

Abbreviations and acronyms

ACP	African, Caribbean, Pacific countries	MCS	Monitoring, Control & Surveillance
AUEA	Water User Associations	MPA	Marine Protected Area
CCS	Senegalese Sugar Company	NORAD	Norwegian Agency for Development Cooperation
CSRP	Subregional Fisheries Commission	ORMVA	Regional Agricultural Development Authority
COSEC	Senegalese council of shippers	OMVS	Organisation for the Development of the Senegal River Basin
CPE	Standing Water Committee	ONAS	Senegal National Sanitation Board
CRODT	Centre for Oceanographic Research of Dakar-Thiaroye	ONEP	Drinking Water Agency
CSEC	Moroccan High Council for Water and Climate	ORVASM	Souss-Massa Irrigation Agency
EEZ	Exclusive Economic Zone	RAMSA	Agadir Municipal Authority
FAO	Food and Agriculture Organisation of the United Nations	RBA	Souss-Massa River Basin Agency
FCFA	Franc CFA, the basic monetary unit of UEMOA	SAED	Management and Exploitation Society for Senegal Delta River
GAIPES	Association of Vessel Owners and Industrial Marine Fisheries of Senegal	SDE	Water Supply Company
GDP	Gross Domestic Product	SEMOS	Gold Mining Company of Sadiola
GNI	Gross National Income	SOCAS	Senegalese Canned Food Company
GIWA	Global International Waters Assessment	SOGED	Diana Dam Company
GRT	Gross Registered Tonnage	SOCU	Surveillance Operations Co-ordination Unit
IMROP	National Mauritanian Institute for Oceanographic and Fisheries Research	SPO	Socio-Professional Organisation
ITF	Intertropical Front	SRFC	Sub-Regional Fisheries Commission
ISRA	Agricultural Research Institute of Senegal	UEMOA	West African Economic and Monetary Union
		UPAMES	Union of Fishermen and Export Traders of Senegal

List of figures

Figure 1	<i>Boundaries of the Canary Current region.</i>	15
Figure 2	<i>Major river basins in the Canary Current region.</i>	16
Figure 3	<i>Senegal River Basin.</i>	18
Figure 4	<i>Gambia River Basin.</i>	19
Figure 5	<i>Souss-Massa River Basin.</i>	20
Figure 6	<i>Sebou River Basin.</i>	20
Figure 7	<i>Population density in the Canary Current region.</i>	21
Figure 8	<i>Senegal River discharge variation at Bakel, 1903-1994.</i>	26
Figure 9	<i>Fish catch in the Canary Current Large Marine Ecosystem.</i>	35
Figure 10	<i>Catch of Pink shrimp (<i>Parapenaeus longirostis</i>) in the Canary Current region.</i>	36
Figure 11	<i>Fishing effort for Pink shrimp (<i>Parapenaeus longirostis</i>) in the Canary Current region.</i>	36
Figure 12	<i>Causal chain diagram illustrating the causal links for stream flow modification in the Senegal River Basin.</i>	42

Figure 13	<i>Annual rainfall at St Louis 1892-2000.</i>	44
Figure 14	<i>Irrigated area in the Senegal River Basin 1975-1998.</i>	45
Figure 15	<i>Export of fruits and vegetables in the Souss-Massa River Basin.</i>	49
Figure 16	<i>Groundwater balance in the Souss River Basin.</i>	50
Figure 17	<i>Causal chain diagram illustrating the causal links for lowering of the water table in the Souss-Massa River Basin.</i>	50
Figure 18	<i>Inter-annual variation in the water table depth in the Souss aquifer.</i>	51
Figure 19	<i>Cropped area for irrigated cash crops in the Souss-Massa River Basin.</i>	52
Figure 20	<i>Present and projected domestic water needs in the Souss-Massa River Basin.</i>	52
Figure 21	<i>Population in Souss-Massa River Basin.</i>	52
Figure 22	<i>Irrigation water use efficiency in the Souss Massa River Basin.</i>	54
Figure 23	<i>Causal chain diagram illustrating the causal links for overexploitation in the Canary Current region.</i>	57
Figure 24	<i>Number of shrimp trawlers fishing in the Gambian waters 1993-2002.</i>	58
Figure 25	<i>Annual shrimp production in The Gambia.</i>	58
Figure 26	<i>Local water management system in the Souss-Massa River Basin.</i>	68
Figure 27	<i>Tuna fishing boat at sea off the coast of Mauritania.</i>	71

List of tables

Table 1	<i>Physical characteristics of the countries in the Canary Current region.</i>	16
Table 2	<i>Renewable water resources and freshwater withdrawal in the Canary Current region.</i>	17
Table 3	<i>Population in the Canary Current region.</i>	21
Table 4	<i>Population characteristics of the Canary Current region.</i>	22
Table 5	<i>Gross National Income and annual growth of GDP in the Canary Current region.</i>	22
Table 6	<i>Livestock distribution in the Canary Current region.</i>	23
Table 7	<i>Conventions that affect water use in the region.</i>	23
Table 8	<i>Scoring tables for the Canary Current region.</i>	24
Table 9	<i>Access to safe drinking water sources in urban and rural areas in the region.</i>	27
Table 10	<i>Water-borne diseases in Morocco 1990-1994.</i>	28
Table 11	<i>Suspended solids in the Gambia and Senegal rivers.</i>	30
Table 12	<i>Threatened species in the Canary Current region.</i>	33
Table 13	<i>National and international protected areas in the Canary Current region.</i>	34
Table 14	<i>Maximum sustainable yield for fish stocks in Gambia, 1997.</i>	35
Table 15	<i>Fish production in Gambia 1990-1999.</i>	35
Table 16	<i>Fishing potential and exploitation of the main stocks in Cape Verde.</i>	35
Table 17	<i>Fishing potential and exploitation status of fish stocks in waters off Senegal and Mauritania.</i>	35
Table 18	<i>Unreported landings and discards in Morocco.</i>	36
Table 19	<i>Licensed vessels in Gambia 1993-1997.</i>	37
Table 20	<i>Countries in the Senegal River Basin.</i>	40
Table 21	<i>Rainfall in the Senegal River Basin.</i>	41
Table 22	<i>Hydrological characteristics of the main tributaries of the Senegal River.</i>	41
Table 23	<i>Recession flood farming area in the Senegal Basin in 1987 before the damming of the River.</i>	45
Table 24	<i>Drinking water needs in the Senegal River Basin.</i>	46
Table 25	<i>Industrial water needs in Senegal River Basin.</i>	46
Table 26	<i>Irrigated crops in Souss-Massa River Basin.</i>	48
Table 27	<i>Dams in Souss River Basin.</i>	49
Table 28	<i>Water demand by sector in the Souss Massa Basin.</i>	51
Table 29	<i>Summary of the evaluation of pelagic stocks in Mauritania.</i>	56
Table 30	<i>Number of licensed industrial vessels operating in The Gambia from 1993-2002.</i>	58
Table 31	<i>Number of vessels authorised to fish in Mauritania 1990-2000.</i>	59
Table 32	<i>Coastal artisanal canoes in The Gambia.</i>	59
Table 33	<i>Unlicensed/delinquent vessels in The Gambia.</i>	60

List of boxes

Box 1	<i>Impacts of stream reduction in the Souss-Massa Basin.</i>	25
Box 2	<i>Transboundary problems resulting from the Diama and Manantali Dams on the Senegal River.</i>	26
Box 3	<i>Health impacts due to stream flow modification: Damming of the Senegal River Basin.</i>	28
Box 4	<i>Pollution in the city of Dakar.</i>	30
Box 5	<i>Damming of the Sebou River.</i>	31