

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

##### Agriculture

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	
40(b)	Develop and implement integrated land management and water-use plans that are based on sustainable use of renewable resources and on integrated assessments of socio-economic and environmental potentials and strengthen the capacity of Governments, local authorities and communities to monitor and manage the quantity and quality of land and water resources	RS and GIS for management of land and water resources	MétéoFrance – CETP – GEOSYS – AFEID	CITRAM irrigation advisory project. Irrigation management, soil water determination	
			INRA – CNRM – MétéoFrance – Astrium – SCOT	APOGEE project for land use planning assistance at regional level	
			CIRAD – IGN - ministries of the environment of the relevant countries, Ministry of Research and New Technologies (France)	SHERPA hydrological and environmental monitoring project for Central America	
			ITCF – GEOSYS – Ministry of Research and New Technologies (France)	SADAISI project, access by farmers to satellite images directly from the Internet	
			CIRAD – AMIS – Spot Image	SUCRETTE project: sugar cane teledetection monitoring system	
			Animation and graphic portfolio manager (AGPM) Technique – INRA – GEOSYS - Vivadour, Ministry of Research and New Technologies (France)	AGROCOM project for optimum maize cultivation	
			ESA - EU	Applications of the Galileo European satellite navigation system for precision agriculture	
			ASI	COSMO-SkyMed Programme for monitoring and managing forestry and agriculture. The Programme is to start operating in 2007 and reach full capacity in 2008.	

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			SUPARCO	SRS Applications program	
			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>
			FAO, UNEP	AFRICOVER/Land Cover Mapping; Global Land Cover Network (GLCN) Initiative	<a href="http://www.africover.org">www.africover.org</a>
			FAO	AsiaCover	<a href="http://www.asiacover.org">www.asiacover.org</a>
				AgrometShell (AMS)	
			FAO, WFP, UNEP	GeoNetwork	<a href="http://www.fao.org/geonetwork">www.fao.org/geonetwork</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>
			FAO, UNESCO, UNEP, WMO	Global Terrestrial Observing System (GTOS)	<a href="http://www.fao.org/gtos">www.fao.org/gtos</a>
		UNOPS, UNITAR	Activities in support to land and water management, capacity building and sustainable development	<a href="http://www.unosat.org">www.unosat.org</a>	
			GIS for integrated information management	16 UN organs, coordinated by WHO	Second Administrative Level Boundaries data set (SALB)
	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	Cross-cutting project "Application of Remote Sensing for Integrated Management of Ecosystems and Water Resources in Africa"	<a href="http://ioc.unesco.org/goos/africa/cross-cutting.htm">http://ioc.unesco.org/goos/africa/cross-cutting.htm</a>	
40(c)	Increase understanding of the sustainable use, protection and management of water resources to	RS and GIS for water resources management	BRGM, CLS, AETS, Ministry of Research and New Technologies (France)	RESSOURCE: Project to provide space telecommunications support for water data collection	

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	advance long-term sustainability of freshwater, coastal and marine environments		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	SRS/GIS based monitoring for conservation and preservation of fresh water resources.	
			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>
			FAO, UNEP	AFRICOVER/Land Cover Mapping; Global Land Cover Network (GLCN) Initiative	<a href="http://www.africover.org">www.africover.org</a>
			FAO	AsiaCover	<a href="http://www.asiacover.org">www.asiacover.org</a>
			FAO, WFP, UNEP	Geonetwork	<a href="http://www.fao.org/geonetwork">www.fao.org/geonetwork</a>
			FAO, UNESCO, UNEP, WMO	Global Terrestrial Observing System (GTOS)	<a href="http://www.fao.org/gtos">www.fao.org/gtos</a>
			UNESCO	IOC's uses of ocean based RS data to improve forecasts of rainfall in coastal areas; World Water Assessment Programme (WWAP)	<a href="http://ioc.unesco.org/iocweb/index.php">http://ioc.unesco.org/iocweb/index.php</a>
				Cross-cutting project "Application of Remote Sensing for Integrated Management of Ecosystems and Water Resources in Africa"	<a href="http://ioc.unesco.org/goos/africa/cross-cutting.htm">http://ioc.unesco.org/goos/africa/cross-cutting.htm</a>
				World Water Assessment Programme (WWAP)	<a href="http://www.unesco.org/water/wwap/index.shtml">http://www.unesco.org/water/wwap/index.shtml</a>
40(d)	Promote programmes to enhance in a sustainable manner the productivity of land and the efficient use of water resources in agriculture, forestry, wetlands, artisanal fisheries and aquaculture, especially through indigenous and local community-based approaches	RS and GIS to manage the use of water resources	BRGM, CLS, AETS, Ministry of Research and New Technologies (France)	RESSOURCE: Project to provide space telecommunications support for water data collection	
			ASI	COSMO-SkyMed Programme for monitoring and managing forestry and agriculture. The Programme is to start operating in 2007 and reach full capacity in 2008.	
			SUPARCO	SRS Applications program for natural resource monitoring	

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				AgrometShell (AMS)	
			FAO, WFP, UNEP	GeoNetwork	<a href="http://www.fao.org/geonetwork">www.fao.org/geonetwork</a>
			FAO, UNESCO, UNEP, WMO	Global Terrestrial Observing System (GTOS)	<a href="http://www.fao.org/gtos">www.fao.org/gtos</a>
				IOC's uses of ocean based RS data to improve forecasts of rainfall in coastal areas; World Water Assessment Programme (WWAP)	<a href="http://ioc.unesco.org/iocweb/index.php">http://ioc.unesco.org/iocweb/index.php</a>
			UNESCO	World Water Assessment Programme (WWAP)	<a href="http://www.unesco.org/water/wwap/index.shtml">http://www.unesco.org/water/wwap/index.shtml</a>
		GIS for integrated information management	16 UN organs, coordinated by WHO	Second Administrative Level Boundaries data set (SALB)	<a href="http://www3.who.int/whosis/gis/salb/salb_home.htm">http://www3.who.int/whosis/gis/salb/salb_home.htm</a>
40(j)	Reverse the declining trend in public sector finance for sustainable agriculture, provide appropriate technical and financial assistance, and promote private sector investment and support efforts in developing countries and countries with economies in transition to strengthen agricultural research and natural resource management capacity and dissemination of research results to the farming communities	RS and GIS for natural resource management	BRGM, CLS, AETS, Ministry of Research and New Technologies (France)	RESSOURCE: Project to provide space telecommunications support for water data collection	
			ASI	COSMO-SkyMed Programme for monitoring and managing forestry and agriculture. The Programme is to start operating in 2007 and reach full capacity in 2008.	
			SUPARCO, IUCN	SRS/GIS based pilot projects and country-wide applications of the current status of the inland and entire region.	
			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>
			FAO, UNEP	AFRICOVER/Land Cover Mapping; Global Land Cover Network (GLCN) Initiative	<a href="http://www.africover.org">www.africover.org</a>

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			FAO, UNESCO, UNEP, WMO	Global Terrestrial Observing System (GTOS)	<a href="http://www.fao.org/gtos">www.fao.org/gtos</a>
			UNOPS	Global Mapping Grant Facility	<a href="http://www.unosat.org">www.unosat.org</a>
40(n)	Enhance international cooperation to combat the illicit cultivation of narcotic plants, taking into account their negative social, economic and environmental impacts	RS and GIS for monitoring illicit cultivation of narcotic plants	SUPARCO/ Narcotics Control Division, Govt. of Pakistan	Provision of RS data/ value added products to effectively control Narcotics Cultivation etc.	
			FAO, UNESCO, UNEP, WMO	Global Terrestrial Observing System (GTOS)	<a href="http://www.fao.org/gtos">www.fao.org/gtos</a>