health impacts of radioactive wastes, to make efforts to examine and further improve measures and internationally agreed regulations regarding safety, while stressing the importance of having effective liability mechanisms in place, relevant to international maritime transportation and other transboundary movement of radioactive material, radioactive waste and spent fuel, including, inter alia, arrangements for prior notification and consultations done in accordance with relevant international instruments		ESA and Geoville (Austria)	Technical study analyzing the progress in EO from Rio Earth Conference to the WSSD in Johannesburg.	
36.	World Summit on Sustainable Development – Plan of Implementation – specific references to Earth Observation	Study on Earth Observation Applications for Sustainable Development	ESA and Geoville (Austria)	Project in support for the Water Framework Directive and the Soil Protection Initiative	
			ASI	COSMO-SkyMed Programme for scientific applications. The Programme is to start operating in 2007 and reach full capacity in 2008.	
36(a)	Increase scientific and technical collaboration, including integrated assessment at the global and regional levels, including the appropriate transfer of marine science and marine technologies and techniques for the conservation and management of living and non-living marine resources and expanding ocean-	RS to monitor ocean	CNES - NASA	TOPEX-Poseidon for altimetric measurements (ocean circulation, etc.)	
				Jason-1 for global altimetric measurements of the oceans, following TOPEX-Poseidon. General meteorology and climate understanding.	
			CNES – MétéoFrance - IRD - SHOM	MERCATOR for ocean simulation on the basis of satellite observation; climate forecasting	

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	observing capabilities for the timely prediction and assessment of the state of marine environment		CNES-ESA-CDPI (France)	Surface Meteorological Observation System (SMOS) for global observation of land surface humidity and ocean salinity; climate forecasting	
			CNES – CNRS – IRD – IPEV – Ifremer – MétéoFrance - SHOM	France's participation in the Global Ocean Observing System (GOOS) using CORIOLIS and MERCATOR	
			ASI	COSMO-SkyMed Programme for monitoring and managing coastlines and marine and inland waters, including ice monitoring. The Programme can also be used for ecological monitoring. The Programme is to start operating in 2007 and reach full capacity in 2008.	
			ESCAP	Regional Space Application Programme for Sustainable Development in Asia and the Pacific (RESAP)	<a href="http://www.unescap.org/icstd/SPACE/resap/resap_main.asp">http://www.unescap.org/icstd/SPACE/resap/resap_main.asp</a>
			WMO	Applications of Meteorology Programme	<a href="http://www.wmo.ch/web/aom/aom.html">http://www.wmo.ch/web/aom/aom.html</a>
			UNESCO	IOC's Global Ocean Observing System (GOOS) Regional Alliances	<a href="http://ioc.unesco.org/iocweb/index.php">http://ioc.unesco.org/iocweb/index.php</a>
			UNESCO, WMO, UNEP	Intergovernmental Oceanographic Commission's (IOC) Global Ocean Observing System (GOOS) Regional Alliances including those for Africa, Black Sea, Mediterranean, Caribbean, Indian Ocean, Pacific Islands, North-East and South-East Asia, South-East Pacific	
36(c)	Build capacity in marine science, information and management, through, inter alia, promoting the use of environmental impact assessments and environmental evaluation and	RS for marine management	Thales, SODENA, IRD, CLS, Ministry of Research and New Technologies (France)	SEAGERH project	
			CLS	Data collection using Argos beacons	

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	reporting techniques, for projects or activities that are potentially harmful to the coastal and marine environments and their living and non-living resources		BRGM – BRLI – CNES – CIRAD – Ifremer - SCOT (France)	AGIL project for integrated coastal management	
			ASI	COSMO-SkyMed Programme for monitoring and managing coastlines and marine and inland waters, including ice monitoring. The Programme can also be used for scientific applications. The Programme is to start operating in 2007 and reach full capacity in 2008.	
			ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	<a href="http://www.unescap.org/icstd/SPACE/resap/resap_main.asp">http://www.unescap.org/icstd/SPACE/resap/resap_main.asp</a>
			UNESCO	Intergovernmental Oceanographic Commission's (IOC) Ocean Data and Information (ODIN) for Africa, the Caribbean and South America	<a href="http://ioc.unesco.org/iocweb/index.php">http://ioc.unesco.org/iocweb/index.php</a>
				IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	<a href="http://ioc.unesco.org/goos/africa/ROOFS-AFRICA.htm">http://ioc.unesco.org/goos/africa/ROOFS-AFRICA.htm</a>
36(d)	Strengthen the ability of the Intergovernmental Oceanographic Commission of the United Nations Educational, Scientific and Cultural Organization, the Food and Agriculture Organization of the United Nations and other relevant international and regional and subregional organizations to build national and local capacity in marine science and the sustainable management of oceans and their	RS for marine science and sustainable management of oceans and their resources	CNES-CNRS-IRD-IPEV-Ifremer-MétéoFrance-SHOM	France's participation in the GOOS project with CORIOLIS and MERCATOR	
			WMO	Applications of Meteorology Programme	<a href="http://www.wmo.ch/web/aom/aom.html">http://www.wmo.ch/web/aom/aom.html</a>
			UNESCO	All Intergovernmental Oceanographic Commission's (IOC) programmes, including the Integrated Coastal Area Management (ICAM), Global Observing System (GOS) and International Oceanographic Data and Information Exchange (IODE) programmes, with the use RS data	<a href="http://ioc.unesco.org/iocweb/index.php">http://ioc.unesco.org/iocweb/index.php</a>

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	resources		SUPARCO, NGOs	Monitoring Coastal ecosystem and marine envt. through SRS technology.	