

Country	Project	Areas of Expertise
AFRICA	WHYCOS project now being implemented by WMO: Improvement of methods of collection, analysis and storage of hydro-meteorological data in sub-Saharan Africa using satellite data collection platforms.	hydro-meteorological data, remote sensing
AFRICA, ASIA	Preparation of guidelines on artificial flood releases from reservoirs to maintain downstream ecosystems and dependent livelihoods, submitted to World Commission on Dams and published by World Bank. UK Department for International Development	flood releases from reservoirs
ANGOLA	Nhangue Hydroelectric Power Project, River Kwanza, Angola.	Hydropower hydrology
ANGOLA	Queue, Angola Hydropower/hydrology study.	Hydropower hydrology
ANGOLA	Angola- Queue River project Phase 2	Hydropower hydrology
ANGOLA	Mini Hydropower Studies	Hydropower hydrology
ANGOLA	Angolan cities Water resource development programme, aimed at expanding all city water supplies: Design & supervision including photo-interpretation, ground mapping and resource assessment for siting of pilot boreholes, supervision of drilling contracts for construction of boreholes, construction of gauging weirs & aquifer horizontal drains.	Remote-sensing, geological mapping, groundwater resource assessment borehole drilling, aquifer horizontal drains
ANGOLA	Hydrogeological Study of Rio Luege Valley, M'Banza Congo	Hydrogeological Study
ANGOLA	Groundwater Development Project for city water supply: Rio Guiné Spring, Malanje	Groundwater Development, aquifer horizontal drains
ANGOLA	Assessment of Water Resources of Bimbe Plateau, Lubango	Remote-sensing, groundwater resource assessment, outline planning
ANGOLA	Study of Alluvial Sands at Cangala Weir, Kuito	Shallow Groundwater Development
ANGOLA	Geotechnical investigations, Design and supervision of drilling contract and analysis for pipelines and treatment plant foundations on the following water supply projects: River Lucola Pipeline Study, Cabinda, River Buengo Pipeline Study, Luanda Water Supply, Rio Kwanza Source Works and Treatment Plant, Dondo	Geotechnical investigations Design and supervision
ANGOLA	Rehabilitation of oilfield water-flooding boreholes to supply water to fruit and pig production farms.	oilfield water-flooding boreholes
ARGENTINA	Rio Salado Basin development plan in Buenos Aires province: Hydrological study including analysis of rainfall, climate, river flows and levels for quality control and estimate of temporal and areal variations in the variables measured [15 000 rainfall station years of data, modelling 28 sub-catchments using the HYSIM rainfall runoff model].	Hydrological modelling and data processing
AUSTRALIA	Review of hydrogeological study of Wintinna coalfield, Australia.	hydrogeological study
AUSTRALIA	Hydrological and water quality studies on the Murrumbidgee river in Australia, dynamic models developed to assess the impact of effluent on the river system. Dynamic relationships between nutrient levels and algal growth investigated.	water quality studies, dynamic models
AUSTRALIA	Frog population models developed to evaluate survival and breeding patterns and links with hydrological factors.	Frog population models
AUSTRALIA	Eutrophication studies undertaken in the Peel-Harvey lake/estuary system in Western Australia: Sampling and analysis undertaken, and models developed to assess causes and management of excessive algal growth.	lake/estuary Eutrophication studies
AUSTRALIA	Tracer experiments conducted on the Georges river to assess the dispersion of pollutants.	Tracer experiments
AUSTRALIA	A review undertaken of the Western Port Bay Study, established to predict the impact of industrialization on the estuarine environment.	Estuarine water quality
AUSTRIA, HUNGARY, SLOVAKIA, ROMANIA, BULGARIA	Development of flood risk models for Austria, Hungary, Czech Republic, Slovakia, Romania, Bulgaria and the lower Danube	flood risk models

AZERBAIJAN	Hydrological Studies for Expansion of Sangachal Oil Terminal, Caspian Sea: Flood estimates to aid final design of SD2 Terminal expansion and support to URS Environmental Impact Study	Hydrological modelling and field reconnaissance
AZERBAIJAN	ISIS hydraulic modelling to assess drainage problems for Sangachal Terminal and prepare design of flood defence works	ISIS hydraulic modelling
AZERBAIJAN	Sangachal & Serenja groundwater monitoring (REC/M Cliff): groundwater survey & annual contaminant monitoring reports	Groundwater hydrocarbon contamination
BAHRAIN	Zallaq Flood Alleviation Scheme : design & implementation of flood alleviation works for the Zallaq Highway Corridor, involving ruptured wadi dam & downstream structures, and disposal of stored stormwater by induced aquifer recharge.	flood alleviation, ruptured wadi dam, aquifer recharge.
BANGLADESH	Flood Forecasting and Warning Centre in Dhaka: 1. assessment of the possible impacts of climate change upon flooding, water resources and sea levels for Bangladesh, using outputs from regional climate models to assess possible impacts of climate change on fluvial flooding, on water resources, and on coastal storm surges. 2. design and implementation of a UNIX based local area network (LAN) for forecasting operations and supervision of installation of Micro-Tideda hydrological database and MIKE 11 hydraulic model.	Flood Forecasting, climate change, Mike11, TIDEDA
BANGLADESH	Bangladesh Water Development Board: advising and training staff on the planning and design of small scale (up to 8000 ha) flood control, drainage and irrigation schemes, producing a design manual for Asian Development bank	Flood control, drainage, irrigation
BANGLADESH	European Commission programming mission to the Chittagong Hill Tracts region to identify development options in water management.	Water resources development
BEARLUS, UKRAINE	TACIS project looking at river basin management in the former Soviet Union: Development of a river basin management plan for the Pripyat basin based on the EU Water Framework Directive (WFD).	river basin management plan, Water Framework Directive (WFD).
BELARUS	EU Water framework River basin mangement studies on the River Bug	Water Framework Directive, Water Quality
BELGIUM	EC DG111 project "Assessment of the Environmental Code of Conduct Proposed by the Detergent Agency": analysis for the proposed Code of conduct by the Association de la Savonnerie de la Detergence et des Produits (A.I.S.E) on behalf of DGIII, covering initiatives proposed by A.I.S.E. for Life-Cycle Analysis, packaging, energy conservation and product use.	Detergents, Life-Cycle Analysis, energy conservation
BELGIUM	EC DGIII project "Improvements to the European Legislation for Surfactants in Detergents": identification of the impact of surface-active ingredients in detergents that may pose a risk to surface waters and also define policy options for updating current legislation.	Surfactants, policy, legislation.
BELGIUM	Hydrological assessment of the River Houyoux	Hydrological Data Processing, Hydrological Modelling
BELGIUM	Use of HYSIM to estimate flood runoffs for rural and urbanised tributary of River Meuse at Namur.	
BHUTAN	Mangdechuu Hydroelectric Project	Dams, Hydropower, Hydrological Data Processing, Hydrological Modelling
BHUTAN	Mini Hydropower Studies	Hydropower hydrology
BHUTAN	Water Resources Management Plan & Update of the Power System Master Plan: hydrological and meteorological estimates to assess the countries water resources	Hydropower hydrology
BHUTAN	Mangdechhu Hydroelectric Project. Hydrological consultant to provide estimates of flow duration, low flow and flood frequency at diversion dam and tailrace outlet of this proposed 360 MW high-head run-of-river scheme at Trongsa in central Bhutan.	Hydropower hydrology
BHUTAN	Power System Master Plan Project: identification of potential sites throughout the country for future hydropower generation, to conduct prefeasibility studies of the most favourable four sites, and to establish a modern hydrometric network with computer-based data processing facilities.	Hydropower hydrology
BOTSWANA	Reservoir design and operation: identifying measures to conserve water in drought years and the prediction of filling rates following dam raising.	Reservoir yield andn operational studies
BOTSWANA	Review of evaporation estimation from the Okavango delta region of Botswana. Department of Water Affairs, Botswana.	Wetlands, Hydrological Data Processing, Hydrological Modelling
BOTSWANA	Spillway flood estimates for seven potential dam sites.	Dams, Flood estimation

BOTSWANA	Estimation of reservoir yield for three proposed dam sites in Botswana: Short flow records were extended using a rainfall runoff model and reservoir simulation together with the method of deficient volumes and Gould method used to estimate yields with the required risk of failure.	Rainfall-runoff modelling, reservoir yield
BOTSWANA	Estimation of design floods of 20 to 500 year return period as part of a proposed dam raising study for Gaborone dam.	Dam flood hydrology
BOTSWANA	EU Support of national water resources agencies in Botswana, Chile and Khazakstan to develop integrated water resource management plans at the basin level and to encourage implementation of the EU Water Initiative	Integrated water resource management
BOTSWANA	Sua Pan Northern Botswana Phase 1 exploratory drilling programme to locate fresh groundwater supplies, including two large-scale, multiple piezometer, pre-production brine abstraction well aquifer tests, with Subsequent supervision of drilling and testing potable groundwater supply boreholes.	Groundwater development, aquifer tests, water supply
BOTSWANA	Morupule Power Station: construction and testing of production wells for cooling water supplies from Karoo Sandstone aquifer.	Karoo Sandstone, cooling water supplies, groundwater development
BOTSWANA	World Bank NE Botswana appraisal mission:review of future water supply development, including sand rivers, potential supply and quality of wellfields serving Francistown and potential sources for mining development.	Groundwater development for public water supply and mining
BOTSWANA	Molepolole and Mochudi villages Project: field supervision of drilling and testing programme to develop groundwater supplies	Groundwater development, aquifer tests, water supply
BOTSWANA	Independent review for water supply abstractions upstream of the Okavango Delta	Wetlands, Hydrological Modelling
BOTSWANA	Review of proposed engineering works in the Okavango Delta based on hydrological modelling	Wetlands, Hydrological Data Processing, Hydrological Modelling
BOTSWANA	Review of proposed engineering works in the Okavango Delta: hydrological and engineering aspects of proposed works and developed model of delta, showing that conjunctive use of surface and groundwater was a cheaper and more reliable solution with negligible negative impacts on the riparian population.	conjunctive use of surface and groundwater
BOTSWANA	Review of BRGM Hydrogeological Survey of the Transvaal Supergroup dolomite aquifer in the Kanye Basin	Hydrogeological Survey
BRAZIL	UNESCO Project to prepare design manual on flood estimation for the state of Rio Grande do Sul (250,000 km ²).	Flood estimation design manual
BRUNEI	7th National Plan Water resources development projects : design of Rampayoh weir & rubber sumigate for Labi Water Supply, engineering feasibility studies of Batu Apoi, Ulu Tutong, and Kargu Dams, refurbishment and extension of Brunei Hydrometric Network, recovery & development of National Hydrological Database using Hydata.	Water resources development, rubber sumigate dam, Water Supply, dam feasibility studies, Hydrometric Network, Hydrological Database
BRUNEI	Belait River saline intrusion study: Hydrological and Hydraulic Modelling to predict impact of river mouth dredging activities.	saline intrusion, Hydraulic Modelling, river mouth dredging
BRUNEI	Brunei Water Resources Review : development of hydrological database for the whole of Brunei using Hydata, and its use in revising resource and yield aspects of the existing and proposed water supply systems and providing operational guidelines for the regulation of the River Tutong using the existing Benutan Dam	hydrological database, water supply, water resources yield, system simulation for river regulation
BRUNEI	Ulu Tutong dam: water resources development including dam and run-of-river optioneering, Fortran programming	Water resources and Hydrological Modelling
BRUNEI	Ulu Tutong Dam: review of construction stage flood risk and recent rainfall	Rainfall and flood analysis
BRUNEI	Temburong Transfer Scheme: hydrological & water resources system modelling for proposed dam sites to expand water supply to Eastern Brunei	Water resources and Hydrological Modelling
BRUNEI	Mengkabau Dam: hydrological studies for proposed dam site	Hydrological Modelling
BULGARIA	Strengthening of the capacity & enhancement of the national groundwater monitoring system towards implementation of WFD	national groundwater monitoring
BULGARIA	EU Water framework River basin mangement studies on the River Arda and the River Mesta	Water Framework Directive, Water Quality

BULGARIA, GEORGIA, ROMANIA, RUSSIA, TURKEY, UKRAINE	GEF/UNDP Black Sea Ecosystem Recovery Project (BSERP): Responsibilities included: Overall coordination of the relevant activities of donors, participants in the funding and implementation of the Black Sea Environmental Programme; Strengthening of the project institutional network within the Black Sea Riparian Countries; Elaboration of nutrient management strategies for incorporation of revisions and amendments in laws and policies; Cost-benefit analysis; Reinforcing the legal background and promoting the implementation of the global Programme of Action for the control of land-based activities in the Black Sea region; Promotion of a legally-binding instrument for regional and responsible fisheries; Black Sea Strategic Action Plan and database.	Integrated River Basin Management, Transboundary Water Resources
BULGARIA, GREECE	Water Quality Management of the Arda River (PHARE BG 2003/005-630.05): cross-border counterpart coordination and determination of the status of the Arda/Ardas river shared between Bulgaria and Greece.	Water Quality, Transboundary Water Resources Management
BULGARIA, GREECE	Integrated Management of the Waters of Nesos/Mesta River Basin (Project No. Europeaid/119665/D/SV/BG): (i) assessment of basin characteristics and modelling (ii) common data model and GIS design, (iii) technical capacity building (iv) identification of gaps in data, technical and human resources critical for the further implementation and identification of main river basin management issues, and (v) Strategic capacity building, operation and management support to the Joint Coordinating Body	Integrated River Basin Management, Transboundary Water Resources
BURUNDI	Regional flood studies and water resource development schemes.	Flood hydrology
CAMBODIA	Management Support Programme for Department of Hydrology: Institution-building project to enhance the capability of the department to manage the development of the irrigation, flood control and rural water supply sectors.	irrigation, flood control and rural water supply
CAMBODIA	Investigation of the water resource base for irrigation and rural infrastructure development in Takeo and Kompong Speu provinces.	Water Resource Assessment
CAMBODIA	Study of the impact of deforestation, changes in cropping pattern, and irrigation and hydropower development in NE Thailand on the hydrology of the Mekong.	Multiple use water resources planning
CAMBODIA	Installation and training on the use a standard hydrological data processing and analysis package for the Mekong Secretariat as a prelude to a low flow study. Rating equations were reviewed on all Lower Mekong stations and major tributaries	Hydrological database and analysis
CAMBODIA	Use of rainfall-runoff models to investigate the impact of deforestation, changes in cropping and irrigation and hydropower development on the hydrology of the Mekong basin.	Land-use change and hydrological modelling
CAMBODIA	Lower Mekong basin World Bank project: review of hydrological data and resource estimates and an analysis of the reliability of rain-fed agriculture in NE Thailand and Cambodia.	Hydrological studies, rainfall analysis
CAMBODIA	Mekong River Commission's Flood Management and Mitigation Programme: estimating probability of exceedence of various measures of flooding on the Cambodian flood plains by linking the statistical information derived from the river records to observed flooding on the plains, using GIS and satellite flood extent information to calibrate the derived flooding statistics for land-use, agriculture and infrastructure planning.	Flood Management and Mitigation, GIS and remote-sensing, land-use, agriculture and infrastructure planning
CAMBODIA	JICA-funded integrated agricultural and rural development project in parts of Takeo and Kompong Speu provinces: assessment of water resources and flood risk to barrage structures; Other work included assistance with rehabilitation of hydrometeorological networks, analysis of operation of existing irrigation structures, and net rainfall modelling.	water resources, flood risk, dams, hydrometeorological networks, rainfall modelling
CAMBODIA VIETNAM	Mekong River Commission's Flood Management and Mitigation Programme: Responsible for evaluating the potential for use of the statistical mapping procedures developed for Cambodia (see below) to other riparian countries in the Mekong basin, and the preparation and delivery of training courses to local line agencies on hydrological and statistical analysis and use of GIS to compile a range of maps of flood characteristics.	Flood Management and Mitigation, GIS and remote-sensing, land-use, agriculture and infrastructure planning
CANADA	Modelling Lake Simcoe catchments to assess nutrient loading & devise management strategies to reduce Lake eutrophication	Water Quality
CHAD	Development of flow forecasting model for Lake Chad drainage basin. Advice and training in use of models for strategic planning of water resources.	Hydrological Data Processing, Hydrological Modelling
CHILE	EU Support of national water resources agencies in Botswana, Chile and Khazakstan to develop integrated water resource management plans at the basin level and to encourage implementation of the EU Water Initiative	Integrated water resource management

CHINA	Hydrological studies for Fanling and Sheung Shui Hinterland Drainage Master planning studies for Drainage Services Department	Hydrological studies
CHINA	Design and implementation of a real-time flood forecasting system for a 70 km ² catchment in the northern New Territories of Hong Kong, for Drainage Services Department.	real-time flood forecasting
CHINA	Yunnan Environmental Project: preparation of water resources master plan for the Lake Dianchi Catchment, to support planning changes to the water supply, sewerage and waste water infrastructure in Kunming and other provincial cities.	water resources master plan
CHINA	Mini Hydropower Studies	Hydropower hydrology
CHINA	LandCare Research (NZ) project (TA 3139-PRC) Policies and Strategies for Sustainable Development of the Lancang (Mekong) River Basin: reviewing water resources development projects and their environmental impact, estimating power demand and hydro potential, and contributing to the development of policy recommendation for management and development.	water resources development, environmental impact
CHINA	North Hainan Water Resources Development Project: water resources and meteorological evaluations and system simulation modelling including irrigation, urban and industrial and hydropower elements.	water resources system simulation, Hydro10, Aquator
CHINA	Northern China Water Resources Management Study: assessing the hydrological, groundwater and water quality data in Northern China and recommendations for the formation of a water database.	hydrological, groundwater and water quality database.
CHINA	Sustainable Development Dialogue (SDD) pilot programme: sharing UK experience of working with industry to improve national industrial resource efficiency, based in Kunming, working with the State Protection Environmental Agency.	Sustainable Development
Cote d'Ivoire	Hydrological review of hydropower potential for the 90,000 km Bandama river.	Hydropower hydrology
CZECH REPUBLIC	The Development of a Flood Risk Model for the Czech Republic and a Review of the 2002 Central European Floods	Flood Risk Modelling
DANUBE COUNTRIES	Environmental programme for the Danube River Basin (EU PHARE): a) the classification and characterisation of chemical and biological water and river sediment quality for the Danube river and transboundary river basins according to the proposed European Water Quality Framework Directive and UN/ECE guidelines; b) an assessment of the feasibility of conducting a full length chemical and biological water quality survey along the entire length of the Danube River.	Water quality, transboundary river basins
E AFRICA	Review of hydrology of Lake Victoria and flows in the White Nile: Updating of lake water balance and revision of estimates of flows available for hydropower development.	Hydropower hydrology
E AFRICA	Hydrology of Lake Victoria including improved models of lake rainfall leading to revised estimates of the probabilities associated with high lake levels.	Hydrological data processing and modelling
E AFRICA	Hydrology of Lake Victoria: review of 1900-1990 data, synthesis of river inflows for ungauged periods, and development of a water balance model able to explain the rise of lake levels in 1961/64, including modelling studies to produce synthetic rainfall sequences for prediction of future lake levels.	Hydrological and water resources system modelling
E AFRICA	An extensive study of the hydrology of Lake Victoria included a review of the basic data back to 1900, synthesis of river inflows for the ungauged periods, and development of a water balance of the lake able to explain the dramatic rise of lake levels in 1961/64.	Hydrological Data Processing, Hydrological Modelling, Reservoir Operation
E AFRICA	Development of a new Water Release Policy for Lake Victoria: investigation into options for improving the lake release policy to take account of the economic interests of a range of lake users, including time series analysis of the historical lake balance and testing alternative policies using stochastically generated sequences of future basin supply.	Hydrological Data Processing, Hydrological Modelling, Reservoir Operation
E AFRICA	Catchment and flood studies for numerous road projects in Kenya, Tanzania, Uganda, Ethiopia, Eritrea, Rwanda, Malawi, Lesotho, Swaziland, Botswana, Ghana	flood studies
E AFRICA	Hydrological assessment of Sub-Saharan Africa: Somalia, Kenya and Uganda.	Hydrological analysis
EGYPT	Arish-Rafah Groundwater Management Study, Sinai. Data review and recommendations for investigation and monitoring programmes.	Groundwater Management
EGYPT	Sinai Water Resources Study Phase 1: assessment of Phase 1 activities and planning of Phase 2 activities, including hydrogeological training of local staff.	Groundwater management, hydrogeology training

ERITREA	Development and application of a daily rainfall-runoff model for Eritrea as a means of assessing surface water resources for any part of the country. These flow estimates fed into a national water supply and irrigation potential masterplan. European Commission	rainfall-runoff modelling, master planning
ETHIOPIA	Omo-Gibe Master Plan project: development of rainfall/ runoff model for flow data extension and infilling, water resources modelling including potential for hydro-power and irrigation, flood estimation and estimation of sediment load at dams	Hysim modelling, Water Resources Systems Modelling
ETHIOPIA	Lower Awash development project: operational analysis of irrigation development in the Awash basin including the stochastic derivation of flow sequences and the time-series modelling to assess the need for additional storage to sustain hydropower and irrigation	stochastic generation, time-series modelling
ETHIOPIA	Operational analysis of irrigation development in the Awash basin	Irrigation
ETHIOPIA	Monthly rainfall-runoff model was developed to produce extended flow records for those sub-catchments with flow data and synthetic flow series for ungauged sub-catchments in the Omo-Gibe basin	Hydrological Data Processing, Hydrological Modelling
ETHIOPIA	12 Towns Water Supply & Sanitation Study: yield and flood estimates for rivers/dams.	yield and flood estimates for rivers/dams
ETHIOPIA	Addis Ababa Water Supply Stage III: hydrological studies for rivers, existing and proposed dams (yields and floods).	hydrological studies
ETHIOPIA	12 Towns Water Supply & Sanitation Study (AfDB funded), Ministry of Water Resources: water supply and sanitation studies, hydrogeological drilling investigations, yield and flood estimates for rivers/dams, EIA for all schemes, detailed design and tender documents	water supply and sanitation studies, hydrogeology, yield and flood estimates for rivers/dams, EIA, detailed design and tendering
EUROPE	Eurolimpacs project, modelling the impacts of climate change on water quality throughout Europe	climate change, water quality
EUROPE	Projects on nutrient dynamics, catchment modelling, algal model and river water quality modelling. Development of INCA model.	nutrient dynamics, catchment modelling, water quality modelling, INCA
FIJI	Estimation of construction and spillway design floods for the Magadro dam.	Flood estimation
FIJI	Installation and training on the use a standard hydrological data processing and analysis package in Suva.	Hydrological database
FIJI	Groundwater assessment using hydrological records. Responsible for defining analysis methods, regression analysis relating geology to groundwater resource.	Island Groundwater assessment
FRANCE	Future Outlook on Global Water Resources and Water Related Risk Management	Water Resources planning
FYROM	European Agency for Reconstruction: evaluation of water treatment tenders	water treatment
FYROM, GREECE	Improvement of the Management of Transboundary Water Resources in the Vardar/Axios River Basin (Project No. Europeaid/117878/D/SER/MK): progress of FYR Macedonia towards compliance with the EU Water Framework Directive, simulating improvement of cross-border coordination of shared water resources with counterpart authorities in Greece.	Transboundary Water Resources Management, Water Framework Directive
GAMBIA	Water Resources Survey for Hydrological Assessment.	Water Resources Survey
GEORGIA	Baku-Tbilisi-Ceyhan Pipeline Project: Review of the Design Basis for Oil Containment in the Borjomula Catchment	Oil retention reservoirs, fluid dynamics
GEORGIA, AZERBAIJAN	Flood estimation studies for project to protect oil pipelines from scour at river crossings.	oil pipelines, flood estimation
GERMANY	Development of a coastal flood risk model for the German Baltic Sea and North Sea coastal areas	coastal flood risk model
GERMANY	Modelling Nitrate Leaching in the Zartener Becken Aquifer	Nitrate Leaching
GHANA	Obuasi and Konongo Water Supplies: hydrological yield analysis for two township water supplies	hydrological yield
GHANA	Water Sector Rehabilitation Project: surface water resource evaluation for 13 township water supplies in northern Ghana.	Water Resource Assessment
GHANA	Kore Lagoon Environmental project, Accra: modelling for runoff assessment as part of a "clean-up" project.	Tidal hydrology

GHANA	PMF and flood estimates for the design of Weija Dam	Dam hydrology, flood estimates
GREECE	Investigation of the irrigation potential of two catchments by fitting a conceptual model	irrigation, conceptual modelling
GREECE	EU CHEWS Project. Hydrogeology of Nestos-Voriani springs area, Greece.	Hydrogeological study, springs
GREECE	EU Water framework River basin mangement studies on the River Ardas and the River Nestos	EU WFD
GRENADA	Hydrological data processing, Hydata	Hydrological database, Hydata
HONDURAS	Installation and training on the use a standard hydrological data processing and analysis package in Tegucigalpa	Hydrological database, Hydata
HONDURAS	Water resources evaluation for two catchments supplying Tegucigalpa.	Water Resource Assessment
INDIA	Completion Mission for World Bank-funded Dam Safety Project: review of maximum precipitation atlases, risk assessment and hazard classification, reservoir operation software, and flood forecasting systems and methodologies and logistical capabilities.	maximum precipitation, risk assessment, reservoir operation, flood forecasting, atlas
INDIA	Strengthening the Institute for Water Studies in Madras, Tamil Nadu; developing in-house capability, and training staff in systems analysis and river basin modelling.	training in systems analysis and river basin modelling
INDIA	Development of river basin models for water Studies in Madras	Hydrological Modelling
INDIA	Bujagali Dam - Panel Engineer inspections	Dam safety inpsctions
INDIA	World Bank hydrology project: appraisal documents for National Hydrology Project for peninsular India, surface water hydrology and database aspects and for preparation of project costings.	surface water hydrology and database
INDIA	Review of the hydrology of Nagarjunasagar dam in Andhra Pradesh State, to establish whether a third 30 MW HEP generator should be installed on the right bank main irrigation canal.	Hydropower hydrology
INDIA	Mass balance model developed for the Betwa groundwater study to predict groundwater levels and soil moisture characteristics and river flows.	Groundwater modelling
INDONESIA	Review of the water resources and the estimation of design floods for possible hydropower schemes in the Ayung and Balian catchments on Bali.	Hydropower hydrology
INDONESIA	Implementation of a real-time flood forecasting system for the River Citanduy and other catchments in south Java	real-time flood forecasting
INDONESIA	Water balance review of Lake Toba, assessing hydropower potential, and use of the lake to generate 600 MW for aluminium smelting	Hydropower studies
INDONESIA	Design manual on flood estimation for the islands of Java and Sumatra: Reviewed all existing flood data, derived flood frequency curves, related mean annual flood to catchment characteristics.	flood estimation design manual
INDONESIA	Bintan Industrial Estate Water Supply, Riau Archipelago: water resource investigations for establishing and expanding industrial development in Eastern Bintan, including hydrological modelling, dam hydrology, establishment of hydrometric network, monitoring, groundwater drilling programme, geotechnical surveys	Water Resources planning and development, groundwater, dams, well construction
INDONESIA	Sg Jago Saline intrusion study for Phase 3 of Bintan Industrial Estate water supply	Saline intrusion modelling and fieldwork
INDONESIA	WMO Pilot flow forecasting system for real-time water management of irrigation systems and environmental monitoring in Java: establishing flow forecasting models, and tendering supply and installation of computer and telemetry equipment for water level, rainfall, climate and turbidity monitoring	real-time flow forecasting, irrigation systems, environmental monitoring
INDONESIA	South Java Flood Control Sector Project: implementation of the hydraulic modelling (ISIS software) of flooding in ten sub-project river basins, and for all project databasing activities including monitoring of flood impacts, Design and recommendations for systems modelling.	Flood Defence studies
INDONESIA	North Java Flood Control Project: reviewing previous studies, producing an up to data flood database, carrying out flood frequency analysis and investigating rainfall intensity distributions for flood design.	Flood Defence studies
INDONESIA	Development of Cimanuk basin pilot forecasting system, Java, to improve the country's capability in flood forecasting	Flood forecasting

IRAN	Modelling of a complex water resources system including dams and tunnels for irrigation development	Multi-purpose water resources systems modelling
IRAN	Integrated water resources management for the Karun River Basin, Khuzestan: development of an optimisation model for management of a series of multi-purpose reservoirs.	Integrated water resources management, multi-purpose reservoir optimisation
IRAN	Flood estimates for bridge design on Qom to Isfahan road.	Flood estimation
IRAN	Study of rainfall intensities in Tehran for sewerage design criteria.	rainfall intensity duration frequency
IRAN	National Cropping Plan: water resources investigations.	water resources investigations
IRAN	Appraisal of the hydropower and irrigation potential of Dez dam.	Hydropower hydrology
IRAN	Analysis of the hydrochemistry of Tehran Basin, to determine impact of wastewater disposal into the alluvial aquifer underlying the urban area.	hydrochemistry,wastewater disposal, shallow groundwater
IRAN	Regional Groundwater study of Tehran Basin for Expansion of Tehran groundwater supplies from four new wellfields: assembly and collation of hydrogeological data from wells and qanats, supervision and design of production and observation wells to 150m depth, analysis of existing wellfield abstraction, and de-watering schemes to control rising groundwater levels in south Tehran. .	Groundwater development, rising groundwater levels, well testing, qanats
IRAN	Caspian Sea Environment Programme (GEF/UNDP): design of a regional water management and sediment quality monitoring programme and the implementation of environmental quality objectives for water, sediment and biota for the future management in the Caspian Sea.	regional water management, water quality monitoring programme
IRAN	Masanadaran Water Board Hydrological and water resource studies for irrigation scheme, including flood flow estimation and modelling a complex water resources system which included dams and tunnels.	water resources system modelling, flood estimation
IRAQ	Drainage works at the marshes of southern Iraq, at the confluence of the Tigris and Euphrates rivers	Wetlands hydrology
IRELAND	RIS R&D Project: Development of the Reservoir Inflow Sequence (RIS) method of hydrograph analysis, and application of the procedure	Reservoir Inflow Sequence (RIS), hydrograph analysis
IRELAND	Pollan Dam Hydrological Design : rainfall and river flow analysis, flood discharge estimation and basin yield studies for sizing the proposed dam and associated hydraulic structures, with particular attention to compensation releases and the existing salmon fishery of the River Crana	Dam hydrology, rainfall and river flow analysis, flood estimation, basin yield, salmon fisheries
IRELAND	Support Matrix Effects in Upflow/hybrid Fixed Film Anaerobic Reactors Treating Agricultural and Industrial Wastewaters	Wastewater treatment systems
ISRAEL	Water Resource study of the Hasbani and Jordan River Basin to assess equitable use of the Jordan River resources and address decline in water levels of the Sea of Galilee	Hydrological modelling, Hysim
JERSEY	Queen's Valley Dam Break Analysis : analysis of the effects of rupture of the QV dam on downstream flooding at Gorey village, using the US NWS DAMBRK model	Dam Break Analysis
JORDAN	Water resources study for the Arab Potash Company.	Water resources study
JORDAN	Extension of alluvial fan wellfield supplies and 1km deep drilling programme for brackish water supplies: evaluation of groundwater resources potential of deep sandstone aquifer and alluvial fan aquifers using MODFLOW. Evaluation of optimal conjunctive use of wadi baseflows and wellfield supplies.	alluvial fans, wellfields, groundwater resource assessment, MODFLOW, conjunctive use
JORDAN	SE Ghors Review of water sources for future water supply strategy to supply fresh and brackish water to potash refinery: examination of well field abstraction in relation to conflicting water use and diversion of wadi recharge sources.	water supply, wellfields, abstraction, wadi recharge
JORDAN	Investigation and development of water supplies in the Dead Sea Rift Valley for a potash process plant and associated new township of the Arab Potash Project: feasibility study to identify potential sources, geophysical survey interpretation, and design and supervision of drilling, testing and monitoring programmes for wellfields in the largest alluvial fans.	feasibility study, geophysical survey, water well drilling, testing and monitoring
JORDAN	A study of the hydrology of the Dead Sea based on rainfall records over the past century	Dead Sea hydrology
JORDAN	Impacts of Climate Change on water resources	Climate change

JORDAN	Water Life & Civilisation: impacts of climate change in Jordan - hydrological modelling under past, present and future climates. A.Wadi Faynan; b.Jawa	climate change, hydrological modelling
JORDAN	Arab Potash Project: study of the hydrology of the Dead Sea and prediction of future sea levels using stochastic models of rainfall and sea level changes fitted to historic data; Assessment of monitoring network data (baseline and management) and conjunctive use supplies to potash refinery.	Dead Sea hydrology
JORDAN	Hammad and Sirhan basins Groundwater investigations: analysis of the potential for surface water storage and recharge of groundwater.	Groundwater investigations, groundwater recharge
KAZAKHSTAN	EU Support of national water resources agencies: development of integrated water resource management plans at the basin level, to encourage implementation of the EU Water Initiative	Integrated water resource management
KAZAKHSTAN	Development of policy instruments for improved water management: pilot study of the River Ili and Lake Balkhash.	policy instruments, water management
KENYA	Advised on adaptation of data processing system to include data from catchments	
KENYA	Mombasa and Coast 2nd bulk water supply: Modelling of the Athi, Tsavo and Sabaki rivers for the environmental impact assessment of increased abstractions at Mzima springs, Flood estimates for the 2nd Mzima pipeline river crossings.	Hydrological modelling, EIA, groundwater development, Flood estimation
KENYA	Grand Falls Hydropower Scheme on the Tana River: hydrological component of the EIA studies, development of a strategy for making artificial flood releases from the reservoir in order to maintain existing spate-flood agriculture along the river downstream.	Hydropower hydrology, reservoir release policy, EIA
KENYA	Kilibasi Region assessment of surface and groundwater resources, SE Kenya, to determine sustainability of small-holder agriculture.	surface and groundwater resource assessment
KENYA	Review of Chyulu Hills water resources	water resources review planning
KENYA	HYDATA regional training centre in Nairobi: Training in computer based hydrological data processing and analysis	HYDATA, hydrological database
KENYA	Mombasa 2nd bulk water supply project: hydrometric data processing for the Athi, Tsavo, Sabaki and coastal river systems	Hydrometric data processing
KENYA	Assessment of Impact of Gibe 3 Hydro-electric Power Dam (Ethiopia) on Lake Turkana hydrology	Lake studies
KENYA	Establishing Potential for Alternative Water Supply Sources in Rural Kinango, Kaloleni and Kilifi Districts	Water Supply Sources
KENYA	Probable Maximum Flood Assessment, Masinga Dam Raising, Kengen	Dam hydrology
KENYA	DWA Sisal Estate, Kenya: Assessment of flood potential and effects of land use changes, outline designs for rehabilitation of a series of breached earth dams, and assessment of catchment rehabilitation measures.	flood assessment, land use change
KENYA	Olarro Camp: Measurement of stream and spring discharges, for Design of water supply system.	Streamflow gauging
KENYA	Rainwater harvesting study, Karen Country Club: rainfall studies and rainfall / runoff modelling.	hydrological modelling
KENYA	Flood study and flood protection scheme for Samburu Serena Lodge, Ewaso Ngiro River	flood studies
KENYA	Sasamua Dam: flood hydrological studies including assessment of PMF	Dam hydrology
KENYA	Kirandich Dam, National Water Conservation & Pipeline Corporation: Dam construction inspections, hydrological study and Panel meetings including advising on EIA and catchment conservation measures.	Dam hydrology and construction
KENYA	Garissa Stormwater Flood Control Study: flood and drainage study.	Flood Control
KENYA	Nkondi Irrigation Scheme: climatological and hydrological study.	hydrological study
KENYA	Masterplan Traditional Irrigation Furrow Rehabilitation in Elgeyo Marakwet District: field inspection, mapping, hydrological assessments.	hydrological assessments
KENYA	Mombasa Water Supply: hydrological studies	hydrological studies

KENYA	Sasumua Dam Rehabilitation, Nairobi Water Supply: dam and spillway geotechnical investigations, topographical survey	dam hydrology, geotechnical investigations
KENYA	Smallholder Irrigation Project in Mt Kenya Region: design and tender documents for various smallholder irrigation schemes.	irrigation schemes.
KENYA	Tana Power Station Rehabilitation, Kengen: run-of-river hydrological review, assisting geotechnical investigations, tender documentation, and construction supervision.	run-of-river hydropower
KENYA	Hola Irrigation 3400ha Project (BADEA): topographical and soil studies, detailed design, tender documentation, review of EIAs and social studies.	soil studies, EIA, social studies.
KENYA	Smallholder Irrigation Development Study (AfDB): country-wide feasibility studies and workshops (2,400ha), water resources verification studies for intakes and dams, detailed design for 24 schemes (1,500ha) and EIAs for all schemes.	feasibility studies, intake and dam hydrology
KENYA	Institutional Improvement and Rehabilitation of Water Supply and Sewerage Systems in 10 Towns (JICA): studies in hydrology and hydrogeology, and preparing preliminary designs / cost estimates.	hydrology, hydrogeology, Water Supply, Sewerage
KENYA	IDA El Nino Emergency Project: design, tender, construction supervision for various small water, sewerage and building rehabilitation projects in NE Province of Kenya, following damage caused by the El Nino floods.	flood damage, water supply, sewerage
KENYA	KFAED Bura/Hola Settlement / Irrigation Rehabilitation Project: hydrological, soil, engineering and economic feasibility analyses and EIA for 5,000ha irrigation scheme drawing water from the Tana River.	hydrological, soil, engineering, economic feasibility analyses
KENYA	IDA Mombasa Sewerage, Drainage and Sanitation Study, National Water & Pipeline Corporation: feasibility studies, design & tender of Phase I capital works, including institutional studies, PSP options, all engineering surveys, mapping and studies, marine surveys and EIA.	feasibility studies, design, institutional studies, land and marine surveys, EIA
KENYA	IDA Dandora Sewage Treatment Works Extensions, Nairobi: contract administration for largest oxidation pond complex in Africa	Sewage Treatment, oxidation ponds
KENYA	Tourism / institutional water and wastewater design construction supervision for the following developments: Shimba Hills Lodge, AMREF new Nairobi HQ, Zanzibar Serena Inn, United States International University, Kittich Camp, Mathews Rang	Tourism development, institutional strengthening, water and wastewater design, construction
KENYA	Northern Kenya water supply projects: catchment studies, water resource assessments and EIAs, for community-based conservation	catchment studies, water resource assessments, EIAs, conservation
KENYA	Environmental compliance audits (EAs) and EIAs with emphasis on community conservation areas and water resources / catchment conservation: Giraffe Centre, Olarro Camp, Masai Mara, Kenchic New Hatchery, Naivasha, Soysambu Wildlife Conservancy, Osinkira Campsites, Oldkessi Group Ranch, Masai Mara, North Aberdares Wilderness Retreat, near Rumuruti, Mt Kenya to Ngare Ndare Forest Game Fenced Corridor, Mkuu Springs Community Water Project, Isiolo, Ngwesi, Tassia, and Namunyak, Sera Conservancy, northern Kenya (USAID funded), Samburu, Joy's Camp, Shaba National Reserve, Lewa Wildlife Conservancy and game lodges, Isiolo, Kenya Breweries, Rafiki Millers (flour millers)	Environmental compliance audits (EAs) and EIAs
KENYA	Preliminary evaluation of groundwater occurrence for water supply development feasibility study of Baringo District, Kenya Rift Valley.	water supply, groundwater assessment
KENYA	Royal Geographical Society's South Turkana expedition.	Lake studies
KENYA, TANZANIA	Arid land hydrology of Lakes Magadi, Little Magadi and Natron, and River Ewaso Ngiro South and tributaries	Arid zone hydrology
LAOS	EU Luang Namtha Province Integrated Rural Development Project: Streamflow measurement, runoff estimation and flood hydrology for improvements to small scale irrigation, fishponds and micro-hydropower, to assist development of 25 upland and lowland villages.	Streamflow measurement, runoff estimation, flood hydrology small-scale irrigation, fishponds, micro-hydropower, rural development
LAOS	Nam Ngum Watershed Management Project: review of water resources and flood designs and flood operations of existing and proposed projects and analysis of the incremental impact of further hydropower and irrigation developments. Recommendations for monitoring and institutional measures.	water resources, flood hydrology, hydropower, irrigation, hydrometric monitoring and institutional measures.
LEBANON	Wazzani Pumping Station: water resources study of the Hasbani River Basin, to help resolve dispute between Lebanon and Israel over water rights of the Jordan River.	Transboundary water resources planning and assessment, groundwater

LESOTHO	Lesotho Highlands water transfer project: review of scheme to transfer 2200 MCM from Lesotho to South Africa, aimed at resolving differences of approach between the governments of Lesotho and South Africa and at producing stochastic generation of flow sequences for reservoir design and royalty computations for water transfer	water charging
LESOTHO	Senqu river flow updates for the Lesotho Highlands project.	Hydrological modelling
LESOTHO	Lesotho Highlands water transfer project: Evaluation of water resources and hydrology	Hydrological modelling
LESOTHO	Installation and training on the use of a HYDATA hydrological data processing and analysis package for the Lesotho Highlands Water Project	Hydrological database
LESOTHO	5 Towns Water Supply and Sanitation Project (BADEA): hydrological assessment for dams, run-of-river intakes, and borehole yield assessments, and doing feasibility studies for schemes, and finally designs for intakes, boreholes, pipelines, sewers, pumping stations, treatment works - Butha-Buthe, Hlotse, Mafeteng, QachaNek, Mohale Hoek.	dam/intake hydrology, intake, borehole, pipeline, pumping station, treatment works feasibility/design
LIBYA	FAO hydrological data processing project for Department of Water and Soil.	Hydrological database
MACEDONIA	EU Water framework River basin management studies on the River Vardar	EU WFD
MACEDONIA	EU Vardar/Axio River Basin project to develop a river basin management plan for the trans-boundary water resources shared with Greece, including modelling of the Dojran Lake.	river basin management plan, trans-boundary water resources, lake modelling
MALAWI	Assessment of the water resources of the Shire Highlands and an appraisal of the reliability of flows in the Shire river, for Blantyre water supply	Hydrological and land-use modelling
MALAWI	Environmental and Natural Resource Action Plan for the Upper Shire	Natural resources planning
MALAWI	Estimating the water resource available in a number of rivers in northern Malawi to support development of run of river hydropower projects.	Hydropower hydrology
MALAWI	Feasibility Study for the Stabilisation of the course of the Songwe River along the Malawi/Tanzania international border river.	River Stabilisation
MALAWI	Surface Water WRD projects: 1. Research of methods to determine regional values of average annual actual evapotranspiration; 2. Ungauged catchment procedures, using regional hydrological analysis of river floods and low flows in gauged rivers, relating the flood and low flow measures to catchment characteristics drawn from maps.	Ungauged catchments, high and low flows
MALAWI	Northern Malawi Hydro Project: assessing the run of river hydropower potential of northern Malawi, including low flow and flood analysis, and for studies to explain the influence of natural storage on Nyika Plateau on dry season flows.	Hydrpower studies, low flow and flood analysis
MALAWI	Geological Survey of Malawi: Desk studies of the regional groundwater potential of the Shire Valley and Lake Chilwa Plain to locate and develop groundwater supplies; implementation of a countrywide groundwater sampling programme; 300 village boreholes using resistivity methods; and staff training.	regional groundwater studies, groundwater development; groundwater sampling; resistivity survey; staff training
MALAWI	Blantyre Water Supply: assessment of the water resources of the Shire Highlands and an appraisal of the reliability of flows in the Shire river, additional water sources study for the next stage of water development for the city.	Water supply source development
MALAWI	Nyika-Vwaza National Park Project: engineering and hydrology for tourist lodge water supplies.	tourist lodge water supplies
MALAYSIA	University of Malaysia [UNIMAS] groundwater investigation and development for irrigation of green areas on new university campus in Kuching.	groundwater investigation
MALAYSIA	Model Forest Management Area (MFMA) : Baseline hydrological reconnaissance and characterisation of 1,500 sq km area of central Sarawak, to develop procedures to reduce impact of forest harvesting on river water quality and fish populations, to assist in the preparation of the MFMA development plan, including planning and establishment of a hydrometric network for future monitoring of forest operations, and assessment of water quality classification systems for use in forest streams in Sarawak.	Forest management and planning, hydrological reconnaissance, GIS/atlas forest harvesting, hydrometric network, water quality classification systems
MALAYSIA	Bintulu Region Water Supply Evaluation : review of water resources of the Kemena River Basin and coastal corridor for regional water supply.	water resources, regional water supply.

MALAYSIA	Lanjak-Entimau Wildlife Sanctuary : establishment of climatological and river gauging stations at Nanga Bloh in the Ulu Katibas River Basin.	climatological and river gauging stations
MALAYSIA	Kuching Riverfront Developments: development of ISIS hydraulic model of Sarawak River, for evaluating river flood levels, scour and sedimentation.	ISIS hydraulic modelling of flood levels, scour and sedimentation.
MALAYSIA	Feasibility Study of a Multi-Purpose Dam on the Sarawak Kiri River:assignment included establishment of rainfall and river gauging stations at Bengoh & Semban.	Dam feasibility, hydrometric network
MALAYSIA	Bintulu Baru Industrial Park : hydrological appraisal for water source procurement and conceptual design of water supply scheme, comparing options of developing Labang River and direct abstraction from Kemena River.	hydrological appraisal, water supply conceptual design
MALAYSIA	Investigation of source options for augmentation of Kunak & Semporna Water Supply	Water Supply source development
MALAYSIA	Sarikei Water Supply & Resource Development Project: water resources assessment and preliminary engineering design of a regional water supply scheme serving 5 towns and a new industrial deep water port complex, with anticipated demand of 150 Mld, including a review of sources, groundwater, design of a new 30 m dam for river regulation, water treatment plant extension, and 50 km transmission system	Water resources assessment, regional water supply, dam PED, river regulation, water treatment plant and pipeline design
MALAYSIA	Kota Kinabalu Water Supply Privatisation Project : review of Babagon Dam hydrology, involving the independent assessment of available water resources, reservoir yield, and flood studies for sizing the dam & hydraulic structures	Dam hydrology
MALAYSIA	Labuan Water Supply Scheme : study of Padas River Basin, to assess effect of tropical deforestation on dry weather flow, and establish limit of saline intrusion in the Padas estuary, for siting the water supply intake and designing offstream raw water storage.	tropical deforestation, dry weather flow, saline intrusion, water supply
MALAYSIA	Hydrometric network design in the coastal plain of Sarawak	Hydrometric network design
MALAYSIA	Mini Hydropower Studies	Mini-hydro
MALAYSIA	Sg Darau ISIS Hydraulic modelling, Sabah	ISIS Hydraulic modelling
MALAYSIA	Sarawak, Pelagus HEP pre-feasibility studies, Batang Rajang	Hydrological modelling, HYSIM, dam hydrology
MALI, CHAD, SUDAN	Sub-Saharan Hydrological Assessment, World Bank: Reviewed hydrological database and prepared hydrological yearbooks (derivation of rating curves, computation of daily discharges, double mass curves).	hydrological database, hydrological analysis
MAURITIUS	Investigated the hydropower potential of catchments situated on the Grand River	Hydropower hydrology
MAURITIUS	Mini Hydropower Studies	Mini-hydro
MAURITIUS	Mare Aux Vacoas 70 MLD Water Supply, Central Water Authority (CWA): hydrological yield & climatological studies.	hydrological yield & climatological studies
MAURITIUS	Mont Blanc Water Supply, CWA: hydrological design and groundwater studies, assessing water demands	Groundwater studies
MEXICO	Development of the control program for the water resources model of the Lerma and Chapala river basins in Mexico.	Water resources system simulation
MIDDLE EAST	Creation and monitoring of water data banks in the region.	Hydrological database
MIDDLE EAST	Mission connected with Middle East Peace Process. visited Paris in Nov99 to evaluate tenders & supervision until Jan-2001	
MIDDLE EAST	Middle East Peace Process EU representation to enhance/develop Israeli, Jordanian and Palestinian hydrometric data collection and processing activities, including waste water re-use	Transboundary hydrometric data collection and processing
MIDDLE EAST	Fonds Français pour l'Environnement Mondial (French Global Environmental Fund) project to establish pilot project for Environmental Monitoring as part of the Middle-East Peace Process	Transboundary Environmental Monitoring
MOLDOVA	River Basin Management for Irrigation Sector Reform Activity: identification, delineation, classification of surface water and groundwater bodies, & Bic-Botna pilot area application	Water framework Directive, surface water/Groundwater classification systems

MOROCCO	WMO project to establish methods of water resource assessment and flood estimation in arid and semi-arid regions.	water resource assessment, flood estimation, arid zone hydrology
MOROCCO	Settat Master Sewerage Plan: hydrogeological study for water supply and wastewater strategy for Berrechid Plain, reviewing and providing preliminary design of aquifer recharge system, using domestic wastewater.	Groundwater recharge studies, wastewater
MOZAMBIQUE	Reappraisal of the flood operation of Cabora Bassa dam and studies of flood frequency in the lower Zambezi	Zambezi flood studies
MOZAMBIQUE	Mini Hydropower Studies	Mini-hydro
MOZAMBIQUE	Cahora Bassa Dam Review of design documents as part of Due Diligence.	Due Diligence.
MOZAMBIQUE	Lower Zambezi Environmental Risk Management Study	Environmental Risk Management
MOZAMBIQUE	Mozambique Energy master plan	Hydropower studies
MOZAMBIQUE	Scoping study to develop an Environmental Management Plan for Cahora Bassa dam, with particular reference to downstream riparian issues.	Environmental Management, hydropower
MOZAMBIQUE	Reservoir operation study of the Cabora Bassa dam: Derivation of operating rule curves to preserve power generation capability and downstream flood alleviation, also reviewing potential for additional hydropower installation at Cabora Bassa dam, and for development of a revised operating rule.	reservoir operating rules, hydropower
MOZAMBIQUE	Field reconnaissance and collection of data prior to analysing the flood frequencies of the River Zambesi and its tributaries as part of a study to examine the potential for flood alleviation and flood warning below Cabora Bassa Dam.	flood alleviation, flood warning
MOZAMBIQUE	Pequenos Libombos Dam, Umbeluzi River : review of flood studies with allowance for the rupture of Mnjoli Dam in Swaziland.	flood studies, dam failure analysis
MOZAMBIQUE	Manica Forest Industries Project: Environmental baseline study of Lake Chicamba & Pungue River, for siting of water supply intake & establishing effluent guidelines for sawmill & lake-side paper-mill at Messica, including data collection/analysis, & BOD/DO lake model.	paper-mill water supply, lake water quality modelling
MOZAMBIQUE	Gorongosa National Park Investigation of drought & remedial measures, focusing on lowering water table in the Rift Valley floor, land-use change in river source regions, & long-term rainfall trends.	drought studies, land-use change
MOZAMBIQUE	Mozambique, Maputo and Incomati river basins management: Setting up reservoir operating rules.	reservoir operating rules
MOZAMBIQUE	Maputo Urban hydrology project: assessment of runoff and system of conduits to identify hydrological and contractual problems in contracts for the design and construction of an urban drainage system	Urban hydrology, sewer modelling
NAMIBIA, BOTSWANA	Estimating potential effects of proposed pumped abstraction from Okavango in Namibia upstream of the Okavango Delta in Botswana: mathematical model of delta to investigate impact on conservation and tourist interests	hydrological modelling, conservation, tourism
NEPAL	Mini Hydropower Studies	Mini-hydro
NEPAL	Feasibility Study of Upper Tama Koshi Hydroelectric Project: estimation of 35 year record of flows at the intake dam, to allow simulation of the long term performance of this high head scheme, and flood estimation for the intake dam and the tailrace outlet.	Hydropower hydrology
NEPAL	Khimti Khola Hydropower Project. Feasibility study of 45 MW 700 m head run-of-river scheme.	Hydropower hydrology
NEPAL	Kali Gandaki A Hydroelectric Project. Detailed updated version of previous feasibility study of this 100 MW 112 m head run-of-river scheme.	Hydropower hydrology
NEPAL	Development of Operational Hydrology Services. Project to improve quality of priority gauging stations and process their backlog of data.	Hydrological data improvement, streamflow gauging
NEPAL	Review of hydrological and energy potential aspects of feasibility and design studies for Indrawati III run-of-river hydropower project.	Hydropower hydrology
NEPAL	Rehabilitation and improvement of farmer-managed irrigation schemes: reviewing the hydrological database and defining a study of the impact of irrigation development.	hydrological database, irrigation development.

NEPAL	The Effects of Intensive Agriculture on Water Quality	Water Quality
NEPAL	Establishment of a project in Nepal in collaboration with the RGS to study the impact of land use change on sediment release and water quality.	land use change, sediment, water quality.
NEW ZEALAND	The Development of GIS Tools for Agriculture and Water Quality.	GIS, Agriculture, Water Quality.
NEW ZEALAND	Development of a Model to Predict Phosphorus Losses from Grazing Land	Water quality modelling
NEW ZEALAND	The Effects of Land Use Change on Water Quality in the Toenepi Catchment.	Water quality modelling
NEW ZEALAND	The Effects of Land Use Change on Water Quality in the Oteramika Catchment.	Water quality modelling
NEW ZEALAND	The Effect of Deer Farming on Soil Erosion and Sediment Transport in the Ngongataha Catchment	Water quality modelling
NEW ZEALAND	Development of a Model to Predict Surface Runoff from Hill Country Grazing Catchments	Hydrological modelling
NEW ZEALAND	Catchment Decision Support System User Manual	Decision Support
NIGER	A flow forecasting system for the Niger river basin	Flood forecasting
NIGER	HYDRONIGER WMO/UNDP project to provide a satellite-based flow forecasting system for the 8 countries of the Niger basin: installation of gauging stations and satellite transmission platforms, construction of office block and computerised data handling and flow forecasting, software development for the hydrometric database and flow forecasting within and through the 'inner delta' wetland.	flow forecasting, gauging stations, satellite telemetry, software development, hydrometric database
NIGERIA	Investigated the hydrology of the Kilange River by relating flows to characteristics of neighbouring catchments.	Catchment modelling
NIGERIA	Preparation of reservoir spillway design flood and construction flood estimates	Dam hydrology, flood estimates
NIGERIA	Design flood estimates for road over river bridges.	flood estimation
NIGERIA	New Federal Capital City: 25 and 100 year flood estimates, to define flood plain limits and for bridge design criteria.	flood estimation, floodplain mapping
NIGERIA	Re-appraisal of a proposed dam in Western Nigeria using synthetic flow generation techniques combined with a reservoir operation study.	dam hydrology, synthetic flow generation, reservoir operation
NIGERIA	UNDTCD/UNDP evaluation mission for two UNDP funded projects in the water sector.	water supply
NIGERIA	Water resource and flood studies for alternative water supply reservoirs on the Ogun and Ofiki rivers in Oyo state.	water supply, flood studies, water resources
NIGERIA	Preparation of reservoir spillway design flood and construction flood estimates for three schemes, including probable maximum precipitation, deriving a synthetic unit hydrograph and combining these to produce design floods.	Flood estimation
NIGERIA	Wetland studies in the Hadeija-Nguru basin in Northern Nigeria	Wetlands hydrology
NIGERIA	Water resources and flood studies for alternative water supply reservoirs on the Ogun and Ofiki rivers in Oyo state, Nigeria	Multi-purpose water resources planning
NORWAY	Quantification of nutrient fluxes to the sea from atmospheric deposition and land-based sources	Water quality modelling
NORWAY	SEALINK – Modelling nutrient concentrations in Norwegian catchments	Water quality modelling
NORWAY	Management of CLIMEX experiment. Project to investigate impacts of climate change in terrestrial ecosystems, Based in Norway using manipulation experiments.	climate change, terrestrial ecosystems
NORWAY/SWEDEN	Development of water quality models of catchments in Wales, Scotland, Norway and Sweden to predict the effects of acid deposition. Part of the Royal Society Surface Waters Acidification Project (directed by Sir John Mason). Models include hydrochemical and biological factors to predict changes in chemistry, trout survival and invertebrate diversity.	Water quality modelling, acidification

OMAN	Review of all water resources surveys to define the scope for irrigation developments in the wadi channels	water resources surveys
OMAN	Khazzan Studies, Oman. Flood risk and scour erosion of pipeline crossings of wadis.	flood studies
OMAN	Primary water resource survey of northern Oman	water resources surveys
OMAN	Sohar Copper Project, Wadi Siq Northern Oman: Geological reconnaissance and evaluation of contamination risk from a copper tailings dam.	Geological reconnaissance, copper tailings contamination
OMAN	Northern Oman water resources development strategy: Review of previous water resource studies to produce master plan	water resources master plan
OMAN	Irrigation development project: Review of water resource surveys and conservation projects to assess potential for use of spate flows in the wadi channels.	wadi floods, irrigation
OMAN	Northern Oman surface water studies comprising the design and operation of a new hydrometric scheme, analysis of rainfall and flood flows, and estimating long term runoff and the rates of aquifer recharge.	hydrometric network, hydrological analysis, aquifer recharge.
PAKISTAN	Project to improve the design of mountain wadi check dams augmenting the supply to irrigation schemes located in Baluchistan.	wadi breaker dams
PAKISTAN	Tarbela Reservoir hydrological and system simulation modelling [Indus River] to investigate extension of operating life of Tarbela through improved operating strategies, or through new engineering.	Reservoir hydrological and system simulation modelling
PAKISTAN	ADB-funded integrated rural development project in DG Khan district of the Punjab: identifying potential sub-projects in the water supply and irrigation sectors for future investment.	water supply, irrigation
PAKISTAN	EC-funded flood rehabilitation project: estimating flood design parameters for various engineering structures on the Jhelum river, modelling the river regime below Mangla dam, and identifying an improved flood control operational strategy for Mangla dam.	flood hydrology, dam flood control
PAKISTAN	Bund Khushdil Khan rehabilitation project: review of the hydrology of NE Baluchistan including the estimation of spate flows in the Surkhab and Tormorgha rivers to assess the scope for improving the yield of the off-stream irrigation reservoir built in the 1890s.	Reservoir yield andn operational studies
PAKISTAN	Reappraisal of the flood control operational strategy for Mangla Dam on the Jhelum river as part of an analysis of design flood levels for a protection bund for Jhelum City	Flood defence studies
PAKISTAN	Review of the scope for rehabilitation of Bund Khushdil Khan, an off-stream irrigation reservoir built in the 1890s	Irrigation planning
PAKISTAN	Mini Hydropower Studies	Mini-hydro
PHILIPPINES	Bicol River Flood Forecasting and Warning System: review of PAGASA proposal, preparation of TOR/Implementation programme and tender evaluation	Flood Forecasting and Warning
POLAND	FAO pilot water resources project	water resources, irrigation
PORTUGAL	Quinta de Carvalhal hydrogeological study,Braga, Northern Portugal: to define locations for drilling production boreholes, water supply	Hydrogeological Study, water supply
PORTUGAL	Tras-os-Montes Rural Development Program : design studies for small irrigation dams in mountainous region, including flood calculations & reservoir yield analysis.	Rural Development, small irrigation dams, flood calculations, reservoir yield analysis.
PORTUGAL	Urgueiriça Uranium Mines : Hydrogeological design of tailings disposal lagoons for the control of ground and surface water contamination.	Hydrogeology, tailings lagoons, radioactive contamination
PORTUGAL	Chaves Valley Irrigation Project : resident hydrogeologist responsible for groundwater studies, the supervision of drilling & geophysical surveys, including photo-interpretation for borehole siting, ground & water table mapping, aquifer modelling, and streamflow gauging.	groundwater development, drilling & geophysical surveys, remote-sensing, finite element modelling
PORTUGAL	Covina Glass Manufacturing Complex : design of water supply boreholes.	water supply boreholes
PORTUGAL	Vale de Lama Project/ Irrigation feasibility study using combined ground and surface water reserves, for the optimal use of land undergoing eucalyptus planting.	eucalyptus plantation, water resources.

PORTUGAL	Eastern Algarve Water Supply Project : assessment of impact on groundwater resources of the project's dams, tunnels, irrigation & water supply works, and development of simulation model for the integral operation of dams on the lower Guadiana tributaries.	water resources simulation modelling, groundwater EIA
PORTUGAL	Somincor Copper Pyrites Mining : hydrological studies associated with design of Cerro do Lobo mine tailings dam, including the development of a water balance model for predicting rates of accumulation of pyrites sludge.	hydrological studies, mine tailings dam, water circulation model
PORTUGAL	Vilar das Almas Mini Hydropower Studies	Mini-hydro and mill rehabilitation
QATAR	Doha Rising groundwater levels project: causes and trends, appraisal of water level monitoring data and background data analysis for a groundwater model of West Bay reclamation project.	Rising groundwater
ROMANIA	Modelling metals on the Mures river system: Acid Rock Drainage WQ study	Water quality modelling
ROMANIA	EIA Rosia Montana mining operations: development of new DISPRIN dispersion model.	Software development, water quality modelling
ROMANIA	Hydrology Research Special Issue papers: 1. Potential benefits of mine cleanup; 2. Accidental pollution	Publications
ROMANIA	preparation of a mathematical model of part of the DaNube delta for strategic planning study	Hydrological modelling
ROMANIA	Danube Delta Biosphere Reserve Authority: strategic plan including hydrological aspects of low-input agriculture, reed growing and water quality; Development of a mathematical model of a critical part of the delta affected by problems of siltation and eutrophication.	water quality, delta model, siltation, eutrophication.
RUSSIA	Strategic and short-term investment plans for the city of Rostov: integrated sustainable water management plan.	water management
RUSSIA	Volga navigation Internal Waterways and River-Sea Transport studies: Preparation of water resources and hydrological study of the Volga and Don to facilitate navigation between the inland waterways of Russia and western Europe.	Hydrological/Hydraulic modelling
RUSSIA, UKRAINE	Trans-boundary project on Severtsky-Donetz: river basin planning using water framework directive, co-coordinating team inputs and editing report.	river basin management plan, Water Framework Directive (WFD).
RWANDA	Kagera River Basin Feasibility Study	Water resources master planning
RWANDA	Bugesera-Karenge Water Supply Project: design review and construction supervision team supervising construction works	water supply
SAUDI ARABIA	Preparation of hydrological design manuals for for flood estimation at road drainage crossings in Saudi Arabia	Flood estimation
SAUDI ARABIA	Stormwater Drainage Studies for Air Base: field inspections and hydrological flood computations.	Stormwater Drainage
SAUDI ARABIA	Flood Estimation in Saudi Arabia: Responsible for the estimation of design floods for the southern storm water channel in Jeddah, using both a regional analysis of instantaneous flood peaks and unit hydrograph/losses model.	Flood Estimation
SEYCHELLES	Estimation of reservoir yield and estimation of spillway design floods for Baie Lazare dam.	reservoir yield, Flood estimation
SEYCHELLES	Analysis of hydrogeological data and results of groundwater investigation programme to assess the sustained yield of three coastal plateau areas for local water supplies in the Seychelles Group.	groundwater investigation, water supply
SEYCHELLES	Catchment and Flood Studies, Ngenya Dam, Kakuzi Ltd, and Baie Lazare Dam: hydrological study (yield, floods, climatology).	Catchment and Flood Studies
SIERRA LEONE	Hydrological Survey	Hydrological Survey
SOLOMON ISLANDS	Variability of tropical rainfall in the Solomon Islands: advice on electronic logging equipment and analysis of data.	tropical rainfall
SOLOMON ISLANDS	Installation of a recording raingauge network on Guadalcanal and assistance with data processing using the micro TIDEDA database	Hydrometric network and database
SOMALIA	Review of existing water utilisation from the Shabeele river in order to study the possibility of using excess river flows to supply the capital city, Mogadishu.	Water supply

SOMALIA	Berbera Dam hydrological studies: surface and groundwater yield studies for new city water supply focusing on the Daban Basin and groundwater flow at Tug Biyoguure.	surface and groundwater yield studies, dam hydrology, dam design
SOMALIA	Mogadishu Water Supply Expansion Scheme. Supervision of wellfield construction (including final design, development and testing); tests of exploration wells for wider regional study of limestone aquifer, and evaluation of well development procedures.	Water Supply, wellfield construction, aquifer tests, regional groundwater study
SOMALIA	Development of a hydrological database and processing system: installation in the offices of the Ministry of Agriculture and Water, Mogadishu, and staff training in hydrological data processing.	HYDATA, staff training
SOMALIA	Review of groundwater data on the Garas Bintow wellfield, Mogadishu water supply	water supply, groundwater development
SOMALIA	Development of a hydrological database and analysis system for the Ministry of Agriculture	Hydrological database
SOMALIA	Hargeisa Water Supply(UNICEF): water resources studies for groundwater, springs and dams, and preliminary engineering designs for various supply options.	Water Supply PED, water resources studies
SOUTH AFRICA	South Africa, Orange River. Water quality study	Water quality
SOUTH KOREA	Korean design manual on flood estimation: Review of existing flow data, regional flood frequency curve and related mean annual flood to catchment characteristics to enable prediction of flood peak at ungauged sites.	flood estimation
SOUTH SUDAN	surface water resource assessment for water supply to 10 State Capitals	water resource assessment, water supply
SOUTH SUDAN	Emergency water supplies and sanitation for Malakal, Torit , Bor , Rumbek , Yambio, Aweil, Bentiu, Wau, Juba , include river intakes, boreholes, water treatment works, pumping stations, storage reservoirs, pumping stations, pipelines	Emergency water supplies
SOUTH SUDAN	Juba Water Supply: assessment of rehabilitation needs, tender documentation, and construction supervision (rehab of 7,200m ³ /day intake on River Nile, treatment works, pipelines and leak detection and rehabilitation, elevated storage tanks).	Water Suppl rehabilitation
SOUTH SUDAN	Urban Infrastructure Project: field studies and masterplans for infrastructure in 11 towns	master planning
SOUTHERN AFRICA	EU SADC-HYCOS project: installation of hydrometric equipment at 50 river gauging stations throughout 10 countries of the SADC (Southern African Development Community) region which report data back in real time using data collection platforms (DCPs) and METEOSAT. The data are combined with data from over 70 existing DCP stations and used to support a range of operational and research applications.	hydrometry, telemetry, DCPs, METEOSAT
SOUTHERN AFRICA	UK DID Study to assess legal and technical aspects of transboundary flows in Southern Africa and Asia.	water law, transboundary water resources management
SPAIN	Review of water resources, flood control & drainage for city of Bilbao	AQUATOR water resources system simulation
SPAIN, CRETE	Numerical catchment models to examine management options and impact of different climate change scenarios as part of EU Framework IV GRAPEŠ Project: groundwater management options for Messara (Crete) and Guadiana (Spain) catchments.	Catchment models, climate change
SRI LANKA	Independent review of spillway design flood estimates for Kotmale Dam	flood estimation, dam hydrology
SRI LANKA	Review of the operational planning of the Mahaweli hydropower scheme to assess the need for short-term operational models.	Hydrpower operational planning
SUDAN	Studies of the hydrology of the Nile in Sudan with reference to reservoir operation including hydropower development at Jebel Aulia and Sabaloga	Nile hydrology, hydropower
SUDAN	New Halfa rehabilitation scheme: Operational study of the Khashm el Girba reservoir on the upper Atbara river in Sudan with particular emphasis on the effects of sedimentation	Reservoir sedimentation
SUDAN	Water supply of Port Sudan: review of the surface water resources of Khor Arba'at, and the potential for surface storage in hafirs and recharge of shallow alluvial aquifers.	Water supply, water resources, hafirs, aquifer recharge
SUDAN, UGANDA	Sub-Saharan Hydrological Assessment Group(IGAAD) countries: Assessment of national hydrogeological data, institutional capacities, preparation of hydrogeological maps and recommendations for improving monitoring networks.	hydrogeological data, institutional capacity, hydrogeological mapping, groundwater monitoring

SWAZILAND	EDFLower Usuthu Smallholder Irrigation Project: review of water resources, network modelling for off-stream storage and irrigation evaluation, floods for dam and diversion works, and sediment.	Irrigation network modelling, water resources, flood estimation, dam hydrology, sediment.
SWEDEN	Global International Waters Assessment project to undertake a global assessment of environmental issues on transboundary fresh, coastal and marine waters throughout the world: establishing network of 29 collaborating institutes in the Southern Hemisphere and contributing to the freshwater aspects of the assessment methodology.	transboundary freshwater monitoring
SWEDEN	Development of a new version of INCA for Mercury applied to the Gardsjon catchment	Water quality modelling
SWEDEN	Swedish Modelling System Review	Water quality modelling
TANZANIA	Development of a Future Water Source for Dar es Salaam Study: study of 24 possible options for enhancing the water supply to Dar es Salaam. Surface water options included impounding dams, off-river storage dams, bunded dams, transfer of water from neighbouring basins by means of pumping and gravity canals, watershed management, reducing upstream abstractions, and raising river embankments.	Water resource development studies
TANZANIA	Sustainable Management of the Usangu Wetland and its Catchment Project: hydrological recommendations on the fluctuations of outflow from this wetland in south west Tanzania. This outflow contributes as inflow to two existing major hydroelectric schemes in the centre of the country supplying Dar es Salaam and other towns, as well as providing an important water supply to one of the National Parks.	Wetland hydrology
TANZANIA	Arusha Region Water Master Plan: A programme of field work was initiated including re-habilitation of gauging stations and installation of new hydrometric stations. Advice on data analysis for resource estimation. Installation and training in the use of HYDATA.	Hydrological database, HYDATA
TANZANIA	Lake Victoria Control Rules	Hydropower, operational rules
TANZANIA	Failed earth dams: flood hydrology and sizing spillways, WATERAID.	flood hydrology
TANZANIA	Ngorongoro Conservation Project: infrastructure & water studies, water resources mapping: World Heritage site.	water resources mapping
TANZANIA	Arusha, Moshi, Tanga, Morogoro Water Supplies: hydrological study of rivers, springs and two existing dams for 4 townships water supplies.	hydrological studies, water supply
TANZANIA	Mwanza Urban Sewerage System Rehabilitation Project: design reviews and supervision of construction of sewerage system and wastewater treatment facilities (ponds).	Sewerage rehabilitation
TANZANIA	Shinyanga & Kahama Water Supplies (intake on Lake Victoria, 200km of ND400mm pipeline, 80,000m ³ /day treatment works, storage reservoirs, reticulation systems in two towns, village bulk supplies): EIAs, hydrological studies for a dam supplying Shinyanga, social studies, topographical survey, engineering designs and tender documents.	hydrological studies, water supply, dam EIA
TANZANIA	Naming'ongo Smallholder Irrigation Scheme Pre-Feasibility Study and workshop ASPSP Programme 1,800ha scheme: fieldwork, flood hydrology & climatology, review of EIA, engineering designs and cost estimates.	flood hydrolog, EIA, engineering design, cost estimation
TANZANIA	Lumuma Smallholder Irrigation Scheme (DANIDA), ASPSP Programme: community inter-active 890ha design and field setting out of irrigation systems, flow measurement at hydrometric stations.	irrigation systems, streamflow measurement
TANZANIA	Baseline Surveys for 4 smallholder irrigation schemes, ASPSP Programme (DANIDA): Lumuma 890ha, Utengule / Usongwe 615ha, Irindi 516ha, Nyanzwa 767ha, workshop with stakeholders: soil surveys, hydrology study, socio-economic surveys, topographical mapping, and concept designs.	soil surveys, hydrology study, socio-economic surveys, concept design.
TANZANIA	River Basin Management and Smallholder Irrigation Improvement Programme (IDA): design and construction supervision for 13 smallholder irrigation schemes.	smallholder irrigation
TANZANIA	Water and wastewater design construction supervision for the Northern Circuit Lodges (Lake Manyara, Ngorongoro, Serengeti)	Water supply, wastewater
THAILAND	An irrigation submodel was developed to determine the performance of typical irrigation schemes in the north east region.	irrigation modelling
THAILAND	Estimation of the water balance of an ornamental lake in Bangkok and recommendation of lake management strategies.	water balance modelling

THAILAND	Appraisal of existing flood alleviation and control facilities and review of existing flood forecasting facilities for the 50,000 km ² River Chi basin in N.E. Thailand.	flood alleviation, flood forecasting
THAILAND	Planning study of the Songkhla Lake basin: water resource evaluation and generation of daily river flows in all the rivers entering the lake, to assess nutrient and sediment loading rates on lake eutrophication, for environmental impact study.	lake hydrology, EIA
THAILAND	Locally Administered Water Supplies Review : Hydrological analysis of ground and surface water data for 28 towns requiring rehabilitation and expansion of their water supply systems, involving river regulation and diversion schemes for power production, irrigation and navigation, and wellfield supplies. Key problem areas addressed were: low river flows with agricultural and industrial pollution; groundwater over-exploitation, salinization and iron contamination	groundwater and surface water hydrology, water supply, low river flows, groundwater over-exploitation, salinization and iron contamination
THAILAND	Bangkok Water Supply privatisation project: hydrological assessment of water sources	hydrological assessment
THAILAND	Study of the hydrology of the Songkhla Lake basin in southern Thailand and the development of parallel time series of river flows in all the rivers entering the lake	Hydrological modelling
THAILAND	Review of the water resources of the Lower Mekong and its tributaries including changes in the low flow regime: Developed procedures for estimating low flows on ungauged catchments.	low flows, hydrological modelling
THAILAND	NE Thailand Mekong Secretariat: analysis of the areal coherence of rainfall and the accuracy of estimation of areal rainfall and runoff predicted by basin models used in reservoir analysis.	hydrological modelling, reservoir yield
THAILAND	Impact of deforestation, changes in cropping pattern, and irrigation and hydropower development in NE Thailand on the hydrology of the Mekong.	Hydropower hydrology
TURKEY	Green River Basin studies: Water quality modelling	INCA Water quality modelling
TURKEY	Regional nutrient reduction programme for the Black Sea basin (GEF/UNDP): Review of policy and legislation for regional protection of surface waters from nutrients; Development of a preliminary set of Black Sea ecosystem indicators based on the GEF's process, stress reduction and environmental status framework.	Nutrients, policy and legislation, ecosystem indicators, environmental status
TURKEY	Study of the environmental impact of sewerage schemes and tourism on Lake Köycegiz and Dalyan Beach in southern Turkey	Water quality studies
TURKEY	The Goksu delta water balance studies	Water balance studies
TURKEY	Yesilirmak River Basin study: investigation of impact of climate change on flow, using HYSIM rainfall-runoff model	HYSIM modelling
TURKEY	IUCN Göksu delta project: hydrometric data collection and mathematical modelling of the lagoons in the delta to study interchanges of water between lagoons and sea.	hydrometric data, tidal lagoon modelling
TURKEY, UKRAINE	Black Sea Commission River Basin Management: application of EU water management techniques on river basins flowing into the Black Sea, to establish the practices of the WFD in its six member countries.	River Basin Management, WFD
UAE	Groundwater and hydrology components of safety review and inspection of 17 wadi dams, developing maintenance programme and plan to resolve dam leakage	PACH
UAE	Design review of 53 wadi dams and aquifer recharge facilities in the Jabal Hajjir in Northern Emirates, including rainfall and runoff analysis, flood and yield prediction and report writing in Lebanon	Dams, Groundwater recharge, dam inspection, safety, flood hydrology, yield
UAE	Annual safety Inspection of wadi dams in the Northern Emirates	Dam safety inspection and maintenance
UAE	Review of leakage at 8 recharge dams and rehabilitation of Al Dhaid, Al Mualla and Filli falaj systems	Falaj groundwater studies, dam leakage
UAE	Jebel Ali Groundwater Study : design of groundwater investigation programme to establish contamination at existing hazardous waste disposal site	groundwater investigation, hazardous waste contamination
UGANDA	Mini Hydropower Studies	Mini-hydro
UGANDA	Wetland Hydrology, Murchison Bay Hydrodynamic Study. hydrological analysis and field sampling programme.	Wetland hydrology
UGANDA	Uganda Hydropower Master Plan: Uganda non-Nile hydrological database for run-of-river yields.	Hydropower hydrology

UGANDA	Karamoja Animal Watering Project: hydrological studies for several small dams.	Dam hydrology
UGANDA	Mid-Western Towns Water & Sanitation project: water resources studies, EIA, bathymetric survey of existing dam, and engineering & economic feasibility studies .	water resources studies, EIA, bathymetric survey, engineering feasibility studies
UGANDA	Strengthening of Water Resources Monitoring and Assessment Services Project: Institutional strengthening of Water Resources Management Department, focusing on monitoring networks (surface water, groundwater, water quality and climate), the water quality analysis laboratory and the water resource assessment capability.	Institutional strengthening, hydrometric networks, water laboratory, water resource assessment
UGANDA	Danida-funded project to support the Water Resources Management Department: completion of on-going hydro-climate and low flow studies, initiation of a river basin modelling programme and wetland studies, and capacity building in database management.	low flows, river basin modelling, wetland hydrology, database management.
UK	INCA chalk – River Lambourn	INCA
UK	Application of INCA-P to Kennet and Lambourn: Assessment of sewage phosphorus on ecology for AMP4.	INCA-P
UK	Thames Water AMP5 Investigation – Kennet River and Canal	National Environment Programme
UK	Phosphorus Recycling and Co-Precipitation Mechanisms in the River Kennet	Phosphorus Recycling
UK	AMP4 pilot catchment studies - scoping studies to define TOR & costs for Crowhurst Bridge & Pembury Springs	Groundwater studies, HYSIM modelling
UK	Pembury Springs Investigation	Groundwater, HYSIM modelling, DO
UK	Mini Hydropower studies conducted at Woolstone Mill [Oxon], Longwick Mill [Bucks], Bocking [Essex], Vilar das Almas [Portugal], Waterbury Mill, Horsted Keynes [Sussex]	Mini-hydro
UK	Expert witness at flood enquiry: Waltham St Lawrence Parish Council	Flood appraisal
UK	Flood Forecasting Modelling Platform – Environment Agency Southern Region	Flood forecasting
UK	Flood Risk Assessment	Flood Risk Assessment
UK	Woolstone Mill: Brief hydrological and water engineering survey prior to purchase	Flood risk assessment
UK	Flood risk assessment modelling for Chelworth Lodge	Flood risk assessment
UK	Post-flood analysis for School House, Marston St Lawrence	Flood risk assessment
UK	North Moreton, Flood Risk Assessment	Flood risk assessment
UK	Flood risk assessment for a temporary Travellers park near Cricklade, Oxfordshire, including hydraulic modeling to determine flood extent. A. Olding Esq.	Flood risk assessment, HEC-RAS modelling
UK	Review of Flooding in the Thames Valley	Flood studies
UK	Flood Study for Killingholme Power Station on the Humber Estuary	Flood studies
UK	Flood Appraisal	Flood studies
UK	Coldwell Brook flood study [Ascott-under-Wychwood]: flood estimation, tracer test, hydraulic studies of stream, testing options to improve flooding in this Oxfordshire village	Flood study, ISIS modelling
UK	Development of the HYDATA hydrological database and analysis system for the Institute of Hydrology, Wallingford	Hydrological database
UK	Southern Region, Environment Agency: Improvement of the accuracy and lead time of forecasts linked to their real-time telemetry system	Real-time Flood forecasting
UK	Real-time linkage between radar-measured rainfall linked to a rainfall-runoff model in the River Dee	Real-time Flood forecasting
UK	Flood Forecasting modelling Platform for Environment Agency	Flood Forecasting

UK	Essex. Wix Flood study	Flood risk assessment
UK	Development of Water Resource system models to allow deployable output assessmen	Aquator
UK	Water resource modelling for Thames Water	Aquator water resources system modelling
UK	Inverness/Nain AQUATOR optimisation of water supply loch and river sources	Aquator-GA
UK	SNIFFER: catchment rainfall-runoff models and water resource system simulation	Aquator-Hysim modelling
UK	Method and Software development for estimation of long-term water resources availability in Scotland and Northern Ireland for the Scotland and Northern Ireland Forum for Environmental Research (SNIFFER): AQUATOR-HYSIM rainfall/runoff modelling to take account of hydrological characteristics of particular interest including snow-melt and peat catchments. National adoption of methodology by all organisations with water resource responsibilities in the Northern Ireland and Scotland.	Aquator-Hysim modelling, software development ad beta-testing
UK	Woburn Water Strategy Phase 3 – Woburn Safari Park water supply, Woburn Lakes studies.	Aquator-Hysim, Hydroecology
UK	Surface Water Yield project in Scotland and N.Ireland for SEPA/Water Authorities incl Hysim-Aquator development	Aquator-Hysim modelling
UK	Loch Lomond-Katrine Conjunctive Use Modelling	Aquator-Hysim modelling
UK	Barlaston Groundwater study – preliminary evaluation	Bottled mineral water
UK	Heddon Camp Industrial estate: contaminated ground Risk Assessment.	contaminated ground
UK	Deployable Output assessment of groundwater source	Deployable output assessment
UK	Development of Drought Reliable Output Program (DROP)	DROP software
UK	Review of Water Framework Directive [WFD] Decision Support System	EU WFD
UK	Review Cookham Remedial Works : Independent review of Environment Agency flood defence scheme for Cookham in Berkshire	Flood defence
UK	Bourne End: Flood risk insurance study for The Ridings	Flood risk assessment
UK	Bourne End: Development related flood risk assessment for properties on Riverside	Flood risk assessment
UK	Marlow: Flood risk insurance study for Riverways.	Flood risk assessment
UK	Flood risk insurance study, Riversdale House, Bourne End.	Flood risk assessment
UK	Longwick Mill Flood Risk Insurance Study [Bucks]	Flood risk assessment
UK	Butts Legh: Cookham Flood Risk Assessment	Flood risk assessment
UK	Flood risk assessment, Kennel Cottage, Cornbury Park	Flood risk assessment
UK	Witney, Madley Brook Community Hall FRA	Flood risk assessment
UK	Flood Risk Assessment – Park Hills.	Flood risk assessment
UK	Thames Valley Flood Risk Action Group: investigation of 2003 flooding and support of FRAG to produce Mechanism of flooding report	Flood studies
UK	Bewl-Darwell Model Audit and Re-audit	Fortran programmig
UK	E Sussex: Wallers Haven Hydrological Study [with Geodata]	GIS, Hysim modelling, Hydraulic modelling
UK	Harleyford Golf Club expansion of irrigation water supply.	Groundwater development
UK	Woburn Phase 3 – Irrigation water supply for Woburn golf club, involving design/construction of new boreholes	Groundwater development

UK	Nutfield Marsh, Redhill. Hydrological appraisal of sand extraction, for public consultation	Groundwater study
UK	Woburn water strategy phase 2 - Pinfold groundwater and Woburn Lake water supplies.	Groundwater, Aquator-Hysim modelling
UK	Southern England: Cockhaise Groundwater Study	Groundwater, deployable output
UK	Hampshire: Lasham Deployable Output Assessment.	Groundwater, deployable output
UK	Hydrological Appraisal of Sand Extraction	Hydrogeological studies
UK	Flow data were collected for the Rother at Udiam and two upstream flow gauging stations	Hysim modelling
UK	WRA catchment model, HYSIM, was used with all available rainfall, discharge, PE and artificial influence data for the Sussex Ouse	Hysim modelling
UK	Reservoir study for British Waterways	Hysim modelling
UK	Flow record for the Western Rother	Hysim modelling
UK	Simulation of flow of Sussex Ouse	Hysim modelling
UK	The HYSIM model was calibrated to three sub-catchments in the River Rother basin	Hysim modelling
UK	HYSIM modelling of the Sussex Ouse for the Environment Agency	Hysim modelling
UK	16 Reservoirs Inflow Study [Hysim modelling]	Hysim modelling
UK	W Sussex: Flow Record for the Western Rother	Hysim modelling
UK	Supplementary Sussex Ouse HYSIM modelling	HYSIM modelling
UK	British Waterways Priority Reservoirs Inflow Study [BW11Res]	Hysim modelling
UK	River Rother: Identification of all surface and groundwater issues, review of data, data infilling through regression, low flow frequency studies and operational recommendations	Hysim modelling and analysis
UK	HYSIM Improvements for Drought Forward Planning	Hysim modelling and software dev
UK	HYSIM model development for South East Water drought forward planning	HYSIM modelling, drought
UK	British Waterways CIS03 project: Catchment inflow studies	HYSIM modelling, PET simulation
UK	British Waterways RRM05 Rainfall Runoff Modelling: Crinan Canal, Rochdale & Huddersfield Narrow Canals	HYSIM modelling, PET simulation
UK	.Kings Lynn Paper Mill: hydrological, hydraulic modelling and water quality study to support application for abstraction licence for water supply and effluent discharge for proposed new mill.	HYSIM, PET, ISIS, Aquator
UK	Bonar Bridge Water Supply: Hysim-Aquator rainfall-runoff and water resource system modelling to determine hydrological and operational yield for licence application	Hysim-Aquator, water supply
UK	Land Drainage and Resurfacing Scheme [Land drainage tests and design] for Walney Wind Farm, Mostyn Port, N Wales.	Land drainage, Geotechnical engineering
UK	Hydrogeological reports to assist five farms in Oxfordshire, Bucks and Hampshire to appeal against the designation of nitrate vulnerable zones, following introduction of new legislation. Merrimoles Farm/Bix dairy.	Nitrates Directive
UK	Horsemoor Reservoir: planning, design, EIA, construction supervision, for irrigation of three championship golf courses at Woburn Golf Club, Bedfordshire	Reservoir design, EIA, construction
UK	Research into probability matrix methods applied to the analysis of monthly and annual reservoir operation.	Reservoir operational studies
UK	PENSE Retrospective computation of PE throughout the Southern Region of the Environment Agency.	Software for Evapotranspiration

UK	Woburn Golf Club Irrigation Supply - Phase 4 Options for Construction of non-impounding raw water reservoirs	Water master planning, reservoirs
UK	Development of Drought Reliable Output Program (DROP) - WRAPSIM	Water resources system simulation
UK	Severn-Trent Deployable Output assessment - using HYSIM-RESSIM	Water resources system simulation
UK	Woburn Water Strategy for the Bedford Estates: new water supplies for Bedford Estates and Enterprises, involving groundwater development and hydrological model of the Woburn Lakes for Woburn Golf Course and Woburn Safari Park	water supply, water audit
UK	Catchment sensitive farming policy	agriculture
UK	Modelling agricultural mitigation studies on the River Lugg	Agriculture
UK	Catchment Sensitive Farming Measures	Catchment Sensitive Farming
UK	Catchment Sensitive Farming –Nutrient reduction assessment	Catchment Sensitive Farming
UK	Review of Climate Change on Rivers and Lakes in UK.Climate Card, on impact on freshwater, and how to react, following Marine Sciences approach	Climate Change, EA Climate Card
UK	UKWIR – Climate change and water quality from the water industry perspective	Climate change, water quality
UK	Impact of climate change on water quality.	climate change, water quality.
UK	Water quality spreadsheet model incorporated into GIS with Jeremy Benn Assoc.	GIS, WQ modelling
UK	National Power WQ modelling.	INCA modelling
UK	DEFRA Review of mercury in UK rivers.	INCA, WQ modelling
UK	Mercury modelling using INCA-C	INCA-C
UK	R Eden INCA study [investigative 2yr research project] BGS running GW model, INCA driving surface chemistry input	INCA-Groundwater link
UK	River Wensum model of N & P & impact of catchment sensitive farming programme	INCA-N, INCA-P
UK	Use of INCA-N and INCA-P for EA library of data and model applications.	INCA-N, INCA-P
UK	Multi-reach version of phosphorous model	INCA-P
UK	Extension of INCA-P modelling for Rivers Tame and Anker	INCA-P
UK	UKWIR project on P control Measures in Catchments	INCA-P
UK	River Anker and Tame WQ modelling – to investigate P pollution levels from Severn-Trent sewage works	INCA-P, WQ modelling
UK	UK critical load: Assessment of atmospheric pollution loading on UK lakes.	Lake modelling
UK	Palaeo-hydrology and hydrogeology of the Upper Kennet at Silbury Hill in 4200 BP	Palaeo-hydrology and hydrogeology
UK	Silbury hill, paleohydrology	paleohydrology
UK	Phosphorus life cycle management, land to river flux transfers	Phosphorus life cycle
UK	Phosphorus Life Cycle Analysis	Phosphorus Life Cycle Analysis
UK	Kennet River, Berkshire. Preparation of review paper under Water Framework Directive	Water Framework Directive
UK	Scoping study for chalk stream demonstration sites	Water Quality
UK	Water Quality review of Abberton Reservoir, Essex	Water quality

UK	Review of the INCA model for the EA Decision Support Tool	Water Quality modelling
UK	Impact of phosphorus removal from effluent on the water quality	Water Quality modelling
UK	Assessment and Modelling of Mercury in British Rivers and Lakes	Water Quality modelling
UK	Uncertainty Analysis of Critical Load Models	Water Quality modelling
UK	Integrated Nitrogen in Catchments Model (INCA)	Water Quality modelling
UK	REFRESH – Water quality modelling of the Thames	Water quality modelling
UK	Environment Agency Review of River Thames vulnerability report	Water Quality risk
UK	Surface Water Yield – Software Implementation in Scotland and N.Ireland	Aquator-Hysim modelling
UK	Thames River regulation modelling using Aquator-Hysim	Aquator-Hysim modelling
UK	Estimation of missing artificial influence data. EA R&D review to lead to national recommendation of best practice.	artificial influence
UK	Effects of climate change on Severn/Trent deployable output	climate change
UK	Essex: Bocking Mill Flood Appraisal, R Pant, Braintree.	Flood risk assessment
UK	Killingholme Power Station, flood appraisal.	Flood risk assessment
UK	Eastern England: Study of flooding of 2 properties at Fambridge.	Flood risk assessment
UK	HYSIM rainfall/runoff model was calibrated to six years of recent flow data for which data on abstractions for the River Trent	Hysim modelling
UK	Severn-Trent water: Production of a long-term flow record for all the major surface resources	Hysim modelling
UK	Bristol Water inflow data	Hysim modelling
UK	Medway-Rother-Brede: Hysim modelling to evaluate accuracy of Imperial College's Hycom model and update flow record.	Hysim modelling
UK	HYSIM modelling of Mendip catchments feeding Chew Valley Lake, Blagdon Lake, Cheddar & Winford Reservoirs.	HYSIM modelling, PET simulation
UK	Calculation of Potential Evapotranspiration in SE England	PENSE software
UK	PENSE Update for SE England, Environment Agency	PET software
UK	Updating PET for Wales.	PET software
UK	Welsh Water Catchment Modelling and monthly PET simulation.	PET, HYSIM modelling
UK	Resources study of Severn and Trent	Water resources system modelling
UKRAINE	Reservoir operation of pump-storage hydropower scheme on the Dniester river and contributing to assessment of ecologically acceptable flows.	Hydropower hydrology
UKRAINE	EU Water framework River basin management studies	EU WFD
UKRAINE	Vodokanal's Environmental Protection and wastewater treatment laboratory facilities in Zaporozhzhia (EU TACIS): liaison with donor organisations for updating facilities and procurement of equipment and training of staff for procedures of quality control.	wastewater laboratory, procurement, training, quality control.
UKRAINE	Black Sea Environment Programme (EU TACIS): policy and legislation for environmental standards for water, sediment and biota for the management of the Black Sea: Technical support of Programme Implementation Unit in Istanbul, and liaison with regulatory and technical specialists in Bulgaria, Georgia, Romania, Russia, Turkey and Ukraine.	water policy, legislation, environmental standards

UKRAINE	EU flow forecasting system for Ukraine and adjoining countries (Hungary, Romania and Slovak Republic) in Tisza River Basin: water level and precipitation measurement and radio networks for improved communication, using HYSIM rainfall runoff model to provide long term estimates of flood potential.	flow forecasting, HYSIM rainfall runoff
USA	USA Dept of Energy project "Enhancement of oil recovery using subsurface microorganisms", University of Oklahoma	oil recovery
WINDWARD ISLANDS	Dominica and St Lucia irrigation development and crop diversification FAO-TTD projects: assessment of water resources, crop water requirements and flood statistics for many candidate project areas on using regional techniques.	water resources, crop water requirements, flood statistics
WORLDWIDE	Analysis of the flood frequency behaviour of sub-regions of 70 countries of the world: Annual maximum flood data have been analysed in a consistent manner in all cases to allow comparisons of the flood frequency regime of different countries.	Regional flood estimation
YEMEN	Pre-Investment Mission for proposed irrigation development schemes in western Yemen.	Groundwater development, irrigation
YEMEN	Sayhut & Noujad Dam feasibility Studies: hydrogeology, hydrology and geotechnical assessment, including Hadramawt Al Masilah drainage basin and Socotra Island.	Dam hydrology, Groundwater
YEMEN	Analysis of the statistics of daily rainfall for generation of spate flood series in the Tihama plain	Arid zone rainfall
YEMEN	Technical support for countrywide water resource assessment and modelling to support water sector master planning	Water Resource master planning
YEMEN	Development of a semi-distributed daily rainfall-runoff model using the SCS method: used with a synthetic rainfall model to assess long-term runoff, and hence surface water resources, for the northern part of Yemen as a contribution to a national water resources master plan study.	SCS rainfall-runoff modelling
YEMEN	Hydrological studies of flooding around the historic walled city of Shibam	Flood studies
YEMEN	Master Water Plan for Yemen: production of national hydrogeological and groundwater resources reports, supervision and training of local staff	Groundwater management, hydrogeology, training
YEMEN	Development of Wadi flood warning procedure to assist in operation of irrigation schemes.	Wadi flood warning
YEMEN	World Bank-funded investigation of the design and rehabilitation of small dams to ensure dam safety and effective use of resources: defining the resource balance – using rainfall simulation, runoff modelling and GIS – to assess the scope for alternative operational strategies to maximise project benefits through improved management.	rainfall simulation, runoff modelling, GIS
YEMEN	World Bank-funded irrigation improvement project aiming to introduce participatory water management to spate irrigation systems: defining the flood regime of several major wadis in order to define the options for efficient spate control and use, the scope for flood warning and improvements to the monitoring networks	flood hydrology, spate control, flood warning, hydrometric networks
YEMEN	UNDTCD Technical Secretariat of the High Water Council: water resources analysis and the modelling of water systems to support sectoral master planning.	water resources analysis, hydrological modelling, master planning
ZAMBIA	North-West Lusaka Water Supply Project: hydrogeological studies, EIA, preparation of engineering design and tender documents for 80 MLD water supply	water supply, hydrogeology, EIA, engineering design, tendering
ZAMBIA	Lusaka Water & Sewerage Co Rehabilitation Project: design studies, groundwater investigations, detailed design, tender document, and construction supervision.	water supply, hydrogeology, engineering design, tendering, construction
ZAMBIA	Installation and Population of Hyddata system to process the country's hydrometric records.	hydrological database
ZIMBABWE	Review of the hydrology of the Zambezi	Hydrological studies
ZIMBABWE	Marovanyati & Silverstroom Irrigation Feasibility Study (KFAED): soil surveys, socio-economic surveys, hydrological studies and EIAs for 2 large dams, 5,000ha schemes, preparing designs and feasibility study reports.	soil surveys, socio-economic surveys, dam hydrology, EIA, feasibility study
ZIMBABWE	Stochastic rainfall-flow models developed and used to generate synthetic data for the Zambezi river study.	Hydrological modelling

ZIMBABWE

Review of the hydrology of the Zambezi: assessing apparent changes in the regime of the Upper Zambezi in order to define a basis for further hydropower development at Kariba.

Hydropower hydrology