

Global Runoff Data Centre
Federal Institute of Hydrology
Koblenz, Germany

Report No. 24

**Use of GRDC Data
1993 - 1999
A Comprehensive Summary**



November 1999

Global Runoff Data Centre
Federal Institute of Hydrology
Kaiserin - Augusta - Anlagen 15 - 17
56068 Koblenz
Germany

Phone +49 261 1306 5224
Fax +49 261 1306 5280
Email (SMTP): grdc@bafg.de

Foreword

A global hydrological database is considered essential for research and application-oriented hydrological and climatological projects at global, regional and basin scales. This includes Water Balance Studies, investigation of trends in long-term hydrological time series, coupling of hydrological and meteorological models, flux of fresh Water and pollutants into the Oceans, and the coupling of runoff with Water quality Data.

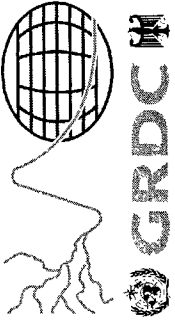
The documentation of the use of GRDC Data is an important indicator of the kind of Data and services which users prefer to obtain from GRDC. This information enables GRDC to recognize priorities for Data acquisition and to further develop its service capacity. Likewise, the documentation of Data use is a feed-back to the providers of national hydrological Data and the global research community who wish to know which kind of research is undertaken with Data submitted to the Global Runoff Data Centre (GRDC). In this manner it becomes evident, that many contributing hydrological services of the world cooperate in a joint effort to enable GRDC to compile and maintain a truly global hydrological archive. So far, 144 countries have contributed Data to GRDC, which contains daily and monthly discharge Data from more than 3900 river basins worldwide.

The following summary of the use of GRDC Data shows the increase of demand for regional and global discharge Data and the trend of research priorities. In the past years, Hydrometeorological modeling and the request for advisory services i.e. for regional and global freshwater assessments has been constantly rising. Climate and ocean related research, where discharge Data are used for the validation of global Climate models traditionally have a comparatively high number of requests for Data and information. Regional interests can also be linked to research and interests in the management of transboundary rivers.

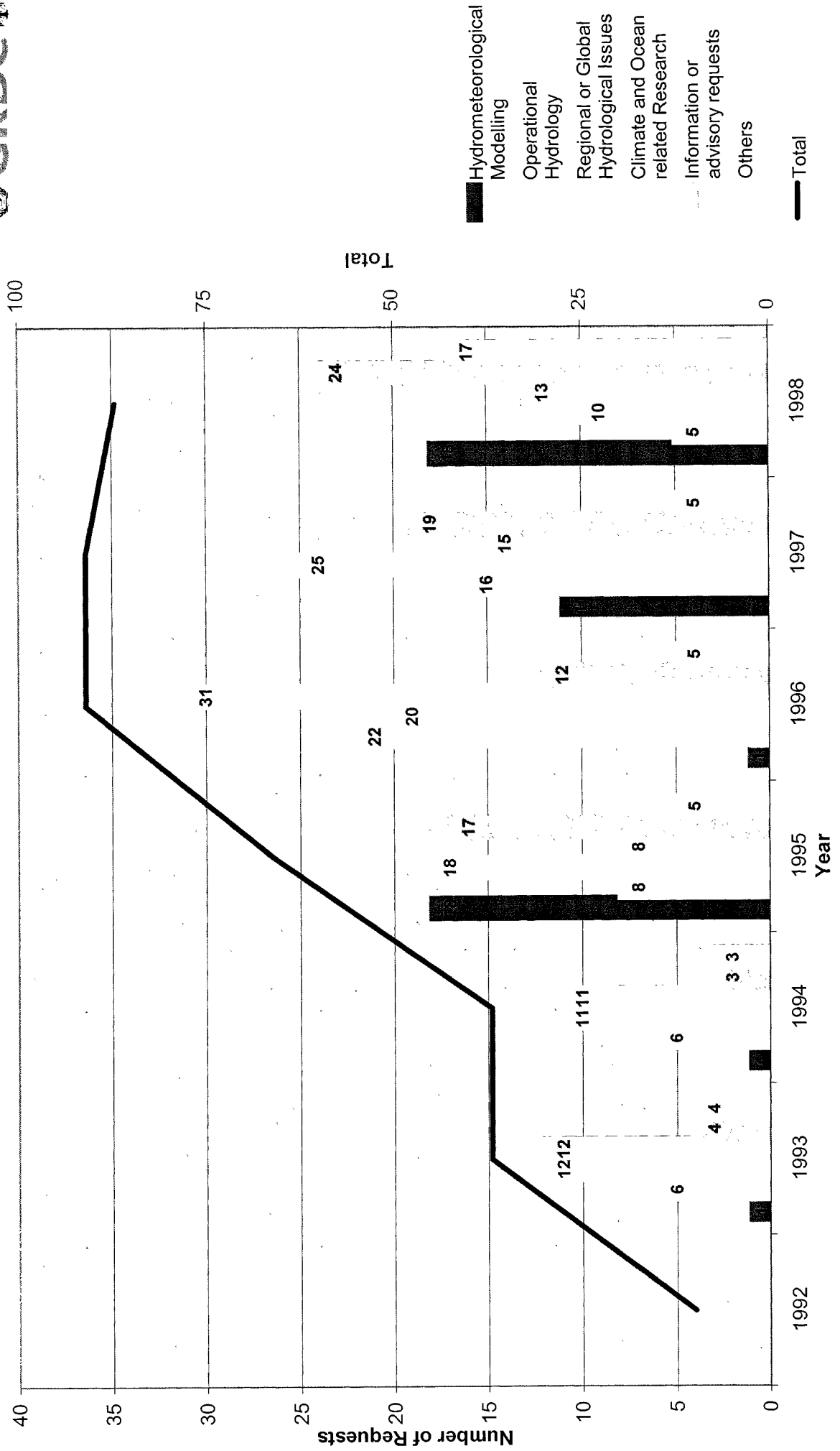
The first page of the report shows the categorized use of GRDC Data; the following pages depict the global coverage of received Data and the size of basins including sub-basins of large rivers. The figure showing the availability of Data along the time-line demonstrates, that on average the time-lag between observations and transfer of Data to GRDC from many services takes years. This limits the use of Data especially when the use of hydrological Data is coupled with satellite observations and is embedded in models/assessments using most recent information. This is clearly a subject which needs attention from Data providers. In this respect, several countries are now publishing hydrological Data on the Internet, and some other services send their Data on an annual basis to GRDC.

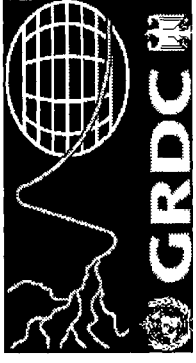
Readers of this report are invited to contact GRDC if direct contacts are requested to some of the listed research institutions or individual researchers. All institutions and researchers have been registered as users of GRDC Data and have complied with GRDC's policy for the use of GRDC Data.

Dr. Wolfgang Grabs
Head, GRDC

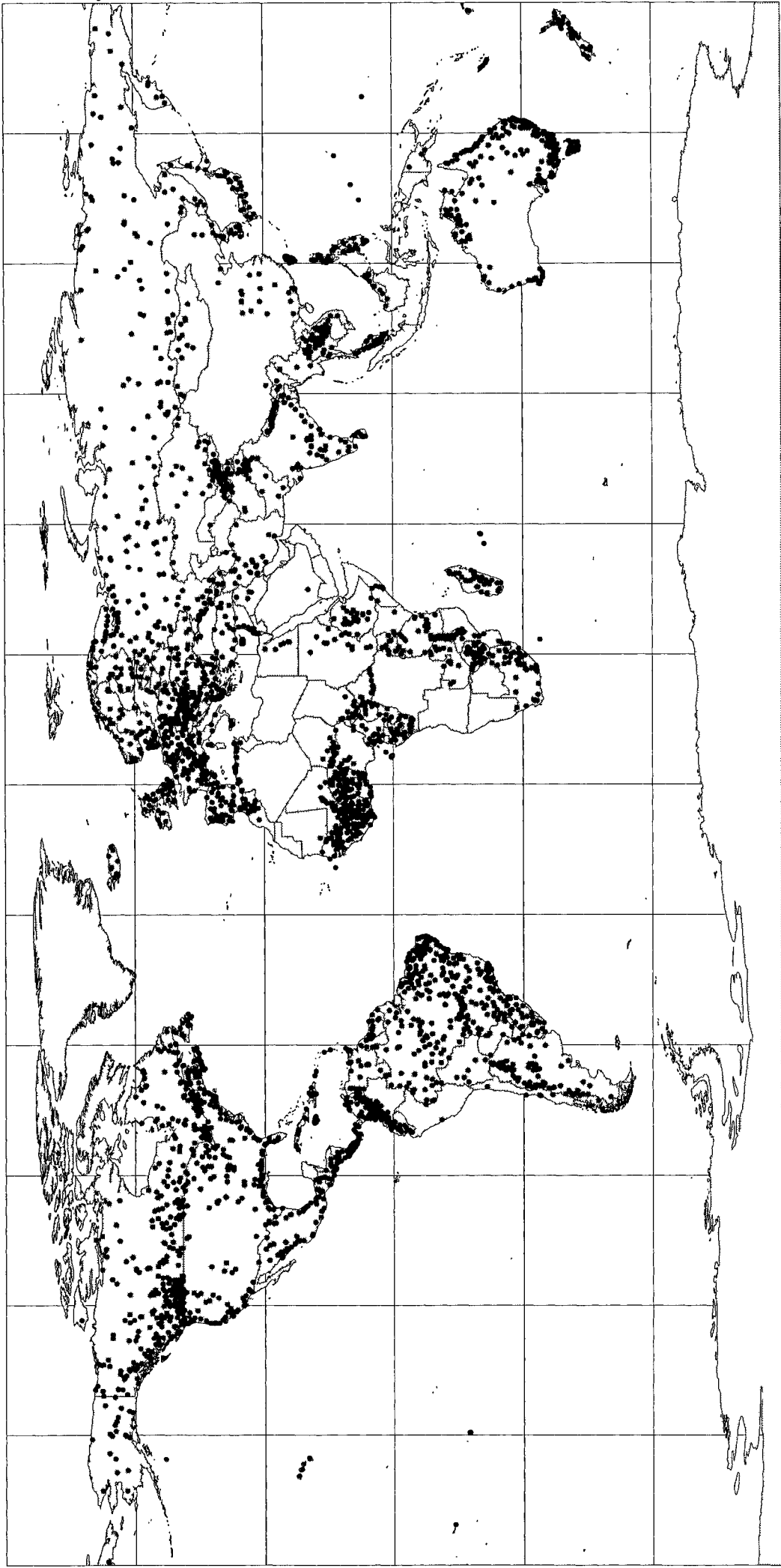


GRDC-Database Requests 1992 - 1998



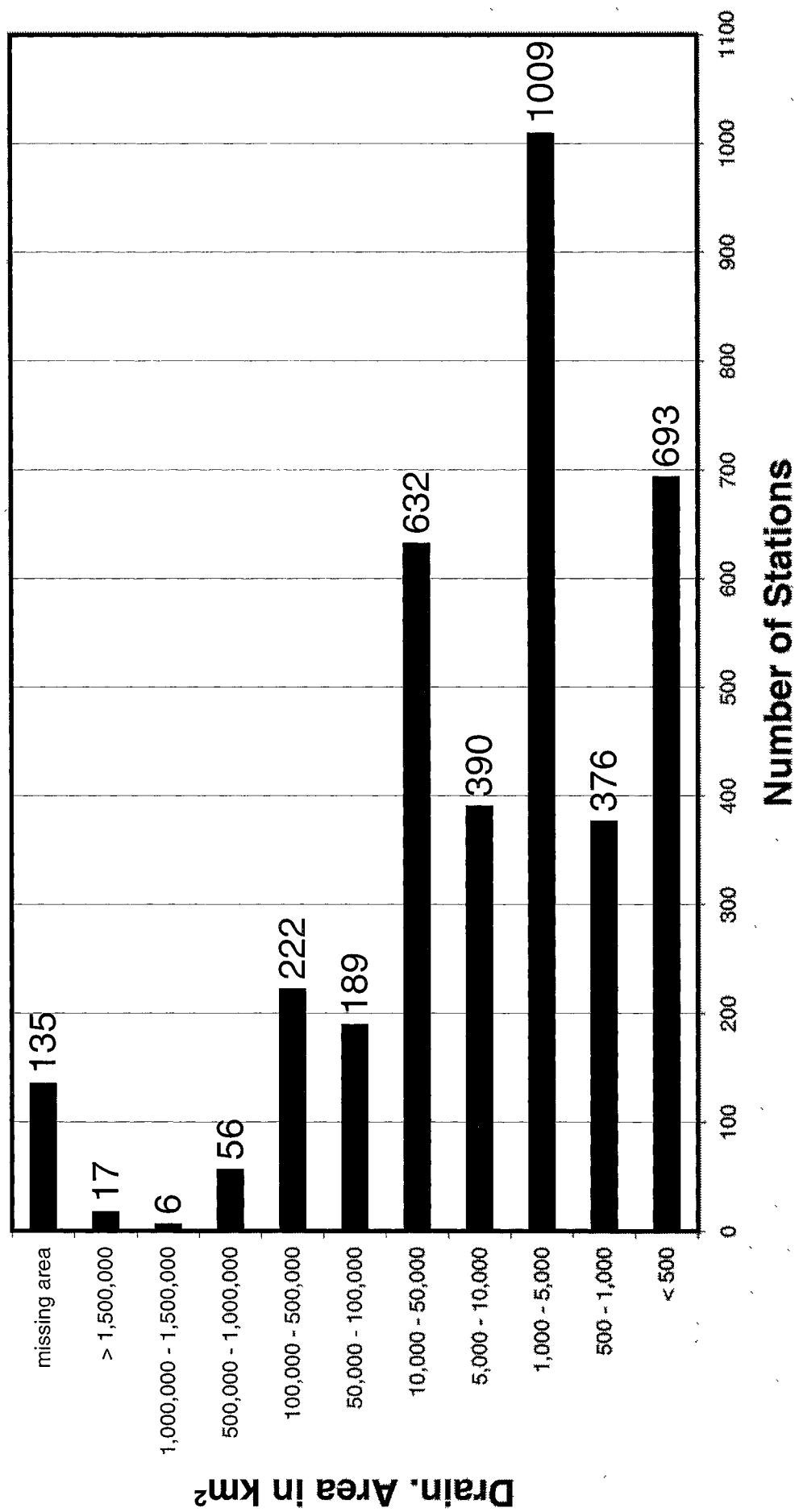


GRDC STATIONS
Status : July 1999



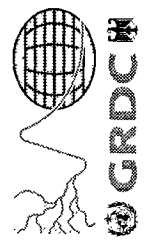
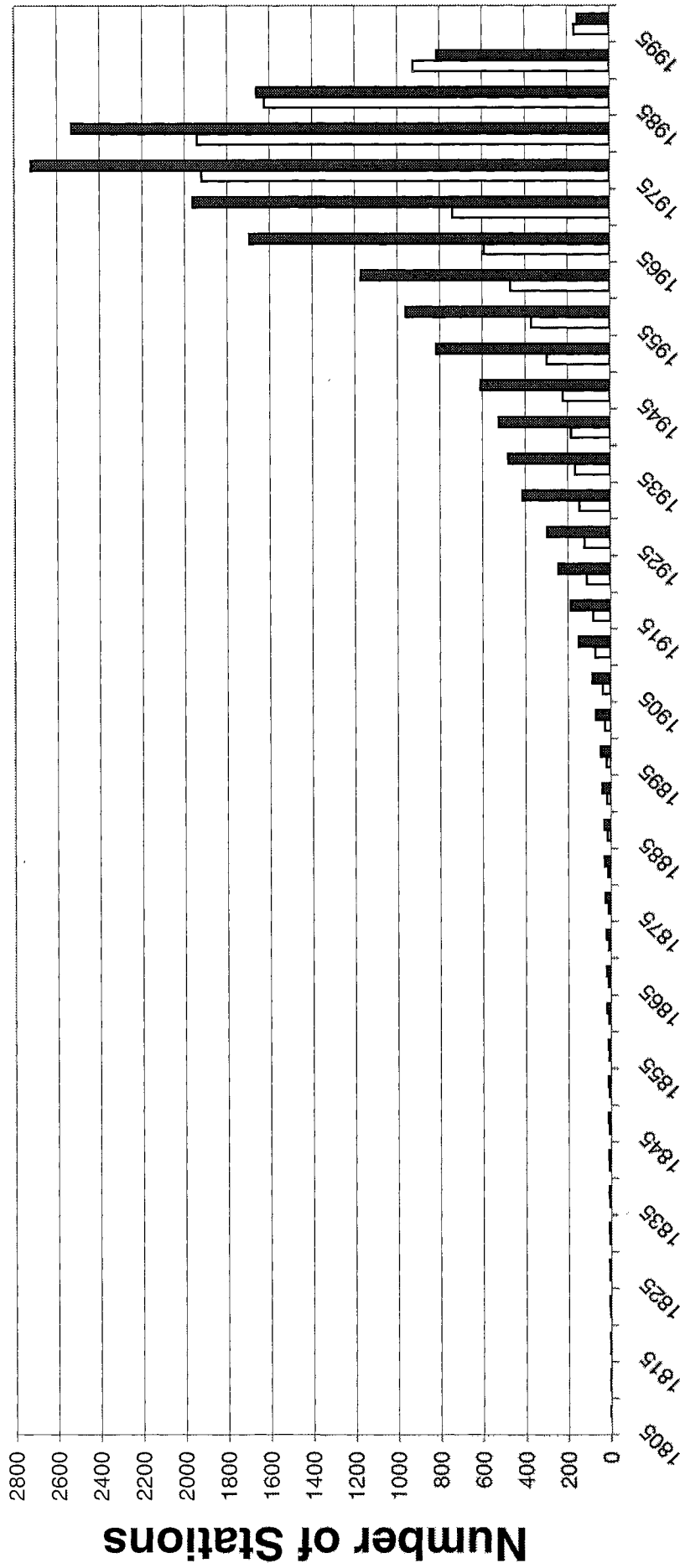
GLOBAL RUNOFF DATA CENTRE (GRDC)

Stations Classified by Drainage Area (Global Overview)



GLOBAL RUNOFF DATA CENTRE (GRDC)

Available Data in the GRDC Database

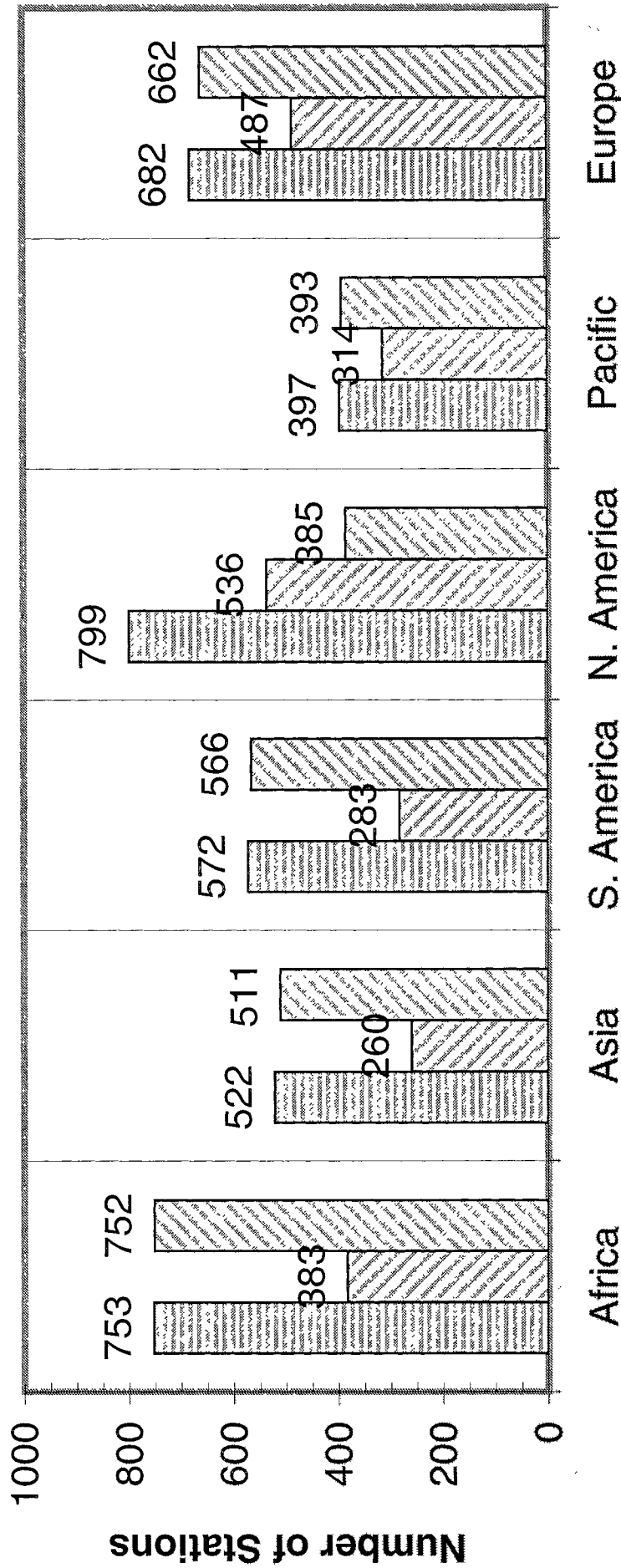


5 Years Interval

□ Day ■ Month

GLOBAL RUNOFF DATA CENTRE (GRDC)

Number of Stations in the GRDC Splitted in WMO Regions



WMO Region

Number of Stations
 Number Daily Data

Database Requests 1993

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Bishop, J.M., Institute for Scientific Research, Kuwait	Iran, Kuwait	Design for prawn industries
Buren, T., International Institute for Applied Systems Analysis, Austria	Altogether 114 river basins in all regions	Climate change impact on regional water resources
Drange, H., Nansen Environmental and Remote Sensing Centre, Norway	Report 100 MPI/GRDC	Discharge from 50 selected rivers of the world for GCM validation
Cunnane, C., University College, Dept. Hydrology, Ireland	GRDC catalogue	Selection of rivers for trend analysis of discharge
Ebel, Ch., State Environment Agency, Germany	Argentina	Environmental protection in the Rio Colorado basin
Freon, P., ORSTOM, France	Italy	EC-program in Marine research
Friederich, State Agency for Agriculture and Water Resources, Germany	Rivers flowing in the Baltic Sea	Pollution fluxes in the Baltic Sea
Hastenrath, S., Univ. of Wisconsin, Dept. Atmospheric and Oceanic Sciences, U.S.A.	Zaire	Research on mechanisms of tropical climate anomalies
Zhou, J., Institute of Atmospheric Physics, China	Report 100 MPI/GRDC	Discharge from 50 selected rivers of the world for GCM validation.
Kisiel, K., Univ. Arizona, Dept. Hydrology, U.S.A.	12 large river basins globally	Development of GIS-system
Lee, T., UN Economic Commission, Chile	GRDC catalogue	Latin-American integrated water resources planning and management
Lal, M., Indian Institute of Technology, India	India	Validation of GCM's
Lean, J., U.K. Met. Office, U.K.	Report 100 MPI/GRDC	Discharge from 50 selected rivers of the world for GCM validation.
Mahfouf, J., Meteo-France, France	Report 100 MPI/GRDC	Discharge from 50 selected rivers of the world for GCM validation.
Mamayev, V., Central Research Centre, Oceanographic Institute, U.S.A.	Selected rivers in Eastern Europe	Sea level rise in the Black Sea
Manley, R., Cambridge Univ., U.K.	Euphrat, Tigris	Marshes at the southern end of Euphrat and Tigris for World Conversation Union

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Hua-Lu, P., NOAA, U.S.A.	Report 100 MPI/GRDC	Discharge from 50 selected rivers of the world for GCM validation.
Tonderski, A., Linköping Univ., Sweden	West European and East European rivers	Hydrological data for research in water quality changes
Tateishi, R., Chiba Univ., Japan	Selected rivers over the world	Global water resources and water use
Braithwaite, D., EOS Project, Univ. of Arizona, U.S.A.	Selected rivers over the world	Preparation of selected global data sets for GCM modellers
Kwadijk, J., Univ. Utrecht, Netherlands	Ganges, Brahmaputra	Adaption and test of water balance model
Winnegge, Th., Fed. Inst. Hydrology, Germany	Niger river	Comparative studies with precipitation data held in the GPCP
Yamagata, T., University of Tokyo	Report 100 MPI/GRDC	Discharge from 50 selected rivers of the world for GCM validation.
Roth, R., Int. Meteorology & Climatology, Univ. Hannover	Report 100 MPI/GRDC	Discharge from 50 selected rivers of the world for GCM validation.

Database Requests 1994

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Adams, D., National Remote Sensing Centre Limited, Hampshire, UK.	Rivers Bosna, Fojnicka, Neretva (50 km around Sarajevo)	GIS-Input for flood modelling
Alexiou, A.G. Intergovernmental Oceanographic Commission, UNESCO, France	River discharge into the Indian Ocean	Global ocean observing system
Aureli, A., UNESCO, IHP, France	Niger basin	GIS based assessment of water resources
Bainto, E.V., Climate Research Division, Scripps Institution of Oceanography, University of California, San Diego, U.S.A.	Major river inputs to North Pacific and Atlantic basins	Runoff computation into oceans
Barsoum, N., RITSEC - Regional Information Technology and Software Engineering Centre, Cairo, Egypt	Arab region and Europe	Regional information system update
Bergström, St., SMHI-Swedish Meteorological and Hydrological Institute, Sweden	Baltic region	BALTEX-Project
Braithwaite, D., University of Arizona, U.S.A.	Data of gauges in all regions	Earth Observation Project of NASA
Buchtele, W., Charles University, Prague, Czech Republic	Niger Basin	Water balances and rainfall-runoff modeling (Student-course)
Cayan, D., Scripps Institution of Oceanography University of California, San Diego, Climate Research Division, La Jolla, U.S.A.	Station in Canada, U.S.A., Europe with drainage area above 50 000 km ²	-
Chalise, S.R., International Centre for Integrated Mountain Development, Kathmandu, Nepal	Rivers in the Hindu Kush Himalayas	Hydrological studies in the Himalayan region
DeLiberty, T.L., Cooperative Institute for Meteorological Satellite Studies, Space and Engineering Centre University of Wisconsin-Madison, Madison, U.S.A.	Discharge data for rivers in Brasil; Amazon Basin	Research on moisture budget in the Amazon Basin
Dethleff, T., Forschungszentrum für Marine Geowissenschaften, Christian-Albrechts-Universität, Kiel, Germany	Discharge data of Sibirien rivers flowing to the Arctic Ocean	Research on Arctic Shelf zones
Dinar, A., Water Resources Economist, The World Bank, Washington, U.S.A.	Indian and Brazilian rivers	Research on Global Warming effects in India and Brazil

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Dümenil, L., Max Planck Institute for Meteorology, Hamburg, Germany	Metadata only	GRDC-Catalogue, Research on global climate change
Fernandez-Jauregui, C.A., UNESCO, Montevideo, Uruguay	GRDC diskette	LACHYCOS project South America
Flachs, F., Friedrich-Alexander- Univ. Erlangen-Nürnberg, Germany	River basins Kongo/Zaire, Nile, Mekong, Parana	Research on river discharge and flood plaine ecology
Gelder, van A., Vakgroep Fysische Geografie, Univ. Utrecht, Netherland	Yellow River (Huanghe), China	Research on sediment transport
Georgiadi, A., IGAN. Moscow, Russia	Monthly flow of all rivers of GRDC	Information on rivers in former SU
Hamad, O., Freshwater Recources Management Program Centre for Environment & Development Arab Region and Europe, Oman, Giza, Egypt	GRDC catalogue	Establishing regional data base
Heller, H., Lehrstuhl für Geobotanik, Systematisch- Geobotanisches Institut, Göttingen, Germany	Discharge in Rivers Odra and Vistula	Vegetation Research
Hladny, J., Czech Hydrometeorological Institute, Praha, Czech Republic	Elbe-basin	WCP-Water Project B.3
Im mendorf, R., Geographisches Institut der Universität Köln, Germany	Rivers in Western Europe	Research Project: Floods in Western Europe
Iyama, S., River Bureau, Ministry of Construction, Tokyo, Japan	GRDC information	Catalogue of rivers in SE-Asia
Kasalski, K., Poznan, Poland	Rivers Thames and Lee	Analysis of long-term time series
Kleeberg, H.-B., Institut für Wasserwesen, Universität der Bundeswehr München, Germany	GRDC information	Organisation of database and datastructure
Kwadijk, J., Geografisch Instituut, Vakgroep Fysische Geografie, Univ. Utrecht, Netherland	Rivers Ganges and Brahmaputra	Water balance with Rhine flow model for climate change research
Laval, K., Laboratoire de Météorologique Dynamique, Centre National de la Recherche Scientifique, Paris, France	Runoff and precipitation in river basins: Mississippi, Amazon, Europe, Sahel and Yenisey	Runoff simulation in Global Circulation Models

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Lemmelä, R., National Board of Waters and the Environment, Hydrological Office, Helsinki, Finland	GRDC catalogue	Hydrological models for BALTEX project
Maidment, D.R. Centre for Research in Water Resources, University of Texas, Austin, U.S.A	GRDC catalogue. Streamflow data of the Niger and Benue basins	FAO/UNESCO Water Balance of Africa
Maier-Reimer, D., Hamburg, Germany	Runoff-data of rivers in Canada and Alaska. Runoff-data of rivers in France	Doctoral thesis on Hydrological Regimes
Malm, B., UNESCO, Division of Water Science, Paris, France	Station catalogue of rivers in Africa	Comparison of databases
Matsuoka, Y., Environmental and Sanitary Engineering, Univ. Kyoto, Japan	Runoff-data of 522 stations	Analysis of climatic change on East and South Asia
Matsuyama, H., Department of Geography, Tokyo Metropolitan University, Tokyo, Japan	Discharge data of 8 rivers, which drain into Lake Balkhas and of the Ili river	Studies on water budget around Lake Balkhash
McClimans, SINTEF NHL, Norwegian Hydrotechnical Laboratory, Trondheim, Norway	Data of Ob and Yenisei	-
Naff, Th., School of Arts and Science, Dept. of Asian and Middle Eastern Studies, Univ. of Pennsylvania, U.S.A.	GRDC information	Middle East water issues project
Oki, T., Hydrology and Water Resources Engineering, Institute of Industrial Science, Tokyo, Japan	Selected global runoff data	Research on global soil wet-ness
Pelt, Ph., UNEP/GRID, Geneva, Switzerland	GRDC catalogue	User-guide for data base on natural hazards
Perlmutter, M.A., Texaco, Houston, Texas, U.S.A	GRDC information	Elevations and hypsometry of river drainage areas
Qu, W., Institut für Pflanzenökologie, Justus-Liebig Univ. Gießen, Germany	GRDC information	Water Cycle Model
Rohde, F., Lehrgebiet für Wasser-Energie Wirtschaft, RWTH Aachen, Germany	GRDC information	Structure of data and organisation of database
Sakho, M.A. Abidjan, Ivory Coast, Africa	Country catalogue, Catalogue of missing data	update of database

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Schmitt-Heidrich, P., Institut für Hydrologie und Wasserwirtschaft, Univ. Karlsruhe, Germany	Gambia river	Irrigation projects (Salinization)
Singh, A., GRID-Sioux Falls, EROS Data Centre, Sioux Falls, U.S.A.	GRDC information	Digital elevation model
Sungwon, J., Korea Institute of Constuction Technology, Water Resources Eng. Div., Seoul, Korea	GRDC information (Korea)	Hydrologic data systems, update of regional database
The Hydrological Advisor to His Majesty's Government of Thailand	GRDC catalogue, catalogue of missing data	GRDC request for data: Comparison of databases
Tomé, A. R., Universidade da Beira, Covilha, Portugal	Spain: Ebro, Júcar, Liobregat, France: Rhône, Italy: Po, Arno, Tibre, Greece: Akhelóos, Axiós, Evros, Aliákman, Yugoslavia: Krka, Cetina, Neretva, Albania: Mat, Drin, Shkumbi, Devoli, Vigose, Lebanon: Litani, Egypt: Nile, Morocco: Moulouya, Tunesia: Medjerda, Algeria: Cheliff, Turkey: Cheyhan	PhD thesis intra and inter-annual variability in the Mediterranean region
Try, P. International GEWEX Project Office, Washington, U.S.A.	GRDC information (8 stations)	Preparation of CD-ROM for GEWEX (ISLSCP)
Vandewiele, G.L. Vrije Universiteit Brussel, Belgium	31 rivers (globally)	PhD thesis; development of stochastic runoff models for engineering purposes
Wiese, B., Geographisches Institut, Universität zu Köln, Germany	Senegal river	Desertification in Senegal
Wilkinson, W.B., Institute of Hydrology, Wallingford, UK	GRDC catalogue	Comparison of databases
Yang, R., Climate and Radiation Branch, NASA/GSFC, Greenbelt, U.S.A.	Global river flow data; 42 rivers	Research on global climate change
Zober, St.,IHP/OHP Secretariat, Koblenz, Germany	River Vistula	Floodplain pollution control

Database Requests 1995

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Aarup, Th. Cambridge, U.S.A	German Rivers: Elbe, Weser, Ems	Complementary information for image interpretation of North Sea
Amano, K. Nat. Inst. for Environment Studies, Onogawa, Japan	Yangtse, Yellow river	General information
Amram, O. Centre D Etude Spatiale De La Biosphere, Toulouse, France	Selected river stations of Niger (46)	Tri-dimensional modelling of hydrological fluxes using satellite data
Andah, K. WARREDOC, Università per Stranieri die Perugia, Colombella Alta, Italy	Awash and Blue Nile Basins	Training course on management in drought prone areas
Borgman, C. Brando Quilici Produzioni, Roma, Italy	GRDC information	Project information for film project about the global water cycle
Butzin, M. Institut für Umweltphysik, Universität Bremen, Germany	Amazone, Orinoco, Rio de La Plata, Kongo. GRDC - catalogue	Tritium fluxes into the South Atlantic through major rivers
Braithwaite, D. Dept. of Hydrology and Water Resources Building University of Arizona, Tucson, U.S.A.	GRDC - catalogue	Global runoff data base study for GIS appli-cations in the Earth observation study (EOS) of NASA
Braun, G. Deutsche Forschungsanstalt für Luft- und Raumfahrt e.V. (DLR) Köln, Germany	GRDC - Report No. 9	General information
Conway, D. Climatic Research Unit University of East Anglia Norwich, U.K.	GRDC - catalogue	Catalogue information only
Costa, M.H. Dept. of Atmospheric and Oceanic Sciences Madison, U.S.A.	Data from the Amazon basin. GRDC - catalogue	Study about the effects of the global warming in the Amazon river basin
Dokoubou, J.R. Foyer 2 Institute of Hydrometeorology St. Petersburg, Russia	Data of Chad basins	Studies on flow regime of the Chari- and Logone- basins and the Lake Chad
Dracup, J.A. School of Engineering and Applied Science University of California Los Angeles, U.S.A.	GRDC - catalogue, GRDC - Report No. 5 together with data of 20 rivers	Investigations of the influence of ENSO on Pacific Rim regional hydrology

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Ducharne, A. CNRS, Ecole Normale Supérieure Paris, France	Data of 26 river basins, GRDC- catalogue, GRDC-Report No. 5	GCM-Studies
Dunne, K. US Geological Survey, Geophysical Laboratory, Princeton, U.S.A.	Discharge data for the major rivers of the world, GRDC- catalogue	Research on monthly and annual river discharges for the major rivers of the world
Ekstrand, O. HEDESELSKABET Environment and Energy Division, Department for Landscape and Aquatic Environment Roskilde, Denmark	Data for rivers of the West Bank and Gaza, GRDC - catalogue, GRDC-Information	Catalogue information only
Eltahir, E. Massachusetts Institute of Technology Dept. of Civil and Environmental Engineering Ralph M. Parson Lab. Cambridge, U.S.A.	Data for selected rivers: Amazon, Congo and Mississippi	Catalogue information only
Entekhabi, D. Massachusetts Institute of Technology Dept. of Civil and Environmental Engineering Ralph M. Parson Lab. Cambridge, U.S.A.	GRDC information and GRDC reports	General information
Flachs, F. Friedrich-Alexander-Universität, Institut für Geographie Erlangen-Nürnberg, Germany	Discharge data for selected rivers: Senegal, Kongo/ Zaire, Nile, Mekong, Parana	Studies on physical geography of humid tropical areas
Foucher, C. Institute d'Économie Industrielle Université des Sciences Sociales Toulouse Cedex, France	GRDC - Information, GRDC - Report No. 6 and No.7	Assessment and management of global water resources
Gajewski, K. Department of Geographie University of Ottawa Ottawa, Canada	GRDC - catalogue, GRDC - Report No. 5	General information
Gonzalo, R.H. Russian State Hydrometeorol. Institute St. Petersburg, Russian Federation	Runoff data for 20 stations of the Basin Magdalena-Cauca, Colombia	Maximum flow estimation for the river basin Magdalena- Cauca, Republic of Colombia

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Goosse, H. Institut d'Astronomie et Géophysique G. Lemaitre Louvain-la-Neuve, Belgium	GRDC Report No. 5	Sensitivity of a global ice-ocean model to the Bering Strait throughflow
Graham, St. University of Texas at Austin Dept. of Geological Sciences Austin, U.S.A.	All stations on rivers with output to the oceans above 50 degrees latitude, GRDC - catalogue	Global water resources study
Green, B. Environmental Eng. and Health Sciences Lab. University of California Berkeley, U.S.A.	Data for Varanasi, India GRDC - catalogue	Climatological project study within the Ganges river basin
Guitteaud, E. MARS & Co. San Francisco, U.S.A.	All countries of the world, except African continent and Japan, GRDC - catalogue	Studies on water supply and waste management
Heine, G. Kreditanstalt für Wiederaufbau Frankfurt, Germany	GRDC - catalogue	General information
Heyen, H. Max-Planck-Institut für Meteorologie Hamburg, Germany	Discharge data of the rivers: Seine, Somme, Maas, Rhein, Ems, Weser, Elbe, Themse, Trent and Loire	Regionalisation of climate model data in the Northern sea area
Hofman, P. Library Technician World Data Center A for Glaciology CIRES; University of Colorado Boulder, U.S.A.	GRDC Report No. 8	ACSYS - Study
Hoinka, K.P. Deutsche Forschungsanstalt für Luft- und Raumfahrt e.V. (DLR) Oberpfaffenhofen, Germany	Discharge data of rivers of the alpine area. GRDC - catalogue, GRDC - Information	Mesoscale alpine programme (MAP)
K. Ichiyonagi Nat. Research Inst. for Earth Science and Disaster Prevention, Tsukuba, Ibaraki, Japan	Runoff data for the major rivers of the world, GRDC - Information, GRDC - catalogue, GRDC - Reports (6)	Collection of runoff data in major rivers of the world for runoff analysis and to perform simulation coupled with GCM- studies
Ide, S. The University of Shiga Prefecture Department of Environmental Planning Shiga, Japan	GRDC - Information, GRDC - Reports	Completion of Data Book computerization project on RAISON
Isemer, H.-J. GKSS Forschungszentrum, Max- Planck-Institut Geesthacht, Germany	GRDC - catalogue	General information

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
James, R. Hydrology Section Bureau of Meteorology Melbourne, Australia	Catalogue of Australien data	General information
Kheng, L.Ch Department of Civil and Environmental Engineering Ralph M. Parsons Laboratory Massachusetts Institute of Technology Cambridge, U.S.A.	Data of Pa Sak river basin	Studies on flood control in Thailand
Kochendorfer, J. Colorado State University Department of Civil Engineering Fort Collins, Colorado U.S.A.	Rivers of Mongolia, Selenga River and tributaries in south- central Siberia	General information
Kourafalou, V. Istituto Per Lo Studio Delle Meteorologie Geofisiche Ambientali Modena, Italy	Runoff data of rivers around the Adriatic Sea. GRDC - catalogue and Information	Catalogue information only
Landwehr, I. United States Geological Survey (USGS) Reston, U.S.A.	GRDC - catalogue	General information
Maidment, D.R. Center for Research in water Resources The University of Texas Austin, U.S.A.	Runoff data data for the Niger River Basin	Comparison of river basins
Maruyama, M. Nagoya University Forest Resource Utilization Laboratory Nagoya, Japan	Discharge data of the Amazon River	Catalogue information only
Matsuyama, H. Tokyo Metropolitan University, Dept. of Geography Tokyo, Japan	GRDC - catalogue, GRDC- Reports 1-5	Update of indicated data
McKinney, D.C. Center for Research in Water Resources University of Texas Austin, U.S.A.	Discharge data from rivers of the Aral Sea Basin	UNESCO/IHP - project: Construction of a geo-graphic information system based on description of the global water resources
McMahon, T.A. Department of Civil and Environmental Engineering University of Melbourne, Australia	GRDC - catalogue, dates of selected rivers of the world	Ph.D. project: Annual runoff variability in a global context. Pacific Rim project

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Meigh, J Institute of Hydrology Wallingford Oxfordshire, U.K.	Monthly flow series of rivers from several South African countries	Assessment of global water resources (surface- and ground water)
Miller, S. State of Israel Hydrological Service Water Commission Ministry of Agriculture Jerusalem, Israel	GRDC - Report No. 5	Completion of the library
Mirza, M.Z. Centre for Environmental and Resource Studies (CEARS) University of Waikato Hamilton, New Zealand	Discharge data of the Ganges- Brahmaputra- Meghna-Basins	Impact of climate change on water resources in the Ganges- Brahmaputra-Meghna Basins
Mitosek, H.T. Institute of Geophysics Polish Academy of Sciences Warsaw, Poland	Discharge data of the rivers: Wesel/Vlotho, Germany and Raneal/Miemisel, Sweden. GRDC - catalogue, GRDC - Report No. 7	Transformation of measured flow data to grid points
Molnar, G. University of Tokyo Institut of Industrial Science, Tokyo, Japan	Data of selected rivers: Irrawaddy, Sittang, Salween, Chao Phraya, Mekong	Validation of regional water balance model
Morley, J. University College London Dept. of Photogrammetry and Surveying London, U.K.	GRDC - catalogue; Discharge data for Niger-river in Mali	Terrestrial initiative in global environmental Research. Incorporation of land hydrology into global climate models
Naden, P. Institute of Hydrology Wallingford Oxfordshire, U.K.	Discharge data of the Mississippi- and Amazon-rivers, GRDC - catalogue	Incorporation of river routing models within coupled land- ocean atmospheric models as part of the TIGER project
Piechota, Th. UCLA, Civil and Environmental Eng. Dep. Los Angeles, U.S.A.	Discharge data of various river stations (77) for the Asian and Pacific region, GRDC - catalogue, GRDC Report No. 5	Research in the Pacific Rim countries
Portis, D. Department of Atmospheric Sciences University of Illinois Urbana, U.S.A.	Data of (40) rivers flowing into the Arctic Sea	ACSYS - project
Shibasaki, R. University of Tokyo Institute of Industrial Science Department of Civil Engineering Tokyo, Japan	Data of selected rivers: Irrawaddy, Sittang, Salween, Chao Phraya, Mekong	Validation of a regional scale water balance and transport model. Estimation of the quantitative and qualitative changes of water and land resources in Southeast Asia

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Sierek, H. Offenbach, Germany	Data of rivers in South America (4), South Africa (4) and Asia (8)	Comparison-study on reservoir systems in South America, Africa and Asia
Smith, F.M. College of Natural Resources Department of Earth Resources Colorado State University Fort Collins, U.S.A.	GRDC - catalogue	General information
Swain, A. Uppsala University Dept. of Peace and Conflict Research, Uppsala, Sweden	Data for selected rivers: Rhine, Colorado, Rio de la Plata, Nile and Ganges- Brahmaputra	Analyses of conflict related to world water resources
Schloß, A. Institute for the Study of Earth, Oceans and Space University of New Hampshire Morse Hall Durham, New Hampshire U.S.A.	GRDC - catalogue	Global water cycle modelling
Schmidt, U. Naturhistorisches Museum Mainz, Germany	River basins data of Ruanda, GRDC - catalogue	Research on the Ruanda river systems on the bases of bilateral cooperation
Steiger, M.J. Centre d'Ecologie des Système Fluviaux Toulouse CEDEX, France	GRDC information about German and French river basins	Comparison of French and German river basins
Strzepek, K.M Dept. of Civil, Environ. and Architectural Eng. University of Colorado Boulder, U.S.A.	GRDC - catalogue and data of Nile river basin (31)	Project on climate change impacts on water resources
Uvo, C. Dept. of Water Resources Engineering Lund University of Technology, Lund, Sweden	Data for Amazon river basin	Study of the influence of the climate variability on water resources for Amazon and Northeast Brazil
Volkert, H. Deutsche Forschungsanstalt für luft- und Raumfahrt (DLR) Oberpfaffenhofen, Germany	Data of selected river basins: Rhône, Rhine, Danube, Etch, Po	Heavy precipitaton in the Alpine region
Vörösmarty, Ch., University of New Hampshire New Hampshire, U.S.A.	GRDC - catalogue and GRDC - Report No. 3	Assessment of global water balances
Walsh, J. University Urbana Champaign Dept. of Atmospheric Sciences Urbana, Ill. U.S.A.	GRDC - Report No. 8	ACSYS - project

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Wijs, K.de DHW Consultants BV Amersfoort, Netherlands	Ethiopian and Sudan river flow data	Regional water resources study in Ethiopia
Zhuravin, S. A. International Cooperation Department State Hydrological Institute St. Petersburg, Russia	Data of selected river basins	(WMO Freshwater Assessment) Comprehensive Assessment of the freshwater resources of the world

Database Requests 1996

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Aarup, Th. 40 Holworthy Street Cambridge, MA 02138 USA	UK Rivers: Thames, Wasj, Humber, Tees, Tane and Forth; Rivers from the western part of Denmark	Dissertation on Regional Hydrology
Amt für Wehrgeophysik (Army Geophysical Survey), Traben- Trarbach, Germany	Nile at Karthoum	General regional information
Arestizabal, E. P. c/o. State Hydrometeorological Insitute St. Petersburg Russian Federation	Data of the station Greenville, Mississippi	Graduation project: Hydrological foundation of horizontal drilling methods for river crossing pipelines
Arnaud, D. Berthouville, France	GRDC - catalogue	Research on global water resources
Arora, V. Dept. of Civil and Environ. University of Melbourne Parkville, VIC, Australia	Discharge data for the Amazonas River basin	Regional hydrological studies
Ballisoy, N. Bodenkundliches Institut Bonn Bonn, Germany	Data for Rivers in West Turkey	Study on climate changes as a result of rain erosivity in West Turkey
Bauwens, W, Vrije Universiteit Brussel Laboratory of Hydrology Brussel, Belgium	GRDC catalogue	Thesis research in water resources of the Zambesi river basin
Becker, P. Battelle Marine Science Laboratory	Discharge data for the Yalu (Ammok) River, GRDC catalogue	PhD thesis: The effect of arctic river hydrological cycles on arctic ocean circulation
Berg, van den J.H. Department of Physical Geography University Utrecht, Netherland	Data of the Allier river, France	Research project concerning the morphology and morphodynamics of the Allier river
Bezanson, D. Westlake Drive Austin, Texas, U.S.A.	GRDC catalogue, GRDC report No. 5	Research on hydrological regimes of the world's largest river basins
Bhatia, R. International Irrigation Management Institute Colombo, Sri Lanka	GRDC information, GRDC - catalogue	Agricultural research, analysis of water resource systems, publication of world water dataset
Birkett, Ch. Mullard Space Science Laobratory Department of Space and Climate Physics University College London, U.K.	GRDC catalogue-extract, General information	Satellite remote sensing measure-mets

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Bishop, G. Anteon Corps of the United States Environmental Protection Agency Corvallis, Oregon, U.S.A.	GRDC information	Test of runoff mapping methods for varios areas of the world
Bouhia, H. Harvard University Devison of Applied Sciences Cambridge, Mass., U.S.A.	GRDC information	Rainfall runoff analysis of major selected rivers
Bound, A.J. Mullard Space Science Laboratory Department of Space and Climate Physics University College London, U.K.	Streamflow data of Sudan, GRDC information, Flow data of the White Nile	Studies about the Sudan Marshes
Braithwaite, D. Department of Hydrology, University of Arizona	Selected major rivers of the world (32 rivers)	Global water balance project
Brandt, R. GKSS Research Center BALTEX Geesthacht, Germany	GRDC catalogue	General information
Brigham, L.W. Scott Polar Research Institute University of Cambridge, U.K.	Data for the Laptev Sea and the Lena River	Research on the sea ice conditions and ocean processes of the Laptev Sea
Calkins, D. Geological Science Division USACRREL Hanover, NH, U.S.A.	Sava River Basin, Croatia	US Army Cold Region project in Croatia
Charbonier, F. IMFIA - Hydrology Division J. Herrera y Reisig 564 Montevideo, Uruguay	GRDC catalogue	Interdecadal variability of the runoff and its relation with Pacific Ocean temperature
Cluis, D. Institut national de la recherche scientifique Université de Quebec Québec, Canada	GRDC catalogue, GRDC information	General information
Cullen, H. Columbia University Dpt. Geological Sciences Lamont Campus, U.S.A.	Runoff data of Tigris and Euphrates Rivers	General information
Demarée, G. Koninklijk Meteorologisch Institut van Belgie Brussel, Belge	Data of the station Rees at the Rhine river	Studies on dynamical climatology

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Dettinger, M. U.S. Geological Survey San Diego CA, U.S.A.	GRDC information, GRDC catalogue	General information
Dibi, P. University of Oklahoma Dept. of Geography Norman, Oklahoma, U.S.A.	GRDC catalogue	Atmosphere/Surface parameter evolutions and interaction over Ivory Coast, West Africa
Diehl, A. Linden, Germany	Discharge data of the Yangtze Kiang river in China	PhD thesis about hydrological regime of the Yangtze River
Dixon, J.M. Institute of Hydrology Wallingford OX U.K.	Data of the rivers: Weser, Elbe, Maas, Vaenern-Goeta, Escault, Ems at Versen	FRIEND Project: European Water Archive
Dobrovolsky, S. NASA Goddard Space Flight Center Greenbelt, MD, U.S.A.	GRDC - catalogue, GRDC information	General information
Dokoubou, J.R. Institute of Hydrometeorology St. Petersburg	Data of rivers of Central Africa	Regional hydrological studies
Döll, P. Wissenschaftliches Zentrum für Umweltsystemforschung Kassel, Germany	Discharge data worldwide, GRDC information, GRDC report No. 10	Global model of water availability
Douville, H. CNRM/GMGEC/UDC Toulouse / France	Report No. 5	GEWEX Global Soil Wetness Project
Ducharne, A. Laboratoire de Météorologie Dynamique École Normale Supérieure Paris, France	GRDC report No. 10, GRDC information, leaflet, River discharge data of 58 stations	Forcing an hydrologic model with the continental water fluxes of an atmospheric general circulation model
Dümenil, L. Max Planck Institut für Meteorologie Hamburg, Germany	GRDC catalogue	General information
Eltahier, E. Massachusetts Institute of Technology Parsons Laboratory Cambridge, MA, U.S.A.	GRDC report No. 10	Information on global freshwater fluxes
Epstein, D. Battelle Pacific Northwest National Laboratory Richland, WA, U.S.A.	GRDC information	General information

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Evans, J. Centre for Resource Environmental Studies Australien National University Canberra, Australia	Discharge data of rivers in the Ping basin, Upper Chao Phraya, Thailand	Project on integrated water resource assessment for sustainable management
Friederich Amt für Land- und Wasserwirtschaft Kiel, Germany	Data of 11 rivers flowing into the Baltic Sea	Study of the water pollution loads of the Baltic Sea
Genta, J.L. Instituto de Mecanica de los Fluidos e Ingneria Ambiental (IMFIA) Montevideo, Uruguay	Discharge data for 13 rivers	Study of climate variability in Southeastern South America
Goosse, H. Université Catholique de Louvain Institut d'Astronomie et de Geophysiqze G, Lemaitre Louvain-la Neuve, Belgium	GRDC report No. 10, 169 stations in digitized form	Global coupled ice-ocean model
Hagemann, St. Max-Planck-Institut für Meteorologie Hamburg, Germany	Data for selected rivers of Africa, Asia, North and Central America, South West Pacific and Europe	Validation of global circulation models
Haller, W.T. University of Florida Institute of Food and Agricultural Sciences Gainsville, FL, U.S.A	Discharge data for the White and Blue Nile River and for stations of the Jebel Aulia Dam, Aswan Dam and Dongola	Prediction of aquatic plant interference with hydroelectric production
Helbig, A. Universität Trier FB VI Geographie/Geowissenschaften Germany	Discharge data of the rivers: Lena, Jana, Olenyok, Aldan	Study of ice conditions of the Laptev-Sea in relation to the discharge data of rivers flowing into the Laptev-Sea
Hietala, K. Scott Polar Research Institute University of Cambridge United Kingdom	First and second ACSYS interim report	PhD thesis about freshwater budget of the Arctic Ocean
Hoff, H. IGBP-BAHC Core Project Office Institut for Climate Impact Research Potsdam, Germany	Discharge data for the Amazone river basin, GRDC catalogue	River basin study
Holland, D.M. Lamont-Dohery Earth Observatory of Columbia University Palisades, NY, U.S.A.	Two ACSYS Interim Reports, Runoff-data of the Arctic rivers	Investigation of the effect of rivers on the circulation of the Arctic Ocean and Sea ice using a regional coupled atmosphere- ice ocean numerical model

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Horton, R. Center for Environmental Research and Conservation Columbia University in the City of New York, U.S.A.	GRDC catalogue of South-East Asian discharge data	Integrated assessment of ENSO- related effects in Indonesia
Isemer GKSS-Forschungszentrum Baltex-Sekretariat Geesthacht, Germany	GRDC catalogue	General information, contribution to BALTEX- project
Jacobs, N. University of Utrecht Faculty of Geographical Sciences Netherland	Data of the Elbe River stations	Hydrological model for the Elbe River
Jakobsen, F. Danish Hydraulic Institute Horsholm, Denmark	Data of river discharges of the German Bight	DYNOCs: Dynamic of connecting seas. A MAST II research project
James, R. Bureau of Meteorology Melbourne, Victoria, Australia	GRDC catalogue	General information
Jennerjahn, T. Universität Hamburg Institut für Biogeochemie und Meereschemie Hamburg, Germany	GRDC catalogue, Discharge data of 28 selected rivers from Europe, North and Southeast Asia, North and Central America, Brazil, India and Asia	Biogeochemical research on rivers
Jiabin, Zh. Institute of Atmospheric Physics Chinese Academy of Sciences Beijing, China	Global Datasets of selected rivers	Study on the global change of runoff data
Jilk, H, Schwäbisch Hall, Germany	Discharge data of European rivers	General information
Kaczmarek, Zd. Institute of Geophysics Warsaw, Poland	Discharge data for rivers in China, Korea, Pakistan and India	Research project on impact of climate change in Southeast Asia
Kakuta, S. Ocean Research Department Japan Marine Science and Technology Center Yokosuka, Japan	Two ACSYS Interim Reports, Runoff-data of the Arctic rivers Mackenzie, Kolyma, Indigirka, Lena, Ktuy, Yenisei, Ob, Pechora and Sev. Dvina	Arctic ocean model study
Karim, A. Department of Geology University of Ottawa Ottawa ON, Canada	Discharge data for Indus River and its tributaries, GRDC information	Major elements and stable isotopes: PhD thesis on the Indus River
Kassian, A.G. Cowes Isle of Wight, U.K.	GRDC information, GRDC Report No. 9	PhD. Thesis: A political history of the hydrogeopolitics of the Euphrates-Tigris Rivers basin

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Killingtveit, A. Centre for Environment and Development Dragvoll, Norway	GRDC information on the ACSYS project	Educational course in Arctic water mangement
Kleeschulte, St. G.I.M. - Geographic Information Management SQ Luxembourg	GRDC catalogue	General information
Kubota, J. Department of Forest Science Tokyo University of Agriculture and Technology	GRDC catalogue	General information
Lohmann, D. Institut for Atmospheric Physics Geesthacht, Germany	Discharge data of rivers, flowing into the Baltic Sea	Validation of atmospheric models of the BALTEX project
Mader, F. Firma AST & Co. Baugesellschaft mbH, Feldkirchen Austria	Mean monthly discharge data for Rio Mino, Spain	Feasibility study for dam project
Maidment, D. R. Center for Research in Water Resources University of Texas Austin, U.S.A.	Discharge data for 161 stations	Fresh water fluxes into the Ocean
Mamaev Coastal Research Center Woods Hole Oceanographic Institution Woods Hole, MA, U.S.A.	Discharge data for rivers: Danube, Dniepr, Dniestr, Southern Bug, Don, Rioni, Sakaria, Kizil-Irmak, Kamchia	Research on the rising sea-level in the Black Sea
Marsh, T. Institute of Hydrology Wallingford, Oxfordshire, U.K.	Discharge data of the rivers: Blue Nile at Khartoum; Columbia River at Dalles, Oregon; Susquehanna at Harrisberg, Pa; St. Mary's River at Saulte St. Marie; Avoca River at Coonoer	Publication of the second edition of "Hydrometry - Principles and Practices"
Martin, S. University of Washington School Oceanography Seattle, WA, U.S.A.	Update of Arctic River information	Arctic research
Maruyama, M. Forest Resources Utilization Laboratory School of Agricultural Sciences Chikusa-ku, Nagoya, Japan	Discharge data from Brazilian rivers including Rodonia State	The impact of deforestation in Brazilian Amazonia: large-scale clearance in Rondonia State
Maus, S. Norsk Polarinstitut Oslo, Norway	GRDC Catalogue, Discharge data from different rivers flowing into the Barents Sea	Transformation of water in the Barents Sea and the influence of the climatical variability

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Maus, S. Havforskningsinstitut Bergen, Norway	Discharge data of rivers draining into Arctic oceans	ACSYS -Project: Water transformation and the variability of climate change in the Barents Sea region
Mcphail, N. Drainage Department of Abozzdford Vancouver, Canada	GRDC Catalogue, GRDC information	Creation of a database for precipitation and discharge
Milliman, J. School of Marine Science The College of William and Mary Cloucester Point, VA, U.S.A.	Discharge data from several major rivers draining into the western Mediteranean	Studies of the late 20th century changes in the western Mediterranean oceanic climate due to decrease fluvial input
Milly, P.C.D. Geophysical Fluid Dynamics Laboratory U.S. Department of Commerce/NOAA Princeton, NJ, U.S.A.	GRDC information, GRDC catalogue, Report No. 10, Update of earlier requested data, discharge data from 43 stations from various river basins	Observed and modeled variations of annual discharge from large river basins
Oki, T. Goddard Space Flight Center Greenbelt, MD 20771, U.S.A.	200 river discharge stations worldwide	Global modeling of theWorld Water Balance
Oki, T. Goddard Space Flight Centre Greenbelt, MD, U.S.A.	Data of about 180 stations of varios river basins	Validation of ISLSCP global soil moisture project under GEWEX and the longterm variation of global runoff
Pasenau, H. PROJETO FEEMA - GTZ Controle Ambiental no Estado do Rio de Janeiro, Brazil	Discharge data of Rio Sao Francisco	Sedimentological and geophysical investigations on the continental margin off the Sao Francisco river
Pasenau, H. GTZ Feema BZ Brazil	Discharge data of the Paraiba do Sul River and others	Enviromental monitoring
Paturel, J.E. ORSTOM Cidex Abidjan , Cote d'Ivoire	Discharge data of Rivers in West- and Central Africa	Study on climatic variability in West and Central Africa
Pelt GEC - Geneva Executive Center Chatelain, Geneva, Switzerland	GRDC catalogue, policy guidelines for data distribution	Update of the Meta-Data guide related to natural hazards
Plessis, S.C.du CORPORATE HYDRO & WATER CONSULTANT ESKOM Generation Department	Discharge data for rivers in Mosambique	Study of possibilities for drinking water supply in Mosambique
Portis, D. University of Illinois	35 ACSYS stations	Verification of P-E for atmospheric models

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Potier, M. ORSTOM / HEA Montpellier cedex, France	GRDC information, GRDC catalogue, GRDC leaflet	Studies of pelagic fish populations of the Java Sea, Indonesia
Rodgers, Dr. K. Columbia University's Lamont Doherty Earth Observatory	GRDC information	Ocean circulation model
Sauerborn, P. Seminar für Geographie und ihre Didaktik Köln, Germany	River discharge data from Germany	Study on anthropogenic induced climate change
Sharma, A.A.L. Director of Research Studies M.V.P. Colony Visakhapatnam 530 017, India	GRDC information, GRDC reports and brochures, GRDC catalogue	Survey of literature on river flows into the World Oceans
Sipes, J.L. University of Oklahoma College of Architecture Norman, Oklahoma, U.S.A.	GRDC catalogue, GRDC information, brochure	Article for Landscape Architecture magazine about use of computer technology in irrigation design and water management
Stansfield, K. University of Victoria School of Earth and Ocean Sciences Victoria, B.C., Canada	GRDC catalogue	Access to river runoff data for Thailand, Vietnam and Malaysia
Syvitski, J. Institute of Arctic and Alpine Research University of Colorado Boulder, Colorado, U.S.A.	Arctic Sea	Climate research in connection with the ten largest Arctic rivers
Vargiamidis, G. Thessaloniki, Greece	Catalogue information of Greek rivers	N.N.
Wendland, F. Forschungszentrum Jülich Jülich, Germany	General information	Small-scale area-differentiated classification of the water balance of the Elbe basin
Wiley, A. U.S. Army Topographic Engineering Centre Alexandra, VA, U.S.A	All rivers of Nicaragua	Water resources appraisal
Woerden, J. van Rijksinstituut voor Volksgezondheit en Milieuhygiene (RIVM) Bilthoven, Netherland	Discharge data of 37 stations	UNEP Global outlook project
Xiaoyang, Z. Department of Geography King's College London London, U.K.	GRDC information, GRDC catalogue, Status report	Modeling of soil erosion at a global scale

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Xue, Y. Centre for Ocean-Land- Atmosphere Studies Calverton MD, U.S.A.	Discharge data of different African rivers	GCM modeling study on the ground water balance and use of observed large scale discharge data to validate the model
Zhang, H.-M FORD 0230 Scripps Institution of Oceanography University of California, San Diego La Jolla, CA, U.S.A.	GRDC catalogue, Mean runoff data of the rivers: Seween, Irrawaddy, Brahma-putra, Ganges, Brahmani, Mahanadi, Godavari	Fresh water budget for the Indian Ocean

Database Requests 1997

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Tommaso Abrate, Hydrology Division, World Meteorological Organisation	Database catalogue of Albania	General information about the availability of discharge data of Albania
Alfredo Constain Aragon, Hydroproiet Ltd., Cali, Columbia	Statistical data of Latin American rivers (flow, velocity)	Calibration of digital instruments (no data transferred)
Simon Bärtschi, Geographisches Institut der Universität Bern, Schweiz	22 stations in the Aral-Sea basin	Study about the media coverage of hydrological and environmental changes in the Aral-Sea region
Connely Baldwin, Civil and Environmental Engineering, Utah State University, USA	River discharge data from Columbia, Venezuela, Peru, Brazil (database catalogue)	Dynamic analysis of streamflow data (student) - request pending
Prof. Dr. D.K. Banerjee, School of Environmental Sciences, Jawaharlal Nehru University, New Dehli, India	Yamuna River, India (not present in the GRDC database)	Study on the chemical modelling of streams
Dr. Peter Becker, Battelle Marine Sciences Lab., Sequim, USA	ACSYS-reports, general information about ACSYS	PhD dissertation: The Effect of Arctic River Hydrological Cycles on the Arctic Ocean
Dr. J.M. Beckers, Université de Liege, Belgium	6 stations in the area of the Mediterranean Sea	MEDMEX (Mediterranean Models Evaluation Experiment)
Prof. Dr. Beese, Institut für Bodenkunde und Waldernährung, Universität Göttingen, Deutschland	GRDC Catalogue	Study on hydrology and water quality worldwide for the Scientific Council of the Federal Government of Germany
Byron Bodo, c/o GEMS/WATER Collaborating Centre, Ontario, Canada	GRDC catalogue	General information about GRDC database contents
J. Böhner, Geographisches Institut der Universität Göttingen	Yangcun at Yaluzangbu Jiang River	Verification of models for the regionalization of climatological parameters
A. Brismar, Department of Water and Environment Studies, Linköping, Sweden	GRDC-Report No. 5, database catalogue, report list	General information about the availability of data in the Euphrates-Tigris Region
Dr. Axel Bronstert, Potsdam-Institut für Klimafolgenforschung e.V., Germany	16 stations in the North-East of Brazil	Development of a hydrologic model in certain areas in the North-East of Brazil
Ted Bryant, University of Wollongong, Australia	GRDC-Reports 5 and 10	Interaction between river discharge and sea level as indicators of the world water balance
Zhou Caiping, The Chinese Academy of Sciences	Data for the Brahmaputra River (database catalogue extract)	N.N.

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Anny Cazenave, Laboratoire d'Océanographie et de Géophysique, Toulouse, France	Data of rivers discharging into large lakes (database catalogue)	Study: global climatologies and the annual lake cycles
Chen-Hua Chung, Dept. of Civil Engineering, Colorado State University	Discharge data of the Niger River	Study: Return period and risk analysis for hydrologic and environmental processes
Arthur Lyon Dahl, DAED, Coordinator, UN System-wide Earthwatch, Geneva, Switzerland	GRDC report list	Preparation of a bibliography of major reviews and metadata sources relating to international waters
Georgi Daskalov, ORSTOM- HEA, CESMA, Montpellier, France	27 rivers draining into the Black Sea	Research project: Evolution of the Black Sea production ecosystem in relation to environmental changes and anthropogenic influence
Michael Dettinger U.S. Geological Survey	River discharge data for 14 rivers from China, Canada, Iceland, Denmark, United Kingdom	Assessment of climatic change and hydrological consequences in the Sierra Nevada and other parts of the Western United States
Dr. Isabelle Niang-Diop, Département de Géologie, Université Cheik Anta Diop, Dakar-Fann, Senegal	-----	Request for general support in the preparation of a database for the coastal zone of Senegal
Jay Famiglietti, Dept. of Geological Sciences, University of Texas, Austin, USA	GRDC report No. 10	Possible incorporation of GRDC data in an oceanic global climate model
Jane Foster, Dept. of Geology and Geophysics, Yale University, New Haven, USA	9 rivers of Southwest Asia	Investigation exploring climate variation and the effect on agricultural production in Southwest Asia
Christian France-Lanord, Dept. of Geological Sciences, Cornell University, Ithaca, USA	GRDC Reports No. 5 and 10	General scientific interest
Paul Ganahl, Hydrographische Abteilung der Verbund-Elektrizi- tätswerke Kaprun	Discharge data of the Spanish Rivers Tortoza and Zaragoza	Examination of possible climatic changes in the Ebro basin
Philippe Gauzelin, Space Oceanography Departement, CLS, Toulouse, France	Mediterranean Region (general information about data availability, request pending)	PhD thesis about the water and heat flux budget of the Mediterranean Sea
Pieter van Gelder, Delft University of Technology, The Netherlands	Discharge data of stations in the Oder catchment (database catalogue)	Frequency analysis of extreme values (maxima)
Christian Gerbich, Inst. für Biogeochemie und Meereschemie, Hamburg, Germany	Several rivers in the tropical and subtropical region of Asia	Modelling transport mechanisms of solid and dissolved matters in oceans and rivers

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Marc Gordon, Centre for Arid Zone Studies, UK University of Cambridge	Historical streamflow data for the Benue River Basin (catalogue)	MSc Dissertation in Water Resources
Steve Graham, Dept. of Geological Sciences, University of Texas, Austin, USA	Report No. 10, 5, 12, 14	General scientific purposes
Dr. Alan Hall, Australia	GRDC catalogue for Australia	General reference purposes
G. Hartmann, Institut für Wasserbau, Universität Stuttgart	GRDC database catalogue	General information about the availability of discharge data in Africa and the Middle East
Martin Hollingham, University of Wales, Bangor, UK	GRDC report No. 5 and No. 10, Status Report 1996	General research work and educational purposes
Kaisa Hietala, Scott Polar Research Institute, University of Cambridge, U.S.A	35 ACSYS-stations	PhD thesis: Fresh water variation on the Arctic Ocean
Noboyuki Imanishi, Shinko Research Ltd., Tokyo, Japan (research company of Kobel Steel Ltd.)	GRDC database catalogue	Global Potential of hydrogen gas production by hydropower (no transfer of raw data - commercial use)
S.R. Jones, Engineering Consultant, The Harroway, Whitchurch, UK	Data of the Casamance River, Senegal (data not available at GRDC)	Undersea fiber optics cable project South America - Africa
Shinya Kakuta, Ocean Research Department, Japan marine science and technology center, Yokosuka, Japan	Data of the Yukon River	Model study within ACSYS (Arctic Climate System Study)
Frank Kaspar, Wissenschaftl. Zentrum für Ökosystemforschung, Universität Kassel, Germany	43 stations from South America	Global modelling of consumption, availability of water and prognosis
Prof. Kempe, Geologisch-Paläontologisches Institut, Technische Universität Darmstadt, Germany	Database catalogue of Argentina (request pending)	EU-research project: biogeochemistry of of Argentinian Rivers
Chris Kilsby, Water Resources Systems Res. Lab., Univ. of Newcastle upon Tyne, UK	GRDC database catalogue (request pending)	General information
Tokuo Kishi, Surface Hydrology Modeling Team, NIED, Science & Technology Agency, Japan	General information about availability of data of the GRDC (request pending)	Study on the hydrologic characteristics of major rivers of the world
Wulf Klohn, Food and Agricultural Organisation of the United Nations, Rome, Italy	31 rivers of the Amu Darya and Syr Darya region	Study of water resources of river basins in the countries of the former SU within the FAO's Aquastat Programme

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Jumpei Kubota, Faculty of Agriculture, Tokyo University of Agriculture and Technology, Japan	Discharge data for 14 Arctic rivers	GAME-Siberia (GEWEX related Asian Monsoon Experiment) Project
Dr. D. Krämer, World Meteorological Organisation, Genf, Switzerland	Discharge data for 8 stations in mountainous regions	Edition of the book "State of the World Mountains 1997"
Dr. Gerhard Lammel, Max-Planck-Institut für Meteorologie, Hamburg	Zaire, Senegal, Nile	Contribution to a report of the Scientific Council for Environmental Changes of the Federal Government
Richard Lammers, University of New Hampshire, Durham, USA	Arctic Region	Reports 8, 12, 15 (ACSYS-Reports)
Howard Lawes, Noble Denton Europe Ltd., London	General data (means) for the Irrawaddy River, Report No. 5	Design of a submarin pipeline through the Irrawaddy delta
Prof. Lemke, Institut für Meereskunde, Universität Kiel	Several major rivers of the world	Educational; general statistical evaluation
Winchee Lin, School of Oceanography, University of Washington, USA	Discharge data for 34 rivers in the South East Asia Region	Validation of a model for the biogeochemistry of rivers
Dr. Dag Lohmann, Department of Civil Engineering and Operations Research, Princeton University, USA	161 stations globally distributed	Modeling of global soil moisture, evaporation and runoff with the VIC-2L model
Sarith Mahanama Dept. of Civil & Structural Engineering The University of Hong Kong	16 stations in the Mekong River Basin	Validation of GCM with respect to daily river runoff
Lee McKinney, Sverdrup Technology, Stennis Space Center, USA	10 stations of rivers discharging into the East Asia Sea	Ocean modelling project in the East Asia Sea
John Maingi, Office of Arid Lands, University of Arizona	Tana River (Kenya), Station Garissa (request for data of 1993-1997 - not available)	Dissertation: Land use and vegetation change in response to river basin development in the lower Tana River Basin in Eastern Kenya
Dr. Jonathan I. Matondo, GEP Department, University of Swaziland, Swaziland	Several African Rivers (request pending)	Study about the variability of runoff of large African Rivers
James McManus, NASA/Goddard Space Flight Centre, Greenbelt, U.S.A.	General information (database catalogue)	Database catalogue for general information

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Norman L. Miller, Climate & Integrated Systems Atmospheric Science Division, Lawrence Livermore National Laboratory, University of California, U.S.A.	For 30 rivers, globally distributed: monthly time series and extreme values of discharge	Research project: Large-scale comparison of water vapor convergence, precipitation and evaporation in the NCEP reanalysis with monthly streamflow
Mohamed Ali Ahmed, IHE Delft, The Netherlands	6 stations from the River Nile, GRDC-report No. 5	Study: flow prediction with an artificial neural network
Ellyn T. Montgomery, Physical Oceanographie Dept., Woods Hole Oceanographic Institution, Woods Hole, USA	Report No. 10 and database catalogue, standard data set of 160 stations	Possible use of GRDC data in the research field of oceanic heat and water fluxes, calculation of fluxes into the Atlantic Ocean
Mool, ICIMOD, Kathmandu	Indus, Yangtse, Yellow River	Project of FAO and SIDA: Forestry and key Asian watersheds
Ragu Murtugudde, NASA/GSFC, Greenbelt, USA	Discharge time series for major rivers (catalogue, request pending)	Ocean model simulations
Nicholas O'Connor, UNEP/DEIA/GRID-Geneva, Chatelaine, Switzerland	General information about environmental-related databases	Research project: Information systems with respect to resolving environmental conflicts
Taikan Oki, NASA / Goddard Space Flight Centre, Greenbelt, U.S.A.	130 river discharge stations worldwide	Research project: Estimating of global runoff distribution (global gridded runoff)
Taikan Oki, NASA / Goddard Space Flight Centre, Greenbelt, U.S.A.	80 river discharge stations worldwide	Research project: Estimating of global runoff distribution (global gridded runoff)
Y. Peyvastehgar, Essen	Discharge data from rivers draining into the Caspian Sea (database catalogue)	Dissertation: Sea level changes and regional planning in the Caspian Sea
Tan Yong Piu, Rapporteur for WCP-Water, Government of Singapore, Met. Service	Database catalogue files for the countries of the RA V	Information about the GRDC databases contents concerning Regional Association V of the WMO
Edward V. Podgaisky and Laghoali Driss, Russia State Hydrometeorological Institute, St. Petersburg, Russia	Discharge data of 12 rivers from Morocco	Dissertation / diploma (subject not known)
Matthias Prange, Alfred-Wegener-Institut, Bremerhaven, Deutschland	GRDC Reports 8, 10, 12	General scientific interest
Dr. Roger Proctor, Proudman Oceanographic Lab., Bidston Observatory, Birkenhead, Merseyside, UK	Data from river discharging into the European Shelf Seas, including Baltic Sea (database catalogue)	Project LOIS (Land Ocean Interaction Study)

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Dr. T.V. Ramachandra, Indian Institute of Science, Bangalore, India	Database catalogue, GRDC reports No. 1, 5, 9, 10, 12, 13, 14 and general information material	General information about the availability of GRDC data, data products and software
Prof. V.J. Rayward-Smith, School of Information Systems, University of East Anglia, UK	Ob, Yenesei, Lena	Study about interaction between winter precipitation in Central Asia, river flow, Arctic ice cover and European climate
Liang Ren, Dept. of Hydrology, Hohai University, Nanjing, China	General information about the available GRDC data sets	N.N.
Lars Ribbe, Fachhochschule Köln, Institut für Tropentechnologie, Köln, Germany	River Barada, Syria	Water Resources Management in Arid Regions - A Case Study of Damascus Basin (Diploma)
Matthew Rodell, Dept. of Geological Sciences, University of Texas, Austin, USA	71 stations of major rivers of the world	Computation and analysis of water balances over large river basins of the world
Mark W. Rosegrant and Claudia Ringler, International Food Policy Institute, Washington, U.S.A.	Discharge data for Maipo River (Chile)	Research project: Modelling of water resource allocation, estimation of agricultural production and others
Dr. K. Rubinstein, Hydrometeorological Centre of Russian Federation, Moscow	Dataset of 160 stations (flux calculation stations)	Study: Role of large-scale water cycle in global climate system
Dr. B. Rudolf, Global Precipitation Climatology Centre, Offenbach, Germany	55 stations worldwide	General research purposes, collaboration GRDC/GPCC
Cord Ruhe, International Baltex Secretariat, GKSS Forschungszentrum Geesthacht, Deutschland	7 river discharge stations from Russia and Finland	Examination of river runoff processes in the Baltex-area
K. Schulte, University of Colorado, Boulder	Database catalogue of Albania	General information about the availability of discharge data of Albania
Bernd Schwan, IUS GmbH, Heidelberg, Germany	3 rivers from Poland	Environmental Impact Assessment for the German Waterways and Shipping Administration
Bernd Schwan, IUS GmbH, Heidelberg, Germany	9 stations from the Oder	Environmental Impact Assessment for the German Waterways and Shipping Administration
Prof. Igor Shiklomanov, Russia State Hydrological Institute, St. Petersburg, Russia	3 stations from Rhein, Weser, Elbe	Analysis of changes of in river runoff of the Northern Hemisphere in different periods

Request made by (Name, country)	Country or river for which data were requested	Purpose of data use
Dr. Laurence C. Smith, University of California, Los Angeles, Dept. of Geography, USA	GRDC Report No. 12	General information
Alejandro Spitzzy, Institut für Biogeochemie und Meereschemie, Universität Hamburg, Germany	Database catalogue extract for Malaysia	General information about availability of gauging stations in Malaysia
Ronald E. Stewart, Climate Processes and Earth Observation Division, Atmospheric Environment Service, Canada	General information about GRDC	Presentation of GRDC in meeting of GEWEX Hydrological Panel (GHP)
Dr. Kevin Telmer, Geological Survey of Canada	General information about the availability of GRDC data	Research projects about the biogeochemistry of rivers
Dr. Dusan Trninic, Meteorological and Hydrological Service, Zagreb, Croatia	20 stations from the Danube River basin and its tributaries	IHP-UNESCO research project: Relationship between precipitation, air temperature and discharges over the Danube river basin
Wolfgang Vosseler, Chemnitz, Germany	Hydrological data from China (database catalogue)	Study: Situation of the drinking water provision and waste water management in China
Dr. Rolf Weingartner, Geographisches Institut der Universität Bern, Gruppe für Hydrologie, Schweiz	52 rivers worldwide	Contribution for Freshwater Conference of the UN Commission for Sustainable Development: "Mountains of the world - Water towers for the 21st Century"
Wiley, A. U.S. Army Topographic Engineering Centre Alexandra, VA, U.S.A	All rivers of Ecuador	Water resources appraisal
Yonkang Xue, Center for Ocean-Land-Atmosphere Studies, Calverton, U.S.A.	Database Catalogue of East Asia	Database catalogue for a planned research project
W. F. Zimmermann, Consortium for International Earth Science Information Network	GRDC catalogue	General information about international shared water resources
Dr. Franz Zunic, Lehrstuhl für Wasserbau und Wasserwirtschaft, Technische Universität München, Germany	6 stations worldwide with long time series	Synthetic generation of discharge time series

Database Requests 1998

Request made by (Name, Country)	Country or river for which data were requested	Purpose of data use
Dr. Heike Bach, Vista GmbH, Wessling, Germany	GRDC Reports No. 5 and 10	General interest
Gijs van Banning, Alkyon Hydraulic Consultancy & Research, Emmeloord, The Netherlands	General information about discharges (average and maximum) for some Rivers in Myanmar	Report for the projection of the Yadana pipeline project (no data transferred)
Jörg Bareiss, Dep. of Geography / Climatology, University of Trier, Germany	ACSYS data set	PhD thesis: „Climate and sea-ice variability in the Arctic Ocean and adjacent seas“
Mathew Barlow, Dept. of Meteorology, Univ. of Maryland	General information about the availability of GRDC data	
Roy Barnes, Data Support Section, National Center for Atmospheric Research, USA	Update of the initial UNESCO data set „Runoff of selected rivers of the world“ (Request pending)	Not specified
Jörg Belz, Bundesanstalt für Gewässerkunde, Koblenz, Germany	Danube Basin, 21 stations	Update of a monograph for the Danube river
Ronald G. Blohm, Jet Propulsion Lab., California Institute of Technology, USA	Water level data for the Lake Nasser, Egypt (not available)	Not specified
Jonathan Booth, UNEP DEIA GRID, Geneva	32 Nile stations	Potential international environmental conflicts linked with freshwater - the Nile river basin
A. Bronstert/A. Güntner, Potsdam Institute for Climate Impact Research, Germany	39 stations from Brazil	„WAVES“, Water Availability, Vulnerability of Ecosystems and Society in the Northeast of Brazil
Menno Bouma, Head of the Data Centre of the London School of Hygiene and Tropical Medicine, London, UK	Water level data for the Ganges at Brahmaputra from 1880 to 1940 (not available)	Possible connection between water level and diseases
Julie Bournot, Hydrosult Inc. (contract with United Nations Development Programme), Montreal, Canada	Database catalogue information for the Nile basin	Establishment of a website with information about Nile data
Laura Bowling, University of Washington, Dep. of Civil Engineering, USA	Basin outlines for the rivers of the GRDC database	Not specified
G. Robert Brakenridge, Dartmouth Flood Observatory, Department of Geography, Dartmouth College, Hanover, USA	26 stations in Somalia and China	Assessment of river floods by satellite data - checking of the satellite flood imaging results

Request made by (Name, Country)	Country or river for which data were requested	Purpose of data use
Bundesamt für Seeschifffahrt und Hydrographie, Hamburg, Germany	Extreme values and means from 32 rivers draining into the North Sea and the Baltic Sea	Use of freshwater flux data in the operational circulation model for the North and Baltic Sea
Dr. Minkang Cheng, University of Texas at Austin, Center for Space Research	General information about the availability of GRDC data	Not specified
Monica Cheng, Harza Engineering Company (USAID contract), Chicago, USA	Database catalogue information for the Naryn-Syr-Darya River	Not specified
Michael T. Coe, Center for Climatic Research, Univ. of Wisconsin-Madison, USA	84 stations worldwide	Evaluation of a global-scale hydrology model (HYDRA) and a biosphere model (IBIS)
Robert Dill, Deutsches Geodätisches Forschungsinstitut, München, Germany	Global gridded runoff data set (not available)	Study on mass displacements (groundwater storage) and their influence on the Earth rotation
Petra Döll, Wissenschaftl. Zentrum für Ökosystemforschung, Universität Kassel, Germany	160 stations worldwide	Global modelling of consumption, availability of water and prognosis
John R. Dvorsky, USGS EROS Data Center, Sioux Falls, USA	9 stations in Africa	Flood risk for the Greater Horn region of East Africa for the Famine Early Warning System
Rudi Febriamansyah, University of Melbourne, Australia	General information about GRDC	Not specified
Gene Griffin, Cold Regions Research and Engineering Lab., Hanover, USA	2 Rivers from Turkey	Study of snowmelt hydrology in various regions of the world
Valdemar Santos Guimares, Chy Associate Experts on Water Quantity Data, Brazil	Approx.260 stations worldwide	Case studies on water quantity measurements in boundary or transboundary rivers
Kirk Haselton, Institut für Geowissenschaften, Universität Potsdam, Germany	GRDC catalogue	Not specified
Astrid Hillers, United Nations Development Programme, New York, USA	Database catalogue for the Nile basin	Preparation of a workshop of the Nile riparian countries with presentation of available data
Dr. Katie Hirschboeck, Laboratory of tree-ring research, Univ. of Arizon, Tuscon, USA	Information about the GRDC/WMO hydrological station numbering scheme GRDC Report No. 16	Working on a paleoflood database
Kelly Hodgson, GEMS/Water Collaborating Center, Canada	20 stations worldwide	Joint product with GRDC: Calculation of TSS fluxes into the world oceans

Request made by (Name, Country)	Country or river for which data were requested	Purpose of data use
Karl Hofius, IHP-Secretary, Federal Institute of Hydrology, Koblenz, Germany	36 rivers worldwide	Contribution to an encyclopedia of geographical sciences
Kazutoshi Horiuchi, Earth Science & Technology Organization, Tokyo, JAPAN	138 time series	Prediction of changes in the hydrological cycle of the Asian Monsoon Region
A. W. Jayawardena, Dept. of Civil & Structural Engineering, Univ. of Hong Kong	Brahmaputra basin, 32 stations	Use of GCM's to forecast river discharges in basin scales
Ed Josberger, U.S. Geological Survey c/o Univ. of Puget Sound, Tacoma, USA	GRDC-Report No. 12	General scientific interest
Dr. Chris Kilsby, Research Coordinator of Wrinkle, University of Newcastle, England	50 Rivers in Europe	Development of rainfall-runoff and snowmelt models in the WRINCLE-Project
Paul H. Kirshen, Civil Engineering Dept. Tufts University, Medford, USA	China, 21 stations	A hydro-economic approach to representing water resources impacts in integrated assessment models
Frank Koormann, Institut für Umweltsystemforschung, Universität Osnabrück, Germany	GRDC reports No. 13, 16	General interest
Jurate M. Landwehr, USGS, National Center - MS431, Reston, USA	GRDC catalogue 4 stations in Iraq	Preparation of a proposal: surface/groundwater interactions
Shawn M. Lehman, SUNY Stony Brook, Stony Brook, USA	5 rivers in Guyana	Role of rivers in the distribution and diversity of primates
Winchee Lin, School of Oceanography, University of Washington, USA	3 Rivers from Papua-New Guinea	Validation of a model for the biogeochemistry of rivers
Sandra van der Linden, Department of Physical Geography, University of Utrecht, The Netherlands	River discharge data for the Usa River in the Pechora Basin	Development of a water balance model for the Usa River
Dr. Kon-Kee Liu, Visiting Scientist, Horn Point Lab, Univ. of Maryland, Center for Environmental Sciences, USA	6 Stations in China, Laos, Thailand	Development of a biogeochemical model (carbon cycle) for the South China Sea
Dr. Ing. Karl Ludwig, Karlsruhe, Germany	GRDC Report No. 2	General interest
Ralf Ludwig, Universität München, Institut für Geographie, Germany	GRDC Reports No. 2, 5, 16	General interest

Request made by (Name, Country)	Country or river for which data were requested	Purpose of data use
Wolfgang Ludwig, Université de Perpignan, France	Rivers discharging into the Mediterranean Sea	Fluxes of C, N, P and TSS into the Mediterranean Sea
R.E. Manley, Consultant in Engineering Hydrology, Cambridge, England	Russian rivers and waterways (20 stations)	EU-Project (related with TACIS) about Russian waterways
Dr. Jose A. Marengo, Centro de Previsao do Tempo e Estudos Climaticos, Sao Paulo, Brazil	GRDC Reports No. 5 and 10	Not specified
Prof. Jose Luis Mata, Instituto de Mecanica de Fluidos, Universidad Central, Caracas, Venezuela	GRDC Reports No. 5, 10, 19 and 21, information about some rivers in Venezuela	Translation of global warming into hydrological change in the Caroni River basin
Hiroshi Matsuyama, Centro de Previsao do Tempo e Estudos Climaticos, (CPTEC/INPE), Brazil	3 stations in the Amazon Basin	Study on the interannual variability of the hydrological cycle and water budget in the Amazon River Basin
Sönke Maus, Havforskningstitutt, Bergen, Norway	Discharge data of Rivers draining into the Arctic Ocean - 12 stations Report No. 12	ACSYS-Project: Water transformation and the variability of climate change in the Barents Sea region
Thomas A. McClimans, SINTEF Civil and Environmental Engineering, Trondheim, Norway	Data for the Ob and Yenisei River	Study of transport processes in the Kara Sea
Prof. T.A. McMahon, Dep. of Civil and Environmental Engineering, University of Melbourne, Australia	Re-use of data delivered by GRDC some years ago	Master's project on the topic of storage-yield analysis
Jeremy Meigh, Institute of Hydrology, Wallingford, UK	62 stations in the river Nile basin	UNDP: Nile River Basin Cooperative Framework
Eduardo Mario Mendiondo, Instituto des Pesquisas Hidraulicas, Universidade Federal do Rio Grande do Sul, Brazil	GRDC Reports No. 5 and 10	General scientific interest
Chris Milly, USGS	23 stations in Brazil (Update of earlier requested data)	Observed and modeled variations of annual discharge from large river basins
Todd Mitchell, Joint Institute for the Study of the Atmosphere and Ocean, Univ. of Washington	Arctic stations (ACSYS data set) Report 8, 10, 12	Relation between variations of the North Atlantic Oscillation and runoff of arctic rivers
Mr. Achite Mohamed, Ecole Nationale Supérieure de l'Hydraulique, Algerie	Publication about reservoir managment and solid matters in Algeria (not available)	Msc thesis
Juan Ignacio de Leiva Moreno, Fisheries Resources Division, FAO, Rome, Italy	Information about the availability of discharge data of rivers flowing into the world's oceans	Different purposes, e.g. effect of riverine inputs on coastal ecosystems and fisheries resources

Request made by (Name, Country)	Country or river for which data were requested	Purpose of data use
Dr. Dieter Müller, Federal Institute of Hydrology, Koblenz, Germany	Average discharge values of the Dnjepr River	General scientific interest (water quality of the Dnjepr River)
Dirk Müller-Wohlfeil, Nationales Forschungsinstitut des Dänischen Umweltministeriums	Catchments sizes of the River Meuse in Belgium	Not specified
Dr. Mark Mulligan, Department of Geography, King's College, Strand, London	GRDC Report No. 5	Not specified
Tamon Murofushi, Tokyo Metropolitan University, Japan	Malaysia	Not specified
Ai Nakagawa, Yasuoka Lab., Institute of Industrial Science, Univ. of Tokyo, Japan	18 stations worldwide	Validation of a hydrological water balance model
Kazurou Nakane, National Research Institute for Earth Science and Disaster Prevention, Japan	11 rivers in Thailand, Vietnam and Laos	Regional water balance model for the assessment of hydrological variations due to the Asian Monsoon Activity
Shiro Ochi, Yasouka Lab., Institute of Industrial Science, Unvi. of Tokyo, Japan	North and South America: 13 stations	Validation of a hydrological water balance model
Nick Olejniczak, Univ. of Wisconsin, USA	2500 rivers worldwide (request could not be entertained by GRDC)	Global river discharge project
Chris Perry, International Water Management Institute, Izmir, Turkey	Gediz River in Turkey Lerma River in Mexiko	Not specified
Prof. Oleg Pokrovsky, Main Geophysical Laboratory, St. Petersburg, Russia	GRDC Reports No. 5, 10, 11, 12	General scientific interest
Matthias Prange, Alfred-Wegener-Institut für Polar- und Meeresforschung, Hamburg, Germany	Reports No. 14, 15 and 16, 23 Arctic Stations	Ocean/Sea-ice model: influence of freshwater fluxes on the circulation of the Arctic Ocean
Claudia Ringler, International Food Policy Research Institute, Washington, USA	Mekong Basin, 51 stations	Dissertation: Optimal Allocation and Use of Water Resources in the River Basin - An Intersectoral Focus
Greg Riley, Amoco Production Company, Houston, USA	GRDC Reports No. 5 & 10	PhD thesis about stratigraphy in the Azeri portion of the South Caspian Basin
Mirco Scharfe, Karlsruhe, Germany	General information about GRDC	

Request made by (Name, Country)	Country or river for which data were requested	Purpose of data use
Dr. Karl Schneider, Universität München, Institut für Geographie, Germany	GRDC Reports No. 2, 10, 16	General interest
Ismail Mahmoud Seyam, IHE Delft, The Netherlands	Report No. 5 Niger, Nile, Zambesi: 235 stations	Estimation of freshwater availability in the Niger, Nile and Zambesi Region
Ma Shuwen, The Chinese Academy of Sciences, Beijing, China	1 station of the Brahmaputra River	PhD thesis „Water Resources Assessment of the Yaluzangbujiang River“
Frank Siegismund, Institut für Meereskunde der Univ. Hamburg	17 time series in mid- and North-East-Europe	Reaction of the NE-European Shelf on climate signals of the North-Atlantic, Hamburg Shelf Ocean Model
Ajay Singh, School of Management, Indian Institute of Technology, India	India, 44 stations	Study on the impact of climate change on water resources in India
Jeremy Stoll, NASA Goddard Space Flight Center, Greenbelt, USA	Ob basin, 16 stations	Calibration of a hydrological model for the river Ob basin
Denis Troufleau, Institute of Geography, University of Copenhagen, Denmark	21 stations from Africa (Sahelian Zone) GRDC Reports No. 2, 5, 14	Development of satellite algorithms for estimating areal evapotranspiration (calibration with GRDC and GPCC data)
Kristine Verdin, EROS Data Center (USGS), Hughes STX Corp., Windsor Ct., USA	GRDC catalogue	Quality control of a watershed data set with lat/lon-pairs of the GRDC catalogue
Charles Vörösmarty, University of New Hampshire, Durham, N.H., USA	16 stations near the mouth of large rivers worldwide	Study of the relationship between freshwater river chemistry and coastal river plumes
Jerry Wegiel, Florida State University, Dep. of Meteorology, Tallahassee, USA	Several stations for the Nile for 1995 (not available)	Not specified
P.C. Werner, Potsdam Institut für Klimafolgenforschung	6 stations from Germany, Poland, Czech Republic, Switzerland	Extreme hydrological events in Mid-Europe since 1500
Susan Wijffels, CSIRO Division of Marine Research, Hobart, Australia	160 stations data set used for the calculation of freshwater fluxes (see GRDC Report No. 10)	Lecture about ocean freshwater transport (meeting WCRP, WOCE)
Dariusz Wrzesinski, Institut für Hydrologie und Wasserwirtschaft, Adam-Mickiewicz-Univ., Poznan, Polen	General information about the availability of GRDC river discharge data for Europe and the World	General scientific interest
Yonkang Xue, Dept. of Geography, Univ. of Maryland at College Park, USA	65 stations in East Asia	Interactions between land surface characteristics and hydrological systems in East Asia

Request made by (Name, Country)	Country or river for which data were requested	Purpose of data use
Daqing Yang, Institute for Global Change Research, Tokyo, Japan	Reports 5, 8, 10, 12	General interest
Fumio Yoshino, Faculty of Engineering, Kagawa University, Takamatsu City, Japan	168 Stations with catchment area larger than 25.000 km ² and more than 60 observation years	Study on possible global teleconnections in river discharge data
Lin Zhang, Byrd Polar Research Center, Ohio State Univ. at Columbus, Ohio, USA	Yellow River, Yangtze: 6 stations	Role of sea-ice in global climate change; relation between Antarctic Sea ice and precipitation and runoff in China
Carsten Zilch & Wolfgang Egner, Freie Universität Berlin, Germany	General information about the availability of hydrological in China	Hydrologic modelling within a thesis (diploma)

Database Requests 1999 (January-September)

Request made by (Name, Country)	Country or river for which data were requested	Purpose of data use
Thomas Beckmann Potsdam-Institut fuer Klimafolgenforschung, Germany	Odra River	Precipitation-Runoff- Model for the Odra Basin
H.U. Bender, Kaiserin- Teophanu-Gymnasium Köln, Germany	CD World of Water	Educational purposes
E.H. Chbab, RIZA, Lelystad, The Netherlands	209 time series for stations in North-West-Europe	Regionalized Frequency Analysis of annual maximum river discharges
Daniel Cluis, Université de Quebec, Canada	127 West and Central African Rivers	Climate and Discharge Oscillations in West and Central Africa
Denis Davis, c/o World Meteorological Organisation	Graphs of discharge of the rivers Rhine and Nile	Contribution to WMO Book of Climate Change
Karen Frey, University of California, USA	23 Russian Rivers	Variability of Russian Arctic river discharges, biogeochemistry of Arctic Rivers
Dr. Nick van de Giesen Zentrum für Entwicklungsforschung Universität Bonn	Volta River and tributaries	Calibration of rainfall- runoff-models and routing routines
Phil Graham, Rossby Centre, Swedish Meteorological and Hydrological Institute	8 stations in Poland	Calibration of large-scale hydrological modelling of runoff into the Baltic Sea
Christopher K.H. Guay, College of Oceanic and Atmospheric Sciences, Oregon State University	4 Arctic Rivers	Research on geochemical tracers of Arctic River waters
Uwe Haberlandt, Potsdam Institut für Klimafolgenforschung, Germany	Report No. 2	General interest
Jesse Hammer, Department of Political Science, Emory University, Atlanta, USA	Global river dataset for all continents (not available)	Water stress indices and connection with militarical disputes

Michael Hauhs, Universität Bayreuth, Institut für Terrestrische Ökosystemforschung	Amazonas at Obidos	General research in the field of ecological terrestrial modelling
Magnus Holmer, SOGREAH Company, Grenoble, France	Rhein and Mosel	Impact of chloride load on the water supply of cities along the Mosel and Rhine Rivers
Kazutoshi Horiuchi, Earth Science & Technology Organization, Tokyo JAPAN	Brahmaputra, Irrawady, Salween	Investigating the freshwater balance of the Bay of Bengal
Ross James, Hydrology Unit, Bureau of Meteorology, Melbourne, Australia	CD „World of Water“	General scientific interest
H. René Jensen, Danish Hydraulic Institute	Rivers draining into the North Sea	Establishing of a 3D hydrodynamic model for the North and Baltic Sea
Dr. Michael J. Karcher Alfred-Wegener-Institut fuer Polar- und Meeresforschung Bremerhaven Germany	Reports No. 10, 12	
Dave Knapp, NASA's Goddard Space Flight Center, Greenbelt, USA	CD „World of Water	General overview for river systems of the World
Peter Knippertz, University of Köln	Rivers from Morocco	Study on the precipitation variability in Morocco (GLOWA)
Vladimir Konovalov (and Nan Elias), INSTAAR, University of Colorado at Boulder, USA	CD „World of Water“	General scientific interest
Anne Kremer, Nationales Komitee für Global Change Forschung, Universität Bonn, Germany	Cauvery River, India	Research Project about the Cauvery Water Supply Scheme
Dennis Lettenmaier, University of Washington, Civil and Environmental Engineering	about 500 rivers worldwide	Estimation of baseflow parameters of a macroscale hydrological model

Terry Marsh, Institute of Hydrology, Wallingford, U.K.	9 rivers in Europe	Assessment of Atlantic and North Sea inflows in LOIS (Land Ocean Interface Study)
Thomas A. McClimans, SINTEF CEE, Trondheim, Norway	Ob and Yenesei	Simulation of ocean currents in the Kara Sea
Chris Milly, USGS	23 stations in Brazil (Update of earlier requested data)	Observed and modeled variations of annual discharge from large river basins
Jean Cléophas Ondo, INRS-EAU, Quebec City, Canada	Central and East Afrika	Statistical examination (breaks, instationarity) in African river discharge time series
Patricia Silva, Institut für Geowissenschaften der Universität Kiel, Germany	Rivers draining into the North and Baltic Sea	Development of a mathematical model for coastal morphodynamic changes
Dipl.-Ing. Simon, International Commission for the Protection of the River Elbe (Labe), Germany	20 European Rivers	Basic statistics, extreme values of some European Rivers
Dr. Sergij Suisko, Skevchenko Kiev University, Faculty of Geogragphy, Kiev, Ukraine	88 stations of rivers draining into the Black Sea	Changes in the hydrochemical structure of the Black Sea rivers due to global natural and anthropogenic processes
Magnus Svedmark, Landscape Ecology Group/EES, Uminova Science Park, Umea, Sweden	189 rivers worldwide	Study on the influence of dams and reservoirs on river systems worldwide
Dr.Isabella Velicogna, Department of Physics, University of Colorado, Boulder, USA	Nile River stations	Variability of Nile River flows and the GRACE gravity sattelite mission
Uwe de Vries, Universität Bremen, Fachbereich Geowissenschaften	GRDC Report No. 10	General scientific interest

Nadji Tellro Wai, IRIM-CHAIRE UNESCO Université de Nice-Sophia Antipolis, France	Vina, Mbere, Pendé Rivers	Climate variability and its impacts on the economic development in the Upper Logone River Basin, Chad
Dr. Rolf Weingartner, Geographisches Institut der Universität Bern, Bern, Schweiz	50 Rivers worldwide	Project „Mountains of the World - Water Towers for the 21st Century
Dariusz Wrzesinski, Institut für Hydrologie und Wasserwirtschaft, Adam- Mickiewicz-Univ., Poznan, Polen	150 rivers in Europe	Study „Runoff regimes of rivers in various climatic regions“ (of Europe)

- Report No. 1** Second Workshop on the Global Runoff Data Centre, Koblenz,
(May 1993) Germany, 15 - 17 June, 1992.
- Report No. 2** Dokumentation bestehender Algorithmen zur Übertragung von
(May 1993) Abflußwerten auf Gitternetze. (Incl. abstract in English by the
GRDC: Documentation of existing algorithms for transformation
of runoff data to grid cells) by G.C. Wollenweber.
- Report No. 3** GRDC - Status Report 1992.
(June 1993)
- Report No. 4** GRDC - Status Report 1993.
(June 1994)
- Report No. 5** Hydrological Regimes of the Largest Rivers in the World -
(November 1994) A Compilation of the GRDC Database.
- Report No. 6** Report of the First Meeting of the GRDC Steering Committee,
(December 1994) Koblenz, Germany, June 20 - 21, 1994.
- Report No. 7** GRDC - Status Report 1994.
(June 1995)
- Report No. 8** First Interim Report on the Arctic River Database for the
(July 1995) Arctic Climate System Study (ACSYS).
- Report No. 9** Report of the Second Meeting of the GRDC Steering Committee,
(August 1995) Koblenz, Germany, June 27 - 28.
- Report No. 10** Freshwater Fluxes from Continents into the World Oceans based on
(March 1996) Data of the Global Runoff Data Base.
- Report No. 11** GRDC - Status Report 1995.
(April 1996)
- Report No. 12** Second Interim Report on the Arctic River Database for the
(June 1996) Arctic Climate System Study (ACSYS).
- Report No. 13** GRDC Status Report 1996
(Februray 1997)



Reference of GRDC Reports

- Report No. 14** The use of GRDC - information
(February 1997) Review of data use 1993/1994. Status: January 1997
- Report No. 15** Third Interim Report on the Arctic River Data Base (ARDB) for the Arctic
(June 1997) Climate System Study (ACSYS): Plausibility Control and Data Corrections
(Technical Report)
- Report No. 16** The GRDC Database. Concept and Implementation.
(August 1997)
- Report No. 17** Report on the Third Meeting of the GRDC Steering Committee, Koblenz,
(Sept. 1997) Germany, June 25-27, 1997
- Report No. 18** GRDC Status Report 1997
(July 1998)
- Report No. 19** Evaluation of Statistical Properties of Discharge Data of Stations
(August 1998) Discharging Into the Oceans - Europe and Selected World-Wide Stations -
(F. Portmann)
- Report No. 20** Water Resources Development and the Availability of Discharge Data in
(July 1998) WMO Region II (Asia) and V (South-West Pacific)
- Report No. 21** Analysis of long runoff series of selected rivers of the Asia-Pacific region
(Sept. 1998) in relation with climate change and El Niño effects (Prof. Daniel Cluis)
- Report No. 22** Global Composite Runoff Fields on Observed River Discharge and
(Oct 1999) Simulated Water Balances. 2nd edition
- Report No. 23** Report of the Fourth Meeting of the GRDC Steering Committee, Koblenz,
(Oct 1999) Germany, 23-25 June 1999
- Report No. 24** Use of GRDC Data 1993 – 1999 : a Comprehensive Summary
(Nov 1999)