X. MEANS OF IMPLEMENTATION

	tems in the Plan of Implementation (F.199/20, Resolution 2)	Relevant space applications	Space-related initiatives and programmes that co	uld support the implementation of the action	Web-site(s) for further information
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	
	- Environmentally sound technologies -				
105(e)	Promote the access and transfer of technology related to early warning systems and to mitigation programmes	EO satellites and satellite communications for	ASC, CNES, CONAE, ESA, JAXA, NOAA, ISRO	International Charter "Space and Major Disasters"	
	to developing countries affected by natural disasters	early warning systems and mitigation	SUPARCO, Pakistan Telecommunication Corporation Ltd., Pakistan Meteorological Deptt.	EOSS and PAKSAT applications - Programs relating to natural disaster and damage assessment	
		programmes to combat natural disasters	ASI	COSMO-SkyMed Programme for monitoring, prevention and management of both natural and technological environmental disasters even in extreme usage conditions. The Programme is to start operating in 2007 and reach full capacity in 2008.	
			ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
			WMO	Natural Disaster Prevention and Mitigation Programme	
			UNESCO, WMO, UNEP	IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
				IOC's 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	http://ioc.unesco.org/io cweb/index.php
106	Improve the transfer of technologies to developing countries, in particular at the bilateral and regional levels,	Transfer of space technology to developing countries	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can	

		Relevant space applications	Space-related initiatives and programmes that co	uld support the implementation of the action	Web-site(s) for further information
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	
	including through urgent actions at all levels			advance their scientific, economic and social development.	
106(a)	Improve interaction and collaboration, stakeholder relationships and networks between and among universities, research institutions, government agencies and the private sector	Transfer of space technology to developing countries	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
			UNESCO	Space Hydrology International Partnership (SHIP) in cooperation with European Space Agency's TIGER project	http://www.unesco.org/ water
				Geological Applications of Remote Sensing (GARS) programme	http://www.unesco.org/ science/earthsciences
				Space Education Programme (SEP)	http://www.unesco.org/ science/earthsciences/ sep.htm
			UNESCO, WMO, UNEP	IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
				IOC's 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	http://ioc.unesco.org/io cweb/index.php
106(b)	Develop and strengthen networking of related institutional support structures, such as technology and productivity centres, research, training and development institutions, and national	Transfer of space technology to developing countries	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
	and regional cleaner production centres		UNESCO	Space Hydrology International Partnership (SHIP) in cooperation with European Space Agency's TIGER project	http://www.unesco.org/ water

	tems in the Plan of Implementation (F.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	5
			UNESCO, WMO, UNEP	IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
				IOC's 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	http://ioc.unesco.org/io cweb/index.php
			UNESCO	Cross-cutting project "Application of Remote Sensing for Integrated Management of Ecosystems and Water Resources in Africa"	http://ioc.unesco.org/g oos/africa/cross- cutting.htm
106(c)	Create partnerships conducive to investment and technology transfer, development and diffusion, to assist developing countries, as well as countries with economies in transition,	Transfer of space technology to developing countries	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
	in sharing best practices and promoting programmes of assistance, and encourage collaboration between corporations and research institutes to enhance industrial efficiency,		UNESCO, WMO, UNEP	IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
	agricultural productivity, environmental management and competitiveness			IOC's 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	http://ioc.unesco.org/io cweb/index.php
	- Building capacity -				
107	Assist developing countries in building capacity to access a larger share of multilateral and global research and development programmes. In this regard, strengthen and, where	Building capacity to access multilateral and global R&D in space-related areas.	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	

		Relevant spaceSpace-related initiatives and programmes that couldapplications		uld support the implementation of the action	Web-site(s) for further information
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	
	appropriate, create centres for sustainable development in developing countries		SUPARCO/ISNET (OIC's Space Technology Network/OOSA)	Space Technology and Disaster Management Program (STDM) is being organized by the OIC Countries	
			OOSA	Workshops and technical advisory services in the areas of basic space science, natural resources management and environment monitoring, satellite communications Regional Centres for Space Science and Technology Education	http://www.oosa.unvie nna.org/sapidx.html oosa@unvienna.org
			UNESCO	Space Education Programme (SEP)	http://www.unesco.org/ science/earthsciences/ sep.htm
			UNOPS, UNITAR	Activities in support to disaster preparedness, capacity building and sustainable development	www.unosat.org
108	Build greater capacity in science and technology for sustainable development, with action to improve collaboration and partnerships on research and development and their widespread application among research	Capacity building in the use of space science and technology for sustainable development	CNES-ESA	CNES-ESA-UNESCO Workshop on UNISPACE III recommendations on education. Development of a database to identify educational space projects.	
	institutions, universities, the private sector, governments, non-governmental organizations and networks, as well as between and among scientists and academics of developing and developed countries, and in this regard encourage networking with and between centres of scientific excellence in developing countries	e ental	SUPARCO, et al.	Organizing of short training programmes at national level for capacity building. Development of National center for Remote sensing and GIS at Karachi	
			Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
			ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
			WMO	WMO Space Programme	http://www.wmo.ch/hi nsman/satsun.html

	tems in the Plan of Implementation F.199/20, Resolution 2)	Relevant space applications	Space-related initiatives and programmes that co	uld support the implementation of the action	<i>Web-site(s) for further</i> <i>information</i>
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	·
			OOSA	Workshops and technical advisory services in the areas of basic space science, natural resources management and environment monitoring, satellite communications Regional Centres for Space Science and Technology Education	http://www.oosa.unvie nna.org/sapidx.html oosa@unvienna.org
			UNESCO	Space for Science project in cooperation with the European Space Agency (ESA)	http://portal.unesco.org / ci/ev.php?URL_ID=12 63 &URL_DO=DO_TOPI C &URL_SECTION=20 1 &reload=1075742490
				IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
			UNOPS, UNITAR	Education and awareness raising on benefits from GIS and remote sensing through International Training Centre for Local Actors (CIFAL) network	www.unitar.org/dcp/, www.unosat.org
109(a)	Increase the use of scientific knowledge and technology and increase the beneficial use of local and indigenous knowledge in a manner respectful of the holders of that knowledge and consistent with national law	Increase the use of space science and technology	SUPARCO Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Organization of national workshops/ seminars/ training coursesEnhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
			ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp

	tems in the Plan of Implementation (F.199/20, Resolution 2)	Relevant space applications			Web-site(s) for further information
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	
			UNOPS, UNITAR	Activities in support to disaster preparedness, capacity building and sustainable development	www.unosat.org
109(b)	Make greater use of integrated scientific assessments, risk assessments and	Space applications for scientific	SUPARCO	Provision of RS/ value added products and training to user agencies.	
	interdisciplinary and intersectoral approaches	assessments	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
			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	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
109(c)	Continue to support and collaborate with international scientific assessments	Space applications for scientific	SUPARCO/Pakistan Met. Deptt./WMO/OOSA	Regional/OIC Countries imparted the Training Program on the related subject.	
	supporting decision-making, including the Intergovernmental Panel on Climate Change, with the broad participation of developing country experts	assessments	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
			FAO, UNESCO, UNEP, WMO	Global Terrestrial Observing System (GTOS)	www.fao.org/gtos
				IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
109(d)	Assist developing countries in developing and implementing science and technology policies	Development and implementation of space policy for development	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
			UNESCO	Activities of the Division of Science Analysis and Policies	http://www.unesco.org/ pao/

Action items in the Plan of ImplementationRelevant space(A/CONF.199/20, Resolution 2)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	ingor marion
109(e)	Establish partnerships between scientific, public and private institutions, including by integrating the advice of scientists into decision- making bodies to ensure a greater role for science, technology development and engineering sectors	Greater role for space science and technology	SUPARCO / Relevant government / non governmental agencies, organizations, etc. Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	 Provision of RS/ value added products and training to user agencies. Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development. 	
	and engineering sectors		UNESCO	Space Education Programme (SEP)	http://www.unesco.org/ science/earthsciences/ sep.htm
			UNOPS, UNITAR	UNOSAT Initiative	www.unosat.org
109(f)	decision-making and reaffirm the te precautionary approach as set out in apprinciple 15 of the Rio Declaration on so	Space science and technology applications for science-based decision-making	SUPARCO / relevant government / non governmental agencies, organization, etc.	Services are being provided to ENERCON, Federal/Provincial Ministries, NGO's, Private Sector etc. SUPARCO has been conducting extensive environmental monitoring program using satellite/ground based measurements.	
	states: "In order to protect the environment, the precautionary approach shall be widely applied by States according to their capabilities. Where there are threats of serious or	es: "In order to protect the ironment, the precautionary roach shall be widely applied by es according to their capabilities. ere there are threats of serious or versible damage, lack of full ntific certainty shall not be used as a on for postponing cost-effective usures to prevent environmental	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
	irreversible damage, lack of full scientific certainty shall not be used as a reason for postponing cost-effective measures to prevent environmental degradation."		FAO, UNESCO, UNEP, WMO UNESCO	Global Terrestrial Observing System (GTOS) Space Education Programme (SEP)	http://www.unesco.org/ science/earthsciences/ sep.htm
				IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
110(a)	Improve their use of science and technology for environmental monitoring, assessment models, accurate databases and integrated	Use of space science and technology for environmental monitoring,	Hungarian Meteorological Service SUPARCO / relevant government / non governmental agencies, organizations, etc.	Radiation budget investigation Atmospheric Data (Satellite/Ground Based Measurement) are used for environmental studies.	

-		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	A	Agencies / institution(s) involved	Initiatives/Programmes	
	information systems	assessment models, accurate databases and integrated information systems.	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
			WMO	WMO Space Programme	http://www.wmo.ch/hi nsman/satsun.html
			UNESCO	Space Education Programme (SEP)	http://www.unesco.org/ science/earthsciences/ sep.htm
				IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
			UNEP	Abu Dhabi Global Environmental Data Initiative (AGEDI)	
			UNEP	Global Resource Information Database (GRID)	
			UNOPS, UNITAR	UNOSAT Initiative	www.unosat.org
110(b)	Promote and, where appropriate, improve their use of satellite technologies for quality data collection,	e their use of satellite technologies for	ASI	COSMO-SkyMed Programme (to start operating in 2007 and reach full capacity in 2008).	
	verification and updating, and further improve aerial and ground-based observations, in support of their efforts	collection, verification and updating	SUPARCO, Satellite Ground Station	Upgrading SGS for archiving high-resolution data. DCPs for receiving data of inaccessible areas.	
	to collect quality, accurate, long-term, consistent and reliable data		ESCAP	Regional Space Applications Programme for Sustainable Development in Asia and the Pacific (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
			WMO	WMO Space Programme	http://www.wmo.ch/hi nsman/satsun.html
			UNEP	Global Resource Information Database (GRID)	
			UNESCO	Space Education Programme (SEP)	

	tems in the Plan of Implementation IF.199/20, Resolution 2)	Relevant space applications	Space-related initiatives and programmes that co	uld support the implementation of the action	Web-site(s) for further information
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	
			UNESCO, WMO, UNEP	IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
				IOC's 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	http://ioc.unesco.org/io cweb/index.php
			UNESCO	Space Education Programme (SEP)	http://www.unesco.org/ science/earthsciences/ sep.htm
			UNOPS, UNITAR	UNOSAT Initiative	www.unosat.org
111	Establish regular channels between policy makers and the scientific community to request and receive	Channels between policy makers and space community	SUPARCO, Ministry of Environment	Sharing knowledge and experience on space sciences and technology with relevant educational institutions, organizations, etc.	
	science and technology advice for the implementation of Agenda 21 and create and strengthen networks for science and education for sustainable development, at all levels, with the aim		Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
	of sharing knowledge, experience and best practices and building scientific capacities, particularly in developing countries.		ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
			UNESCO	Space Hydrology International Partnership (SHIP) in cooperation with European Space Agency's TIGER project	http://www.unesco.org/ water

	tems in the Plan of Implementation (F.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	
				Space Education Programme (SEP)	http://www.unesco.org/ science/earthsciences/ sep.htm
				IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
112	Use information and communication technologies, where appropriate, as	Satellite communications for	SUPARCO et al.	Communication satellite under development - PAKSAT programme	
	tools to increase the frequency of communication and the sharing of experience and knowledge and to improve the quality of and access to	f increasing the frequency of communications and to improving access to information ng on	ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
	information and communications technology in all countries, building on		WMO	World Weather Watch Programme	http://www.wmo.ch/we b/www/www.html
	the work facilitated by the United		ITU	E-Strategy Programme	
	Nations Information and Communications Technology Task Force and the efforts of other relevant international and regional forums		UNESCO, WMO, UNEP	Intergovernmental Oceanographic Commission's Regional Ocean Observing and Forecasting System for Africa (ROOFS- Africa) initiative of the GOOS-Africa programme in the context of NEPAD's coastal programme	
				IOC's 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	http://ioc.unesco.org/io cweb/index.php
			UNESCO	Cross-cutting project "Application of Remote Sensing for Integrated Management of Ecosystems and Water Resources in Africa"	http://ioc.unesco.org/g oos/africa/cross- cutting.htm

	tems in the Plan of Implementation (F.199/20, Resolution 2)	Relevant space applications	Space-related initiatives and programmes that cou	uld support the implementation of the action	Web-site(s) for further information
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	
			0	IOC's "Regional Ocean Observing and Forecasting Systems for Integrated Management of Ocean and Coastal Environment and Natural Disasters in Africa" (ROOFS-AFRICA) project	http://ioc.unesco.org/g oos/africa/ROOFS- AFRICA.htm
	- Education -				
116(b)	Provide all children, particularly those living in rural areas and those living in poverty, especially girls, with the access	Satellite communications for tele-education in	CNES, French, Indian and Tunisian universities, ministries of education and research	Satel-IT French Medical Virtual University FICUS projects	
	and opportunity to complete a full	rural areas	UNESCO, CNDP, CNES	EDEN distance education project	
	course of primary education		CRDP, ENSG, ESRI France, Cartosphère, Afigeo	GEWED project web site providing geographical data and GIS for teachers, trainers and students	
			SUPARCO and others	PAKSAT programme	
			ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
			ITU	E-Strategy Programme	
			UNESCO	Harnessing information communication technologies for Education project	
				Programme for Community Multimedia Centre	http://portal.unesco.org /ci/en/ev.php- URL_ID=1263&URL_ DO=DO_TOPIC&UR L_SECTION=201.htm 1
119.	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	
124(a)	Integrate information and communications technology in school	Satellite communications for	CNES, French, Indian and Tunisian universities, ministries of education and research	Satel-IT French Medical Virtual University FICUS projects	

	tems in the Plan of Implementation F.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	-
	curriculum development to ensure its access by both rural and urban	tele-education in rural areas	UNESCO, CNDP, CNES	EDEN distance education project	
	communities and provide assistance, particularly to developing countries, inter alia, for the establishment of an		CRDP, ENSG, ESRI France, Cartosphère, Afigeo	GEWED project web site providing geographical data and GIS for teachers, trainers and students	
	appropriate enabling environment required for such technology		SUPARCO/Federal/Provincial Ministry of Education	The concerned ministries are being proposed to include topics on Information and Communication Technology for School Curriculum	
			UNESCO	Training of Primary Educators in Morocco using Interactive Television project	
				Programme for Community Multimedia Centres	
	- Capacity-building -				
125	Enhance and accelerate human, institutional and infrastructure capacity-	itutional and infrastructure capacity- lding initiatives and promote science and technology for sustainable development sustainable development	SUPARCO, UNDP, et al.	Human resource development program on national / international level	
	building initiatives and promote partnerships in that regard that respond to the specific needs of developing countries in the context of sustainable development		Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
			ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
			UNOPS, UNITAR	Education and awareness raising on benefits from GIS and remote sensing through International Training Centre for Local Actors (CIFAL) network	www.unitar.org/dcp/, www.unosat.org
			UNESCO	Space Education Programme (SEP)	http://www.unesco.org/ science/earthsciences/ sep.htm

Action items in the Plan of Implementation (A/CONF.199/20, Resolution 2)		Relevant space applications			Web-site(s) for further information
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	
		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"	http://ioc.unesco.org/g oos/africa/cross- cutting.htm
126	Support local, national, subregional and	Capacity-building in	SUPARCO, ISNET	Human resources development program	
	regional initiatives with action to develop, use and adapt knowledge and techniques and to enhance local, national, subregional and regional centres of excellence for education,	the use of space science and technology for sustainable development	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	
	research and training in order to strengthen the knowledge capacity of developing countries and countries with economies in transition through, inter		ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	information http://ioc.unesco.org/g oos/africa/cross- cutting.htm http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
	alia, the mobilization from all sources of adequate financial and other resources, including new and additional resources		UNOPS, UNITAR	Activities in support to disaster preparedness, capacity building and sustainable development	1
127(d)	Build and, where appropriate, strengthen national capacities for carrying out effective implementation of Agenda 21	Capacity building in the use of space science and technology for the implementation of	Regional Centre for Space Science and Technology Education in Latin America and the Caribbean (CRECTEALC)	Enhancement of the capabilities of the countries in the region in various disciplines of space science and technology that can advance their scientific, economic and social development.	

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		<i>Web-site(s) for further</i> <i>information</i>
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	
		Agenda 21	UNESCO	Space Education Programme (SEP)	http://www.unesco.org/ science/earthsciences/ sep.htm
			UNOPS, UNITAR	Activities in support to disaster preparedness, capacity building and sustainable development	www.unosat.org
132	Promote the development and wider use of earth observation technologies ,	Development and wider use of EO	Australia's Department of the Environment and Heritage (DEH)	Various initiatives that use Earth observing remote sensing and GIS data analysis	http://www.deh.gov.au /
	including satellite remote sensing, global mapping and geographic	technologies	ESA-EU, GDTA	Global Monitoring for Environment and Security (GMES)	
	information systems , to collect quality data on environmental impacts, land use			GDTA training programmes	
	and land-use changes, including through urgent actions at all levels		ASI	COSMO-SkyMed Programme (to start operating in 2007 and reach full capacity in 2008).	
			SUPARCO	Plans are at a foot to develop and launch Pakistan's own Earth Observation Satellite Program EOSS	
			ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
			UNESCO	Space Education Programme (SEP)	
		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"	http://ioc.unesco.org/g oos/africa/cross- cutting.htm
132(a)	Promote the development and wider use	RS for global	National Meteorology Office (Algeria)	Basic world network for ozone research	

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	
	of earth observation technologies,	observing systems	ESA-EU	GMES	
	including satellite remote sensing, global mapping and geographic		GDTA	GDTA training programmes	
	<u>information systems</u> , to collect quality data on environmental impacts, land use and land-use changes, including		ASI	COSMO-SkyMed Programme (to start operating in 2007 and reach full capacity in 2008).	
	through urgent actions at all levels		SUPARCO	Plans are at a foot to develop and launch of Pakistan's own Earth Observation Satellite Program EOSS	
			ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
			FAO, WFP, UNEP	GeoNetwork	www.fao.org/geonetw ork
			UNEP	Global Resource Information Database (GRID)	
			UNESCO	Man and Biosphere (MAB) programme and its Biosphere Reserve Integrated Monitoring (BRIM) initiative	
				Geological Applications of Remote Sensing (GARS) programme	
			Pan-African Network for a Geological Information System (PANGIS) project		
				Southeast Asian Network for a Geological Information System (SANGIS) project	
			UNOPS, UNITAR	UNOSAT Initiative	www.unosat.org
132(b)	Develop information systems that make the sharing of valuable data possible, including the active exchange of <u>Earth</u> <u>observation data</u>	Satellite communications for information systems	SPOT Image	SPOT Image catalogue	
			ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
			WMO	World Weather Watch Programme	http://www.wmo.ch/we b/www/www.html

Action items in the Plan of Implementation (A/CONF.199/20, Resolution 2)		Relevant spaceSpace-related initiatives and programmes the applications			Web-site(s) for further information
Para.	Action item		Agencies / institution(s) involved	Initiatives/Programmes	
				WMO Space Programme	http://www.wmo.ch/hi nsman/satsun.html
			UNESCO	Pan-African Network for a Geological Information System (PANGIS) project	
				Southeast Asian Network for a Geological Information System (SANGIS) project	
			UNOPS, UNGIWG	Very High Resolution Satellite Imagery database for UN Geographic Information Working Group (UNGIWG) members	www.ungiwg.org, www.unosat.org
132(c)	Encourage initiatives and partnerships for global mapping	RS for global mapping	ASI	COSMO-SkyMed Programme for technical cartography. The Programme is to start operating in 2007 and reach full capacity in 2008.	
			SUPARCO/Other relevant government agencies/ organizations etc.	Provision of SRS data/ Value added products to relevant user agencies.	
			FAO, WFP, UNEP	GeoNetwork	www.fao.org/geonetw ork
			UNOPS, UNITAR	UNOSAT web-portal and Grid data dissemination techniques	www.unosat.org
			UNOPS	Global Mapping Grant Facility	www.unosat.org
		GIS for integrated information management	16 UN organs, coordinated by WHO	Second Administrative Level Boundaries data set (SALB)	nsman/satsun.html www.ungiwg.org, www.unosat.org www.fao.org/geonetw ork
133(a)	Collect data that are accurate, long- term, consistent and reliable	EO satellites for long-term consistent	SUPARCO	SUPARCO's SGS for acquisition of high quality data.	
		data collection	UNEP	Abu Dhabi Global Environmental Data Initiative (AGEDI) (para. 52, A/AC.105/792)	
133(b)	Use <u>satellite and remote-sensing</u> <u>technologies</u> for data collection and	RS for data collection and improvement of	WMO	World Weather Watch Programme and	
	further improvement of ground-based observations	ground-based observations		WMO Space Programme	

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	
			UNESCO	Geological Applications of Remote Sensing (GARS) programme	
			UNOPS, UNITAR	UNOSAT Initiative	www.unosat.org
133(c)	Access, explore and use geographic information by utilizing the technologies of <u>satellite remote</u> sensing, satellite global positioning,	RS, GNSS and GIS for geographic information	ASI	COSMO-SkyMed Programme for technical cartography. The Programme is to start operating in 2007 and reach full capacity in 2008.	information
	mapping and geographic information systems		SUPARCO et al.	GPS based Balloon sounding system. RS/GIS applications	
			WMO	WMO Space Programme	
			UNESCO	Geological Applications of Remote Sensing (GARS) programme	
			UNOPS, UNGIWG	Very High Resolution Satellite Imagery database for UN Geographic Information Working Group (UNGIWG) members	nsman/satsun.html www.ungiwg.org, www.unosat.org
			UNOPS, UNITAR	UNOSAT Initiative	www.unosat.org
134(a)	Provide affordable access to disaster- related information for early warning purposes	RS and satellite communications for disaster-related information for early warning	ASI	COSMO-SkyMed Programme for monitoring, prevention and management of both natural and technological environmental disasters even in extreme usage conditions. The Programme is to start operating in 2007 and reach full capacity in 2008.	
			SUPARCO	Using met satellite images, COPSPAS- SARSAT system for SEARCH and RESCUE and value added Satellite data for early warning of impending tropical cyclones.	
			ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	g/icstd/ SPACE/resap/resap_m
			WMO	Natural Disaster Prevention and Mitigation Programme	

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	
			OOSA, UNOPS	Serving the UN with satellite imagery and value adding products through the International Charter "Space and Major Disasters"	www.unosat.org, www.disastercharter.or g
			UNOPS	Global Mapping Grant Facility	www.unosat.org
134(b)	Translate available data, particularly	Translating	SUPARCO	APT/ARGOS/ TOVS sounding system	
	from global <u>meteorological</u> <u>observation</u> systems, into timely and useful products	meteorological satellites data into timely and useful products	ESCAP	Regional Space Applications Programme for Sustainable Development (RESAP)	http://www.unescap.or g/icstd/ SPACE/resap/resap_m ain.asp
			WMO	World Weather Watch Programme	http://www.wmo.ch/we b/www/www.html
				World Climate Programme	http://www.wmo.ch/we b/wcp/ wcp_prog.htm
135	Develop and promote the wider application of environmental impact assessments, inter alia, as a national	RS and GIS in promoting the wider application of	SUPARCO, Ministry of Environment	Provision of SRS data/ Value added products to relevant user agencies. National Landuse plan.	
	instrument, as appropriate, to provide essential decision-support information on projects that could cause significant adverse effects to the environment.	environmental impact assessments to provide decision- support information	UNEP	Global Resource Information Database (GRID)	