NILE BASIN INITIATIVE
Initiative du Bassin du Nil

The Nile Basin Initiative Regional Bibliography

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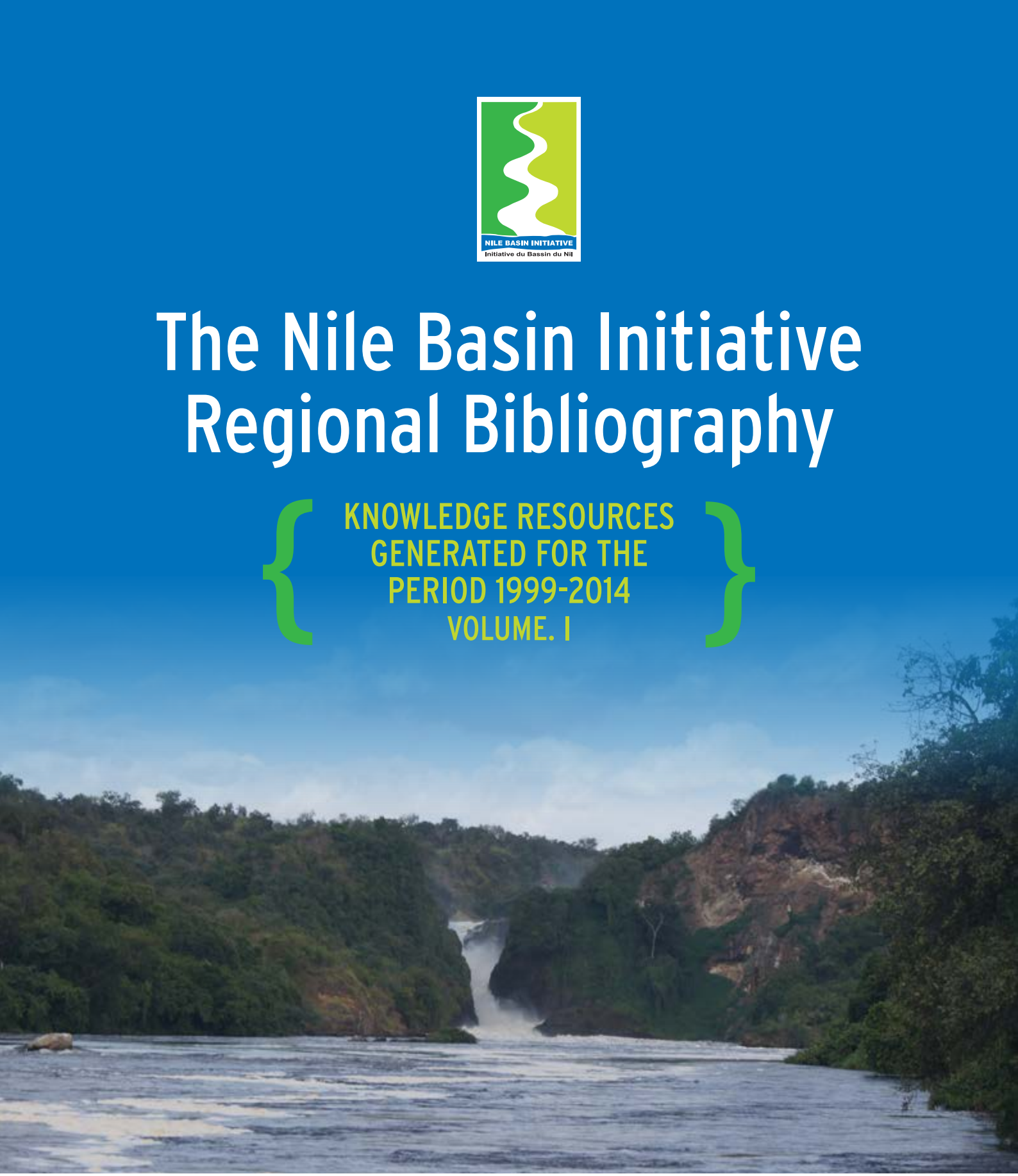

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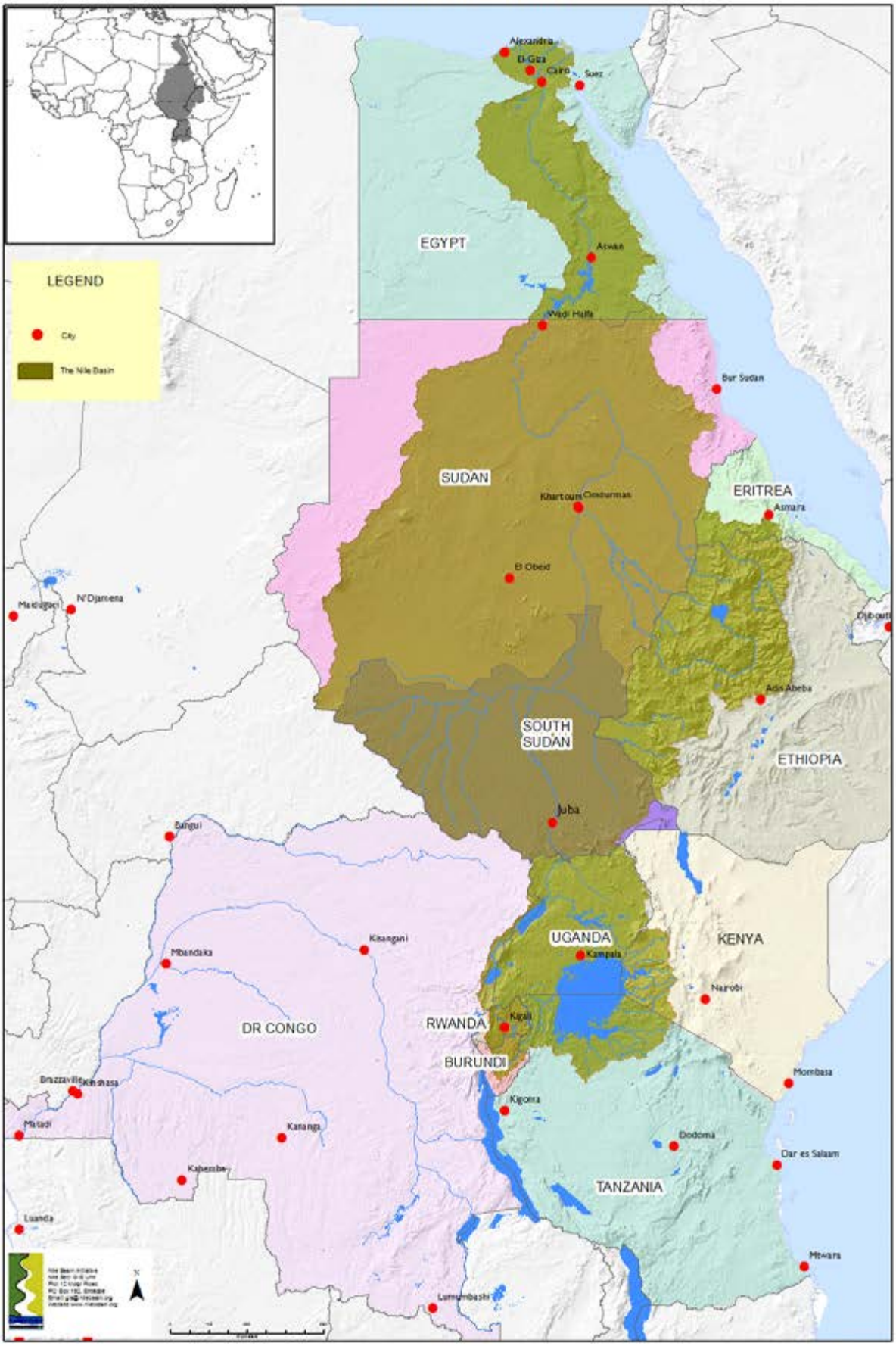
THE NILE BASIN COUNTRIES



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The ideas and opinions expressed in the publication are those of the authors; they are not necessarily those of NBI and do not commit the organization

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Ministry of foreign affairs of Denmark

Ministry of foreign affairs of Finland

Norwegian Ministry of foreign affairs

European Commission

France - AgenceFrancaise de Developpement (AFD)

The Netherlands Ministry of Foreign Affairs

Norwegian Agency for Development Cooperation (NORAD)

UNDP - United Nations Development Program

ABOUT THE NILE BASIN INITIATIVE

The Nile Basin Initiative (NBI) is a transitional intergovernmental partnership led by 10 Member States: Burundi, DR Congo, Egypt, Ethiopia, Kenya, Rwanda, South Sudan, The Sudan, Tanzania, and Uganda. Eritrea participates as an observer.

The partnership was established on 22nd February 1999 and is guided by a **Shared Vision Objective:** *'To achieve sustainable socio-economic development through equitable utilization of, and benefit from, the common Nile Basin Water resources'*.

To achieve the Shared Vision Objective, NBI implements three core functions:

Basin Cooperation -To facilitate, support and nurture cooperation amongst the Nile Basin countries so as to promote timely and efficient joint actions required for securing benefit from the common Nile Basin water resources.

Water Resource Management - To assess, manage and safeguard the water resource base that supports the peoples of the Nile Basin through applying the principles of knowledge-based integrated water resources management to water development planning and assessment

Water Resource Development - To identify, prepare and facilitate investment in regional/ trans-boundary water development projects and programs whilst avoiding negative impacts on the health of the Nile Basin's resources through applying the principles of integrated water resources management

Day to day management is from the three NBI centers namely the Nile-Secretariat (Nile-SEC) based in Entebbe Uganda, Nile Equatorial Lakes Subsidiary Action Programme (NELSAP) based in Kigali, Rwanda and the Eastern Nile Technical Regional Office (ENTRO) based in Ethiopia, Addis Ababa.

FOREWORD

STATEMENT BY THE NILE BASIN INITIATIVE HEADS OF CENTRES

We are pleased to introduce to you the Nile Basin Regional Bibliography that show cases the wealth of knowledge that has been generated by the Nile Basin Initiative (NBI) from the time it was established in 1999 to date. The Bibliography highlights the unique development program and projects that have been implemented in the NBI Member States, to enhance basin cooperation.

This Bibliography is thematically organized and the citations described are incorporated from the three NBI Centers (Secretariat in Entebbe, Eastern Nile Technical Regional Office in Addis Ababa and the Nile Equatorial Lakes Subsidiary Action Program Coordination Unit in Kigali).

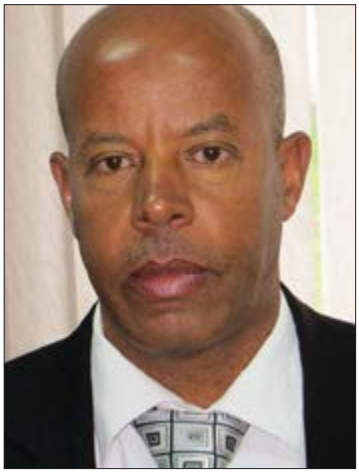
We would like to take this opportunity to appreciate the great efforts made by NBI to such develop a dynamic and shared knowledge base with a wide range of knowledge products. The products can be accessed by our stakeholders through different knowledge tools developed by NBI and hosted within its three Centers.

We wish to express our sincere gratitude to our development partners for their dedicated support in the development of the knowledge base.

We are also thankful to the NBI librarians and all those who have contributed to the successful production of this Nile Basin Regional Bibliography.

We wish you pleasant reading.

John Rao Nyaoro, HSC
Executive Director
Nile Basin Initiative - NILE-SEC



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CONTENTS
BY THEME

ACRONYMS

AFDB African Development Bank
ATP Applied Training Project
BSF Benefit Sharing Framework
CBSI Confidence Building And Stakeholder
CFA Involvement Project
CGIAR Cooperative Framework Agreement Consultative Group on International Agriculture Research.
CIDA Canadian International Development Agency
DANIDA Danish International Development Agency
DFID Department for International Development
DSS Decision Support System
EAC East African Community
EAPM Eastern African Power Market
EAPP East African Power Pool
EC European Commission
EIA Environmental Impact Assessment
EN Eastern Nile
ENCOM Eastern Nile Council of Ministers
ENPM Eastern Nile Planning Model
ENSAP Eastern Nile Subsidiary Action Program
ENTRO Eastern Nile Technical Regional Office
ESMF Environment and Social Management Frame Work.
EWUAP Efficient Water use for Agricultural Production
FAO Food and Agriculture Organization
GA Grant Agreement
GEF Global Environment Facility
GTZ German Agency for Technical Cooperation
HYDROMET Hydro Metrological Survey of the Catchments of Lakes Victoria, Kyoga and Albert
IBRD International Bank For Reconstruction and Development
ICCON International Consortium for Cooperation on the Nile
ICRR Implementation Completion And Results Report
IDA International Development Association
IDS International Design Study
IGAD Intergovernmental Authority On Development
ISR Implementation Status Report
IWMI International Water Management Institute
IWRM Integrated Water Resources Management
JMP Joint Multipurpose Program
LSI Large- Scale Irrigation
LVBC Lake Victoria Basin Commission
LVEMP Lake Victoria Environmental Management Project
M&E Management and Evaluation
MDG Millennium Development Goal
MENA Middle East and North Africa

MDTF Multi-Donor Trust Fund
MS Management Services Agreement
MTR Mid-Term Review
NBI Nile Basin Initiative
NBD Nile Basin Discourse
NBI-ISP Nile Basin Initiative Institutional
NBDF Nile Basin Development Forum
NBSF Nile Basin Sustainability Framework
NBTF-C Nile Basin Trust Fund Committee
NBUF Nile Basin University Forum
NEL Nile Equatorial Lakes
NELCO Nile Equatorial Lakes Council of Ministers
NELSAP Nile Equatorial Lakes Subsidiary Action Program
NELSAP-CU Nile Equatorial Lakes Subsidiary Action Program Coordination Unit
NELTAC Nile Equatorial Lakes Technical Advisory Committee
NGO Non-Governmental Organization
NILE-COM Nile Council of Ministers
NILE-IS Nile Information System
NILE-TAC Nile Basin Initiative Technical Advisory Committee
Nile-Sec Nile Basin Initiative Secretariat
NORAD Norwegian Agency for Development Cooperation
NPCs National Project Coordinators
NRM&D Natural Resources Management and Development
NRBAP Nile River Basin Action Plan
NTEAP Nile Trans-Boundary Environmental Action Program
PAD Project Appraisal Document
PD&T Power Development And Trade
PHRD Policy And Human Resources Development Fund
PI Participating Institution
PICRR Programmatic Implementation Completion and Results Report
PMU Project Management Unit
PPM Project Planning And Management
PPP Public-Private Partnership
PRSP Poverty Reduction Strategy Paper
PSC Project Steering Committee
PTC Power Technical Committee
RATP Regional Agriculture Trade and Productivity Project
RBM&D River Basin Management and Development
RBO River Basin Organization
RBS Results Based System
RPM Regional Project Management
RPT Regional Power Trade
RRFP Regional Rusumo Falls Hydroelectric and Multipurpose Project
SAP Subsidiary Action Program

SDBS Socioeconomic Development and Benefit Sharing Project
SIDA Swedish International Development Agency
SSEA Strategic/Sectoral and Environmental Assessment
SVP Shared Vision Program
SVP-CP Shared Vision Program Coordination Project
TDA Trans-Boundary Diagnostic Analysis
TECCONILE Technical Cooperation Committee of and for the Promotion of the Development and Environmental Protection of the Nile Basin
TIWRM Trans-Boundary Integrated Water Resources Management
TOR Terms of Reference
UNDP United Nations Development Program
UNOPS United Nations Office of Project Services
WRPM Water Resources Planning and Management
BMU Beach Management Unit
CES Catch Effort Surveys
CM Council of Ministers
DRC Democratic Republic of Congo
FIMS Fisheries Information Management System
FLEVICA Fleuves d'Eau Vire qui Coulent anx Autres
GNP Gross National Product
JTC Joint Technical Committee
LEABO Lakes Edward and Albert Basin Organization
LEAF Lakes Edward and Albert Fisheries Pilot Project
LVFO Lake Victoria Fisheries Organization
MCS Monitoring, Control Surveillance
MoU Memorandum of Understanding
NRM Natural Resource Management
PAs Protected Areas
PNV Virunga National Park
PSC Policy Steering Committee
SV Shared Vision
QENP Queen Elizabeth National Park
RPSC Regional Policy Steering Committee
WG Working Group

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I

THEME: AGRICULTURE AND IRRIGATION

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This document plus the audio visual formats, provides best practices/sites, guidelines, Action Plans for Possible irrigation Investments by Subsidiary action projects

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This comprehensive document includes weaknesses and opportunities, possible high potential best practices and sites, preliminary evaluation of national and regional stakeholders, preliminary overview of future directions and possible investment priorities in agricultural water management.

*Dr.IsayaV.Sijali, 2007.**Rapid baseline assessment of agricultural water in Kenya**, ©Nile basin initiative, published by Nile basin initiative-Efficient water use for agricultural production project.63pp.*

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*David Mburu, 2008.**Best practices for water harvesting and irrigation in Kenya,** ©2007Nile basin initiative, published by Nile basin initiative- Efficient water use for agricultural production project.97pp*

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This report provides information on the available best practices and sites of excellence in agricultural water use. It's a follow up of the previous works carried out by the EWAUP project.

Nile Basin Initiative, 2012. ***Core agricultural functions study Proposed Framework: Options and Functions for a NBI/Nile River Basin Commission Agricultural Agenda- Technical report.*** *©2012 Nile basin initiative. 198pp*

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Johannes O. Odhiambo, 2009. ***Review of Agriculture in other River Basins: study report****. ©2009 Nile basin initiative. 123pp*

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L'Egypte importe plus de la moitié de sa nourriture. En moyenne, le bassin dépend de la nourriture importée à environ 25% de ses besoins totaux (FAO, 2000) et ce chiffre a augmenté ces dernières années. Sur la base de ces chiffres et d'un examen des rapports scientifiques, les conclusions suivantes sont faites: Le bassin ne peut nourrir sa population croissante, et satisfaire aux besoins d'une classe moyenne croissante en milieu urbain en se contentant de l'agriculture irriguée seulement.

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This publication presents the results of an interactive process-Food for Thought (F4T)-in which some 25 participants from all Nile countries engaged in a joint scenario building exercise. It examines the uncertain future of the demand for agricultural produce in the Nile Basin for 2030.

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This report aims to develop information product for decisions on water policy and water resources management in the Nile Basin, One important element of the project is a Basin-wide analysis of agricultural water productivity, Annex from1-7.

Philip Riddell… [et al.], 2011. ***Projection Report: Agricultural use projections in the Nile Basin 2030: Comparison with the Food for Thought (F4T) Scenarios,*** *©FA0 2011, FA0 Nile.56PP.*

This report developed as asset of information product to serves as the basis for decisions on water policy and water resources management in the Nile Basin, Annex included

Annex 1: The Excel files.

Annex 2: Estimated agricultural water use and withdrawals in the Nile Basin.

FOA Nile, 2011. ***User manual for the Projections Software: Agricultural water use projections in the Nile Basin to 2030: Comparison with food for through scenarios,*** *©FA0 2011, FA0 Nile.20 PP.*

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Module 1- Cropping systems and agricultural water productivity

Module 2- The scenario builder

Module 3- The calculation platform.

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This publication reviews irrigation schemes and modernisation initiatives from around the world in order to assess and comment on the impact of modern water control and management approaches. The report includes with recommendations for the consideration of planners, managers and lending agencies so that the benefits of modern irrigated agriculture can realised.

Dewasish Choudhary, 2008. ***Irrigation Theory and Practice,*** *©2008 Anmol Publications PVT.LTD, 289pp.*

This book Provides guidelines to enable practitioners to apply the process and procedures that have evolved. This book will be interest to researchers and professionals in irrigation, drainage, soils and agricultural engineering.

Eastern Nile Technical Regional office (ENTRO), [2007]. ***Eastern Nile irrigation & drainage study, inception report: appendices,*** *©[2007] BRL, 27 pp.*

This report includes eights appendixes:

Appendix 1.1: list of person during inception phase.

Appendix 3.1: list of document identified during inception phase

Appendix 3.2: Extracts on region 4 projects from Aby Master plan.

Appendix 5.1: Information on Angar and Nekemte dams and reservoirs.

Appendix 5.2: Approach and methodology of study.

Appendix 8.1: Detailed schedules of activities component ES

Appendix 8.2: Detailed schedule of activities component CRA

Eastern Nile Technical Regional office (ENTRO), [2007]. ***Eastern Nile irrigation & drainage study, inception report: appendices,*** *©[2007] BRL, 37 pp.*

The report presents the results of the inception phase, covering the period 11th September – 10th October. During this phase the consultants has collected, studies, maps, drawing, and other relevant information and has reviewing data, available on the relevant GIS database in Ethiopia and Sudan.

Eastern Nile Technical Regional office (ENTRO), 2008. ***Technical note no.1: comparison of Dinger Bereha and Nekempte projects, draft.*** *©2010 MCE, BRLI, Shoraconsult, 22 pp.*

This study has shown that the both Dinger Bereha and Nekemete schemes are dependent on dams for regulated flows and therefore selection has to be on other indicators such as investment costs, O&M costs, IRR (all for irrigation only), proximity to major roads and market centers, population density and environmental impact.

Eastern Nile Technical Regional office (ENTRO), 2009. ***Eastern Nile irrigation & drainage studies, complementary surveys Dinger Bereha, inception report: final version,*** ©2009 MCE, BRLI, Shoraconsult , 64 pp.

This report is based on the RFP, the consultant proposal, the findings of this phase indicated that there was a need to undertake detailed field surveys related to soils, topography and geotechnical investigation which would be a critical input to the feasibility study under the Engineering sub-component.

Eastern Nile Technical Regional office (ENTRO), 2009. ***Eastern Nile irrigation and drainage studies, component 1, phase 1: diagnostic and planning phase, main report,*** *©2009 MCE, BRLI, Shoraconsult, [176] pp.*

This report present the results of phase 1, and display information collected by the consultants as, studies, maps, drawing, and other relevant information and reviewed data, available on the relevant GIS database in Ethiopia and Sudan.

Eastern Nile Technical Regional office (ENTRO), 2009. ***Eastern Nile irrigation & drainage studies, complementary surveys Wad Meskin, inception report: final version,*** ©2009 MCE, BRLI, Shoraconsult , 57 pp.

The findings of this phase indicated that there was a need to undertake detailed field surveys related to soils, topography and geotechnical investigation which would be a critical input to the feasibility study under the Engineering sub-component.

Eastern Nile Technical Regional office (ENTRO), 2009. ***Cooperative regional assessment, final consultation and training workshop report: Egypt, 30th October – 6th November 2009****. ©2009 BRLI, 42 pp.*

The workshop aims to a achieved the best result from the Cooperative regional assessment (CRA) component of Eastern Nile irrigation and drainage studies (ENIDS), through providing additional information and addressing national and regional issues and priorities. Consultation will also help stakeholders to better understand the benefits of cooperation and development of irrigation system.

Eastern Nile Technical Regional office (ENTRO), 2009. ***Eastern Nile irrigation and drainage studies, cooperative regional assessment, guidelines for identification and assessment of irrigation & drainage project****, ©2009 ENTRO, 71 pp.*

The guidelines cover the analysis of irrigation projects with view of selecting the preferred projects and feasibility study (or assessment) of selected projects.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, feasibility study Wad Meskin irrigation project, final report: executive summary****, ©2010 MCE, BRLI, Shoraconsult, 38 pp.*

This study aims at contributing to the enhancement of food security, reduction of rural poverty, and reduction of population pressures in the region, with all associated benefit effected on the environment.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, feasibility study Wad Meskin irrigation project, final report, Volume 1: main report,***©2010 MCE, BRLI, Shoraconsult, 101 pp.

The report presents the results of the fully completed soils and topographic investigations and the partly completes geotechnical investigations in the Wad Meskin Project area that were carried out before accessibility of the area became impossible by the end of June.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, feasibility study Wad Meskin irrigation project, final report, Volume 2: Annexes 1-6****, ©2010 MCE, BRLI, Shoraconsult, [189] pp.*

This volume includes sixth annexes:

Annex 1: climatology, hydrology and water resources

Annex 2 topography

Annex 3: soils, land suitability and land use

Annex 4: sociological aspects and land tenure

Annex 5: geophysical and geotechnical investigation

Annex 6: agriculture and livestock

Eastern Nile Technical Regional office (ENTRO), 2010. ***EasternNile irrigation and drainage studies, feasibility study Wad Meskin irrigation project, final report, Volume3: Annexes 7-13****, ©2010 MCE, BRLI, Shoraconsult, [183] pp.*

This volume includes seven annexes:

Annex 7: hydraulics and irrigation engineering

Annex 8: infrastructure

Annex 9: canceled

Annex 10: environmental and social impact assessment

Annex 11: organization and management

Annex 12: financial and economic analysis

Annex 13: cost tables

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, feasibility study Wad Meskin irrigation project: final report, Volume IIA, annex A: Topography,annex B : soil survey and land evaluation****, ©2010 MCE, BRLI, Shoraconsult, [105] pp.*

This volume includes tow annexes:

Annex A: topography

Annex B: soil Survey and land use

Eastern Nile irrigation and drainage studies (ENIDS), 2008. ***Eastern Nile irrigation and drainage studies, component 2, phase2: Analysis, draft report****, ©2010 BRLI, 139 pp.*

This analysis report has tow part: First part gives a general picture of existing irrigation development in the Eastern Nile countries. The second part is a presentation of proposed irrigation and drainage development scenarios and analyses the related challenges and opportunities in the EN countries and other developing region.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, feasibility study Wad Meskin irrigation project, final report, Volume maps Drawings A3****, ©2010 MCE, BRLI, Shoraconsult, [35] pp.*

This volume includes 35 drawings in paper size A3, for the:

Rahad barrage, Salsal barrage (Dinder river), KhorAtshan crossing, Link canal alignment and profile, long sections of canals and Field layout.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, feasibility study Dinger Bereha, final report: executive summary****, ©2010 MCE, BRLI, Shoraconsult, 37pp.*

The Study has two components:

The Engineering Sub-component to identify and study at feasibility level a total of 15,000 ha (net) in Ethiopia and Sudan for development of irrigated agriculture.

The Cooperative Regional Assessment (CRA).

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, field investigation Dinger Bereha, final report, Volume I: main report****, ©2010 MCE, BRLI, Shoraconsult, 139 p.*

This feasibility study (FS) report for the Dinger Bereha irrigation project comprise one main report and six volume of annexes, maps and drawing and has been prepared in accordance with requirement of the contract for the FS phase 2 of the Engineering Component of Eastern Nile Irrigation and Drainage Study (ENDS).

The study will contribute to attaining the agricultural sector goals of the participating countries (Egypt, Ethiopia and Sudan), towards an integrated approach to irrigation and drainage development in the Eastern Nile sub-basin as a means for enhancing food security, poverty reduction, improved welfare of the rural population and sustainable natural resource management.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, feasibility study Dinger Bereh, final report, Volume 2: annexes 1-3,*** *©2010 MCE, BRLI, Shoraconsult, [250] pp.*

This volume includes three annexes:
Annex 1: Climatology, Hydrology and Groundwater Resources
Annex 2: Topographic Surveys and Mapping
Annex 3: Soils, Land Suitability and Landuse

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, feasibility study Dinger Bereha, final report, Volume 3: annexes 4-6,*** *©2010 MCE, BRLI, Shoraconsult, [133] pp.*

Thisvolume includes three annexes
Annex 4: Sociological Aspects and Land Tenure
Annex 5: Geophysicaland Geotechnical Investigations
Annex 6: Agriculture and Livestock

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, feasibility study Dinger Berea, final report, Volume 4: annexes 7,*** *©2010 MCE, BRLI, Shoraconsult, 74 pp.*

This volume includes one annex

Annex 4: Hydraulics and Irrigation Engineering

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies (ENIDS), feasibility study Dinger Bereha: final report, Volume 5: annexes 8-12****, ©2010 MCE, BRLI, Shoraconsult, [149] pp.*

This volume includes five annexes

Annex 8: infrastructure

Annex 9: marketing, Credit, Input Supply and Storage

Annex 10: environmental and Social Impact Assessment

Annex 11: 0rganisation and Management

Annex 12: financial and Economic Analysis

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, feasibility study Dinger Bereha: final report, Volume maps and drawing****. ©2010 MCE, BRLI, Shoraconsult, [34] pp.*

This report includes 12 maps and 22 drawings in paper size A3, describe:

Location of Headwork's, Main Canal and Irrigation System, Layout of Irrigation System in Command Area, (original scale 1:25,000), Main Canal Alignment, Headwork's, Gauging Weir, Long Sections Canals, Cross Sections Primary Canal, Cross Drainage Structures, Side Weir, Inverted Siphon, Reservoir, Reservoir, Modular Canal Offtake

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies (ENIDS), feasibility study Dinger Bereha: final report, Volume 6: annex 13****, ©2010 MCE, BRLI, Shoraconsult, [78] pp.*

This volume includes one annex:

Annex 13: Bills of Quantities and cost Tables

Eastern Nile Technical Regional office (ENTRO), 2010. ***Draft report, eastern Nile irrigation and drainage studies, cooperative regional assessment, phase3: finalization and conclusion report,*** *©2010 MCE, BRLI, Shoraconsult, 144 pp.*

The aim of this report is to formulate proposal for regional processes and activities that would contribute to shared vision of the Nile Basin Initiative, and to the more specific objectives of the regional cooperation in the irrigation sector.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, field investigations study Dinger Bereha: final report, Volume IIA, annex A&B,*** *©2010 MCE, BRLI, Shoraconsult, [269] pp.*

This volume includes tow annexes:

Annex A: topography

Annex B: soil and land suitability

Eastern Nile Technical Regional office (ENTRO), 2010. ***Eastern Nile irrigation and drainage studies, field investigations study Dinger Bereha: final report, Volume IIB: annex C,*** *©2010 MCE, BRLI, Shoraconsult, [114] pp.*

This volume includes one annex:

Annex C: Geotechnical investigations

Eastern Nile Technical Regional office (ENTRO), 2010. ***Pilot Study on improving water use efficiency and productivity on Rahad irrigation scheme-Sudan: final report,*** *©2010 SMEC, [109] pp.*

The study assesses the performance of Rahad Irrigation Scheme using range of indicators, both formal and informal, and compares the Scheme's overall performance rating with attributed by efficient water use for agricultural production for large scale irrigation study. It also includes an Action Plan for remedial works, cost it and evaluate the expected benefits, and carry out a cost benefit analysis.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Pilot Study on improving water use efficiency and productivity on Rahad irrigation scheme-Sudan: appendices- final report,*** *©2010 SMEC, iii, [146] pp.*

This volume includes five appendixes:
Appendixes A: Climate data
Appendixes B: Economic conversion factors
Appendixes C: Irrigation data
Appendixes D: Institutional aspects
Appendixes E :Rahad irrigation scheme household survey

Eastern Nile Technical Regional office (ENTRO), 2010. ***Pilot Study on improving water use efficiency and productivity on selected small scale irrigation schemes in Ethiopia: final report,*** *©2010 SMEC, iii, 87 pp.*

The study aimed to select a small sample of irrigation schemes through the Ethiopian sector of sub-basin, study their peculiar problems and make cost effective recommendations for improving their performance.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Pilot Study on improving water use efficiency and productivity on selected small scale irrigation schemes in Ethiopia: appendices- final report,*** *©2010 SMEC, iii, [223] pp.*

This volume includes eight appendixes:
Appendixes A: Climate data
Appendixes B: Economic conversion factors
Appendixes C: Irrigation data
Appendixes D: Agriculture
Appendixes E: Institutional aspects
Appendixes F: Robi river irrigation scheme household survey
Appendixes G: Geray irrigation scheme household survey
Appendixes H: GerebMihiz irrigation scheme household survey

Eastern Nile Technical Regional office (ENTRO), 2013. ***Multi-Criteria Assessment of productivity, water use and farm incomes as influenced by institution changes in the Gezira scheme, Sudan: final report,*** *©2013 Civil Engineering Department, Faculty of Engineering, Khartoum University, 43 pp.*

The Gezira scheme has undergone numerous institutional changes in the last decade. The Multi-Criteria Analysis (MAC) Tool was developed and applied to explore how the different regions in the scheme are influenced by institutional changes.

FAO, 2011. ***Projection report: agricultural water use projections in the Nile basin2030: comparison with the Food for Though (F4T) scenarios,*** *Cooperazioneltaliana, Nile Basin Initiative (NBI), ©2011 FAO, 56pp.*

This report present the results of the study and has seven sections including, back ground and introduction, agriculture towards 2030/2050 and food for thought (F4T)scenarios, data consolidation and the projection protocol, the basic water use results, moving from water use to water productivity- an analytical framework, results, discussion and recommendation.

FAO, 2011. ***Food for thought: demand for agricultural produce in the Nile Basin for 2030: for scenarios, Cooperazioneltaliana, Nile Basin Initiative (NBI),*** *©2011 FAO, 54pp.*

This report includes three sections, part I examines the relevant of the F$T scenarios exercise and describes the scenario development process. part II discusses the starting conditions, predetermined elements and key uncertainties. part III presents guidelines on how to use the scenario set.

Adugna, Belayneh, 2014. ***Manual for training of trainers on: nursery management and biological SWC conservation measures, Eastern Nile Technical Regional office (ENTRO),*** *©2014 ENTRO, 64 pp.*

This manual is aimed to pinpoint the basic principles and practices of integrated watershed management and focuses more on the tools and techniques to be applied during planning and implementation of watershed interventions.

Ashraf El Syed Ismail [2010]. ***Sediment & water quality monitoring for eastern Nile basin, phase I: review exiting situation (Egypt), Eastern Nile Technical Regional office (ENTRO), Watershed Management Project,*** *©[2010] ENTRO, 163 pp.*

The objective of this report is to established a long term coordinated system of sediment and water quality monitoring and knowledge development for effective watershed planning for Egypt including all water bodies not limited to main Nile, tow branches, irrigation networks, drainage network, Egyptian lakes and north coast, and facilitating stakeholders consultation, information and knowledge sharing, and building institutional capacity at national levels.

BelaynehAdugna, 2014. ***Manual for training of trainers on: principles and practices of integrated watershed development, Eastern Nile Technical Regional office (ENTRO),*** *©2014 ENTRO, iii, 51 pp*

This training manual has two major parts: Nursery Management and Biological Soil and Water Conservation (BSWC). The prime purpose of this manual is to serve as reference for forestry and watershed development experts at various levels to use it as training material.

Carsten Staub, 2012. ***Design of sediment & Water Quality Monitoring System for Eastern Nile Countries, Eastern Nile Technical Regional office (ENTRO),*** *©2012 [265] pp.*

The over-arching goal of the consultancy service is to establish a basin wide sediment monitoring system in order to assess the level of erosion and sedimentation rate and determine the impacts (short- and long-term, positive and negative) of the Watershed Management Project in the basin on erosion, and sedimentation rates.

Carsten Staub, (2012). ***Design of sediment & Water Quality Monitoring System for eastern Nile Countries, Eastern Nile Technical Regional office (ENTRO),*** *©2012 ENTRO, 10 maps, [178]pp.*

The over-arching goal of the consultancy service is to establish a basin wide sediment monitoring system in order to assess the level of erosion and sedimentation rate and determine the impacts (short- and long-term,positiveand negative) of the Watershed Management Project in the basin on erosion, and sedimentation rates

Desta Belyaneh; Adugnalakaw. (2012). ***A Field guidelines on gully prevention and control. Eastern Nile Technical Regional office (ENTRO),*** *©2012, (ENTRO), 67pp.*

This study is aimed to provide basic knowledge of gully information, its characterization/mapping and practicalapproaches for its control in the context of overall watershed development.

Eastern Nile Technical Regional office (ENTRO), 2005. ***Consultancy one (Phase 1), Screening and ranking of six proposed fast track watershed management projects in Sudan: mission completion report****, ©2005 ENTRO, [127] pp.*

This report briefly summaries the process by which consultants proceeded during the mission, and includes inception report, desk study on readily available and government-supplied documents, national working group meeting, field visits, screening and ranking criteria, project assessment forms, and summary of outputs.

Eastern Nile Technical Regional office (ENTRO), [2006]. ***Eastern Nile Watershed Management project, cooperative regional assessment (CRA) for watershed management, Transboundary analysis, Main Nile Sub-Basin: Draft****, ©2006 HydrosultInc, 72pp.*

This report examines the main Nile. The analysis has been undertaken in five stage, national level analysis for agreed Sub-basins, regional workshop to assure interaction between the national level activities and foster a regional understanding of common issues, consolidate the three national level analysis in system-wide analysis of issues and opportunities to improve livelihoods, and identify additional benefits and opportunities of cooperation in WSM.

Eastern Nile Technical Regional office (ENTRO), [200]). ***Eastern Nile Watershed Management project, cooperative regional assessment (CRA) for watershed management, Transboundary analysis: final country report: Sudan****, ©2006 HydrosultInc, 236pp.*

This report contains the results of the national level analysis for Eastern Nile Basin within Sudan. It comprise: a review successful experience of interventions to address watershed interventions, stakeholder consultation in selected relevant location, a detailed problem and solution analysis for each watershed for current trends in land degradation, policy and institution issues conductive as well as hindering successful interventions on the national level and an outline of long-term capacity building and monitoring needs to evaluate successes / impacts of interventions on the watershed.

Eastern Nile Technical Regional office (ENTRO), [2006], ***Eastern Nile Watershed Management project, cooperative regional assessment (CRA) for watershed management, Transboundary analysis: country report: Egypt*** ©2006 HydrosultInc, 97pp.

This report contains the results of the national level analysis for Eastern Nile Basin within the catchment area of Lake Nasser/Nubia. the report comprise: a review successful experience of interventions to address watershed interventions, stakeholder consultation in selected relevant location, a detailed problem and solution analysis for each watershed for current trends in land degradation, policy and institution issues conductive as well as hindering successful interventions on the national level and an outline of long-term capacity building and monitoring needs to evaluate successes /impacts of interventions on the watershed.

Eastern Nile Technical Regional office (ENTRO), 2006. ***Eastern Nile Watershed Management project, cooperative regional assessment (CRA) for watershed management, Transboundary analysis: country report: Ethiopia****, ©2006 HydrosultInc, 360pp.*

This report contains the results of the national level analysis for Eastern Nile Basin within the Ethiopia. The report comprise: a review successful experience of interventions to address watershed interventions, stakeholder consultation in selected relevant location, a detailed problem and solution analysis for each watershed for current trends in land degradation, policy and institution issues conductive as well as hindering successful interventions on the national level and an outline of long-term capacity building and monitoring needs to evaluate successes /impacts of interventions on the watershed.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Integrated watershed management (Ethiopia), sub-watershed project of fast track projects of eastern Nile subsidiary action programme, interim report: draft,*** *©2007 Halcrow group limited, Metaferia consulting engineering, 51 pp.*

This interim report deals with the progress of project since it inception on 11 January 2007, and specially with project studies and project design concept since the inception report, June 2007.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Integrated watershed management (Ethiopia), watershed project, fast – track projects, detailed project preparation, project implementation plan vol, 1: main report, draft,*** *©2007 Halcrow group limited, Metaferia consulting engineering, 83 pp.*

This report presents the findings of year- long study conducted in 2007 to prepare a fast-track integrated watershed Management project (IWMP) for the (ENTRO). The study was conducted in the three phase with workshop in Bahir Dar held at the end of each phases.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Integrated watershed management (Ethiopia), watershed project, fast – track projects, detailed project preparation, project implementation plan, vol, 1: main report,*** *©2007 Halcrow group limited, Metaferia consulting engineering, 101 pp.*

This report presents the findings of year- long study conducted in 2007 to prepare a fast-track integrated watershed Management project (IWMP) for the (ENTRO). The study was conducted in the three phase with workshop in Bahir Dar held at the end of each phases.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Integrated watershed management (Ethiopia), watershed project, fast – track projects, detailed project preparation, project implementation plan: vol, 2: annexes A – E, draft,*** ©2007 Halcrow group limited, Metaferia consulting engineering, [158] pp.

In this report the project implantation plan main report and it's annexes A-E:
A: Project Area description
B: Unit cost guidelines
C: Project cost estimates
D: Economic and financial analysis table
E: Guidelines for community action planning and implementation

Eastern Nile Technical Regional office (ENTRO), 2007. ***Integrated watershed management (Ethiopia), watershed project, fast – track projects, detailed project preparation, project implementation plan: vol, 2: annexes A – E ,*** *©2007 Halcrow group limited, Metaferia consulting engineering, [168]pp.*

In this report the project implantation plan main report and it's annexes A-E:
A: Project Area and micro watershed descriptions
B: Unit cost guidelines
C: Project cost estimates
D: Economic and financial analysis table
E: procedural guidelines for sub- project selection and implementation

Eastern Nile Technical Regional office (ENTRO), 2007. ***Integrated watershed management (Ethiopia), watershed project, fast – track projects, detailed project preparation, project implementation plan: Vol, 4: annexes G-K,*** *©2007 Halcrow group limited in association, Metaferia consulting engineering, 83 pp.*

In this report the project implantation plan main report and it's annexes G-K:
G: Training Plan
H: Terms of reference for project
I: Monitoring and evaluation
J: Financial management plan
K: Action plan for the first 18 months

Eastern Nile Technical Regional office (ENTRO), 2007. ***Watershed management fast – track projects, Sudan, project implementation plan: final report,*** ©2007 SWECO international AB, Ahfad university,***[337] pp.****project no. 1989151.*

The project implementation plan has been prepared in several steps including preparation and detailed preparation mission. The detailed preparation study furthermore entailed multi-disciplinary assessments i.e. technical, institutional, economic and social and environmental assessments.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Integrated watershed management (Ethiopia), sub-watershed project of fast track projects of eastern Nile subsidiary action programme, project preparation reports (in three Volumes), Vol, III, annex 3: Assessment of land & water intervention, annex 4: climatic analysis and river flow.*** *©2007 Halcrow group limited, Metaferia consulting engineering, iii,[76] pp.*

This report includes two annexes:

Annex 3: Assessment of land & water intervention

Annex 4: climatic analysis and river flow

Eastern Nile Technical Regional office (ENTRO), 2007. ***Watershed management in the eastern Nile Basin: challenges and opportunities for alleviating poverty****, ©2007 ENTRO, 135 pp.*

The primary objectives of this report is to arrest natural resources degradation, alleviate poverty and support more sustainable livelihoods for the peoples of the Basin.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Eastern Nile Watershed Management project, cooperative regional assessment (CRA) for watershed management, Transboundary analysis, Tekezi-Atbara Sub-Basin: Final, Nile Initiative Trust Fund / IDA,*** *©2007 HydrosultInc, xi,175 pp.*

This report comprises an integrated, cross-border analysis of Tekeze-Atbra sub-b in basin system in order to identify the main watershed characteristics and watershed challenges in each of sub-basins and the opportunities and benefits of cooperation in watershed management.

Eastern Nile Technical Regional office (ENTRO), (2007). ***Eastern Nile Watershed Management project, cooperative regional assessment (CRA) for watershed management, Transboundary analysis, Main Nile Sub-Basin: final****, ©2007 HydrosultInc, 109pp.*

This report examines the main Nile. The analysis has been undertaken in five stage, national level analysis for agreed Sub-basins, regional workshop to assure interaction between the national level activities and foster a regional understanding of common issues, consolidate the three national level analysis in system-wide analysis of issues and opportunities to improve livelihoods, and identify additional benefits and opportunities of cooperation in WSM.

Eastern Nile Technical Regional office (ENTRO), (2007). ***Eastern Nile Watershed Management project, cooperative regional assessment (CRA) for watershed management, Transboundary analysis, Tekezi-Atbara Sub-Basin: Draft****, ©2007 HydrosultInc, 89pp.*

This report examines the Tekeze-Atbra Sub-basin. The analysis has been undertaken in five stage, national level analysis for agreed Sub-basins, regional workshop to assure interaction between the national level activities and foster a regional understanding of common issues, consolidate the three national level analysis in system-wide analysis of issues and opportunities to improve livelihoods, and identify additional benefits and opportunities of cooperation in WSM.

Eastern Nile Technical Regional office (ENTRO), (2007). ***Eastern Nile Watershed Management project, cooperative regional assessment (CRA) for watershed management, Transboundary analysis, Tekezi-Atbara Sub-Basin: 2nd Draft****, ©2007 HydrosultInc, [124]pp.*

The report examines potential watershed management (WSM) interventions in terms of four key areas: description of the WSM intervention, the current costs of natural resources degradation , the distribution of social, environmental and economic impacts of a watershed WSM program, and the potential mechanisms for alternative distributions of the costs.

Eastern Nile Technical Regional office (ENTRO), (2007). ***Eastern Nile Watershed Management project, cooperative regional assessment (CRA) for watershed management, benefits of watershed management in the context of A Joint Multi-Purpose programme****, ©2007 HydrosultInc, 9pp.*

This paper summarizes the important benefits that can accrue from sustainable watershed management.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Watershed management fast – track project in Egypt / Sudan, draft project brief for the development and implementation of the LNNMF,*** *©2007 SWECO international AB, project no. 1989152.[50] pp.*

The overall aimed of the LNNMF project is to ensure that general quality of water and aquatic and adjacent terrestrial eco-systems are not hampered by the development of area and the use of natural resources.

Eastern Nile Technical Regional office (ENTRO), (2007). ***Watershed management fast – track project in Egypt / Sudan, draft project brief for the development and implementation of the LNNMF****, ©2007 SWECO international AB, project no. 1989152, 137pp.*

The overall aimed of the LNNMF project is to ensure that general quality of water and aquatic and adjacent terrestrial eco-systems are not hampered by the development of area and the use of natural resources.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Watershed management fast – track project in Egypt / Sudan, draft project brief for the development and implementation of the LNNMF****, ©2007 SWECO international AB, project no. 1989152, [137]pp.*

The overall aimed of the LNNMF project is to ensure that general quality of water and aquatic and adjacent terrestrial eco-systems are not hampered by the development of area and the use of natural resources.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Integrated watershed management (Ethiopia), sub-watershed project of fast track projects , detailed project preparation, Outline pruposed project****, ©2007 Metaferia consulting engineering Halcrow group limited, [62]pp.*

This Report contains five sections dealing with; project background, project rational and design process, project description, implementation arrangements and plan, and appendixes A-I.

Eastern Nile Technical Regional office (ENTRO), 2008. ***Lau watershed management projects in Sudan, working paper 1: area bio-physical description,*** *project no. 1989151000, © 2008 SWECO international AB, [247] pp.*

This document is working paper that deals with Lau watershed management, administrative borders, biophysical, target groups and socio-economic context.

Eastern Nile Technical Regional office (ENTRO), 2008. ***Watershed management fast – track project, Sudan, Lau watershed management projects area, maiwut country, southern Sudan: interim report,*** *©2008 SWECO international AB, project no. 1989151300, [277] pp.*

This FTWMP interim report for Lau Watershed, describe project area, target groups as well as the institutional context is provide.

Eastern Nile Technical Regional office (ENTRO), ***(2008). Watershed management in the Eastern Nile Basin: constraint and opportunities,*** *©2008, ENTRO, 108pp.*

This book describes the objectives of the watershed management project , poverty and natural degradation in the EN basin, watershed management for livelihood improvement, distribution of costs and benefits of watershed management interventions and proposed long -term watershed management activities and first -round projects.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Watershed management project, field report: international study tour on watershed management to India****, ©2010 ENTRO, 139 pp.*

The report describes the expected outcomes of the study tour in increasing technical capacity of the institutional involved in watershed management in eastern Nile basin, and sharing of information on watershed management, including on regional environmental trends, and best management practices.

Geoff King ; Kasahay, Leul, 2005. ***IDEN project, watershed management: draft report, ©****2005, 101 pp.*

This report written to give the scope of consultancy to identify two projects in watershed management which can move quickly to implementation and which can demonstrate: local action and control, livelihood improvement within the target of population, sediment load reduction within the target sub-basin.

Michael P. Wells, 2005. ***Financing sources and mechanism for watershed management in Sudan, Egypt and Ethiopia: final draft report****. Eastern Nile Technical Regional office (ENTRO), © 2005 ENTRO, 76 pp.*

The specific aim of the study is to explore possible sources and mechanisms of funding for Watershed Management project in the Eastern Nile region

Nile Basin Initiative (NBI),2001. ***Watershed management sub-project, watershed management in Ethiopia: Lesson learned from past experiences: working paper,*** *Strategic Action Program ©2001 NBI, v, 37pp.*

This working paper address issues relevant to watershed management in Ethiopia and suggested many areas for consideration – population, national and international policies, land security, governance, institutional capacity, among others.

Yasir Ibrahim Mohamed, 2010. ***Sediment & water quality monitoring for eastern Nile basin, phase I: review exiting situation (Sudan)****, Eastern Nile Technical Regional office (ENTRO), ©2010 ENTRO, 73 pp.*

The EN consultancy presented in this report could be define as establishment of a long term coordination system of sediment and water quality monitoring and knowledge for effective watershed planning and facilitating stakeholders consultation, information and knowledge sharing, and building institution capacity at Sudan national level

YilmaSeleha, [2010]. ***Sediment & water quality monitoring for the Eastern Nile Basin, Phase I: Reviwing of existing situation (Ethiopia), watershed management project: final report,*** *©[2010] ENTRO, 224pp.*

This consultancy work scope includes summarizing existing information and studies on practices and available methods of monitoring erosion, sedimentation and water quality.

Eastern Nile Technical Regional office (ENTRO),2003. ***ENTRO office manual 2003,*** *©2003 ENTRO.*

The purpose of this set of manuals is to give a complete collection of all polices, rules and procedures governing ENTRO's activities.

Eastern Nile Technical Regional office (ENTRO), [200?]. ***Social assessment manual (SAM)****, ©[200?] ENTRO, 102pp.*

This manual prepared to give technical staff, in different ENSAP/IDEN projects, a tool that will guide them to ask necessary questions to look for opportunities and challenges with the ultimate goal of meeting people needs, expand their opportunities, give them voice in matters that effect their live.

Eastern Nile Technical Regional office (ENTRO), 2013. ***Investigation of the upper stream interventions on the groundwater – surface water interaction in the Blue Nile region in Sudan: final report,*** *©2013 Civil engineering department, faculty of engineering, university of Khartoum, 39 pp.*

The main objectives of the study is to investigate the impacts of the upstream interventions on the interaction between the Blue Nile aquifer and the Blue Nile River, and the effects on the groundwater levels and flow regime in the study area. Quantify the likely changes in the groundwater recharge to the uppermost aquifer, and some recommendation on sound polices for groundwater.

EasternNile Basin Initiative (NBI), 2009. ***Shared Vision Program (SVP), Water Resources planning and management Project (WRPM): Annual performance project,*** ©2009 NBI, 52 pp.

The report objective is to enhance analytical capacity from a basin-wide perspective to support development, management, and protection of the Nile Basin water resources in an equitable, optimal, integrated and sustainable manner

FAO, 2011. ***Synthesis report: FAO-NILE Basin Project, GCP/INT/945/ITA, 2004-2009****, Cooperazioneltaliana, Nile Basin Initiative (NBI), ©2011 FAO, 130pp.*

This report summarize the activities and outputs of the FAO project "Information Products for Nile Basin Water Resources management. The purpose of this report is to pull together the current natural resource and

agricultural water use information across the basin.

FAO, 2011. ***Farming system report: synthesis of the country reports at the level of the Nile Basin****, Cooperazioneltaliana, Nile Basin Initiative (NBI), ©2011 FAO, 192pp.*

This report includes seven sections deal with, National level analysis of agricultural yields, major farming systems of the Nile Basin, principal constraints to agricultural productivity enhancement, the water constraint: linkage between water productivity and agriculture productivity, discussion and key findings.

Federal Democratic republic of Ethiopia. Central Statistical Authority (CSA), 2005. ***Agricultural Sample Survey, 2004/2005 (1997 E.C.), (September 2004- December 2005), Volume III: report on farm management practices: (private peasant holdings, Meher season),*** *Statistical Bulletin 331, ©2005 CSA, 327pp.*

The general objective of CSA's Agricultural Sample Survey (AgSS) is to collect basic quantitative information on the country's agricultural that is essential for planning , policy formulation, food security, etc. The specific objectives of Meher Season Survey of area are to estimate the total volume of input used, inputs applied area and production of crops and land use area.

Herbert G. Blank... [et al.], 2002. ***The changing face of irrigation in Kenya, opportunities for anticipating change in eastern and southern Africa****, International Water Management Institute (IWMI), ©2002 IWMI, xiv, 329pp.*

This publication is intended to contribute to the knowledge base on improved food production and efforts to alleviate poverty in sub Saharan Africa. As highlighted in the papers, irrigated agriculture, per se, is not a solution but irrigated agriculture with adequate support systems including access to inputs including credit, seeds, fertilizer and downstream markets has the potential to increase incomes of millions of rural poor in the *region.*

Hilmy sally, Charles L. Abernethy (eds.), 2002. ***Private Irrigation in sub-Saharan Africa, Regional seminar on private sector participation and irrigation expansion in sub-Saharan Africa, 22-26 October 2001, Accra, Ghana,*** *International Water Management Institute (IWMI); Food and agricultural Organization of United Nations; ACP-EU Technical Center for Agricultural and Rural Cooperation, ©2002 IWMI, xxi, 307pp.*

This document is a synthesis of the four theme, namely: small-scale, informal irrigation systems, irrigation management transfer, commercial irrigation farming, and enabling environment, emergence of new operators, and financing of irrigation, as the panel discussion on topic of private irrigation, food security and export earnings.

Niranjan Pant, 1992. ***Irrigation and Agricultural development (In a CADA)****, ©1992 Ashishpblishing house, xvi, 132pp.*

This study commissioned by the Planning Commission was conducted on one of the minors of ShardaSahayak Project in Uttar Pradesh in India. It reveals that the farmers with low socio-economic status, who concentrate in the tail reach of minor, are worst suffers in terms of accessibility of canal water. Another startling finding of study is that on farm development activities carried out by the Command Area Development Agency (CADA) don't seem to make any improvement either in Irrigation utilization or agricultural development.

Leslie E. Small… [et al.], 1989. ***Financing Irrigation Services: a literature review and selected case studies from Asia,*** *International Irrigation Management Institute (IIMI), ©1989 IIMI, ix, 286pp.*

This studies conclude that the quality of irrigation system operations and maintenance is affected not only by the amount of resources made available to operate and maintain systems, but also by the institutional arrangements under which they are provided.

Santosh Kumar Garg, 2007. ***Irrigation Engineering and Hydraulic Structures****, ©2007 Khanna Publishers, xxxii, 1594pp.*

This Book besides covering irrigation in general, covers the design & construction of canals and canal structures, like barrages, canal falls, canal outlets, cross-drainage works, bridge & culvert. The storage reservoirs and dams have also been extensively covered. Use of groundwater for irrigation, and development of hydropower have also been dealt in details.

The World Bank, 2004. ***Ethiopia: country economic memorandum, background report: can agriculture lead growth in Ethiopia?, the importance of linkages, markets, and tradability: document of the world bank****, ©2004 World Bank, 49pp.*

The objective of this report is to address role that agriculture can play in fostering economic growth in Ethiopia, and ultimately reducing poverty, and also to iden

The World Bank, 2005. ***Shaping the Future of Water for Agriculture, a sourcebook for investment in agricultural water management****, ©2005 The International Bank for Reconstruction and Development; The World Bank, xviii, 334pp.*

The massage of this book center around the key challenges to agricultural water management, specially: building policy and incentives, designing institutional reforms, investing in irrigation systems improvement and modernization, investing in groundwater irrigation, investing in drainage and water quality management in multipurpose operations, coping with extreme climatic, and environmental impacts of agricultural water investments.

The World Bank, 2006. ***Direction in development, reengaging in agricultural water management: challenges and option****, ©2006 The World Bank The International Bank for Reconstruction and Development, xix, 218pp.*

The book's main message is that AWM will be integrated into a broader perspective, one which embraces the objectives of productivity growth, poverty reduction, natural resources management and environmental protection.

The World Bank, 2007. ***World development report 2008: agricultural for development****, ©2007 The World Bank The International Bank for Reconstruction and Development, xii, 365pp.*

This report provides guidance to governments and the international community on designing and implementing agriculture for development agendas that can make a difference in the lives of hundreds of millions of rural poor.

William F. Ritter (ed.), 1991. ***Irrigation And Drainage: proceedings of the 1991 national conference, Honolulu, Hawaii, July 22-26, 1991****, sponsored by the irrigation and drainage division of The American society of civil Engineers ...* ***[et al.]****, ©1991 The American society of civil Engineers, xiv, 821pp.*

This proceeding consists papers in eight sessions on surface water ground water interaction covering such topics as : water quality, vadose zone, aquifer recharge and discharge, geochemistry and computer models.

*Nile Basin Initiative, 2012.****Runoff harvesting for crop production: Practical solutions for dry land agriculture,*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme - Regional agricultural trade and productivity project. 62pp.*

This Training Manual is meant to inform, educate and enhance knowledge and practice as regards to water harvesting for crop production in the NEL region. It targets technical staff and middle level decision makers such as extension workers, managers and implementers of projects, researchers, development partners, public and private practitioners of agriculture in Africa.

Nile Basin Initiative, 2012 ***Assessment of the irrigation potential in Burundi, Eastern DRC, Kenya, Rwanda, Southern Sudan, Tanzania and Uganda,*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes. 149pp.*

This report presents assessment of irrigation potential in the Nile Equatorial Region. Based on the country results, 34 so-called focal areas were selected where more detailed analyses were undertaken. The details for each focal area provide full insight in the physical, economic, and social dimensions of the specific focal area and its potential to develop irrigation.

This Report consists of the Main Report and seven appendix reports covering each of the countries.

*Nile Basin Initiative, 2012.****Best practices for water harvesting and storage within valleys,*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme - Regional agricultural trade and productivity project. 46pp.*

This Training Manual summarizes the major components of water harvesting techniques practiced in valleys, where channel flow is the predominant source of water. It covers four specific technologies adaptable by smallholder farmers in the Nile Basin countries

Nile Basin Initiative,2012. ***The study of export potential and market access opportunities to the Gulf States for live livestock from the Nile basin countries,*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme - Regional agricultural trade and productivity project.120 pp*

*Nile Basin Initiative, 2012.****Agronomic practices for water management under smallholder Rainfed agriculture,*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme - Regional agricultural trade and productivity project. 64pp.*

This Training Manual summarizes the major components of water conservation techniques practiced in rainfed smallholder agriculture. It focuses more on soil moisture retention and soil fertility management. It covers four specific technologies adaptable by smallholder farmers in the Nile Basin countries.

Nile Basin Initiative,2012. ***Soil and water conservation structures for smallholder agriculture****,©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme - Regional agricultural trade and productivity project. 60pp*

This Training Manual summarises the major structural soil and water conservation technologies and practices especially for cropland protection. It covers four specific technologies adaptable by smallholder farmers in the Nile Basin countries. These are diversion ditches, terracing, artificial waterways and gully control.

*Nile Basin Initiative, 2012.****Developing ground water and pumped irrigation systems,*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme - Regional agricultural trade and productivity project. 102pp.*

This Training Manual summarizes the methods of developing ground water resources for irrigation and the use of pumps. It presents the planning, design, development, operations and maintenance of ground water and pumps, and the major factors considered. The Manual is meant to improve the skills of engineers, technicians, extension workers, managers and practitioners of irrigated agriculture, especially those working in smallholder irrigation in Africa.

Nile Basin Initiative, 2012 ***Irrigation best practices for smallholder agriculture,*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme - Regional agricultural trade and productivity project.98pp.*

This Training Manual summarizes the major components of irrigation planning, design, development and management and the requisite factors considered. It is meant to improve the skills of engineers, technicians, extension workers, managers and practitioners of irrigated agriculture, especially those working in smallholder irrigation in Africa.

Nile Basin Initiative, 2012 ***In-Field water management in irrigated agriculture: Adaptable best practices,*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme - Regional agricultural trade and productivity project.74pp.*

This Training Manual provides insights as to how to save water used in irrigation, particularly at field level. It is meant to improve the skills of engineers, technicians, extension workers, managers and practitioners of irrigated agriculture, especially those working in smallholder irrigation in Africa.

*Nile Basin Initiative, 2012.****Management of waterlogged agricultural lands,*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme - Regional agricultural trade and productivity project.62pp.*

This Training Manual summarizes the major problems associated with water logging in agricultural lands, and their resolution through drainage and utilisation of the same lands. It covers the major types and components of Drainage systems, their design, development, operation and management as well as the salient factors considered

*Nile Basin Initiative, 2012.****Participatory operation and maintenance of irrigation schemes,*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme - Regional agricultural trade and productivity project.60pp*

This Training Manual summarises some guidelines on participatory approaches for the planning, development, operation and maintenance of irrigation schemes, focusing on smallholder group schemes. The manual describes how communities could be mobilised into strong water user groups to manage irrigation systems sustainably.

Nile Basin Initiative, 2012 ***Analysis of Cross-border Trade in Agricultural Products along Selected Corridors of the Nile Basin Region****, ©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.222pp.*

This study assesses and analyzes the trade flows for three commodity clusters in five trade corridors: grains (Tanzania-Burundi-DRC and Tanzania-Kenya-Uganda-South Sudan corridors), fruits and vegetables (Burundi-Rwanda-Uganda-Kenya corridor) and live livestock (Ethiopia-Kenya and Ethiopia-Sudan-Egypt corridors). The is to highlight the opportunities and constraints to trade and their determinants such as types of infrastructure, commodity attributes (e.g. structure and distribution of production and consumption), market structure and policy/regulatory actions.

*Nile Basin Initiative,2012.****Integrating the Horticultural Council for Africa in the Nile Basin Initiative's analysis and sustainability of cross border trade in fruits & vegetables along the selected corridor****,©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.37pp.*

This is report shows the study undertaken by both NBI AND HCA in the analysis of cross border trade on fruits and vegetables. The report contains the methodology used in the analysis and a summary of the results obtained in the study including the corridors identified between the four countries, Burundi-Rwanda-Uganda-Kenya.

Nile Basin Initiative, 2012.NBI Core Agricultural Functions Study: ***Proposed Framework, Options and Functions for a NBI/ Nile River Basin Commission Agricultural Agenda****,© Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.198pp.*

The study proposes a framework and options for a set of core agricultural functions for the Nile Basin Initiative and a future NRBC, ensures that this agenda is within overarching umbrellas of relevant, regional agreements, harmonizes and ensures that the options presented are acceptable to key stakeholders in thebasin.

*Nile Basin Initiative,2012.****Virtual Water/ Water Footprint for Comparative Advantage, Production & Trade in the Nine Nile Basin Countries,****© Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.244pp.*

This report provides detailed information about the water footprint of the 11 selected commodities produced in the Nile Basin riparian countries. The analysis examines evapotranspiration rates, water use and yields in order to determine the relative water footprint in each riparian country.
This report includes 2 volumes and five appendixes in French and English;
Volume 1: Consultancy Training Report
Volume 11: Consultancy Study Report
Appendix 1 Module 1: Introduction to Water Footprint
Appendix 2 Module 2: Water Footprint, Trade & Comparative Advantage
Appendix 3 Module 3: Water Footprint and Nile Basin Countries
Appendix 4 Module 4: Water Footprint Analysis and Methodology
Appendix 5 - Worked Examples

*Nile Basin Initiative, 2012****. Pre-Feasibility Studies for an Irrigation Development and Watershed Management project in the Lake Victoria Basin in Tanzania:Mara Valley Irrigation Scheme Final Pre-Feasibility Report****, © Nile Basin Initiative.*

The report presents the progress made for Mara Valley Irrigation Scheme since start of the assignment and provides information on the selected irrigation sites, proposed agriculture and irrigation development plans, preliminary designs, cost estimates, financial and economic viability and the expected environmental and social impacts and mitigation measures.

*Nile Basin Initiative,2008.****Lakes Edward and Albert Fisheries Pilot Project- NGO Services for Community Development activities and Co-Management of Fisheries resources: Final Report*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.206pp.*

The report presents achievements of the NGO, highlights constraints encountered and present conclusions and recommendations for further intervention in the management of the trans-boundary Lake Edward and Lake Albert fisheries resources. In addition, the report serves to inform the various stakeholders about the services rendered under the project, in the key areas of community development and co-management of fisheries resources.

*Nile Basin Initiative, 2007.****Lakes Edward and Albert Fisheries Pilot Project Fisheries studies and Lake Management Plan Preparation for lakes Edward and Albert: Mid-Term Diagnostic Report*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.164pp.*

It highlights key findings on the current state of the two lakes(Lake Edward and Albert) and their basins. It essentially diagnoses threats to the lake ecosystems; identifies constraints to better management of the lakes natural resources particularly fish and examines opportunities which may be available for the sustainable utilization of the two lake basins and their natural resources.

II

THEME: BASIN COOPERATION

The objective of basin cooperation is to facilitate, support and nurture cooperation amongst the Nile basin countries the Nile Basin Initiative has advanced the cooperation agenda by strengthening dialogue platform through stakeholder involvements; enhanced communication of results as well as improved visibility.

Nile Basin Initiative, 2012. ***NBI country benefits for the nine countries: booklets,*** *©Nile Basin Initiative, Nile Basin Initiative.15pp.*

The profiles provide a brief description of the Nile Basin Initiative (NBI) and the support (both financial and in-kind) the organization receives from its Member States namely, Burundi, DR Congo, Egypt, Ethiopia, Kenya, Rwanda, South Sudan, Sudan, Tanzania and Uganda.

Nile Basin Initiative, 2009. ***Securing Nile Waters: Delivering Nature's Benefits for everyone,*** *©Nile Basin Initiative, 12PP.*

This report shows the need for continued support to the Nile Basin Initiative as it nurtures the achievements so far gained from the cooperation.

Nile Basin Initiative, 2013. ***Cooperation on the Nile: The Nile Basin Initiative inspires hitherto dialogue among riparian countries for joint management and development of the common Nile Basin water resources****, ©Nile Basin Initiative, 8 pp.*

This paper briefly introduces NBI, demonstrates its role in building Nile cooperation thus far (against a background of low levels of cooperation), highlights the success factors and draws attention to the lessons learned.

*Nile Basin Initiative, 2008-2014.****The NBI corporate report****, ©. Nile Basin Initiative, 30PP.*

The Report highlights key achievements realized in the last 12 months in each of the three NBI core functions namely; Facilitating Cooperation, Water Resource Management and Water Resource Development.

Nile Basin Initiative, 2009. ***Nile story and bridging the Nile magazine and associated brochures: booklet****, ©Nile Basin Initiative, Nile Basin Initiative.*

This magazine showcases the Nile Basin Initiative's achievements, investments, and projects.

Nile Basin Initiative, 2008. ***NBI stakeholder's database: Inventory,*** *©Nile Basin Initiative, Nile Basin Initiative.18pp*

The Information databank on NBI stakeholders. Reference point for stakeholders' consultation on NBI issues for all NBI institutions.

Nile Basin Initiative, 2009. ***Public consultation framework: report,*** *©Nile Basin Initiative, Nile Basin Initiative.35pp*

Guideline for public participation in NBI activities. A tool for appraising and monitoring participation in NBI projects.

Nile Basin Initiative, 2005-2014. ***The Nile newsletters: periodical****, ©Nile Basin Initiative, Nile Basin Initiative.19pp*

The newsletters highlight news with in the Nile basin region for the stated period of time.

Nile Basin Initiative, 2001. ***confidence -Building and stakeholder involvement(Communication),*** *©Nile basin initiative, published by Nile basin initiative- Council of ministers of water affairs of the Nile Basin states.42 pp.*

This report focuses on the supporting efforts to strengthen confidence-building and stakeholder involvement, applied training, and socio-economic development and benefit-sharing. Annex from A-C.

Lucy Daxbacher, 2011, ***Guidelines and Management Plan for Stakeholder Involvement in the Nile Equatorial Lakes Subsidiary Action Program and Projects*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme. 63pp.*

The Guidelines and Management Plan that has been developed proposes a framework for the involvement of a broader group of stakeholders in the Nile Equatorial Lakes Subsidiary Action program and projects both in the sectors of Natural Resource Management and Development and Power Trade and Development.

Lucy Daxbacher, 2011, ***A Report on the Assessment of Stakeholder Involvement in the Nile Equatorial Lakes Subsidiary Action Program and Projects*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme. 70pp.*

For the Nile Basin resources to be managed in a viable manner, and shared equitably, there is need for extensive stakeholder involvement and participation. While stakeholders need to be involved in planning and preparation processes, decision making and implementation processes of projects related to natural resources, trans-boundary natural resources demand for much broader and more innovative strategies in stakeholder participation so as to minimize potential for conflict over resources and ensure equity in resource utilization and preservation

III

THEME: CAPACITY BUILDING

Member states capacity to utilise the NBI technical products that have been developed in addition to engaging the young professionals within the region that are exposing them to regional perspectives in their work.

Nile Basin Initiative, 2007. ***Masters Training Need and institutional capacity assessments in all NBI countries and consolidated: Report****, ©Nile Basin Initiative, Nile Basin Initiative.*

This assessment provided baseline data of training needs in all countries.

Nile Basin Initiative, 2007. ***Masters Curriculum and teaching materials: Book,*** *©Nile Basin Initiative, Nile Basin Initiative*

The project developed a comprehensive M.Sc. curriculum in water resources management to increase the capacity of tertiary institutions to deliver IWRM courses.

*Nile Basin Initiative, 2007.****Short courses curricula and teaching materials: Book.****, ©Nile Basin Initiative, Nile Basin Initiative*

These short courses were designed for use by institutions to strengthen knowledge and skills attitude related to water planning and management.

Nile Basin Initiative, 2009. ***Research grant program: Paper,*** *©Nile Basin Initiative, Nile Basin Initiative*

This program provided 21 grants to fund research in different water resources related area will benefit the NBI institutions and NBI countries water resources management and development.

*Nile Basin Initiative, 2004.****Project appraisal document applied training project report****, Nile basin initiative, published by Nile basin initiative- Shared vision program. 100 pp.*

This document describes the support to improve water planning and management cooperatively in the basin by assisting the development of human resources and institutional capacity building.

IV

THEME: CLIMATE CHANGE

The Nile Basin Initiative is taking great strides in addressing the impacts and challenges of climate change in the Nile basin region through different interventions.

World Meteorological Organization, 1971. ***Climatology Normals (Clino) for Climate and Climate Stations for the period 1931-1960****, ©1971 World Meteorogical Organisation, World Meteorogical Organization.*

This present publication contains tables with monthly and normals for the new standard period 1931-1960.

J.F.Griffiths, 1972. ***Climates of Africa (World Survey of Climatology Volume 10)****,©1972 Elsevier Publicating Company, Elsevier Publishing Company,604pp.*

This book describes the History, Geography, and the Mediterranean Zone, the Northern Desert, Soils and Ethiopian Highlands e.t.c

H. Flohn, 1969. ***General Climatology,2(World Survey of Climatology Volume 2****),©1969 Elsevier Publishing Company, Elsevier Publishing Company,266pp.*

This book shows the Mechanisms of the General Circulation of the Troposphere, Local Wind Systems, Topoclimates, and Climatic Fluctuations.

Reid A. Bryson and F.Kenneth Hare, 1974. ***Climates of North America (World Survey Climatology Volume11),*** *©1974 Elsevier Publishing Company, Elsevier Publishing Company,420pp.*

This book describes the Climates of North America, the Climate of Mexico, and the Climate of Canada and Alaska.

United Nations Environment Programme,2013. ***Adaptation to Climate –Change Induced Water Stress in the Nile Basin: A Vulnerability Assessment Report****,©2013 United Nations Environment Programme, Nile Basin Initiative,163pp.*

This report aims to improve regional knowledge and information about Climate change impacts in the region to trigger debate and form the basis for critical thinking and decision making.

S.Orvig, 1970. ***Climates of the Polar Regions (World Survey of Climatology Volume14****) ©1970Elsevier Publishing Company, Elsevier Publishing Company,370pp.*

This publication describes the Climate of Greenland, the Climate of the North Polar Basin, and the Climate of the Antarctic.

J.Gentilli, 1971. ***Climates of Australia and New Zealand (World Survey of Climatology Volume13****),©1971Elsevier Publishing Company, Elsevier Publishing Company,405pp.*

This book describes the Chronology of Climatic Work in Australia and Elements of New Zealand's Climate.

C.C.Wallen,1970. ***Climates of Northern and Western Europe (World Survey of Climatology Volume 5****),©1970 Elsevier Publishing Company, Elsevier Publishing Company,253pp.*

This book shows Radiation conditions in Western Europe, the Climate of Scandinavia and the Climate of the Iberian Peninsula.

H.Arakawa,1969. ***Climates of Northern and Eastern Asia(World Survey of Climatology Volume 8)****,©1969 Elsevier Publishing Company, Elsevier Publishing Company,248pp.*

This book deals with the Climates of Asia. Climates of China and Korea, Climate of Japan and Climate of Indonesia.

World Meteorological Organization, 1965. ***Short-Period Averages for 1951-1960 and Provisional Average Values for Climat Temp and Climat Temp Ship Stations,*** *©WMO 1965, WMO.*

This Publication is to provide the many users of the monthly Climat and Climat Ship reports with a collection of average.

H.C.S.Thom, 1966. ***Some Methods of Climatologically Analysis (Technical Note No.81****),©1966World Meteorological Organization,WMO,53PP.*

This book describes the modern statistical analysis is the mathematics of Climatological analysis, the objective of which is Climatological Prediction.

United Nations Educational, Scientific and Cultural Organization (UNESCO), 2013 . ***Free Flow: Reaching Water Security Though Cooperation*** *,©UNESCO 2013, UNESCO,336PP.*

This book is to raise awareness, both on the potential for increased cooperation and on the challenges facing water management in light of the increase in demand for water access, allocation and services.

TECCONILE,1997. ***Climatological Yearly Summaries1989****,©1997TECCONILE,TECCONILE, 25pp.*

This publication describes the purpose of publishing the collected data in form of annual data books, thus providing the countries concerned with the necessary basic data.

Donald Anthony…[et al.],2010. ***Climate Change and Natural Resources Conflicts in Africa****,©2010 Institute for Security Studies,Inistitute for Security Studies,261pp.*

This monograph is divided into five Sections that correspond to the main themes of the conference.
Climate Change and Human Security in Africa.
Climate Change, hydropolitics and Security in Lesotho.
Climate Change and Access to Natural Resources.
The Vulnerabilities and Adaptation to Climate Change at a local level in East Africa.
The role of Legislation and Policies in addressing Climate Change issues in Africa.

Hugh Turral…[et al.],2011. ***Climate Change, Water and Food Security****,©Swiatek Wojtkowiak,Food and Agriculture Organization of the United Nations (FAO),174pp.*

This report Summarizes current knowledge of the anticipated impacts of Climate Change on Water availability for agriculture.

Rose Mwebaza and Louis J Kotze,2009. ***Environmental governance and climate change in Africa****, ©2009 Institute for Security Studies, Institute for Security Studies,283pp.*

This monograph covers the general overview of climate change issues in some African countries;approaches to mitigate the harmful effects of climate change in certain African countries and climate change adaption.

FAO, 2011. ***Water for agriculture and energy in Africa: The challenges of Climate change****,©FAO2011, FAO, FAO, 162PP.*

This book describes the prospects for food and energy demand by 2015 and the projections for 2030 and 2050, based on the key drivers of population and income growth and under the threat of climate change.

World Meteorological Organization, 1970. ***Forecasting of Heavy rains and floods****,©1970 World Meteorological Organization, WMO,293PP.*

This book was to provide participants with theoretical and practical training in forecasting of heavy rains and floods.

*Alex Kirby, Christopher Edgar, 2009****.Guidance on Water and Adaptation to Climate Change****,©2009United Nations, United Nations,127pp.*

This book aims to spur climate change adaptation that takes into account the Transboundary dimension of water management.

D.F Rex, 1969. ***Climate of the Free Atmosphere (World Survey of Climatology Volume4****), ©1969 Elsevier Publishing Company, Elsevier Publishing Company,450pp.*

This book describes atmospheric Ozone and Ultraviolet Radiation, Major cloud Systems, and Dynamic Climatology of the Stratosphere.

Nile Basin Initiative,2012. ***Guidelines for climate Adaptation mainstreaming in water Infrastructure development*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.91pp*

The guidelines have been established to be used by NBI and NELSAP technical staff and decision makers, but also by public officials and program and project managers, private sector interests and development agencies. They aim to provide the principles and steps to mainstream climate change into water resources programmes and water infrastructure selection and implementation.

Arvind Kumar, 2009. ***Environment and Global Warming****, ©2009 Shree Publishers & Distributors, vi, 278pp.*

This book covers all key aspects of global warming with up-to-date and well-referenced information throughout. It provides a comprehensive analysis of debates around global warming and is likely to become a foundational text for student, scholars, policy makers, and citizens seeking clarity on this topic.

Russell D. Thompson, Allen Perrry (eds), 1997. ***Applied climatology: principles and practice****, ©1997 Routledge, xxiii, 352pp.*

This text examines the effects of climate on physical, biological and cultural environments. It also examines characteristics and consequences of the changing global climate and considers the future for both natural and human environments.

Louis Rosen, Robert Glasser (eds), 1992. ***Climate change and energy policy: proceedings of the international conference on global climate change: its mitigation through improved production and use of energy, lose Alamos National laboratory, New Mexico, USA, 21-24 October 1991****, ©1992 American Institute of Physics, xi, 5554pp.*

This book includes four parts: part one presents the latest information available on the status of the science of climate change. Part two explores the economics of energy alternatives in response to global warming. Part three focuses on climate change policy and decision making. Part four contains the results of panel discussions on the subjects of integrating climate change and energy policy.

Iyyanki. V. Murali Krishna, Valli Manickam, 2009. ***Global climate changes and weather modification technologies****, ©2009 BS Publications, vii, 706pp.*

This book addresses issues related to inadequacy of knowledge on state of art of the technology, incomplete framework for design, planning and analysis of experiment and implementation and institutional constraints.

V

THEME: ENVIRONMENT

The Nile basin initiative continues to focus on the major environmental threats faced by the riparian member states, build capacity and enhance cooperation in environmental management.

Seyoum Mengistou… [et al.], 2009. ***The Biodiversity, Wetlands and Water Quality of the Lake Tana Sub Basin,*** *©2009Nile Basin Initiative, Nile Basin Initiative, 395pp.*

This Study was piloted by the Wetlands and Biodiversity Conservation Component of NTEAP, to demonstrate the understanding of the functions of Wetlands, biodiversity and Water resources in sustainable development.

Nile Basin Initiative, 2010. ***Baseline For Wetlands and Biodiversity of Nile Basin Kenya,*** *©Nile Basin Initiative2010, Nile Basin Initiative, 97pp.*

This publication provides useful information on Wetlands, ecosystems and biodiversity which is not only useful for management but can also be important for education, awareness and training purposes.

Mohamed El Amin Mukhtar, 2002. ***Biodiversity in Wildlife of the Sudan,(Biodiversity Series-5),*** *©Mohamed El Amin Mukhtar2002,HCENR-NBSAP,20PP.*

There are four major areas of Wildlife Concentrations in Sudan;
Dinder National Park in Blue Nile State
Boma National Park at the foothills of Boma Mountains.
Badinglu National Park Northeast of Juba Town and Southern National Park.
Mohamed El Amin Mukhtar, 2002. ***Biodiversity in Aquatic Ecosystem of Sudan, (Biodiversity Series-3****),©Mohamed El Amin Mukhtar2002,HCENR-NBSAP,44PP.*
This book shows the Ecological Zone of the Flood Region.
Rainfall: 700-1600mm; Soils:Clay and Sand.
Main flora:Aquatic Plants.

Mohamed El Amin Mukhtar, 2002. ***Biodiversity in Rangeland Plants of Sudan. (Biodiversity Series-2)****,©Mohamed El Amin Mukhtar,2002,HCENR-NBSAP,34PP.*

Rangeland areas of Sudan are variable as they extend over six ecological Zones: Desert, Semi-desert, Low rainfall Savanna on Clay, high rainfall Savanna and Mountain regions. These rangeland areas occupy about a 117 million ha.

Global Environment Facility, 2002. ***Biodiversity Matters: GEF 'S Contribution to preserving and sustaining the natural systems that shape our lives****,©2002GEF,GEF,28PP.*

The report describes GEF Projects by region in a range of ecosystems, including dry lands, forests, and mountains as well as freshwater, marine and coastal areas.

Secretariat of the Convention on Biological Diversity, 2003. ***Biosafety and the Environment: An introduction to the Cartagena Protocol on Biosafety*** *,©2003 Secretariat of Convention on Biological Diversity ,Secretariat of the Convention on Biological Diversity-United Nations Environment Programme,16pp.*

Governments and Civil Society are collaborating through the Convention on Biological Diversity to reverse the tide of devastation that humanity has inflicted upon the natural world.

Nile Basin Initiative, 2010. ***Baseline Report on State of Biodiversity in the Nile Uganda****, ©Nile Basin Initiative 2010, NBI-NTEAP, 142PP.*

This publication provides useful information on Wetlands, ecosystems and biodiversity which is not only useful for management but can also be important for education, awareness and training purposes.

Derek Pomeroy and Herbert Tushabe,2004. ***The State of Uganda's Biodiversity 2004****,©2004 NBDB-MUIENR,NBDB-MUIENR,27PP.*

This report includes new or recalculated data for half of the 22 separate indices that together contribute to the Living Uganda Index.

The World Bank, 2008. ***Biodiversity, Climate Change and Adaptation****,©2008the International Bank for Reconstruction and Development/the World Bank ,the World Bank,102pp.*

This book is based on the most recent update of the World Bank biodiversity portfolio and summarizes the efforts of the WBG, over the past 20years(1988-2008) to promote the conservation and sustainable use of biodiversity.

Convention on Biological Diversity,2005. ***Protected areas for achieving biodiversity targets,*** *© Secretariat of the Convention on Biological Diversity2005,CBD,24PP.*

This book describes the importance ranging from conservation of biological diversity, storehouses of genetic material, provision of essential ecosystems services for human welfare and contribution to sustainable development.

CIRIA,2005. ***Biological Methods for Contaminated Land Management****,©IWMI(International Water Management Institute)2005,CIRIA.*

This book's mission is improving water and land resources management for food, livelihoods and nature.

*Carollyne Hutter, 2004.****GEF and The Convention on Biological Diversity: A Strong Partnership with Solid Results****,©Global Environment Facility2004,GEF,56PP.*

This book highlights contributions by the Global Environment Facility (GEF) to the implementation of the CBD and presents its perspectives on the future.

Shirley Geer, 2004. ***Forests Matter: GEF's Contribution to Conserving and Sustaining Forest Ecosystems****, Global Environment Facility, GEF, 32PP.*

This report provides an overview of the Global Environment Facility (GEF) forest program,focusing on its support for protected areas and mainstreaming biodiversity in forest management systems and landscapes.

Ahmed S.El Amin Mukhtar, 2002. ***Biodiversity in Forest Plants of Sudan (Biodiversity Series-1)*** *,©2002Higher Council for Environment and Natural Resources(HCENR),HCENR,40PP.*

This booklet shows the estimated tree species in Sudan which are about533tree species, of that 25species are exotic.

Ahmed S.El Wakeel, 2002. ***Insect Biodiversity of Sudan (Biodiversity Series-7),*** *©2002Higher Council for Environment and Natural Resources (HCENR), HCENR, 26PP.*

This booklet describes the insects in Sudan are estimated at 500,000species representing different families.

Ahmed S.El Wakeel, 2002. ***Agro-biodiversity in Sudan (Biodiversity Series-4****), ©2002 Higher Council for Environment and Natural Resources (HCENR), HCENR,28PP.*

This booklet shows how Sudan farmers are adopting a mixed crop-livestock agricultural System.

The World Bank, 2002. ***Building a Sustainable Future: The Africa Region Environment Strategy****, ©2002 the International Bank for Reconstruction, World Bank, 126pp.*

This book describes the current thinking in the World Bank Group Region about priorities and actions for the institution in the environmental arena.

*Yagoub Abdalla Mohamed and Maushe Kidundo,2008 .****State of Environmental Education and Awareness Programmes in Sudan****,© 2008 Nile Transboundary Environmental Action Project, NTEAP,26 PP.*

This book explores environmental education and awareness programmes in Sudan and outlines the opportunities, constraints as well as main indicators required to measure behavioral change.

Osaki, Kalafunja Mlang'a and Maushe Kidundo, 2008. ***State of Environmental Education and Awareness Programmes in Tanzania****, ©NTEAP 2008, NTEAP, 28PP.*

This document is the result of a rapid assessment of the existing state of environmental education and awareness conducted in 2004. It serves as a baseline for planning at the national level.

*United Nations Environment Programme, 2001 .****Transfer and Implementation of Environmentally Sound Technologies(EST's) for Water Quality Management in the Mekong River Basin: Regional Consultation with Stakeholders to Identify Needs and Action*** *,©2001 UNEP,UNEP,86PP.*

This volume contains the national papers that were presented and provided the basis for discussion on priority issues and needs relative to ESTs, Conclusions and Recommendations for follow-up and future actions.

*GEF/UNDP/IMO,1998.****Benefit –Cost Analysis of Tourism Development and Sustainability in the Malacca Straits,****© Regional Programme for the Prevention and Management of Marine Pollution in the East Asian Seas/GEF/UNDP/IMO 1998,GEF /UNDP/IMO/Regional Programme for the Prevention and Management of Marine Pollution in the East Asian Seas,44pp.*

This book aims to appraise the costs and benefits of tourism development and sustainability in the Straits of Malacca.

Nile Basin Initiative , 2007 . ***Environmental Education and Awareness in the Nile Basin: A Training Framework for Tertiary Level Learning*** *,©2007Nile Basin Initiative,NBI,51pp.*

This book shows how to provide universities with a flexible framework which can enable regional accreditation for environmental education practitioners.

*Willem G.Mook ,2000 .***Environmental isotopes in the hydrological cycle: Principles and applications(Volume I) ,***©UNESCO /International Atomic Energy Agency2000 ,UNESCO/IAEA,280PP.*

This book aims to providing a comprehensive review of basic theoretical concepts and principles of isotope hydrology methodologies and their practical applications with some illustrative examples.

*Environmental Protection Authority, 2003 .***State of Environment Report for Ethiopia,***©Environmental Protection Authority 2003, Environmental Protection Authority,132pp.*

This report contribute towards focusing on examining the present condition and reshaping policies, strategies and laws to bring harmony between the present generation and its environment on the one hand.

*Higher Council for Environment and Natural Resources,2003 .***Sudan's First National Communications under the United Nations Framework Convention on Climate Change : Main Communications(Volume I)***,©HCENR2003,HCENR,94PP.*

This book is concerned about climate change, vulnerable ecosystems on which the vast majority of the population depends on.

*Damas Nduwumwami and Maushe Kidundo, 2008 .***State of Environmental Education and Awareness Programmes in Burundi***,©Nile Transboundary Environmental Action Project, 2008, NTEAP,25PP.*

This publication documents the state of environmental education and awareness programmes in Burundi.

*Kidane Abebe and Maushe Kidundo, 2008 .***State of Environmental Education and Awareness Programmes in Ethiopia***, ©Nile Transboundary Environmental Action Project 2008, NTEAP, 16PP.*

This publication helps to improve the understanding of the relationship of water resources development and environment.

*IUCN,1999 .***Enabling EE :Guidelines for Environmental Education Policy and Strategy Processes in the SADC States** *,© 1999 IUCN,SADC-ELMS,48PP.*

This book is about to serve the Southern African region and SADC in the development of modern skills in conservation and natural resource management.

*Living Earth Uganda,2002 .***Environmental Education for Sustainable Development :Trainers Environmental Education Manual,***©2002 Living Earth Uganda and National Environment Management Authority(NEMA),Living Earth Uganda and National Environment Management Authority(NEMA),115PP.*

This book is meant to promote understanding and appreciation for the protection and utilization of the environment.

*Uganda WildLife Society…[et al.] ,2005 .***The Permanent Protected Forest Estate in East Africa (Status Report)** *,©UWS,LEAT,KFWG 2005 ,Lawyers' Environmental Action Team(LEAT),KFWG ,UWS,108PP.*

This report is one of the mechanism through which civil society organizations will engage with and share information on forestry issues specifically with the members of the East African Legislative Assembly.

*William Q. Chin and Vujica Yevjevich,1974 .***Almost-Periodic, Stochastic Process of Long-Range Climatic Changes(Scientific Series No.39)***,©William Q.Chin and Vujica Yevjevich 1974,Environment Canada,69pp.*

This study is to develop a feasible method for analyzing long-term climatic changes as a deterministic-stochastic process.

*United Nations Environment Programme,1997 .***Desertification Control Bulletin** *,©UNEP 1997 , International Institute for Sustainable Development(IISD) ,85PP.*

This bulletin is about Post-agreement negotiations, Plenary, Ecological Regeneration, Biodiversity Conservation and Social –Economic Consequences of desertification e.t.c.

Environment and Tourism,2007 ***.Annual Review 2006/07*** *,©2007 Environment and Tourism, South African Tourism,80 pp.*

This book is about creating conditions for sustainable tourism growth and development for the benefit of all South Africans.

Hoang Xuan Thanh …[et al.] ,2005 ***.Livelihood Diversification and Rural-Urban Linkages in Vietnam's Red River Delta*** *,© 2005 International Institute For Environment and Development,IIED,27PP.*

This publication is about long-term sustainability of economic growth and poverty reduction in the Red River Delta which depend on strengthening rural-urban Linkages.

Jamie Bartram, 1992 ***.Earth watch Global Environment Monitoring System(Report Series no.12)*** *,©United Nations Environment Programme 1992,United Nations Environment Programme ,181pp.*

This report shows how participants prepared work plans for improvement of water quality monitoring in their countries within their own fields of responsibility.

Anjali Acharya and Alethea Mariel T.Abuyuan,2002. ***A Decade of Environmental Lending : A Review of the World Bank's Environment Portfolio during the 1990s*** *,©The World Bank Environment Department 2002,World Bank,29pp.*

This Strategy emphasizes the need to enhance the integration of environmental considerations into all areas of development assistance.

Samuel Waweru, 2003. ***Community Guide to Environmental Issues: Arid and Semi-arid Lands Embassy,46pp.*** *, ©2003 Environmental Law Project Environment Liaison Centre International (ELCI), Royal Netherlands*

This book describes the protection, conservation and sustainable use of the various elements or components of the environment.

*United Nations Environment Programme, 2005****.World Environment Day****,©2005 UNEP,UNEP,43PP.*

This book describes the purpose of World Environment Day is to focus worldwide attention onto the importance of the environment and stimulate political attention and action.

Wildlife Clubs of Uganda, 1975. ***A Handbook for your Environmental Club****,©1975 Wildlife Clubs of Uganda(WCU),WCU,40PP.*

This handbook describes the desire for environmental conservation amongst the of Uganda and East Africa as a whole.

United Nations, 2005. ***Environment Human Settlements: Economic Commission for Europe****, ©2005 United Nations, United Nations, 20pp.*

This booklet is intended to throw light on the UNECE's environment and human settlements work.

Stuart Lane… [et al.] , 1998. ***Land form Monitoring, Modelling and Analysis****, ©1998 John and Sons Ltd, Wiley, 454pp.*

This book describes the Landform in Geomorphologic Research.

Talaat D.Abdel Magid, 2003. ***Bibliography of forestry and Allied Fields: Annotated, Classified and Selected****, ©National Centre for Research Documentation and information Centre 2003, National Centre for Research Documentation and information Centre, 331pp.*

This book shows Silviculture, Forest Resources Management, Taxonomy, Seed Biology, Environmental Health and Energy.

P.Melli and P.Zannetti, 1992. ***Environmental Modelling****,©Computational Mechanics Publications1992,Computational Mechanics Publications,379pp.*

This book describes a key role in Environmental Studies like studies of the environmental impact of its own manufacturing activities, scientific research on environmental modeling developed in the Scientific Centres e.t.c

Thomas Dunne and Luna B.Leopold, 1978. ***Water in Environmental Planning,*** *©1978 W.H.Freeman and Company, W.H.Freeman and Company, 818pp.*

This book show how a knowledge of hydrology,fluvial geomorphology and river quality is useful in planning.

Nile Basin Initiative, 2001. ***Nile River Basin: Transboundary Environmental Analysis****, ©2001 NBI, NBI, 120PP.*

This book is intended as both a catalyst and a valuable resource to the Nile riparian countries and their international partners as their historic political cooperation begins to be translated into effective operational measures aimed at sustainable economic development in the Nile basin.

Nile Basin Initiative, 2005. ***Nile Basin Regional Water Quality Monitoring Baseline Study Report for Burundi,DRC,Egypt,Ethiopia,Kenya,Rwanda,Sudan,Tanzania and Uganda****,©2005 Nile Basin Initiative ,NBI, 113PP.*

This baseline report summarizes the nine individual National Water Quality Monitoring Baseline Reports and includes the main water quality issues in the Nile Basin, including recommendations for both regional and national action plans.

*Nile Basin Initiative,2007.****Simple Procedures for Water and Waste Water Sampling for Nile Basin Countries for Transboundary Water Quality Monitoring****,© 2007 Nile Basin Initiative, Nile Basin Initiative,27pp.*

The objective of this manual is to provide simple standard guidance on the procedures required in taking representative water samples from raw water locations such as rivers and lakes for monitoring Transboundary water along River Nile for nine member countries.

Marko Berglund, 2006. ***International Environmental Law-making and Diplomacy Review,*** *©United Nations Environment Program (UNEP) 2006, University of Joensuu, 318pp.*

This book seeks to provide practical guidance, professional perspective and historical background to practitioners, stakeholders and researchers working in the area of international environmental law-making and diplomacy.

Megan Dyson … [et al], 2003. ***Flow: The essentials of environmental flows****,©2003 International Union for Conservation of Nature and Natural Resources,IUCN, 132PP.*

This book describes the enough water that is left in our rivers which is managed to ensure downstream environmental, social and economic benefits.

*…[et al] ,1992.****A guide to the development of on-site sanitation****,© World Health Organization1992 ,WHO,237pp.*

This book describes the environmental sanitation as the control of community water supplies, excreta and wastewater disposal; refuse disposal, vectors of disease, housing conditions, food supplies and the safety of the working environment.

The New Partnership for Africa's Development, 2005. ***A Sub-regional Environment Action Plan for Eastern Africa****, ©NEPAD2005, NEPAD, 47PP.*

This book was prepared as a draft document for discussion at a meeting of the stakeholders held in Djibouti in May, 2005.

United Nations Environment Programme, 2007. ***Sudan: Post –Conflict Environmental Assessment****,©2007 United Nations Environment Programme, United Nations Environment Programme,354pp.*

This report by UNEP presents the findings of the post-conflict environmental assessment of Sudan and detailed recommendations for follow-up action.

*Mahdi Bashir, 2001.****Sudan Country Study on Biodiversity****, ©2001Higher Council for Environment and Natural Resources, HCENR, 272PP.*

This book describes components and areas for assessing the current status and those factors, which pose threats.

*UNEP, 2006 .**Africa Environment Outlook 2: Our Environment, Our Wealth,** © 2006 United Nations Environment Programme, UNEP, 542PP.*

This book is about building human capabilities the range of things people can do and what they can be.

*Kakitahi Muhumuza J …[et al.], 2005. **Research Reports of Environmental Aspects of River Engineering Research Cluster,** ©2005Environmental Aspects for River Engineering Research Cluster/ NBCBN, 36PP.*

This report shows the research findings on the status of environmental management with particular emphasis on Environmental Impact Assessment (EIA) in the Nile Basin Countries of Egypt, Kenya, Rwanda, Sudan and Uganda.

*Rafik Hirji …[et al.] ,2002.**Defining and Mainstreaming Environmental Sustainability in Water Resources Management** ,©SADC,IUCN,SARDC,IBRD 2002 ,World Bank,318pp.*

This report shows the effective and sustainable utilization and management of water resources as an essential pre-requisite for sustaining all forms of life, improving live hoods of the people and fostering overall socio-economic development in Southern Africa.

*Tour Operators Initiative, 2003 .**Sustainable Tourism: The Tour Operators 'Contribution,** ©T our Operators 'Initiative for Sustainable Tourism Development 2003, Tour Operators Initiative, 95pp.*

This book is about improving the sustainability of the tourism industry and encouraging tour operators to make a voluntary yet firm corporate commitment to sustainable development.

*Matt Walpole … [et al.], 2003 . **Wildlife and People: Conflict and Conservation in Masai Mara, Kenya (IIED Wildlife and Development Series No.14**),©IIED 2003,International Institute for Environment and Development(IIED),59PP.*

This report is about training Kenyans at all levels to undertake monitoring and research into various forms of human –wildlife conflict in the Mara ecosystem.

*Higher Council for Environment and Natural Resources, 2003. **Sudan's First National Communications under the United Nations Framework Convention on Climate Change (Volume II, Appendix),** ©2003 HCENR, HCENR, 216PP.*

This book is about Climate Scenarios, Agriculture and Foresty, Water Resources, and Green House Gas Mitigation Options in the Non-Energy.

*United Nations Environment Programme, 2000. **Guidelines for the Management of Dredged Material (MAP Technical Reports Series No.129), UNEP**,© 2000 United Nations Environment Programme,46pp.*

This report shows the guidelines that are designed to assist the contracting parties in the implementation of the protocol for the prevention of pollution of the Mediterranean Sea by Dumping from Ships and Aircraft.

*Martin Rutangye and Maushe Kidundo, 2008. **State of Environmental Education and Awareness Programmes in Uganda**, © Nile Transboundary Environmental Action Project 2008(NTEAP) , NTEAP,37PP.*

This publication begins with a brief historical account of the environmental issues at hand, examines policy and institutional frameworks which support environmental education and awareness.

*Nile Basin Transboundary Action Project- NBI, 2009**.Impact of Macro policies on the Nile Basin Environment: Policy document,** ©Nile Basin Initiative, 68pp.*

This publication is a synthesis of eight Nile Basin country reports and includes Burundi, Egypt, Ethiopia, Kenya, Rwanda, Sudan, Tanzania and Uganda. The report assesses the potential of impact of macro and sectoral policy issues on selected environmental topics.

*.Nile Basin Initiative, Global Environment Facility, 2001**.Transboundary Environmental Analysis: study report,** ©Nile Basin Initiative, 60pp.*

This is a report which records priority issues which were identified and analyzed for action at basin-wide, national and local levels. The priority Transboundary activities that were to be addressed collaboratively in the initial implementation phase of the Agenda for Environmental Action are outlined in this report in the form of a proposed project.

Nile Equatorial Lakes Subsidiary Action Programme (NELSAP), 2008. ***Integrated Lakes Management Plan (ILMP) for the Fisheries and Ecosystems of Lakes Edward and Albert: Technical report.*** *©Nile Basin Initiative- NELSAP, 80pp.*

The Integrated Lakes Management Plan (ILMP) is the major output of the Lakes Edward and Albert Fisheries (LEAF) Pilot Project. It provides vital baseline information on the ecosystem functions in the two lakes; their fisheries and biodiversity, fish quality problems, hydrology, socio-economics of the fisheries, catchments environment and status of policies, laws and institutions in the basins of the two lakes.

Hashem M. Morsy, 2004. ***Initial Country Environmental Education and Awareness Reviews: for Nile Tran boundary Environmental Action Project: study report,*** *© Nile Basin Initiative, 96pp.*

This is a report of a rapid assessment of environmental education and awareness (EE&A) in Egypt which was undertaken to come up with clear snapshot of the existing state of EE&A in the country. It reviews the state of both formal and informal Environmental Education and Awareness (EE&A) activities in Egypt.

Nile Equatorial Lakes Subsidiary Action Programme (NELSAP), 2007. ***Fisheries Studies and Lake Management Plan Preparation for Lakes Edward and Albert: Mid-Term Diagnostic: Report,*** *©Nile Basin Initiative, 82pp.*

This report provides mid-term highlights of essential initial activities which were done from the time of launch of the Lakes Edward and Albert Fisheries (LEAF) study in October 2006 until September, 2007. It reports on the [then] current state of the two lakes and their basins

HR Wallingford Limited, 2009. ***The Wetlands of the Nile Basin: Baseline Inventory and Mapping: Reference document,*** *©Nile Basin Initiative, 100pp.*

Information includes status and biodiversity of selected wetlands and a GIS database that links them to respective wetland maps.

Joseph C. Oonyu, 2009. ***Understanding our Wetlands: A Resource Book for Universities and Tertiary Institutions: Book,*** *©Nile Basin Initiative, 100pp.*

This is a resource book designed to aid wetland education and awareness in the primary, secondary and universities of the Nile Basin countries. The material is designed to help pupils understand the meaning, forms and types of wetlands.

Nile Equatorial Lakes Subsidiary Action Programme (NELSAP), 2012. ***Environment and social impact assessment (esia): bigasha dam: Study report****, ©Nile Basin Initiative, 95pp.*

The ESIA study assesses the technical, social, economic, financial and environmental viability of the multipurpose dam project; evaluate the environmental and social aspects of the multipurpose dam site and prepare Preliminary Resettlement Policy Frameworks for the da

Nile Equatorial Lakes Subsidiary Action Programme (NELSAP), 2012. ***Feasibility Study and preparation of an Integrated Watershed management program and investment proposal for Sio-Malaba-Malakisi Sub Basin: Technical Report****, ©Nile Basin Initiative, 125pp.*

The Report addresses catchments, degradation issues, optimal and sustained production of the integrated use of natural resources of the watersheds with minimum damage to the environment for the benefit of the inhabitants of the watershed and the communities linked to them.

Arcado D. Ntagazwa, 2004. ***The Environmental Management Act: Legal paper,*** *©Nile Basin Initiative, 45pp.*

The Act provides for legal and institutional framework for sustainable management of the environment, to outline principle for management, impact and risk assessments, prevention and control of pollution, waste management, environmental quality standards, public participation, compliance and enforcement.

Nile Equatorial Lakes Subsidiary Action Programme (NELSAP), 2012. ***Environmental and Social Impact Assessment (ESIA) and development of a Resettlement Policy Framework (RPF) for the proposed small multipurpose MAIRA Dam in the Sio-Malaba-Malakisi Sub-Basin: Maira Dam: Technical report,*** *©Nile Basin Initiative, 100pp.*

This report assesses the technical, social, economic, financial and environmental viability of the multipurpose dam project; evaluates the environmental and social aspects of the multipurpose dam site and Preliminary Resettlement Policy Frameworks for the dam site.

Nile Equatorial Lakes Subsidiary Action Programme (NELSAP), 2012. ***Feasibility Study for an Integrated Watershed Management Programme for the Kagera River Basin: Study report,*** *©Nile Basin Initiative, 70pp.*

This document is a summary of data collection and analysis, together with stakeholder inputs which took place between January 2011 and August 2012 resulting in the identification of feasibility level investment proposals for a Kagera Integrated Watershed Management Programme [KIWMP].

Nile Equatorial Lakes Subsidiary Action Programme (NELSAP),

Nile Equatorial Lakes Subsidiary Action Programme (NELSAP), ***2012.Environmental and Social Impact Assessment (ESIA) and developing preliminary Resettlement Policy Frameworks (RPFs) for four (4) proposed small multipurpose dams at bigasha, buyongwe, karazi and taba-gakomeye in the kagera river basin: Study report,*** *©Nile Basin Initiative, 130pp.*

The Taba-Gakomeye project components reflect priority water uses as determined by the Rwanda Government and as clearly indicated in the Feasibility study report. These priority water uses include water supply, irrigation, livestock, aquaculture and environmental flow requirements. However, due to some circumstances as explained later in the report, livestock and aquaculture were relegated to low priority.

Phil Swanson and Leiv Lunde, 2003 . ***Public Environmental Expenditure Reviews :Experience and Emerging Practice(Strategy Series No.7),*** *©2003 World Bank, World Bank ,80pp.*

This report was prepared as part of the stocktaking exercise for developing guidance on Country Environmental Analysis (CEA).

Kseniya Lvovsky, 2001 . ***Health and Environment (Strategy Series No.1)*** *,©2001 World Bank ,World Bank ,67pp.*

This report is about protecting Health and the environment

World Meteological Organization,1967 . ***Weather and Water*** *,© 1967 World Meteological Organization ,World Meteological Organization,27pp.*

This booklet was being published as part of the literature and other information being made available to members of the organization in celebration of World Meteorological Day.

Ramsar Convention Bureau, 2000 . ***Reviewing Laws and institutions to promote the conservation and wise use of wetlands (Handbook 3),*** *© 2000 Ramsar Convention Bureau ,Ramsar Convention on Wetlands,45pp.*

This handbook describes guidelines for reviewing laws and institutions to promote the conservation and wise use of wetlands.

Jamie Bartram and Ray Briggs, 1995. ***Report of a Workshop on Analytical Quality Control for Water Quality Monitoring and Assessment,*** *©1995 WHO/WMO/UNESCO/UNEP ,UNEP,124PP.*

This publication was to introduce participants to the principles and practice of analytical quality control.

Mirghani Tagelseed Ahamed,2008 . ***Impact of macro and Sectoral policies on oil exploration and development on the Nile Basin Environment,*** *© Nile Transboundary Environmental Action Project 2008 ,NTEAP,18PP.*

This report examines the impact of macro and sectoral policies on oil exploration and development in Sudan.

Caspian Environment Programme ,2007 ***.Matched Small Grants and Micro Environmental Grants of the Caspian Environment Programme,*** *©The World Bank 2007 ,UNEP,GEF,UNOPS,UNDP,,World Bank,Tacis,41pp.*

This booklet provides a brief on the purpose and the accomplishments of the projects awarded with matched Small Grants and Micro Environmental Grants

Nile Basin Initiative, 2012. ***Environmental and Social Impact Assessment (ESIA) and Development of a Resettlement Policy Framework (RPF) for the Proposed Small Multipurpose Maira dam in the Sio-Malaba-Malakisi Sub-Basin – Kenya : Maira Dam Final ESIA Report.*** ©Nile basin initiative, published by Nile basin initiative- *Nile Equatorial Lakes subsidiary Action Programme- Sio-Malaba- Malakisi project. 315pp.*

The ESIA study assesses the technical, social, economic, financial and environmental viability of the multipurpose dam project; evaluates the environmental and social aspects of the multipurpose dam site and prepares a Preliminary Resettlement Policy Frameworks for the dam site.

Nile Basin Initiative, 2012. ***Environmental and Social Impact Assessment (ESIA) and Development of a preliminary Resettlement Action Plan (RAP) for the Proposed Small Multipurpose Dams at Maira in the Sio-Malaba-Malakisi Basin – Kenya : Maira Scoping Report****. ©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba-Malakisi project. 79pp.*

This report describes the environmental characteristics of the SMM river basin and present initial understanding of the key environmental and social issues relating to the implementation of Maira dam project in Kenya. It also proposes a framework of environmental objectives to inform the identification and assessment of project options and subsequent selection of appropriate preferred options.

Nile Basin Initiative, 2012. ***Environmental and social impact assessment report for the proposed Borenga Dam, Mara Region****, © Nile Basin Initiative - Environmental Management Act (EMA), published by WAPCOS Limited, India, 304 pp.*

The project is aimed at identifying possible positive and negative impacts on the social and biophysical environment prior to, during and after infrastructure construction of the proposed dam

Nile Basin Initiative, 2012. ***Environmental and Social Impact Assessment Report for the Proposed Norera Dam, Narok South****, © Nile Basin Initiative - Environmental Management Act (EMA), published by WAPCOS Limited, India, 230pp.*

The overall objective of carrying out this EIA is to fulfill the requirements of the Government of Kenya and the project proponent's desire to safeguard the environment and make sure that the project lives true to meet requirements for sustainable development. Further, the process is aimed at identifying possible positive and negative impacts on the social and biophysical environment prior to, during and after infrastructure construction of the proposed dam.

Nile Basin Initiative,2007. ***Strategic/ Sectoral, Social and Environmental Assessment of Power Development Options in the Nile Equatorial Lakes Region****© Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.274pp.*

This SSEA study is a general framework which was used to develop an indicative power development strategy for the NELSAP region. As such, it is based on information gathered from secondary sources initially in 2003 and updated in 2004.
This report includes 2 volumes:
Volume 1: Executive Summary
Volume 2: Appendices

*Nile Basin Initiative,2012.****Environment and Social Impact Assessment and Resettlement Action Plan of 400 KV Iringa – Mbeya Transmission Line: Final Inception Report*** *© Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.166pp.*

This Inception report environmental and social impact assessment, resettlement action plan, conceptual design and tender documents of Iringa - Mbeya Transmission Line. The Iringa-Mbeya transmission line will link with a 400 kV Backbone Iringa to Shinyanga, which will facilitate the smooth power transfer to the northern part of the country and neighbouring countries such as Zambia in the south and Kenya and Uganda in the North.
This report includes 2 volumes:
Volume 1: Main Body
Vol II - Appendices

Nile Basin Initiative,2012. ***Environment and Social Impact Assessment and Resettlement Action Plan of 400 KV Iringa – Mbeya Transmission Line: Final Ressettlement Action Plan*** *© Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.79pp.*

The Resettlement Action Plan (RAP) is to present appropriate mitigation measures that are commensurate to the extent of impact along with suitable implementation arrangements. The RAP has been prepared in compliance with the existing legal and regulatory framework of the Government of Tanzania.

Nile Basin Initiative, 2013. ***Environmental and social impact assessment (ESIA) for the proposed Rusumo Falls Hydroelectric Project (Dam & powerplant component)-Volume 1: main report*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.367pp.*

The purpose of the report is to assess the environmental and social impacts associated with the dam and power plant component, which is one of a number of component which make up the Rusumo Falls Hydroelectric Project.

Nile Basin Initiative,2013. ***Study on the power transmission lines linked to the Rusumo Falls Hydro-Electric generation plant-Environmental and Social Management Plan (ESMP): Final Report***

©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.145pp.

The ESMP brings the Project into compliance with applicable national environmental and social legal requirements and the AfDB's environmental and social policies, and outlines mitigations/enhancing, monitoring, consultative and institutional measures to prevent, minimise, mitigate or compensate for adverse environmental and social Project impacts or enhance beneficial impacts

Nile Basin Initiative,2013 ***Feasibility study on the Power Transmission lines linked to the Rusumo Falls Hydro-Electric generation plant- Environmental and Social Impact Assessment (ESIA) Final Report*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.308pp.*

The Environmental and Social Impact Assessment report identifies potential environmental and social impacts of the transmission lines, both positive and negative and suggests an Environmental and Social Management Plan (ESMP) including impact mitigation measures and an environmental monitoring program.

This report includes Annexes

Nile Basin Initiative,2011. ***Environment and Social Management Plan for the lakes Edward and Albert Fisheries and Water Resources Project*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.98pp.*

This report determines and evaluates the potential impacts of the LEAF Project, and their significance, identifies and describes measures required to prevent, minimize, mitigate or compensate for adverse impacts and for social and environmental enhancement and prepares an Environmental and Social Management Plan (ESMP).

Nile Basin Initiative, 2013. ***Environmental and social impact assessment (ESIA) for the proposed Rusumo Falls Hydroelectric Project (Dam & powerplant component)-Volume 1: main report*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.367pp.*

The purpose of the report is to assess the environmental and social impacts associated with the dam and power plant component, which is one of a number of component which make up the Rusumo Falls Hydroelectric Project.

Nile Basin Initiative, 2012. ***Country Assessments on Environmental and Social Policies in the Nile Equatorial Lakes Region*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.134pp*

The report about country assessments contains findings on how to improve knowledge of the NEL countries policies and regulations related to environmental and social-economic management of projects, have a better understanding of the institutional framework in place for environmental and social-economic management and identify the role of the key stakeholders and identifying the existing gaps which may hinder development of national and transboundary projects related to water development.

Nile Basin Initiative, 2012. ***NELSAP Environmental and Social management guidelines*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.39pp*

The NELSAP Environmental and Social Guidelines for Investment projects provides a useful source document guiding the assessment of potential environmental and social impacts for investment projects, preparation and implementation of management plans for the mitigation of the identified impacts.

*Nile Basin Initiative,2012.****Nile Equatorial Lakes Multi Sector Investment Opportunity Analysis: Multi Sector Strategic Social and Environmental Assessment Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme..156pp*

This report sets out the findings of the multi-sector strategic social and environmental assessment. It is a standalone document with its own maps, larger scale more readable versions of these maps are to be found in the "Map Book" that was published together with the Situational Analysis report.

Arvind Kumar, 2009. ***Integrated Environment Management****, ©2009 Daya publishing house, vi, 509pp.*

In this book, main emphasis has been laid down on reckoning the environmental threats and their possible integrated management.

Assefa Guchie Tafesse, 2005. ***Inception report on the compilation of data and information on environment and related issues in EN sub-basin, Ethiopia A, Eastern Nile Technical Regional Office (ENTRO),*** *©2005 DELTA Development Management Consultancy Service, 62pp.*

This consultancy services aims at; compiling baseline information on environmental in the EN sub-basin; preparing report on the data and information gathered including annotated list of reference and comments on the quality of data.

Colin R. Townsend, Michale Begon, John L. Harper, 2008. ***Essentials of Ecology****, 3rd ed., ©2008 Blackwell Publishing, xii, 510pp.*

This book outlines the essential principles of ecology from the theoretical fundamentals to their practical applications.

Eastern Nile Technical Regional Office (ENTRO), 2001. ***Integrated development of the Eastern Nile (IDEN), project identification document: summary****, ©2001 ENTRO, 44pp.*

This report includes 12 annexes:
Annex 1: Policy Guidelines for the River Nile Basin Strategic Action Program
Annex 2: Basin White Shared Vision Program
Annex 3: A Strategy for the Eastern Nile Subsidiary Action Program
Annex 4: Eastern Nile Planning Model Sub-Project
Annex 5: Baro-Akobo Multi-Purpose Water Resources sub-Project
Annex 6: Flood Preparedness and Early Warning Sub-Project
Annex 7: Ethiopian-Sudan Transmission Interconnection Sub-Project
Annex 8: Eastern Nile Regional Power Trade Investment Program Sub-Project
Annex 9: Irrigation and Drainage Sub-Project
Annex 10: Watershed Management Sub-Basin-Project
Annex 11: ENSAP Project Management Unit
Annex 12: Map

Eastern Nile Technical Regional Office (ENTRO), 2005. ***ENTRO's Strategy plan @2006-2010****, ©2005 ENTRO, [34] pp.*

This strategic plan prepared to provide ENTRO management and staff with guidelines for detailed annual planning and monitoring ENTRO's activities geared towards furthering the EASTERN Nile Subsidiary Action Program (ENSAP), and developing ENTRO itself to serve the Eastern Nile (EN) countries in the best possible way.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Strategic environmental assessment (SEA), Introduction to the process, principles and application of SEA: course outline****, ©2007 CSIR Environmentek, [31]pp.*

The aims of this course to provide participants with background SEA knowledge and introduce the concepts and the various approach that have been applied in a number of countries. This course has been prepared to provide an overview of current debates on the theory and practice of SEA.

Global Environment Facility (GEF), 2005. ***GEF and Small Island Developing States****, ©2005 GEF, 76pp.*

This report highlights the GEF's Work with on key natural resource issues-climate change, biodiversity, international waters, and land degradation. It also describes the GEF strategic priorities for small island development states (SIDS) cover the next five years, recognizing the interrelatedness of SIDS global environment.

Hubert Chanson, 2004. ***Environmental Hydraulics of Open Channel Flows****, ©2004 Elsevier Butterworth-Heinemann, xix, 430pp.*

This textbook for student and professional studying advanced topics in river and estuarine systems. This book contains the full range of subjects on open channel flows, including mixing and dispersion, Saint-Venant equations and method of characteristics.

International Review for Environmental Strategies, Groundwater Management and policy its future alternatives*, Vol. 6, No. 2, 2006, ©2006 Institute for Global Environmental Strategies (IGES), 455pp.*

This Issue aims to highlight importance of this "out of sight" resource in order to investigate its significant implications.

Mackenzie L. Davis, David A. Cornwell, 2008. ***Introduction to environmental engineering, 4th ed.,*** *©2008 McGraw-Hill companies Inc., xvi, 1008pp.*

Two themes are carried through this book. The first is an introduction to the concept of materials and energy balance as a tool for understanding environmental processes and solving environmental engineering problems. The second theme of the book is the concept of sustainability, and deals with topics of water conservation, sludge minimization in water treatment, land treatment of waste water, protection of ozone layer.

Nicholas S. Hopkins, Sohair R. Mehanna, Salah el-Haggar, 2001. ***People and pollution, cultural construction and Social Action in Egypt****, ©2001 The American University in Cairo Press, xxiii, 192pp.*

This book seeks to understand how the people themselves, often the objects of policy, understand their environment and their own actions.

Nile Basin Initiative (NBI), 2009. ***Wetlands, biodiversity and water quality status of the lake Cyohoha of sub-basin****, ©2009 NBI, 279pp.*

This report highlights the findings of in-depth studies conducted in the Lake Cyohoha sub-basin located in Rwanda and Burundi border. The Study focus on limnology , flora, invertebrates, fishery, amphibians, and reptiles, birds, mammals, and basic scientific and socio-economic information on the importance and roles played by the wetlands and biodiversity, as natural resources supporting sustainable development in the sub region.

Rafik Hirji, Rechard Davis, 2009. ***Environmental flows in water resources policies, plans, and project: findings and recommendations, The World Bank,*** *©2009 The International Bank for Reconstruction and Development; The World Bank, xvii, 189pp.*

This report addresses on of the greatest shortcoming of water resource development projects: the inadequate protection of environmental flow conditions in rivers, lakes, wetlands, estuaries, and groundwater systems.

Sybil P. Parker (ed.), 1993. ***McGraw-Hill Encyclopedia of Environmental science & Engineering, 3rd ed., ©1993 McGraw-Hill, iii, 767pp.***

This encyclopedia published in two earlier editions. It covers a great variety of topics in both multidisciplinary fields, and relevant legislation, particularly in the United State. This third edition has been thoroughly revised to include the most recent aspects of all subjects.

United Nations Environment Program (UNEP), 2006. ***Africa Environment Outlook 2****, ©2006 UNEP, xxx, 542pp.*

This book provides a comprehensive assessment of environmental state-and-trends, and the implications of this for human well-being and development. The assessment includes an analysis of policy responses and the opportunities available to policymakers to maximize the benefits offered by environment.

Vijay P. Singh, Il Won Seo, Jung H. Sonu (eds.), 1999. ***Environmental modeling: proceedings of the international conference on water, environment, ecology, socio-economic and health engineering (WEESHE), Seoul National University, Seoul, Korea, 18-21 October 1999****, ©1999 LLC Water resources publications, P., xii, 443pp.*

This book contains seven section encompassing major aspects of environmental and ecosystem modeling,. Beginning with discussion of water quality in the first section, the papers go on to discuss water quality monitoring in section 2, water pollution in section 3, municipal landfills and underground storage in section 4, wastewater treatment in section 5, ecosystem modeling in section 6, and environmental risk in section 7.

Virginia H. Dale, Richard A. Haeuber (eds), 2001. ***Appling Ecological Principles to Land Management****, ©2001 Springer-Verlag, xviii, 346pp.*

The most important feature of the books is the linking of ecological theory and principle with applied land-use decision making: the theoretical are joined through concrete case studies of actual land-use decision-making processes.

William P. Cunningham, Mary Ann Cunningham, 2010. ***Environmental Science, A global Concern, 11th ed.****, ©2010 McGraw-Hill Companies, xxiv, 616pp.*

This book contains five sections dealing with issues related to the Principles for understanding our environment, people in the environment, understanding and managing living systems, physical resources and environmental systems, issues and policy.

Yagoub Abdalla Mohamed, 2005. ***Country case study Sudan,*** *Eastern Nile Technical Regional office (ENTRO), ©2005 ENTRO, 47 pp.*

The case study " Conservation & Management of Habitat & Species & Sustainable Community use of Biodiversity in Dinder National Park" is taken as an example to reflect on the root causes of land degradation and activities implemented to remove the threats facing the habitat and biodiversity.

VI

THEME: GENDER

Gender mainstreaming has contributed to increased representation of women at all levels, across all NBI programs and projects.

*Nile Basin Initiative; 2012.**Gender and Youth Dimensions in Cross-Border Trade and Investment in the Nile Basin Countries-Uganda: study report**. ©2012 Nile Basin Initiative 53PP.*

This report is on gender and youth dimensions in cross-border trade and investment in the Nile Basin countries with emphasis on Uganda. It includes an exploration of the stages and reasons that govern the involvement of trade men, women and youth in cross-border trade.

*Nile Basin Initiative, 2012.**NBI Gender Mainstreaming Policy and Strategy: policy document**, ©2012 Nile Basin Initiative ,32PP.*

The Gender Mainstreaming Policy and Strategy represents a step further towards enshrining the commitment of NBI to consolidate the achievements and to systematically tackle gender imbalances in all areas towards the promotion of gender equality and equity, for the women and men, girls and boys without any form of discrimination.

*Angela Nakafeero, NBI, 2008.**Gender Assessment of the Nile Basin Initiative NBI. Mission report**, ©2008 Nile Basin Initiative, 45PP*

This report describes and analyzes the gender assessment that was undertaken as the first phase under gender mainstreaming project. It documents baseline data regarding gender equality and women's empowerment within Nile Basin Initiative.

*Nancy Spence, Mary S. Nabacwa, Patricia Munayi 2008 .**Gender Equality in African Regional Institutions mission two, three and four report to the Nile Basin Initiative:** Mission reports,©2008 Nile Basin Initiative 58PP*

This report describes and analyzes the gender assessment that was undertaken as the first phase under gender mainstreaming project. It documents baseline data regarding gender equality and women's empowerment within Nile Basin Initiative.

*NELSAP, 2013, **Gender Audit Report: Final Report** ©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme. 60pp.*

NELSAP projects are designed, prepared and implemented based on the IWRM approach. IWRM is a cross sectoral holistic approach to water management, in response to the growing and competing demands for finite freshwater supplies. It is an approach that aims at ensuring the coordinated development of water, land and related resources in order to optimize economic and social welfare without compromising the sustainability of environmental systems. Policy makers, analysts, international organizations and governments have sought consensus on principles to guide the setting of priorities, policy making and the elaboration of specific initiatives in IWRM. One of the key principles is that women should be recognized as central to the provision, management and safeguarding of water.

*NELSAP 2014, **Gender mainstreaming guidelines and checklists for the Nile Equatorial lakes Subsidiary Action program and projects: A situation Analysis.** ©Nile Basin Initiative, published by Nile Equatorial Lakes subsidiary Action Programme. 100PP.*

This report is the second (Situational Analysis) report in this consultancy, and it includes: (i) conceptual framework of the assignment; (ii) linkages between gender, IWRM and poverty; (iii) a synopsis of existing gender-related commitments, policies and strategies within the NEL countries and at NBI/NELSAP; (iv) limitations and barriers to gender mainstreaming in the NEL countries and NBI-NELSAP; and concludes with (v) lessons learnt and best practices for effective gender inclusion. The findings of this report will feed into the subsequent Draft and Final reports which will focus on practical checklists and guidelines to guide the mainstreaming of and monitoring of gender aspects into NELSAP project types.

*NELSAP, 2013, **Management response to gender audit recommendations: Final Report** ©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme. 60pp.*

The Gender Audit has provided the NELSAP with a tool and approach to develop an action planning process, moving forward. The Audit provides NELSAP with three useful outputs: (i) a reflection of the status of gender equality within the organization (ii) a baseline for collective discussion and analysis and (iii) a participatory process that builds NELSAPs ownership for the gender equality initiatives and ongoing gender action planning.

*NELSAP, 2013, **Gender action plan for the Sio-Malaba-Malakisi Trans-boundary Integrated Wate Rresources Management Project** ©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme. 6pp*

This report provides an action plan on how to mainstream gender within the sio-Malaba-Malakisi programs and projects

NELSAP, 2013, ***Gender action plan for the Mare Trans-boundary Integrated Water resources Management Project** ©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme. 6pp.*

This report provides an action plan on how to mainstream gender within the Mara programs and projects

NELSAP, 2013, ***Gender action plan for the Kagera Trans-boundary Integrated Water Resources Management Project** ©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.6pp.*

This report provides an action plan on how to mainstream gender within theKagera programs and projects.

VII

THEME: KNOWELDGE MANAGEMENT

The objective of knowledge management is to generate an array of knowledge products and disseminate them using different knowledge tools so as to keep stakeholders well informed on the issues of Nile.

Pasquale Scaturro and Richard Bangs, 2005. ***Mystery Of the Nile: Adventure and danger on the Everest of rivers,*** *© Richard Bangs and Pasquale Scaturro2005, Summersdale Publishers Ltd, 271pp.*

This book describes the dangers or challenges met by the geographical explorers like attacks by man eating crocodiles, gunfire from bandits, and extreme temperatures.

Shipman Pat, 2004. ***To the heart of the Nile: Lady Florence Baker and the Exploration of Central Africa****, ©2004 Pat Shipman, Harper Collins Publishers Inc, 428pp.*

This book describes a powerful story of adventure, love, romance and slave trade of young girls.

Oestigaard Terje, 2010. ***Nile Issues: Small Streams from the Nile Basin Research Programme****, ©2010Terje Oestigaard, Fountain Publishers-Kampala Uganda, 64pp.*

This popular book presents some of the results from the Nile Basin Research Programme which will lead to huge challenges in the future.

Rhodes Kharyssa, 2004. ***Race and Identity in the Nile Valley: Ancient and Modern Perspectives****, ©2004Carolyn Fluehr-Lobban and Kharyssa Rhodes, The Red Sea Press, Inc, 292pp.*

This book is comparing past and present Traditions in the Nile Basin Region.

Edwards Amelia, 1993. ***A thousand miles up the Nile, 1993Amelia*** *B.Edwards, Darf Publishers London, 499pp.*

This book describes the history of the Nile and Present day of the Nile.

Sultan Kermally, 2002. ***Effective Knowledge Management: A Best Practice Blueprint****, ©2002 John Wiley & Sons Ltd, published by John Wiley & Sons Ltd, 194pp.*

This book is aimed at clarifying certain myths that exist about managing knowledge and explaining how organisations can manage knowledge without tears.

Steven Cavaleri … [et al.], 2005. ***Knowledge Leadership: The Art and Science of the Knowledge-Based Organization****, ©2005 Elsevier Inc, published by Elsevier Inc, 359pp.*

The book systematically outlines a user-friendly strategy for becoming a knowledge leader and for building high-performing, knowledge-based organisation.

P.Nijikamp, A.Van Delft, 1977. ***Multi-criteria analysis and regional decision- making,*** *©1977 by H.E.Stenfert Kroese B.V., Leiden, 135pp.*

This study focuses on the use of multi-criteria methods as a tool for adequate decision-making. It starts with a discussion of traditional evaluation techniques (cost-benefit analysis etc), after which several multi-criteria decision methods are reviewed.

Ikujiro Nonaka, Hirotaka Takeuchi, 1995. ***The Knowledge-Creating Company: How Japanese Companies Create the Dynamics of Innovation****, ©1995 by Oxford University Press Inc, 284pp.*

This book provides the best and deepest insights into how Japanese companies innovate.

Chris Collison, Geoff Parcell, 2004. ***Learning to fly: Practical knowledge management from some of the worlds leading learning organizations****, © Chris Collison and Geoff Parcell, 2004, published by A Wiley Company, 312pp.*

This book leads the way in communicating the purpose and practice of knowledge management. It offers clear and straightforward answers to the 'why, what, and how?' questions.

Clyde W.Holsapple, 2004. ***Hand book on knowledge management: Volume 1 Knowledge Matters****, ©Springer-Verlag Berlin-Heidelberg 2004, 700pp.*

This volume covers basic knowledge matters such as the nature of organizations knowledge resources, the processing knowledge assets, and factors that influence organizations conduct of knowledge management.

Clyde W. Holsapple, 2004. ***Hand book on knowledge management: Volume 2 Knowledge Directions****, ©Springer-Verlag Berlin-Heidelberg 2004, 738pp.*

This second volume examines directions that an organisation can follow in its knowledge management initiatives, including various technological directions and competitive directions.It documents directions that diverse organizations have taken in their KM efforts and offers visions of directions that lie ahead.

Dr. Abdeirhman Ali Mohamed… [et al.], 2014. ***Salvage Archaeology of Dams on the Nile (Preliminary Report): Fourteen years of co-operation between NCAM &DIU****,142pp.*

This book describes matters related to dam salvage and archaeology in Sudan.

Terje Tvedt… [et al.], 2010. ***The River Nile In The Post –Colonial Age: Conflict And Cooperation Among The Nile Basin Countries****,©2010Terje Tvedt,The American University in Cairo Press,293pp.*

This book is details the conflicts that existed in the Nile Basin Countries in the Post-Colonial period and present cooperation among the Nile Basin Countries.

Seleshi Bekele Awulachew… [et al.], 2012. ***The Nile River Basin: Water, Agriculture, Governance and Livelihoods****, ©2012 International Water Management Institute, Routledge New York, 316pp.*

This book elaborates the history and the major current and future challenges, opportunities on the Nile River Basin.

*Nakasagga Juliet, 2014****. Journal Catalogue,*** *©. Nile Basin Initiative, published by Nile Basin Initiative 31PP.*

The catalogue presents the services and list of scientific journals that the Nile Basin Initiative library subscribes to through the International Network of avaibility of scientific journals (INASP) as well as support from the Bergen University.

*Nakasagga Juliet, .****The Nile Information system Resources at a Glance****, © Nile Basin Initiative, 19 pp.*

The resource book provides a list of technical documents and their abstracts that are housed on Nile Information System which is a Web based tool.

Kassahun Berhanu Alemu… [et al.], 2010. ***Reshaping Research Universities in the Nile Basin Countries****, Nile Basin Research Programme2010, Fountain Publishers Kampala, 224pp.*

This book provides an overview of the status of the research initiatives universities have under taken in the various countries in the Nile Basin.

H. E. Hurst, 1964. ***A Short Account of the Nile Basin****, ©1964H.E.Hurst, Physical Department, Ministry of Public Works, Egypt –Government Press, 79pp.*

This book provides answers to some of the questions which every intelligent person is bound to when he she sees the Nile and thinks about the relation between it and the countries through which it flows.

TECCONILE, 1994. ***The Technical Co-Operation Committee For The Promotion Of The Development And Environment Protection Of The Nile Basin: Summaries Of Rainfall Over The Hydromet Project Area For The Years1967-1973****,©TECCONILE 1994,TECCONILE-Nile Basin Initiative,193pp.*

This book shows the major catchments, sub catchments and summaries of rainfall over Hydromet project area for the years 1967-1973.

Nile Control Staff, 1973. ***The Nile Basin: Measured Discharges of the Nile and its Tributaries in the period 1968-1972(Ninth Supplement to volumeII)****, ©1973Nile Control Staff, General Organization for Government Printing Offices-Cairo, 269pp.*

This book describes the measured discharges of the Nile and its Tributaries in the period1968-1972.

Nile Control Staff, 1970. ***The Nile Basin: Measured Discharges of the Nile and its Tributaries in the period 1963-1967(Eighth Supplement to Volume II)****, ©1970 Nile Control Staff, General Organization for Government Printing Offices-Cairo, 276pp.*

This book shows the measured discharges of the Nile and its Tributaries in the period1963-1967.

Nile Control Staff, 1967. ***The Nile Basin: Measured Discharges of the Nile and its Tributaries in the period 1958-1962(Seventh Supplement to volume II)****, ©Nile Control Staff, General Organization for Government Printing Offices-Cairo, 356pp.*

This volume describes the measured discharges of the Nile and its Tributaries in the period 1958-1962.

H .E. Hurst… [et al.], 1955. ***The Nile Basin: Measured Discharges of the Nile and its Tributaries in the period 1943-1947(Fourth Supplement to volume II)****, ©1955H.E.Hurst, Government Press-Cairo, 513pp.*

This volume shows the measured discharges of the Nile and its Tributaries in the period 1943-1947.

Nile Control Staff, 1994. ***The Nile Basin: Ten –day Mean and Mean Gauge Readings of the Nile and its Tributaries for the years 1988-1992 and Normals (Thirteenth Supplement to volume III),*** *©1994Nile control Staff, Egyptian Survey Press-Cairo, 221pp.*

In this volume the zeros of all gauges from Wadi Halfa Southwards to Khartoum are published relative to mean sea level at Alexandria.This volume extends the records published in volume III and Supplements to volume III of the Nile Basin up to the end of 1992.

Nile Control Staff, 1982. ***The Nile Basin: Ten –day Mean and Monthly Mean Gauge Readings of the Nile and its Tributaries for the Years 1973-1977 and Normals (Tenth Supplement to volumeIII),*** *©1982Nile Control Staff, General Organization for Government Printing Offices,309pp.*

This volume extends the records published in volume III and Supplements to volume III of the Nile Basin up to the end of 1977.From the Mediterranean Sea at Alexandria to Wadi Halfa a continuous line of First order leveling has been run.

H. E. Hurst and R.P.Black, 1963. ***The Nile Basin: Ten-day Mean and Monthly Mean Gauge Readings of the Nile and its Tributaries for the years 1938-1942 and Normals for the period 1912-1942(Third Supplement to volume III),*** *©H.E.Hurst1963,General Organization for Government Printing Offices,389pp.*

This Volume extends the records published in Volume III and Supplement to Vol.III of the Nile Basin up to the end of 1942.All levellings referred to subsequently are based on the assumed valve of the level of Khartoum gauge Zero 360.00 meters.

Nile Control Staff, 1994. ***The Nile Basin: Measured Discharges of the Nile and its Tributaries in the period 1988-1992(Thirteen Supplement to Volume II),*** *©1994Nile Control Staff, Egyptian Survey Press, 177pp.*

This volume extends up to the end of 1992 the lists of the discharges of the Nile and its tributaries.

Nile Control Staff, 1984. ***The Nile Basin: Measured Discharges of the Nile and its Tributaries in the period 1978-1982(Eleventh Supplement to Volume II),*** *©1984Nile Control Staff, General Organization for Government Printing Offices, 214pp.*

This book describes the discharges of the Nile and its Tributaries in the period 1978-1982 which are measured by means of the current meters and the Aswan Reservoir discharges estimated by means of the calibration of Sluices.

Nile Control Staff, 1980. ***The Nile Basin: Measured Discharges of the Nile and its Tributaries in the period 1973-1977(Tenth Supplement to VolumeII),*** *©1980Nile Control Staff, General Organization for Government Printing Offices, 236pp.*

This book shows the order in which the Discharges Sites are placed in this Volume is geographical, starting with the site EL Akhsas and proceeding upstream. This Volume extends up to the end of 1977.

Nile Control Staff, 1994. ***The Nile Basin :Ten-day Mean and Monthly Mean Discharges of the Nile and its Tributaries for the years 1988-1912 and Normals for the period 1912-1992(Thirteenth Supplement to Volume IV),*** *©1994Nile Control Staff, Egyptian Survey Press,123pp.*

This Volume extends up to the end of 1992, the list of the discharges of the Nile and its tributaries measured by means of current meters, and the Aswan Reservoir discharges estimated by means of calibration of sluices.

Nile Control Staff, 1984. ***The Nile Basin:Monthly and Annual rainfall totals and number of rainy days at Stations in and near the Nile Basin for the period 1973-1977 and Normals up to 1977(Eighth Supplement to Volume VI),*** *©1984Nile Control Staff, General Organization for Government Printing Offices-Cairo,109pp.*

This Supplement is an extend to the rainfall statistics as published in Vol.VI up to the end of the year 1977. It contains a synopsis of all rainfall Stations in Egypt, Sudan and Ethiopia (Addis Ababa) only for the period 1973-1977.

Nile Control Staff, 1971. ***The Nile Basin:Ten-dayMean and Monthly Mean Discharges of the Nile and its Tributaries for the years 1963-1967 and Normals for the period 1912-1967(Eighth Supplement to Volume IV),*** *©1971 Nile Control Staff, General Organization for Government Printing Offices-Cairo,229pp.*

This Volume extends up to the end of 1967, the list of the discharges of the Nile and its Tributaries measured by means of current meters and discharges estimated by means of the calibration of sluices.

Nile Control Staff, 1979. ***The Nile Basin: Ten-day Mean and Monthly Mean Discharges of the Nile and its Tributaries for the years 1968-1972 and Normals for the period 1912-1972(Ninth Supplement to Volume IV),*** *©1979Nile Control Staff, General Organization for Government Printing Offices-Cairo,249pp.*

This book describes the order in which the discharge sites are placed in this volume is geographical starting with the site downstream of Assiut Barrage and proceeding Upstream.

Nile Control Staff,1991. ***The Nile Basin :Ten-day Mean and Monthly Mean Discharges of the Nile and its Tributaries for the years 1983-1987 and Normals for the period 1912-1987(Twelvth Supplement to Volume IV),*** *©1991Nile Control Staff, Egyptian Survey Press-Cairo,193pp.*

This volume extends up to the end of 1987 and shows the measured discharges of the Nile and its Tributaries by means of current meters, and the Aswan Reservoir discharges by means of the calibration of Sluices.

H. E. Hurst …[et al.],1971. ***The Nile Basin:Monthly and Annual Rainfall Totals and Number of Rainy Days at Stations in and near the Nile Basin for the period 1938-1942(First Supplement to Volume VI),*** *©1971 H.E.Hurst, General Organization for Government Printing Offices-Cairo,202pp.*

This Volume extends the rainfall statistics as published in Vol.VI up to the end of the year 1942.It contains a synopsis of all rainfall stations relating to the Nile Basin for the period 1938-1942.

H. E. Hurst [et al.], 1968. ***The Nile Basin: The Major Nile Projects (Volume X),*** *© 1966H.E.Hurst, General Organization for Government Printing Offices-Cairo, 253pp.*

This book describes the Nile Basin and its major projects.

Nile Control Staff, 1972. ***The Nile Basin:Monthly and Annual Rainfall Totals and Number of Rainy Days at Stations in and near the Nile Basin for the period 1963-1967 and Normals up to1967(Sixth Supplement to Volume VI),*** *©1972Nile Control Staff, General Organization for Government Printing Offices,168pp.*

This Volume extends the rainfall statistics as published in Vol. VI. up to the end of the year 1967.It contains a synopsis of all rainfall stations relating. The stations are grouped by countries, and both the groups and the stations within a group are arranged in order of Latitude starting from the north.

Hurst… [et al.], 1978. ***The Nile Basin (Volume XI),*** *©1978Hurst, General Organization for Government Printing Offices-Cairo, 363pp.*

Volume XI brings the detailed account of hydrological studies of the Nile Basin, which began with Central Africa, as far as the Aswan Dam, the final regulator of Egypt's water supply.

H. E. Hurst… [et al.], 1957. ***The Nile Basin : Ten-day Mean and Monthly Mean Discharges of the Nile and its Tributaries for the Years 1948-1952 and Normals for the period 1912-1952(Fifth Supplement to Volume IV),*** *©H.E.Hurst1957,Government Press-Cairo,351pp.*

The ten-day mean discharges of the Nile and its tributaries at various sites have been computed in various ways depending upon the frequency of the discharge observations at each site. At Aswan the sluices of the dam have all been calibrated so that the discharge is computed daily from the reservoir level and the sluice openings.

TECCONILE, 1995. ***Agreed Minutes of the Third Meeting of Ministers of Water Affairs in the Nile Basin Countries on TECCONILE,*** *©1995TECCONILE, TECCONILE, 61PP.*

This book describes the agreed minutes of the third meeting of Ministers of Water Affairs in the Nile Basin Countries.

Sandra Postel, 1992. ***Last Oasis: Facing water scarcity****,©1992 World watch Institute,W.W.Nerton and Company,239pp.*

This book describes the escalating pressures placed on water systems, rivers, lakes, wetlands and underground aquifers.

Cari Meister, 2002. ***Nile River****, ©2002Abdo Consulting group, Inc, Abdo publishing Company, 24pp.*

This book Surveys the origin, tributaries, history, plant and animal life and the Aswan Dam of the Nile River.

Mike Graf, 2004. ***The Nile River: Land and Water****, ©2004 Capstone Press, Capstone Press, 32pp.*

This book describes the Nile, Nile's path, Nile's history, Nile's people using it and Nile today.

Charnan Simon, 2005. ***The secrets of the Nile****, ©2005 the child's world, the child's world, 32pp.*

This book describes the course of the river, plants and animals, usage, even looking to the future of the Nile.

Rob Bowden, 2005. ***Settlements of the Nile (Rivers through time),****©Harcourt Education Ltd2005,Heinemann,48pp.*

This book is about settlements along river Nile, learning and farming on the Nile.

Rushdi Said, 1993. ***The river Nile: Geology, Hydrology and Utilization****, ©1993 R.Said, Pergamon Press, 320pp.*

This is explains the geology, hydrology and utilization of the waters of the Nile and the future uses of the waters of the Nile.

Martha Holmes… [et al.] , 2004. ***Nile,*** *© Martha Holmes, BBC Books, BBC Worldwide Ltd, 168pp.*

This book describes the Nile from its original source to its mouth in Mediterranean Sea.

Gianni Guadalupi, 2002. ***The discovery of the Nile****, ©2002 White Star S.r.l, White Star Publishers, 351pp.*

This book is about the discovery of the Nile.

TECCONILE, 1995. ***Agreed Minutes of the Third Meeting of Ministers of Water Affairs in the Nile Basin Countries on TECCONILE****, ©1995TECCONILE, TECCONILE, 61PP.*

This book describes the agreed minutes of the third meeting of Ministers of Water Affairs in the Nile Basin Countries.

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Martha Holmes… [et al.] , 2004. ***Nile,*** © Martha Holmes, BBC Books, BBC Worldwide Ltd, 168pp.

This book describes the Nile from its original source to its mouth in Mediterranean Sea.

Gianni Guadalupi, 2002. ***The discovery of the Nile,*** *©2002 White Star S.r.l, White Star Publishers, 351pp.*

This book is about the discovery of the Nile.

Nile Control Staff, 2004. ***The Nile Basin: Gauge Readings 1998-2002(Fifteenth Supplement to Volume III),*** *© Nile Control Staff 2004, Nile Control Staff-Cairo,163pp.*

This Supplement extends the records published in Volume III and Supplements to Volume III of the Nile Basin up to the end of 2002.For a short description of the type of gauges and Lines of leveling, the reader has to refer to the introduction of Volume III.

*Nile Control Staff, 2005.****The Nile Basin: Rainfall 1998-2002(Thirteen Supplement to Volume VI),****©2005Nile Control Staff-Cairo,199pp.*

This Supplement is an extend to the rainfall statistics as published in Vol .VI up to the end of year 2002.It contains a synopsis of some rainfall stations in Egypt and the Sudan for the period1998-2002.

H. E. Hurst, R .P. Black, 2005. ***The Nile Basin: Monthly and Annual Rainfall Totals and Number of rainy days at Stations in and near the Nile Basin for the Period ending 1937(Volume VI),*** *©New Print2003, New Print2005-Cairo, 613pp.*

This Volume contains a synopsis of all rainfall statistics relating to the Nile Basin up to 1937.The Stations are grouped by countries and both the groups and the stations within a group are arranged in order of latitude starting from the North.

Nile Control Staff,1967. ***The Nile Basin: Ten –day Mean and Monthly Mean Gauge Readings of the Nile and its Tributaries for the Years 1958-1962 and Normals(Seventh Supplement to Volume III),****©Nile Control Staff 1967,New Print 2005-Cairo,455pp.*

This Volume extends the records published in Volume III and Supplements to Vol.III of the "Nile Basin" up to the end of 1962.For a Short description of the type of gauges and lines of leveling the reader is referred to the introduction of Vol.III.

*Nile Control Staff, 1984.****The Nile Basin: Ten-day Mean and Monthly Mean Readings of the Nile and its Tributaries for the Years1978-1982 and Normals (Eleventh Supplement to Volume III),****©1984Nile Control Staff, New Print 2005-Cairo,297pp.*

This Volume extends the records published in Volume III and Supplements to Volume III of the "Nile Basin" up to the end of 1982.From the Mediterranean Sea at Alexandria to Wadi Halfa a continuous line of First order leveling has been run.

Nile Control Staff, ***2005. The Nile Basin: Calculated Discharges (Fifteenth Supplement to Volume IV),****©2005Nile Control Staff, Nile Control Staff-Cairo,85pp.*

This Supplement extends up to the end of 2002, the list of the discharges of the Nile and its Tributaries measured by means of current meters ,and the discharges of High Aswan Dam estimated by means of the Calibration of Sluices.

H.E.Hurst, P.Phillips, ***1937.The Nile Basin: Measured Discharges of the Nile and its Tributaries in the Period 1933-1937(Second Supplement to VolumeII),*** *©1937H.E.Hurst and P.Phillips, New Print 2003, 362pp.*

All the remarks contained in the Introduction to Volume II referring to the methods and accuracy of measurement apply equally to the discharges published in this Volume and extends up to the end of 1937.

*Nile Control Staff, 2002.****The Nile Basin: Measured Discharges1998-2002(Fifteenth Supplement to VolumeII),*** *©2002Nile Control Staff, Nile Control Staff-Cairo2006, 238pp.*

This Supplement extends up to the end of year 2002.The units used in this Supplement are meters and Seconds unless otherwise stated.

Mysiak, Jaroslav [et al.]2009, ***The Adaptive Water Resource Management Handbook*** *© Earthscan Ltd, 224PP.*

The complexity of water resource management poses many challenges. Based on extensive collaborative research from the New Water (New Approaches to Adaptive Water Management Under Uncertainty) project, this book explains the benefits, outcomes and lessons learned from adaptive water management (AWM).

Food and Agriculture Organization of the United Nations, 2007, ***African Water Resource Database: GIS-based Tools for Inland Aquatic Resource Management: Technical Manual and Workbook v. 2*** *© Food and Agriculture organization, 304PP.*

The African Water Resource Database (AWRD) is a set of data and custom-designed tools, combined in a geographic information system (GIS) analytical framework. This title includes: DVD 1 – AWRD Extension and Archive; DVD 2 - AWRD Archive; and, Appendix A2 - Schematic Diagram of AWRD Interface and Modules.

Black, Maggie [et al.], 2009. ***The Atlas of Water: Mapping the World's Most Critical Resource*** *© Earthscan Ltd, The Earthscan Atlas Series) 128PP.*

Covers a wide range of topics to map how our limited water resources are shared and used around the world. This atlas includes maps on climate change, water for tourism, dam construction, biodiversity, and water management, commerce and legislation.

Mogaka, Hezron.. [et al], 2006. ***Climate Variability and Water Resources Degradation in Kenya: Improving Water Resources Development and Management*** *© World Bank Publications, 128PP.*

This report attempts to fill that gap for two of the most important water-related issues facing the effects of climate variability and the steady degradation of the nation's water resources

McDonald, David A, 2009. ***Electric Capitalism : Recolonising Africa on the Power Grid.*** *©Earth Scan ltd, 536pp.*

Presents a theoretical framework for understanding electricity and capitalism in Africa, followed by a series of case studies that examine different aspects of electricity supply and consumption. This title offers an overview of one of the most important developments in Africa.

Trimble, Stanley W, 2007. ***Encyclopedia of Water Science.*** *© CRC Press Inc, 1586pp.*

Filled with figures, images, and illustrations, this work provides effective procedures in agricultural water engineering. It unveils a spectrum of design concepts, methods, and solutions for enhanced performance of water quality, treatment, conservation, and irrigation methods, as well as improved water efficiency in agricultural programs.

Otieno, Herick O [et al.], 2006. ***Energy Resources in East Africa: Opportunities and Challenges*** *© Springer-Verlag Berlin and Heidelberg 308PP.*

The authors provide an in-depth analysis of the advantages and disadvantages of different energy sources in -terms of environmental, industrialization, distribution costs and impacts. The book will contribute to a sustainable exploitation of energy resources for the improvement of the East African people's quality of life.

Crocker, M [et al.], 2006. ***Ground water Regulation and Management*** *© World Bank Publications 88PP.*

The authors provide an in-depth analysis of ground water regulation and management.

Ferrier,Robert [et al.], 2009. ***Handbook of Catchment Management*** *© Wiley-Blackwell 472PP.*

Addresses the fundamental requirement for an interdisciplinary catchment based approach to managing and protecting water resources that crucially includes an understanding of land use and its management.

Brebbia, C.A , 2009. ***River Basin Management V*** *© WIT Press 550PP.*

The Fifth International Conference on River Basin Management presents recent advances in the overall management of riverine systems, including advances in hydraulic and hydrological modelling, ecology, environmental management and flood forecasting.

Byrne, John [et al.], 2006. ***Transforming Power: Energy as a Social Projec***t*© Transaction Publishers 307PP.*

Transforming Power is divided into three parts: Energy, Environment, and Society; The Politics of Conventional Energy; and The Politics of Sustainable Energy. It interrogates current contemporary energy assumptions, exploring the reflexive relationship between energy, environment, and society, and examining energy as a social project.

Pascual, Unai [et al.], 2009. ***Water, Agriculture, and Sustainable Well-being*** *© OUP India 360PP.*

This book is a scholarly presentation on issues pertaining to water resource management and agriculture practices. These include water contamination and health; trade-offs between private benefits and sustainable development; and trade and environment.

Munasinghe, Mohan [et al.], 2008. ***Energy Policy Analysis and Modelling*** *© Cambridge University Press 372PP.*

This book presents a hierarchical modelling scheme intended to support energy planning and policy analysis in developing countries.

Lenton, Roberto [et al.], 2009. ***Integrated Water Resources Management in Practice: Better Water Management for Development by*** *© Earthscan Ltd 248PP.*

Better water management will be crucial if we are to meet many of the key challenges of this century. Integrated Water Resources Management (IWRM) is widely recognized as the best way forward. This book illustrates how better water management, guided by the IWRM approach, has helped to meet a wide range of sustainable development goals.

Birru Dori, 2009. ***Final report on web-based database design and development training project, Eastern Nile Technical Regional Office (ENTRO),*** *©2009 ENTRO, [54]pp.*

The main objectives of the training is to build the capacity of professionals at the flood forecasting centers on the use and building of database using postegre SQL and PHP & JavaScript so that they can share data/ information maintained in the database using web technologies and platform.

Darlington Sakwa, 2012. ***Information technology: strategy, Eastern Nile Technical Regional office (ENTRO),*** *© 2012 ENTRO, 23 pp.*

This strategy is provided to guide Nile Basin Initiative organizations towards realizing their Vision and Mission/Objective using Information Technology (IT) as a tool in the best possible way, following best practices within the imposed by environmental, financial and skills conditions

.Eastern Nile Technical Regional Office (ENTRO), 2004. ***ENSAP Web Site Administration Manual****, ©2004 ITSC Technology Support Plc., 14pp.*

This manual is prepared to help the http://www.eastern-nile.org web site administrator for managing the web.

Eastern Nile Technical Regional office (ENTRO), 2006. ***Water Atlas of the Tekeze-Atbra-Setit sub-basin****, ©2006 ENTRO, 43pp.*

This atlas is summarized version of the main report with more declarative fashion supported by few explanations and more base maps with objective of providing basic features of each sub basin for decision makers and senior program/ project coordinators.

Eastern Nile Technical Regional office (ENTRO), 2006. ***Water Atlas of the Blue Nile sub-basin****, ©2006 ENTRO, 49pp.*

This atlas is summarized version of the main report with more declarative fashion supported by few explanations and more base maps with objective of providing basic features of each sub basin for decision makers and senior program/ project coordinators.

Eastern Nile Technical Regional office (ENTRO), 2006. ***Social Atlas****, ©2006 ENTRO, 69pp.*

The atlas provides different maps different depicting major social indicators in the Eastern Nile Basin disaggregated by major political division in countries. These include demographic and socioeconomic issues such as population size and growth rates; unemployment; living standards; health; education; and related indicators.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Water Atlas of the Baro-Akobo and White Nile sub-basin*** *©2007 ENTRO, 65pp.*

This atlas is summarized version of the main report with more declarative fashion supported by few explanations and more maps with objective of providing basic features of each sub basin for decision makers and senior program/ project coordinators.

Eastern Nile Technical Regional office (ENTRO), 2007. ***Water Atlas of the Main Nile sub-basin****, ©2007 ENTRO, 64pp.*

This atlas is summarized version of the main report with more declarative fashion supported by few explanations and more base maps with objective of providing basic features of each sub basin for decision makers and senior program/ project coordinators.

FAO, 2011. ***Training manual, International water resources/river basins including law, negotiation, conflict resolution and simulation training exercises, Cooperazione Italiana, Nile Basin Initiative (NBI),*** *©2011 FAO, 203pp.*

This manual contents six chapters Includes, Setting the Scene, water resources and river basins, international law in context, negotiations and conflict resolution, simulation exercises, and conclusion.

FAO, 2011. ***Manual, International water resources/river basins including law, negotiation, conflict resolution and simulation training exercises, Cooperazione Italiana, Nile Basin Initiative (NBI)****, ©2011 FAO, 61pp.*

This manual describes in detail all steps and operations involved in transferring the accumulate raw data from retrieval unit to PC208W software on PC, processing the new information and subsequently storing it in the LVBD in MS access.

Gedion Tsegaye Sahle, 2011. ***Eastern Nile irrigation & drainage study (ENID), knowledge base development: final report, Eastern Nile Technical Regional Office (ENTRO)****, ©2011 GIZ . 99 pp.*

The consultancy in this report encompasses tow study components:

- *Development of Eastern Nile irrigation & drainage study (ENID) Geodatabase using software tools recently procured by ENTRO (ArcGIS Server, SQL Server and other available resources).*
- *Production of special knowledge products; and designing a web-interface for documenting, accessing and presenting the special data pertaining to irrigation in the EN region.*

Gedion Tsegaye Sahle, 2012. ***ESPSI, ENPT & K-Base development GIS database management: interim report, Eastern Nile Technical Regional Office (ENTRO),*** *©2012 ENTRO, 69pp.*

This Report is Prepared to present the progress made in February 2012. The Main Accomplishments in this period have been mainly on data organization, data quality control, some GIS analysis tasks and building of the geodatabase mostly with JMP RS-GIS data.

Gedion Tsegaye Sahle, 2012. ***ESPSI, ENPT & K-Base development GIS database management: draft final report, Eastern Nile Technical Regional Office (ENTRO)****, ©2012 ENTRO, 107pp.*

This report is one of the main deliverables prepared as per the consultancy requirements clearly stipulated in the contract, and provides the objectives of the consultancy services , data/information requirements and availability, RS-GIS data quality checking, generation and organization, geodatabase development.

Hisham Isam M. Abdel-Magid, 2012. ***Atlas of the Eastern Nile: Version 2.0, Eastern Nile Technical Regional office (ENTRO)****, ©2012 ENTRO, pp.[55] leaves*

The atlas provides different maps.

UNDP-EGY, 1984. ***The river Irrigation data collection system, Background and Feasibility, Nile River Data collection System****, ©1984 UNDP-EGY, 46pp. (technical report; 25).*

This report contains background information and feasibility analysis to justify the Nile River irrigation Data collection system.

Wim Bastiaanssen, 2009. ***Establishment of a GIS and data Management System at ENTRO, Phase 1: System Design and Development,*** *©2009 ENTRO, 99pp.*

An Important component of the current study is to implement one specific application for ENTRO. ENTRO decide to test the use of remote sensing data in their flood management project.

VIII

THEME: POLICIES AND STRATEGIES

The Nile Basin Initiative has continued to strengthen expert support to national water policy framework with a key focus on trans-boundary dimension provided.

Nile Basin Initiative, 2013. ***Wetland Management Strategy,*** *© Nile Basin Initiative, Nile Basin Initiative, 19 pp.*

This document presents the Wetland management strategy facts and observation pertaining to Nile Basin countries' effort to sustain the Nile and its associated resources base for future generation. While also striving to judiciously utilize them to address the development needs of the present generation, particularly to tackle endemic and persistent poverty that characterizes most of the Basin countries.

Annexe1: Glossary

Annexe2: Basin-wide functions, services and benefits of Transboundary wetlands

Annexe3: Major wetlands in the Nile Basin.

*Nile Basin Initiative, 2013****.Climate Change Strategy,*** *© Nile Basin Initiative, Nile Basin Initiative, 15 pp.*

This document highlights the Climate Change Strategy facts and observation pertaining to Nile Basin countries' effort to sustain the Nile and its associated resources base for future generation. While also striving to judiciously utilize them to address the development needs of the present generation, particularly to tackle endemic and persistent poverty that characterizes most of the Basin countries. This booklet includes Annexes:

Annexe1: Glossary

Annexe2: List of consulted National policy and legal documents.

*Nile Basin Initiative, 2013****.Enviromental and social policy,*** *©Nile Basin Initiative, Nile Basin Initiative, 13 pp.*

This booklet describes the Environmental and social policy facts and observation pertaining to Nile Basin countries' effort to sustain the Nile and its associated resources base for future generation. While also striving to judiciously utilize them to address the development needs of the present generation, particularly to tackle endemic and persistent poverty that characterizes most of the Basin countries. This booklet includes Annexes:

Annexe1: Glossary

Annexe2: List of consulted National policy and legal documents.

*Nile Basin Initiative, 2012,****NBI overarching strategic plan 2012-2016,*** *©Nile Basin Initiative, Nile Basin Initiative, 10pp.*

This report presents the NBI Short-term priorities for 2012-2016 are translated into action, seven strategic objectives haven been set, These are built around NBI concentration on performance enhancement through increasing the impact of the Subsidiary Action Programs, coupled with a streamlining of the Secretariat to focuses on basin cooperation and water resources management, "Doing more and doing it better"

*Nile Basin Initiative, 2012,****The Nile Basin Initiative Secretariat strategic plan 2012-2016,*** *©Nile Basin Initiative, Nile Basin Initiative, 10pp.*

This report presents the NBI long-term priorities for 2012-2016

Nile Basin Initiative, 2010, ***Nile Basin Sustainability Framework*** *©Nile Basin Initiative, Nile Basin Initiative, 10pp.*

The NBSF is a strategic planning tool that seeks to: (a) ensure that all relevant guiding policies and strategies needed to support the Subsidiary Action Program (SAP) investment projects are available in a timely manner; (b) promote the consideration of the Transboundary dimension in riparian states' approaches to water resources management; and (c) provide overall direction for the cooperative management and development of the river basin until a permanent River Basin Organization (RBO) is established.

Nile Basin Initiative, 2012. ***Information Disclosure Policy****, ©Nile Basin Initiative, 9pp.*

The purpose of this document is to bring about broader stakeholder participation and provide an overarching framework for the disclosure of information across the NBI, consistent with the legal provision of the NBI centres and the best practises of international river Basin organizations.

*Ministry Water and Livestock Development, 2002.****National Water Policy of Tanzania: Policy Document****© Ministry Water and Livestock Development Tanzania, 55pp.*

The main objective of this revised policy is to develop a comprehensive framework for sustainable development and management of the Nation's water resources, in which an effective legal and institutional framework for its implementation will be put in place. This is an act to provide for institutional and legal framework for sustainable management and development of water resources.

Republic Of Kenya, 2011. ***Ministry Of Gender, Children and Social Development Gender Policy,*** *© Republic of Kenya, 26pp.*

The purpose of this ministerial gender policy is to institutionalize the Kenya national policy on gender and development (NPGD), 2000 within the ministry of gender, children and social development. It articulates the policy approach of gender mainstreaming and empowerment of women at the ministry level, this policy is designed to provide a framework for the conceptualization, design, implementation, monitoring and evaluation of the ministry's programmes.

Republic Of Kenya, 2007. ***Kenya Vision 2030: A Globally Competitive and Prosperous Kenya,*** *© Republic of Kenya, 164pp.*

This report is based on the three key pillars: Economic; Social; and Political Governance.

The economic pillar aims to achieve an economic growth rate of 10 per cent per annum and

Sustaining the same till 2030 in order to generate more resources to address the MDGs, social pillar seeks to create just, cohesive and equitable social development in a clean and secure environment, political pillar aims to realize an issue-based, people-centered, result-oriented and accountable democratic system.

Republic of Tanzania, 1993, ***Policy on Woman in Development in Tanzania: Ministry of Community Development Affairs and Children****, © Republic of Tanzania, 22pp.*

This document presents the current situation of woman in Tanzania, Rationale of the policy of women in development, goals of the policy on Women in development in Tanzania

Republic of Tanzania, 1998. ***The National Poverty Eradication Strategy****, © Republic of Tanzania, 58pp.*

This document present the governments war against three development enemies: Ignorance, disease and poverty, also aimed at expanding and strengthening social services, such as education, health, water. Communication and transport, agriculture and the economy at large

*Republic of Tanzania, 2008.****Private Sector Competitiveness Project Land Reform Sub-Component Resettlement Policy Framework,*** *©2008 Republic of Tanzania, 26pp.*

The objective of the PSCP is to create sustainable condition for enterprise creation, growth and innovation, which respond to market opportunities. The project objective will lead to the development of a healthy and competitive domestic private sector, measured in the number of new businesses, the growth of existing businesses and increasing formalization of informal business.

*Republic of Tanzania,2009.****The National Irrigation Policy****, ©2009 Ministry of Water and Irrigation, 55pp.*

The main objective of this report is to ensure sustainable availability of irrigation water and its efficient use for enhanced crop production, productivity and profitability that will contribute to food security and poverty reduction.

Republic of Tanzania,2010. ***National Water Harvesting and Storage Management Policy****, ©2009 Ministry of Water and Irrigation, 39pp.*

The main objectives of this document is to provide a framework for expansion of infrastructure for national water storage capacity from the current 124 Mm3 to 4.5 Bm3 to ensure an increase in per capita storage from 5.3m3 to 16m3 over the next ten years, To improve participation in planning, financing and investment by communities, development partners, NGOs, PPPs, and other stakeholders' contributions.

Republic of Tanzania,2009. ***The Tanzania Development Vision 2025: Planning Commission****, ©2009 Republic of Tanzania, 31pp.*

This report presents the Tanzania vision 2025 which aims at achieving a high quality livelihood for its people, attain good governance through the rule of law and develop a strong and competitive economy .It is envisioned that the specific achievements would be attainable by the year 2025.

Republic of Tanzania,2002. ***National Water Policy,*** *©2009 Republic of Tanzania, 49pp.*

The main objective of this revised policy is to develop a comprehensive framework for sustainable development and management of the Nation's water resources, in which an effective legal and institutional framework for its implementation will be put in place.

IX

THEME: SOCIO-ECONOMIC DEVELOPMENT

Establish and promote a knowledge base and information on the principles and mechanisms for sharing potential social, economic and environmental benefits as well as develop capacity of key stakeholders within the riparian countries.

*Nile Basin Initiative, 2007.**Final scoping study Burundi,** ©Socio-economic Development and benefit sharing project .75pp.*

This report provides data, information and analysis on selected themes relevant to socio-economic development and benefit sharing in Burundi

*Nile Basin Initiative, 2008. **Policy on "Brown" Water due to Environmental Degradation and l the Sustainable Resources use in the Nile Basin Countries Rwanda,** ©Socio-economic Development and benefit sharing project 2009.124pp.*

Study report focused on the theme of policy to reduce environmental degradation in the Nile basin.

*Nile Basin Initiative, 2007.**Final scoping study report Rwanda,** ©Socio-economic Development and benefit sharing project 2008.61pp.*

This study describes the discourse that is grounded in the current millennium challenge of eradicating poverty

*Nile Basin Initiative, 2008. **Policies to Reduce Social Environmental Costs of Trade in Tourism Services in the Nile Basin Countries Burundi,** ©Socio-economic Development and benefit sharing project 2009.82pp.*

The report points out the hypothesis that tourism as a trade has appositive effort on income but negative impact on the environment and society.

*Nile Basin Initiative, 2007. **Final scoping study Uganda,** ©Socio-economic development and benefit sharing project 2008. 70pp*

The scoping study presents an initial effort to provide an overview of the opportunities for cross-border trade in the Nile basin.

*Nile Basin Initiative, 2008. **Gender and youth Dimensions in Cross-Borders Trade and Investment in the Nile Basin Countries Uganda,** ©Socio-economic development and benefit sharing project. 71pp.*

This report details the purpose of enhancing the creation of benefits from cross- border trade through value addition across the trade chain and enhance benefit sharing through investment in live hoods and through mainstreaming men, women and youth across the chain.

*Nile Basin Initiative, 2008. **Food-Poverty-Vulnerability Index Analysis for the Nile Basin Region (Ethiopia, Kenya and Sudan) Sudan,** ©Socio-economic development and benefit sharing project.114pp.*

The study points out the lack of commonality and shared vision approaches among NBI countries in dealing with food insecurity problem.

*Nile Basin Initiative, 2008. **Policies to Reduce Social and Environmental Costs of Trade in Tourism Services in the Nile Basin Countries Burundi,** ©Socio-economic development and benefit sharing project.82pp*

This report departs from the hypothesis which suggests that tourism as well as any trade activity generate more income than it impacts negatively on the environment (Sachs and Warner, 1995)

*Nile Basin Initiative, 2007. **Final scoping study Sudan,** ©Socio-economic development and benefit sharing.113pp.*

A study by Bonifica (1983) has pointed out that the hydropower potential that can be produced from reservoirs in the southern reach of BAHR El-Jebel upstream mongalla exceeds that of the high Dam with negligible evaporation losses and the absence of sediment load.

*Nile Basin Initiative, 2007. **Final scoping study Ethiopia,** ©Socio-economic development and benefit sharing 2008.54pp.*

The aims of the scoping study results is to produce an overview of the three cluster themes in order to identify priority areas for policy and research

Nile Basin Initiative, 2007. ***Infrastructure and Food Security in the Nile Basin Regional: A Case study from Ethiopia, Kenya and Sudan. Ethiopia****, ©Socio-economic development and benefit sharing .140pp*

Thus, the central purpose of the study is to assess the status of the aforementioned infrastructures and food security and the relations thereof in the Nile basin with emphasis on Ethiopia, Kenya and the Sudan.

Nile Basin Initiative, 2007. ***Final scoping study2007 Tanzania,*** *©Socio-economic development and benefit sharing .107pp*

The study recommends a policy of establishing and expanding cross-border connections with neighbouring countries, which are technically and economically viable.

Nile Basin Initiative, 2007. ***The impact of regional Power Trade on Poor Communities in the Nile Basin Countries,*** *©Socio-economic development and benefit sharing.154pp*

This document reports the findings of a study which addressed the impact of regional power trade on poor communities in the Nile basin countries and especially in Ethiopia and Sudan.

Nile Basin Initiative, 2007. ***Final scoping study2007 Egypt****, ©Socio-economic development and benefit sharing.135pp*

The study discuses the tools to stimulate and engage in regional and national consultations to discuss issues and range of options.

Nile Basin Initiative, 2007. ***Final scoping study2007 Kenya****, ©Socio-economic development and benefit sharing.100pp.*

This report starts by highlighting the characteristics of livelihoods or food system that ensure food security and provides the food security situation for each country in the Nile basin.

Nile Basin Initiative, 2008. ***Low Agricultural Productivity and Food Insecurity in the Nile Basin Countries Kenya****, ©Socio-economic development an benefit sharing.116pp.*

This document presents a strong case for increasing investment as a lever to stimulate crop and livestock supply response, especially given the rising food price trends.

Nile Basin Initiative, 2008. ***Physical and Non-Physical Barriers to Cross-Border Trade in the Navigation of the River Nile Egypt,*** *©Socio-economic development and benefit sharing.127pp.*

This volume includes annexes from A-D:

Annex A: physical and non-physical barriers to cross-border trade in the navigation of the river Nile.

Annex B: Equatorial lakes ports development and implementation strategy.

Annex C: Implication of fuel price on the feasibility of Ensap Hydropower interconnection projects.

Annex D: Cluster/workshop report

Nile Basin Initiative, 2001. ***Socio-economic development and benefit-sharing project document,*** *© Council of ministers of water affairs of Nile Basin states, published by Nile basin initiative- Shared vision program.22pp.*

This document aims to promote socio-economic cooperation and development in the Nile basin countries through further cooperation, dialogue, exchange, and integration of the Nile countries in their quest for development and poverty eradication.

*Nile Basin Initiative, 2003.****Project appraisal document,*** *©Nile basin initiative, published by Nile basin initiative- Shared vision program.167pp.*

This document identifies the water resources planning and management project (hereafter referred to as the water resource project), giving information regarding implementation arrangements, financial management and disbursement arrangements, procurement, and monitoring and evaluation.

Nile Basin Initiative, 2013. ***Resettlement Action Plan (RAP) for the proposed Rusumo Falls Hydroelectric Project (Dam & powerplant component)-Volume 1: main report*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.207pp.*

This document presents the Resettlement Action Plan (RAP) for the Dam and Powerplant component of the Rusumo Falls Hydroelectric Power Development Project (the Project). The RAP has been developed as one consolidated document, covering the affected communities in both countries, Rwanda and Tanzania. The proposed project is however a joint development undertaking by the Governments of Burundi, Rwanda and Tanzania. Compared to the previous Project designs, the RoR has resulted in significant reduction of impacts with regard to types, magnitude and extent.

Nile Basin Initiative, 2013. ***Rusumo Project Ressetlement / Economic displacement grievance redress mechanism manual*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes. 19pp.*

This Resettlement manual redresses the economic displacement grievances. has been prepared to specify the compensation, resettlement and rehabilitation requirements and arrangements for the transmission component of Rusumo Falls Hydroelectric Project.

Nile Basin Initiative, 2013. ***Regional Rusumo Hydroelectric Power Project Public Consultation and Disclosure Plan (PCDP)*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.33pp.*

This PCDP is a tool for managing two-way communication between the Rusumo Falls Hydroelectric Project sponsors and the public. The general objective is to improve decision-making and build understanding by actively involving individuals, groups and organizations with a stake in the Project. This involvement will increase the Project's long-term viability and enhance its benefit to locally affected people and other stakeholders.

Nile Basin Initiative, 2013 ***Resettlement Action Plan for the Electricity Transmission Lines linked to the Rusumo Falls Hydro-Electric Generation Plant: Final Report*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.345pp.*

This Resettlement Action Plan (RAP) has been prepared to specify the compensation, resettlement and rehabilitation requirements and arrangements for the transmission component of Rusumo Falls Hydroelectric Project.

Nile Basin Initiative, 2012. ***Rusumo Falls HydroElectric Project – Dam & Powerplant Component: Resettlement Action Plan (RAP), Volume 1: Main Report*** *,© Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.205pp.*

This document presents the Resettlement Action Plan (RAP) for the Rusumo Falls Hydro-electric Power Development Project. The Project will affect communities in Rwanda and Tanzania in the vicinity of the Project site, the Kagera River immediately upstream of the Rusumo Falls, on the border between the two countries.

X

THEME: WATER RESOURCES DEVELOPMENT

The objective of this program is to prepare Transboundary water development projects and programs as well as facilitate resource mobilization for implementation of the investment projects.

Nile Basin Initiative, 2012. ***Feasibility Study for Small Multipurpose Reservoirs at Bulusambu and Maira in the Sio-Malaba-Malakisi Sub Basin: Maira Feasibility Study Report – Part 1 Maira Dam Reservoir: Vol1: Investigations and Studies*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 328pp.*

This Report covers the Maira Dam-Reservoir Project and includes sections on; Maira Site - General Information, Terrain Studies and Topographical Investigations, Geological and Geotechnical Studies, Dam Axis Optimization, Hydrological Analysis, Reservoir Simulations, Hydropower Potential, Identification of Environmental and Social Concerns, Cost Estimate, Socio-Economic Analysis and Institutional Analysis.

Nile Basin Initiative, 2012. ***Feasibility Study for Small Multipurpose Reservoirs at Bulusambu and Maira in the Sio-Malaba-Malakisi Sub Basin: Bulusambu Feasibility Study Report– Part 2 Bulusambu Dam Reservoir: Vol1: Investigations and Studies*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 125pp.*

This Report covers the Bulusambu Dam Reservoir Project and includes sections on; Bulusambu Site - General Information, Terrain Studies and Topographical Investigations, Geological and Geotechnical Studies, Dam Axis Optimization, Hydrological Analysis, Reservoir Simulations, Hydropower Potential, Identification of Environmental and Social Concerns, Cost Estimate, Socio-Economic Analysis and Institutional Analysis.

Nile Basin Initiative, 2008. ***Sio-Malaba-Malakisi (SMM) Transboundary Integrated Water Resources Management and Development Project: SMM Investment Strategy-Final Report*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 148pp.*

The SMM Investment Strategy Report is about promoting environmentally sustainable socio-economic development of the SMM catchment through identification and implementation of appropriate intervention measures (Investment Projects) aimed at addressing the critical water resources issues and challenges in the catchment.

Nile Basin Initiative, 2010. ***Pre-feasibility Studies for the Development of Multi-Purpose Storage Reservoirs for Sio-Malaba-Malakisi River Catchment-Final Report Volume 1: Main Report*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 185pp.*

This report presents the findings of the Pre-feasibility Study for the Development of Multi-Purpose Storage Reservoirs for Sio-Malaba-Malakisi River Catchment. And recommends measures that will ensure water security within the Sio-Malaba-Malakisi catchments and alleviate poverty with a broad measure of regional and social equity. It looks into development of new and/or augmentation of existing storage reservoirs and conveyance systems for bulk water transfer for multi-purpose uses of irrigation, water supply and sanitation, while seeking, where possible, to add other benefits of flood control, hydropower generation, fishery development, etc.

This volume includes two volumes:

Volume 1: Main Report

Volume 11: Drawings

Nile Basin Initiative, 2010. ***Pre-feasibility Studies for the Development of Multi-Purpose Storage Reservoirs for Sio-Malaba-Malakisi River Catchment- Rapid Assessment Report*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 150pp.*

It undertakes a Study on the existing water storage and bulk water transfer systems with a view of determining the necessary interventions to strengthen water security measures within the sub-basin. And determine whether it is necessary to move from the practice of construction of small dams/pans/valley tanks to more strategic medium scale water storage reservoirs and the cost implications of the selected scale of intervention measures.

Nile Basin Initiative, 2012. ***Identification and Assessment of Potential sites for Multi-Purpose Storage Reservoirs upstream of the proposed Bulusambu dam site, Manafwa River.*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba-Malakisi project. 59pp.*

Manafwa River drains into the Mpologoma River and lies within NELSAP. Water scarcity and growing food insufficiency are some of the major issues facing the Manafwa River Basin and the situation is expected to get worse as the population increases and as demand by the different water use sectors out-matches the existing supply and is exacerbated by the imminent effects of climate change. To fight water shortage and protect the people living within the floodplains from floods, Nile Basin Initiative (NBI) through Sio-Malaba-Malakisi river basin project conducted a study to look into building adequate water infrastructures (dams) for storage.

Nile Basin Initiative, 2009. ***Sio - Siteko Transboundary management Plan- Production of the Wetlands and Biodiversity Conservation component of the Nile Transboundary Environmental Action Project.*** *©Nile basin initiative, published by Nile basin initiative- Sio- Malaba- Malakisi Project. 115pp.*

This management plan gives a community based perspective on how wetland resources in Sio-Siteko wetland system should be managed and conserved, in a participatory way. It is based on a modern approach to Community Based Natural Resource Management (CBNRM), where management efforts give due respect to the invaluable input from local communities around a particular resource and involve them as much as possible.

Nile Basin Initiative, 2013. ***Preparation of the Sio - Malaba-Malakisi State of the Basin Report.*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 117pp.*

This State of the Sio-Malaba-Malakisi sub basin report presents information on the general health of the sub-basin, and is intended to raise awareness and improve understanding of biophysical and socio-economic conditions within the basin. It highlights water resources related issues and opportunities for water resources development and management.

Nile Basin Initiative, 2014. ***Sub-Catchment Management Plan for Middle Malaba Sub-Catchment of the Sio-Malaba-Malakisi River Basin, Kenya/Uganda final Sub-Catchment Situation Analysis Report****.©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 136pp.*

The plan targets economic growth opportunities through cooperative management framework of the shared water resources between Kenya and Uganda to alleviate poverty, enhance economic growth and reverse environmental degradation.

Nile Basin Initiative, 2014-2024. ***Sub-Catchment Management Plan for Middle Malaba Sub-Catchment of Malaba-Malakisi-Mpologoma River Basin, Kenya/Uganda: Period 2014- 2024- Vol. 1: Main Report****.©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 89pp.*

This plan includes measures to directly protect the environment in the sub-catchment by improving of the forest cover and other tree plantations, agricultural practices: all these measures geared towards decreasing the amount of soil lost each year to surface runoff, causing loss of soil fertility in the slopes and impeded drainage in the lower lands.

This volume includes two volumes:

Volume 1: Main Report

Volume 11: Annexes

Nile Basin Initiative, 2014. ***Sub-Catchment Management Plan for Lower Sio Sub-Catchment of the Sio-Malaba-Malakisi River Basin, Kenya/Uganda final Sub-Catchment Situation Analysis Report.*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 167pp.*

This plan covers protection of the wetlands to conserve their roles in the ecosystems, direct environmental protection of the watershed by improvement of the forest cover and other tree plantations, and the improvement of agricultural practices, all measures tending to decrease the amount of soil lost each year to surface runoff.

Nile Basin Initiative, 2014. ***Sub-Catchment Management Plan for Lower Sio Sub-Catchment of the Sio-Malaba-Malakisi River Basin, Kenya/Uganda Period 2014- 2024-Vol. 1: Main Report.*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Programme- Sio-Malaba- Malakisi project. 100pp.*

This plan covers protection of the wetlands to conserve their roles in the ecosystems, direct environmental protection of the watershed by improvement of the forest cover and other tree plantations, and the improvement of agricultural practices, all measures tending to decrease the amount of soil lost each year to surface runoff.

This volume includes two volumes:

Volume 1:Main Report

Volume 11: Annexes

Nile Basin Initiative, 2012. ***Preparation of Busia Cross Border Pollution Control Project.*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Programme- Sio- Malaba-Malakisi project. 37pp.*

This report projects measures to be undertaken to rehabilitate and/or restructure the drainage systems in the selected urban areas, financing and institutional challenges facing the construction and operation of the drainage and flood control infrastructure.

Nile Basin Initiative, 2012. ***Preparation of Busia Cross Border Pollution Control Project: Busia Stormwater Management- Vol 1: Main Report*** *©Nile basin initiative, published by Nile basin initiative-Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 155pp.*

This volume documents the proposed storm water management and investment strategy for two Municipalities in Kenya and Uganda and formulates the Environmental Impact Assessment associated with the rehabilitation of the drainage system in the project area.

Nile Basin Initiative, 2012. ***Preparation of Busia Cross Border Pollution Control Project: Volume II: Solid Waste Management & Investment Strategy.*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 54pp.*

This volume documents the proposed solid waste management and investment strategy for the two Municipalities in Kenya and Uganda and proposes measures to enhance the existing Environmental Impact Assessment studies.

Nile Basin Initiative, 2012. ***Preparation of Busia Cross Border Pollution Control Project: Volume III: Poverty, Socioeconomic Analysis & Resettlement Action Plans.*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 95pp.*

This report outlines the findings of the Poverty and socio-economic analysis that has been undertaken so as to determine the impact of upgrading the drainage system and improvement of solid waste management on the communities. And the Resettlement Action Plan for persons, families and businesses that will be affected by the proposed improvements.

Nile Basin Initiative, 2012. ***Revised Final Project Investment Proposal for Malaba Cross Border Pollution Control Project.*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 41pp.*

This report projects measures to be undertaken to rehabilitate and/or restructure the drainage systems in the selected urban areas, financing and institutional challenges facing the construction and operation of the drainage and flood control infrastructure within the Malaba-Mpologoma catchments.

Nile Basin Initiative, 2013. ***Feasibility study for the Preparation of Malaba Cross Border Pollution Control Project: Final Report.*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 245pp.*

This report contains the findings and other relevant information on a study conducted by on the management of storm water drainage and solid waste as a pollution control measure for the cross border town of Malaba.

Nile Basin Initiative, 2010. ***Water Quality Baseline Study Report for the Sio-Malaba-Malakisi-Kenya: Final Report (SMM) Rivers' Basins*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Sio- Malaba- Malakisi project. 60pp.*

This water quality baseline study Report establishes the current water quality status in the SMM catchment on the Kenyan side and points out to baseline information for long term planning.

Eng B.I. Kasabuli, 2011. ***Nile Equatorial Lakes Subsidiary Action Program Mara River Basin Transboundary Intergrated Water Resources Management and Development Project: Preliminary Assessment of Potential Sites For Multi Purpose Storage Reservoirs in the Mara River Basin****, © Nile Basin Initiative,52pp.*

The objective of the study is to undertake pre-feasibility study of providing water storage with a view of reducing water related conflicts, To study the existing water storage and bulk water transfer systems with a view of determining the necessary interventions to strengthen water security measures within the sub-basin.

Nile Basin Initiative, 2008. ***Mara River Basin Transboundary Integrated Water Resources Management And Development Project Consulting Services For The Assessment And Design Of Hydrometric Network And Guidance Of Water Quality Survey For Mara River****,© Nile Basin Initiative- Nile Equatorial Lakes Subsidiary Action Program, 60pp.*

This document presents a sustainable framework for the management of the water resources of Mara River, in order to prepare for sustainable development oriented investments that will improve the living conditions of the people while protecting the environment.

Scott Geller… [et al.], 2012. ***Project Preparation for Conservation of Masai Mau and Transmara Forest Blocks of the Mau Forest Complex and Preparation of Investment Project Proposal Final Report – Annexes from A- E,D.G*** *© LTS International, LTS International Ltd, 104PP.*

These four reports present the main components to ensure effective programme implementation:

Component 1. Land and Water Management – interventions with emphasis on improved land management e.g., forestry, agriculture, water, Component 2. Livelihoods Diversification - interventions with potential to improve incomes and thus livelihoods, Component 3. Institutional Strengthening – interventions for building capacity of the implementing partners, government and non-government, Component 4. Management and Administration – interventions to guide improved governance and programme management arrangements

Scott Geller… [et al.], 2012. ***Project Preparation for Conservation of Masai Mau and Transmara Forest Blocks of the Mau Forest Complex and Preparation of Investment Project Proposal, Final Report – Main Report ,*** *© LTS International, LTS International Ltd,*

This report aims at "to develop a project for sustainable and environmentally sound conservation of the Maasai-Mau and Transmara forests as a significant Transboundary water source"

*Nile Basin Initiative, 2012.****Mara Transboundary Integrated Water Resources Management and Development Project: Final Report – Annex 1 Watershed Management Plan****. © Nile Basin Initiative- Nile Equatorial Lakes Subsidiary Action Program, Egis.51pp.*

The Overall Objective of this report address Watershed Management Plan (WMP) is to "improve the living conditions of people while protecting the environment".
This report includes four annexes:
Annex 1: Watershed Management and Investment Plan
Annex 2: Sustainable Wetlands Management and Investment Plan
Annex 3: Water Quality and Sanitation and Investment Plan
Annex 4: Cross-cutting activities

Nile Basin Initiative, 2012. ***Mara Transboundary Integrated Water Resources Management and Development Project: Main Report Investment Project Proposal,*** *© Nile Basin Initiative- Nile Equatorial Lakes Subsidiary Action Program, Egis, 98pp.*

This Final Report is the final outputs the consultancy services, and takes into account the

Observations received during the Final Stakeholders Workshop held in Narok; Kenya, on December 20th, 2012. It's also comprised of a Main Report and 4 Annexes presenting respectively the different Investment Plans.

Nile Basin Initiative, 2008. ***Mara River Basin Transboundary Integrated Water Resources Management and Development Project NBI/NELSAP/MARA-TIWRMDP/01/2007: Mara River Basin Policy, Legal, And Institutional Cooperative Framework.*** *© WREM International Inc, Published By Nile Basin Initiative- Nile Equatorial Lakes Subsidiary Action Program, 348pp.*

The study identifies potential areas of harmonization in the existing water related policies, laws, and institutional arrangements, and makes specific recommendations for the development of a comprehensive cooperative framework for the sustainable management and development of the Mara water resources, This volume include the following annexes.
Annex 1A - Resolution on the Management of the Mara River
(Under NBI
Annex 1B -Resolution on the Management of the Mara River
(Under EAC
Annex 2 - Regulations for the Exchange of Information In The
Mara River Basin
Annex 3 - Status of Staffing in Local Government Institutions
Annex 4 - Record of Structured Interviews & Capacity Needs As Identified By Organization or Persons Visited.

Nile Basin Initiative, 2004. ***Mara River Basin Transboundary Integrated Water Resources Management and Development Project: Project Document****, © Nile Basin Initiative -Nelsap Regional Coordination Unit, 51pp.*

The overall Objective of this report is to establish a sustainable framework for the joint management of the water resources of Mara River Basin; in order to prepare for sustainable development oriented investments that will improve the living conditions of the people while protecting the environment, This report include the following annexes
Annex I. Mara Small Scale Investments Projects
Annex II. Mara Project LFA Matrix
Annex III. Mara Project Budget
Annex IV. Mara Project Implementation Schedule
Annex V. ToR for Principal Project Staff
Annex VI. Membership of Mara RPSC
Annex VII. Roles of key project actors
Annex VIII. Mara River Basin & Its stakeholders
Annex IX Mara Institutional Issues
Annex X Mara Technical & Environmental aspects.

Prof Japheth Ogalo Onyando, 2014. ***Lake Victoria South Catchment Area ISEI WRUA Sub Catchment Management Plan (SCMP) 2014-2017,*** *©Water Resources Management Authority Kenya, 111pp.*

This report provide a feasible framework for management of water and related resources in a strategic, systematic and coordinated manner involving all stakeholders and interested parties in ISEI sub-catchment.

Prof Japheth Ogalo Onyando, 2014. ***United Republic of Tanzania Lake Victoria Basin Water Board SOMOCHE Water Users Association Sub-Catchment Management Plan 2014-2019****, ©Nile Basin Initiative-NELSAP, 99pp.*

This document provides a framework for strategic, systematic and comprehensive management of water and related resources involving all stakeholders for SOMOCHE sub-catchment and interested parties for realization of socio-economic benefits and ecosystem sustainability.

Nile Basin Initiative, 2007. ***Mara River Basin Transboundary Integrated Water Resources Management and Development Project, Environmental Benchmark: Project brief for BISARWI Small Holders Irrigation Project,*** *©Nile Basin Initiative-NELSAP, published by Environmental BENCHMARK, 22pp.*

This report has been categorized as an agricultural activity whereby it involves a water resources development project including dam construction, irrigation and drainage activities

Nile Basin Initiative, 2008. ***Mara River Basin Investment Strategy,*** *© WREM International Inc, 175pp.*

The overall objective of this document is the Mara Investment Strategy which is to promote environmentally sustainable socio-economic development of the Mara River Basin through identification and implementation of appropriate investment programs aimed at addressing the critical water resources issues and challenges in the basin.

Nile Basin Initiative,2008. ***Mara River Basin Transboundary Integrated Water Resources Management and Development Project: Mara River Basin Monograph,*** *© WREM International Inc, 175pp.*

This Monograph gives a brief overview of the Mara Basin and outlines the objectives, development approach, and linkage with the other project outputs, it addresses agricultural conditions and activities including, among others, climate and agro-ecological zones, soil types, land tenure systems, small and large scale farming systems, food crops, cash crops, irrigated agricultural activities, livestock, veterinary services, livestock diseases, and sector gaps and potential intervention measures.

World Bank, 2013. ***Draft Implementation Completion and Results Report (Tf-94547) On a Grant In The Amount Of Us$ 2.1492 Million: Mara Transboundary Integrated water resources Management and development Project****, © World Bank, 39pp.*

This report covers the main objective of this ICR, experiences gained during the implementation and lessons learnt. It provides a concise description of the project; evaluates the adequacy of preparation, design, appraisal and implementation arrangements; describes problems encountered, and the adequacy of the solutions adopted during implementation; provides a preliminary evaluation of achievements and sustainability of benefits; suggests follow-up actions and makes recommendations based on the evaluation and lessons for future project phases.
This report includes annexes.
Annex 1: Financing
Annex 2. Outputs by Component
Annex 3: Type, Number and Locations of Installed Hydrometric Stations in Kenya and Tanzania
Annex 4: Type of Hydrometric Equipment and Sources Of Financing
Annex 5: Photos of Installed Hydrometric Stations
Annex 6. List of Supporting Documents
Annex 7: Achievement of Project Development Outcomes
Annex 8: Summary of Feasibility Study of Integrated Watershed Management Project
Annex 9: Maps.

Nile Basin Initiative,2012. ***Mara River Basin Management Project Countries: Kenya And Tanzania Project Completion Report Bridging Phase (July 2010-December 2012),*** *© Nile Basin Initiative-Nile Equatorial Lakes Subsidiary Action Program, Egis, 22pp.*

This report presents general performance of project implementation. It also provides recommendations and lessons learnt. It recommends the need for resource mobilization for implementation of identified projects as well as mainstreaming of projects into national development plans, strong community participation on the management of watershed through involving communities in preparation of sub catchment management plans (SCMPs)
This volume includes six annexes:
Annex A: Integrated Watershed Management Action Plan
Annex B: Wetlands Management
Annex C: Integrated Watershed Management Investment
Annex D: Environmental and Social Management Framework and Stakeholder Engagement Guide
Annex E: Institutional Analysis
Annex F: Watershed Assessment Report

Nile Basin Initiative, 2010. ***Development of Kagera Integrated River Basin Management and Development Strategy: Main Report*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera River Basin project. 206pp.*

This report looks into developing scenarios for water resources development in the Kagera basin, developing a simple model to support integrated planning and management of the Basin; and conduct training on the simple model.
This volume includes two volumes:
Main Report
Executive Summary

Nile Basin Initiative,2009. ***Development of a Kagera River Basin Transboundary Cooperative Framework and Management Strategy in the four Riparian countries of Burundi, Rwanda, Tanzania and Uganda-Final Report Volume 1: Main Report and Appendices*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera River Basin project. 323pp.*

This Report reviews the policies, legal and institutional frameworks of regional and national water resources management as a background for proposing a cooperative framework for managing, sharing benefits from and resolving conflicts arising from sharing the water resources of the Kagera River Basin.

Nile Basin Initiative, 2008. ***Kagera River Basin Monograph-Basin Development Report(ENG/FRE)*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera River Basin project. 412pp.*

This monograph sets the stage for future activities in the basin in a manner which optimises the development of the resources in a mutually beneficial manner and which minimises any possible negative impacts within the Kagera River basin as well as the wider Lake Victoria and Nile River basins.

Nile Basin Initiative, 2009. ***Assessment, Review, Design, Construction, Supervision & Installation of a Hydrometric Network for the Kagera River Basin in Uganda*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera River Basin project. 70pp.*

This report presents the findings for the constituent Kagera sub-catchment within Uganda and proposals with regard to providing the Kagera basin with one of the necessary tools for improving regional water resources assessment, monitoring and management for sustainable development,designing a hydrometric and climatological network and enhancing water quality and pollution monitoring and control.

Nile Basin Initiative, 2011. ***Rapid Identification and Assessment of Potential Sites for Multi-Purpose Storage Reservoirs: Final Assessment Report*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera River Basin project. 78pp.*

This study identifies new sites for possible multipurpose water storage, along with their capacities and potential uses. The key factors considered in the identification process included Topography, Geology, Land Use and Potential water demand and use.

Nile Basin Initiative,2012. ***Development of a Basin-wide IWRM-based Development Plan for the Kagera Basin (Burundi, Rwanda, Uganda and Tanzania)*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Programme- Kagera River Basin project. 202pp.*

The report establishes a sustainable framework for the joint management of the water resources of the Kagera River Basin for sustainable development oriented investments. It establishes baseline conditions in the Kagera Basin (Diagnostic Assessment); assesses water resources and water use of different sectors (Diagnostic Assessment); formulates and evaluates alternative development options that will meet those demands (Strategic Planning);and recommends specific Water Resources Management and Development Options (Strategic planning)
This volume includes;
Appendix G: Planning Atlas

Nile Basin Initiative, 2012. ***Kagera River Basin Management: Strategic Planning Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme- Kagera River Basin project. 382pp*

Formulates and evaluates alternative development options and recommends specific Water Resources Management and Development Options.

Nile Basin Initiative, 2012. ***Identification of a multipurpose Water Resources Development Project in the Yala River Basin in Kenya-Multipurpose Water Resources Investment Plan : Final Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.104pp*

The study,aims at identifying a multipurpose water resources management and development project (MPP) that will contribute to improving water, food and energy security,reducing flow variability and flood damage and improving livelihoods.

Nile Basin Initiative, 2012. ***Identification of a multipurpose Water Resources Development Project in the Yala River Basin in Kenya: Final Strategy Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.68pp*

The Report focuses on developing a multipurpose water resources management and development strategy (MWRMDS) for the Yala River basin. The logic behind the building of the multipurpose water resource management and development strategy is sound in order to ensure that any future multipurpose water resources management and development will be sustainable, needs-responsive and cost-effective.

Nile Basin Initiative, 2012. ***Identification of a multipurpose Water Resources Development Project in the Yala River Basin in Kenya: Final Diagnostic Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.256pp*

This report describes the findings of the Diagnostic/Situational Analysis task. This report sets out the findings of the Diagnostic/Situational Analysis and has as its objective the identification and preliminary assessment of a number of potential multipurpose projects.

Nile Basin Initiative, 2012. ***Identification of a multipurpose Water Resources Development Project in the Yala River Basin in Kenya: Final Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.45pp*

The main purpose of this final report is to provide a concise overview of the study and its main findings. At the same time, the report serves as an entry point for the reader wishing to get a deeper understanding of the work that has been carried out in arriving at these findings. In this respect, the key documents are the Bankable Project Document, based on the Investment Plan, based itself on the Strategy, and are included as Annexes.

Nile Basin Initiative, 2012. ***Identification of a multipurpose Water Resources Development Project in the Yala River Basin in Kenya: Final bankable project document*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.84pp*

This bankable project document details the combined Nandi Forest, Keben and Moi University multipurpose project (henceforth referred to as the „combined MPP" in a manner that is broadly consistent with the requirements used by international development partners such as the World Bank in preparing and appraising projects for funding. It is envisaged that this bankable project document will be used in the "preparation and appraisal" stage of potential development partners project cycles.

Nile Basin Initiative,2012. ***Nile Equatorial Lakes Multi Sector Investment Opportunity Analysis: NEL Indicative Investment Strategy and Action Plan*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.119pp*

This document presents Indicative multi sector water Investment Strategy and Action Plan (ISAP) for the Nile Equatorial Lakes Region. The ISAP aligns the investment strategic objectives and priorities with the Strategic Action Plan of the Nile Basin Initiative over a period spanning up to 2035. It is designed to provide strategic direction with respect to NELSAP Water Investment programmes, projects and activities.

Nile Basin Initiative,2011. ***Nile Equatorial Lakes Multi Sector Investment Opportunity Analysis: Inception Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.159pp*

This Report identifies potential regional investment options, taking into account their economic, social and environmental implications as well as cumulative impacts, investigates the alignment of potential regional investment options with national-level priorities and plans, prioritizes and sequences potential investments, also in light of existing and planned interventions.

Nile Basin Initiative,2012. ***Nile Equatorial Lakes Multi Sector Investment Opportunity Analysis: Situational Analysis Main Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.427pp*

This report sets out the findings of the Situational Analysis and has as its objective the preliminary identification of regionally significant development options for taking through to the next steps of the project. The contents of the report are based on interviews and meetings and the analysis of numerous documents, many of which were made available at these meetings. This volume includes a French Version.

Nile Basin Initiative,2012. ***Nile Equatorial Lakes Multi Sector Investment Opportunity Analysis: Analytical framework report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.104pp*

The analytical framework report describes the analytical framework that has been developed for the identification and evaluation of potential regional investments. This volume includes a French Version.

Nile Basin Initiative, 2012. ***Identification of a Multipurpose Water Resources Management and Development Project in the Lake Kyoga Basin in Uganda: Final Investment Plan Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.92pp*

The Multipurpose Water Resources Investment Plan (MWRIP) outlines the investment implications for implementation of the multipurpose water resources management and development strategy. It includes an examination of associated institutional and financial aspects.

Nile Basin Initiative, 2012. ***Identification of a Multipurpose Water Resources Management and Development Project in the Lake Kyoga Basin in Uganda: Final Strategy Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.67pp*

A multipurpose water resources management and development strategy elaborates with the aim of identifying the required strategic actions to be undertaken to lead to the realisation of a vision of multipurpose water resources management and development for the Lake Kyoga basin.

Nile Basin Initiative, 2012. ***Identification of a Multipurpose Water Resources Management and Development Project in the Lake Kyoga Basin in Uganda: Final Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.43pp*

This study aims at identifying a multipurpose water resources management and development project (MPP) in the Lake Kyoga Basin, that will contribute to improving water, food and energy security,reducing flow variability and flood damage and improving livelihoods.

Nile Basin Initiative, 2011. ***Identification of a Multipurpose Water Resources Management and Development Project in the Lake Kyoga Basin in Uganda: Final Inception Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.101pp*

This Report aims at identifying a multipurpose water resources management and development project (MPP) in the Lake Kyoga Basin, that will contribute to improving water, food and energy security,reducing flow variability and flood damage and improving livelihoods.

Nile Basin Initiative, 2012. ***Identification of a Multipurpose Water Resources Management and Development Project in the Lake Kyoga Basin in Uganda: Final Bankable Project Document*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.37pp*

This bankable project document details the Lopei multipurpose project (MPP) in a manner that is broadly consistent with the requirements used by international development partners such as the World Bank in preparing and appraising projects for funding.

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Management and Development Project in the Lake Kyoga Basin in Uganda: Final Diagnostic Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.229pp*

The diagnostic report elaborates the aim of establishing the water resources management and development potential in the Lake Kyoga basin It analyses the water resources balance, identified the main issues and how they are distributed in the different sub-basins as well as the main opportunities, planned and ongoing projects.

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Development Project in the Gucha-Migori Basin in Kenya: Final Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.44pp*

This final report provides a concise overview of the study and its main findings. At the same time, the report serves as an entry point for the reader wishing to get a deeper understanding of the work that has been carried out in arriving at these findings.

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Development Project in the Gucha-Migori Basin in Kenya: Final Investment Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.106pp*

The aim of this Multipurpose Water Resources Investment Plan is to outline the investment implications for implementation of the multipurpose water resources management and development strategy. It includes an examination of associated institutional and financial aspects.

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Development Project in the Gucha-Migori Basin in Kenya: Final Strategy Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.68pp*

A multipurpose water resources management and development strategy elaborates the aim of identifying the required strategic actions to be undertaken to lead to the realisation of a vision and associated strategic objectives of multipurpose water resources management and development for the Gucha-Migori basin

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Development Project in the Gucha-Migori Basin in Kenya: Final bankable project document*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.67pp*

This bankable project document details the Gogo Falls multipurpose project (MPP) in a manner that is broadly consistent with the requirements used by international development partners such as the World Bank in preparing and appraising projects for funding.

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Development Project in the Gucha-Migori Basin in Kenya: Final Diagnostic Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.260pp*

This report sets out the findings of the Diagnostic/Situational Analysis and has as its objective the identification and preliminary assessment of a number of potential multipurpose projects.

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Development Project in the Aswa Basin (Uganda/South Sudan): Final Inception Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.157pp*

The Inception Report contains a summary of the objectives and key issues of the Identification of a Multipurpose Water Resources Management and Development Project in Aswa Basin (Uganda/South Sudan), a description of the tasks to be executed and the preliminary findings.The report also includes conclusions on the data collected.

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Development Project in the Aswa Basin (Uganda/South Sudan): Final Study Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.62pp*

This final report provides a concise overview of the study and its main findings. At the same time, the report serves as an entry point for the reader wishing to get a deeper understanding of the work that has been carried out in arriving at these findings.

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Development Project in the Aswa Basin (Uganda/South Sudan): Final Investment Plan*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.304pp*

The Investment Plan aims to develop an action plan comprising a portfolio of subprojects applicable to the year 2035, based on the development strategy that was identified. The investment plan comprises of a prioritized set of investments in irrigation, watershed restoration and management, environmental protection, hydropower, domestic and industrial water supply etc.
This Volume contains three Annexes;
Annex 1:Drawings
Annex 2:Economic Analysis
Annex 3:Mike Basin

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Development Project in the Aswa Basin (Uganda/South Sudan): Final Strategy Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.111pp*

The Strategy identifies the strategic priorities and measures for managing the water and related resources of the Aswa River Basin in accordance with the national development goals and policies of Uganda and South Sudan and outlines or provides broad directions for an investment program. It identifies specific development and management opportunities in connection with: watershed conservation and management, irrigation and drainage, hydropower generation, water supply for human and livestock, flood and drought control, wastewater management and environmental conservation.

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Development Project in the Aswa Basin (Uganda/South Sudan): Final bankable project document*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.97pp*

This bankable project document details the Moroto River and Nyimur Multipurpose projects multipurpose project (MPP) in a manner that is broadly consistent with the requirements used by international development partners such as the World Bank in preparing and appraising projects for funding.
This Volume contains four Appendices;
Appendix 1: projects description
Appendix 2: General Costing principles
Appendix 3: Cost Benefit Analysis
Appendix 4: Maps

Nile Basin Initiative,2012. ***Identification of a Multipurpose Water Resources Development Project in the Aswa Basin (Uganda/South Sudan): Final Diagnostic Report*** *©Nile basin initiative, published by Nile Equatorial Lakes subsidiary Action Programme.446pp*

This report sets out the findings of the Diagnostic/Situational Analysis and has the purpose is to identify the needs, interests, priorities and resources of the stakeholders, from the central government all the way to the final beneficiaries, and to assess the different possibilities for improving the situation.
This Volume contains four Appendices and five Annexes;
Appendix 1: Rainfall Data
Appendix 2: Processed Rainfall Data
Appendix 3: Regression Analysis Results
Appendix 4: Runoff Data
Annex A : Hydrology Report
Annex C : District based Environment & Water Related Information
Annex D :Socio-Economic Analysis – Supporting Data
Annex G : GIS Platform
Annex H :Maps

Nile Basin Initiative, 2012. ***Integrated Management of Transboundary Water Resources of Rweru and Cyohoha Lakes and the Akanyaru Marshlands (GIRET) project*** *©Nile basin initiative, published by Nile equatorial lakes subsidiary action programmes.204pp*

The overall implementation of the Lake Cyohoha, Lake Rweru and Akanyaru marshland Integrated Management and Development Plans the acquisition of knowledge about the three water bodies and their drainage basins the identification of the institutional mechanisms to be established for sustainable joint management of the three water bodies; and Investigating the economic potentialities of the water bodies and their sustainable development, taking into account the local and regional impacts.

Egypt. Ministry of Irrigation, 1984. ***Master plan for water resources development and use: Present and future operating scenarios for the High Aswan Dam,*** *UNDP-EGY ©1984 UNDP-EGY, 194pp. (technical report No. 30).*

This report presents a detailed investigation of the present and future operation scenarios of reservoir behind High Aswan Dam.

Federal Democratic republic of Ethiopia. Ministry of water resources, 1997. ***Baro-Akobo River basin integrated development study, final report, Volume 1: executive summary****, ©1997 TAMS; ULG Consultants, 71pp.*

This report presents the Baro-Akobo River integrated development master plan project in south-western Ethiopia which is one of twelve master plans commissioned by government of Ethiopia to assess the development potential of water, natural, and social resources over the entire country.

Federal Democratic republic of Ethiopia. Ministry of Water Resources, 1998, ***Tekeze river basin integrated development master plan Project. Master Plan. Executive summary****, © Ministry of Water Resources, 200 pp.*

This material is useful to prepare water allocation and utilization plans under alternative development scenarios and to generate data, information and knowledge that will contribute to further water allocation negotiations with downstream countries.

Federal Democratic republic of Ethiopia. Ministry of Water Resources, 1998, ***Tekeze river basin integrated development master plan Project. Master Plan. Vol. 1, Main Report****, © 1998 Ministry of Water Resources, 500 pp.*

This master plan will guide the development of the resources of the basin particularly with respect to the occurrence, distribution, quality and quantity of the water resources for the coming 30 to 50 years. It also helps to prepare water allocation and utilization plans under alternative development scenarios and to generate data, information and knowledge that will contribute to future water allocation negotiations with the downstream countries.

Federal Democratic republic of Ethiopia. ***Ministry of Water Resources, 1998, Tekeze river basin integrated development master plan Project. Vol. III****, © 1998 . Ministry of Water Resources , 400 pp.*

This master plan provides the irrigation potentials will also been established by the RIBASIM model, using instead of averages for rainfall the actual time series. The results are published in the Water Allocation and Utilization Report (MP -V).

Federal Democratic republic of Ethiopia. Ministry of Water Resources, 1998, ***Tekeze river basin integrated development. Master Plan. Water Allocation and Utilization. Vol. IV,*** *©1998 Ministry of Water Resources, 200 pp.*

The project area has an abundance of water. First of all, a distinction will be made between consumptive use and non-consumptive use. At present the consumption water pattern in the project area is quite simple. In the future the water use pattern can change drastically, because of development of hydropower and small- and large scale irrigation. The river basin simulation model is essentially a water balance model.

Federal Democratic republic of Ethiopia. Ministry of Water Resources, 1998, ***Tekeze river basin integrated development master Plan project. Sectoral Reports. Climatology. Vol. VI,*** *© 1998 Ministry of Water Resources, 230 pp.*

Data in and near the project were obtained from 25 Class 1, 38 Class 3 and 64 Class 4 stations. Unfortunately data from stations in Eritrea close to the project area could not be obtained. Long rainfall series will be analyzed for trends.

Federal Democratic republic of Ethiopia. Ministry of Water Resources, 1998, ***Tekeze river basin integrated development master Plan project. Sectoral Report. Vol. VII,*** *© 1998 Ministry of Water Resources, 200 pp.*

The Tekeze project area supplies 80% of the Atbara flow, which corresponds with 9.5% of the Nile flow. Water resource development in the Tekeze project area could have both negative and positive effects on water availability downstream. The model study will elucidate these matters.

Federal Democratic republic of Ethiopia. Ministry of Water Resources, 1998, ***Tekeze river basin integrated development master Plan project. Water resources: Drinking water supply and sanitation Sectoral Report. Vol. XI****, © 1998 Ministry of Water Resources, 200 pp.*

The project assessed the current situation in the sector and conducted several types of field surveys. These data, together with information in the regional 5- year development plans and discussions with the regional Water Bureaus, have been the basis for the formulation of urban and rural water and sanitation plans and programmes.

Federal Democratic republic of Ethiopia Ministry of Water Resources, 1998, ***ABBAY river basin integrated development master Plan project. PHASE 2. Data Collection –Site investigation survey and analysis. SECTION II- Sectoral Studies. Natural Resources Part I- Geology Part 2- Mineral Resources Vol. I,*** *© 1998 Ministry of Water Resources, 249 pp.*

This report is the result of an evaluation mission in Ethiopia performed during the phase 1 of the project in February 1995 in Addis Ababa, and of the mission and field control trips performed in the framework of the phase 2 of the study February 24th 1997.

Federal Democratic republic of Ethiopia. Ministry of Water Resources, 1998, ***ABBAY river basin integrated development master Plan project. PHASE 2. Data Collection –Site investigation survey and analysis. SECTION II- Sectoral Studies. Natural Resources Part 3- Forestry Part 4- Fishery Part 5-Wildlife Vol. II*** *© 1998 Ministry of Water Resources, 280 pp.*

This report presents results of the second phase of the Forestry Master Plan Study for the Abbay Basin. It includes results of low-intensity reconnaissance forest survey of the Basin. As originally envisaged in the Inception Report, the forest inventory activity was designed and conducted to serve the purpose of filling in identified data deficiencies /gaps during documentation review and analysis and is meant to serve as a basis for outlining a development strategy and master plan for the conservation and development of the forestry resources of the Abbay River Basin.

Federal Democratic republic of Ethiopia. Ministry of Water Resources, 1998, ***ABBAY river basin integrated development master Plan project. PHASE 3. Master Plan. Executive Summary****, © 1999 Ministry of Water Resources, 40 pp.*

This report is the Executive Summary of the phase 3 Master Plan report for the Abbay River Basin Integrated Development Master Plan study. The objective of this short report is to present briefly the background, the context, the strategy with the main lines of the proposed action plan.

Federal Democratic republic of Ethiopia. Ministry of Water Resources, 1998, ***Tekeze river basin integrated development master Plan project. Sectoral reports. Water resources DAMS, RESERVOIRS & HYDROPOWER DEVELOPMENT IRRIGATION. Vol. X,*** *© 1998 Ministry of Water Resources, 200 pp.*

The topography of the basin offers several possibilities to realize large reservoirs. The combination with hydropower might yield sufficient additional benefit/cost analysis possible. The Tekeze basin is characterized by extremely low runoff in the dry season. Therefore, small hydropower potential for one of the dam sites however is so low that a power station here would be classified as micro hydropower.

Federal Democratic republic of Ethiopia. Ministry of Water Resources, 1998, ***Tekeze river basin integrated development master Plan project. Sectoral reports. Water resources. Water point inventory assessment of ground water quality hydrological target areas. Vol. IX,*** *© 1998 Ministry of Water Resources, 200 pp.*

A Water Point Inventory (WPI), a powerful method of collecting the necessary basic data on groundwater properties and use from water points. The results of the survey and the analysis of the collected data are presented in this report.

Egypt. Ministry of Irrigation, 1979. ***Master plan for water development & use, second interim report, (EGYPT/73/024/A/01/42),*** *©1979 International bank for reconstruction & development United Nation development program (UNDP), 90pp.*

This interim report describes the data and assumption for water planning that have been collected or agreed upon. It presents a number of issues and interim findings, and concludes with a note on the organizational framework for water planning.

Egypt. Ministry of irrigation, 1981. ***Master plan for water resources development and use, consumptive use of water by major field crops in Egypt, (Technical report; 17, UNDP-EGY/73/024),*** *©1981 UNDP-EGY, 35pp.*

This report was prepared to consolidate experimental information on the rate of water use for some of the major field crops being raised in the Nile Delta, middle Egypt and Upper Egypt.

UNDP-EGY, 1980. ***Master plan for water resources development and use, the organization, administration and legal framework for water planning, (Technical report; 8, UNDP-EGY/73/024),*** *©1980 UNDP-EGY, 48pp.*

In this report, the phrase "water planning" means the study and projection of water requirements for all purpose, the study of potential water supply from all sources, the studies and activities necessary to match the supply to the requirements while ensuring acceptable water quality through the system, the financial and economic evaluation of existing and proposed water related developments, and the preparation and evaluation of short term and long range water development plans.

UNDP-EGY, 1981. ***Master plan for water resource development and use, project information system, (UNDP-EGY/73/024),*** *©1981 UNDP-EGY, [104] leaves.*

This report consists of six section, in the three first sections it is intended to give a general background of the database concept. The fourth section describes the general structure of the system in the proposed form in three data files: the Agro-Economic database; the Irrigation data base; and the drainage database. The fifth section explains the logical relationship between the three databases and means whereby these separate files related to anther by data item and geographic sub-division. The last section includes a description of the methodology required for the project information system retrieval and maintenance.

UNDP-EGY, 1981. ***Master plan for water resources development and use, water and wastewater studies, municipal and industrial sectors, (Technical report; 13, UNDP-EGY/73/024),*** *©1981 UNDP-EGY, [68]pp*

This report has been structured to emphasize only those areas where significant results could be formulated, with as much detail as is justified by the available data and information.

UNDP-EGY, 1981. ***Master plan for water resources development and use, mathematical model of the Upper Nile System, volume I: description of the model, (Technical report; 15, UNDP-EGY/73/024),*** *©1981 UNDP-EGY, 94, 25pp.*

This report describes the formulation and calibration of mathematical simulation model for river Nile system between Lake Albert and Lake Nasser.

UNDP-EGY, 1981. ***Master plan for water resources development and use, the agro economic model, (technical report; 16, UNDP-EGY/73/024),*** *©1981 UNDP-EGY, 213pp.*

This report includes broad objectives of the project, preparing an inventory of Egypt's current water resources (which consist almost entirely of the Nile waters, stored mainly in the High Dam Lake and controlled by the Aswan dams and distributed a series of barrages downstream from the dam).

UNDP-EGY, 1981. ***Master plan for water resources development and use: Consumptive use of water by major field crops in Egypt, (technical report; 17),*** *©1981 UNDP-EGY, 35pp.*

This report consolidates experimental information on the rate of water use for some of the major field crops being raised in the Nile Delta, Middle Egypt and Upper Egypt. Experimental data on evapotranspiration rates has been collected, revised, and summarized for each region.

UNDP-EGY, 1981. ***Master plan for water resources development and use: A hydrogeological evaluation of the environs of Lake Nasser, (technical report; 18),*** *©1981 UNDP-EGY [8]pp.*

This report discusses the forecast of long term water level changes, Lake Nasser losses to groundwater, and forecast of long term losses.

UNDP-EGY, 1981. ***Master plan for water resources development and use: Economic evaluation of land reclamation, (technical report; 19),*** *©1981 UNDP-EGY, 51pp.*

This report is about adding new lands for cultivation by reclaiming. An economic analysis of the capital, replacement and annual costs and the potential yields of new lands are used for evaluation and for setting up priorities.

UNDP-EGY, 1981. ***Master plan for water resources development and use: main report, (UNDP-EGY/73/024),*** *©1981 UNDP-EGY, 171pp.*

This report is present in two parts. Part I decribesthe present demands for water in Egypt and the estimated demands by the year 2000. Part II presents the findings and recommendations.

UNDP-EGY, 1981. ***Master plan for water resources development and use: The irrigation syste: main report,*** *(technical report; 20, UNDP-EGY/73/024), ©1981 UNDP-EGY, 57pp.*

This report is about an irrigation system and focuses on system inventory, cost of water in the system, simulation of a model on the irrigation distribution system.

UNDP-EGY, 1983. ***Master plan for water resources development and use, Multi-lead forecasting of River Nile Stream flows, (Technical report; 21, UNDP-EGY/81/031),*** *©1983 UNDP-EGY, 167pp.*

This report presents a generalized multivariate regression model for the forecasting of River Nile flows at nine sites of the basin.

UNDP-EGY, 1983. ***Master plan for water resources development and use, adaptive closed-loop operation of the High Aswan Dam, (Technical report; 22, UNDP-EGY/81/031),*** *©1983 UNDP-EGY, 229pp.*

This report discusses the present operation policy of the dam and furnishes the main physical and institutional constrains of the problem, also gives a brief account of the theoretical background of steady-state dynamic program is presented. Some aspects are also encountered for the adaptive closed-loop stochastic dynamic program. Application of the tow models to the real operation of the high Aswan Dam are demonstrated in the report. Summarizes the work and presents the main result and recommendations for optimal policy.

UNDP-EGY, 1984. ***Present and future operating scenarios for the High Aswan Dam, volume I: main report****, ©1984 UNDP-EGY, 196pp.*

This study considers the cases after the completion of Jonglei phase I project, and also after constructing all Upper Nile conservation projects. The study investigates the yields from these projects and their impacts on the future carrying capacity of main White Nile River channel.

UNDP-EGY, 1984. ***Vertical Development of "OLD LANDS",*** *©1984 UNDP-EGY, 36pp. (technical report; 27).*

This report explains the results of applying improved farming methods nationwide on the existing farmed lands (old lands).

Yehia Sobhy Amin, 1984. ***An Economic evolution of new lands project of new lands projects in the national five year plan(1982/1983-1986/1987) , Volume II: Appendix 1: shadow prices, appendix 2: mechanization,*** *UNDP-EGY, ©1984 UNDP-EGY, 52pp.(technical report; 24)*

This report contains Volume I: Main report, Volume II: Appendix 1-Prices,2-Mechanization ,Volume III: Appendix 3-Crop patterns, Volume IV: Appendix 4-Cost & Benefits stream

African Development Fund. (2003). ***Terms of reference, Baro-Akobo multi-Purpose Water Resources Development Study: Nile basin initiative multinational****, ©2003, Afrocan Development Fund, 34pp.*

The specific objective of the study is to generate data and information for analysis of technical, social, and economic issues important to the formulation and implementation of integrated multipurpose water resources development project in the Baro- Akobo- Sobat river basin.

Andu zakaria Wani, 2011. ***Climate change in the Baro-Akobo Sobat project area: Field work consultancy report, Eastern Nile Technical Regional office (ENTRO),*** *© 2011 ENTRO, 36pp.*

This report is based on field work to investigate climate change on B.A.S sub-basin on the Ethiopian side as well as Sudanese and what causes the change. It traces some historical background on how the people of the area started to know and felt about climate change and possible mitigation and adaptation processes.

Bashar, K. E, [2011]. ***Baro-Akopo-Sobat multipurpose water resources development study, knowledge base development for Baro-Akopo-Sobat (BAS): desk review report,*** *©[2011] Eastern Technical Regional office (ENTRO), v, [62]pp.*

This report consolidates the desk review of pervious work done in the Baro-Akopo-Sobat (BAS). The objective the review is to assess the data availability and locate its sources and avoid duplication of work.

Bashar, K. E, [2011]. ***Baro-Akopo-Sobat multipurpose water resources development study, knowledge base development for Baro-Akopo-Sobat (BAS): hydraulic final report,*** *©[2011] Eastern Technical Regional office (ENTRO), [37]pp.*

The purpose of this study is to validate the information and data identify by the desk review and bridge the information gabs identified by the desk review through additional data and information gathering and assess the environmental and physiographical status of the basin.

Eastern Nile Technical Regional office (ENTRO), [2007]. ***The Baro-Akobo-Sobat and White Nile Sub-basin****, ©[2007] NBI, [100]pp.*

This annex contains information on the Baro-Akobo-White Nile sub basin and is part of the four annexes that support the summary report of the on system inventory prepared by ENTRO.

Eastern Nile Technical Regional office (ENTRO), 2008. ***Joint Multipurpose Program, launch phase completion: First-draft draft,*** *©2008 ENTRO, iii, 43 pp.*

This report summaries the EN JMP launch phase completion report. It gives a synopsis of activities and achievements to date, and outlines recommendation.

Eastern Nile Technical Regional office (ENTRO), 2008. ***Cooperative regional assessment analysis: appendices, final version.*** *©2010 MCE, BRLI, Shoraconsult, 64 pp.*

This report includes seven Appendixes:
Appendix 1: characteristics of hydropower dams project in Abay basin
Appendix 2: note on World Bank strategy for reengaging in agricultural water development
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Ehab A. Meselhe, [2011]. ***Baro-Akobo Sobat (BAS) Multipurpose Water Resources Development Study, field report,*** *Nile Technical Regional office (ENTRO), ©[2011] ENTRO, 32pp.*

This report summarize the activities and findings of two field visits selected locations within the Baro – Akobo - Sobat (BAS) Basin.

Ehab A Meselhe, ... [et al], 2011. ***Baro-Akobo Sobat (BAS) Multipurpose water Resources Development Study, final report, Eastern Nile Technical Regional office (ENTRO),*** *©2011 ENTRO, [137]pp.*

This report covers the purpose of the Baro-Akobo- Sobat Project and scope of its effort and elaborates on the location, climate, topography and catchment characteristics. it's also includes field visits and presents a completion of existing water resources database and preliminary analysis of such available data. And finally recommendation of fast - track project

Ethiopia, Ministry of water resources, 2003. ***Project proposal / terms of reference for Baro hydropower development project,*** *© 2003 NBI, 26pp.*

The objective of the study is to provide sufficient documentation enabling financing, licensing, procurement and construction of reasonably large hydropower project having benefit to more than on EN country.

Ethiopia, Ministry of water resources, 2006. ***Baro 1 & 2 Multipurpose projects, including Genji diversion scheme feasibility study: draft final report, volume 1-main report,*** *©2006 Norplan, Norconsult, Lahmeyer International, xviii, [253]pp.*

This report a stand-alone volume that gives the reader a complete picture of recommended project and main results of the study.

Ethiopia. Ministry of water resources, 2007. ***Beko-Abo multipurpose project: reconnaissance study report,*** *© 2007 Norplan, Norconsult JV, Shebelle, iv, [9]pp.*

This objective of the present reconnaissance study is to evaluate an optional multipurpose project by replacing the Karadobi dam with at Beko-Abo about 2 km upstream of the Nkemte- Bahar Dar Road Bridge crossing Abay River.

Jackson Elisoma Muso. [201]. ***Baro-Akobo-Sobat (BAS) multipurpose water resources development study: approach paper on project study. Eastern Nile Technical Regional office (ENTRO),*** *©2010 ENTRO, 16pp.*

This paper gives a background information about the project, and the outline on knowledge status of the Sub-basin, and development opportunities in Eastern Nile to make significant progress in their economic, soil, and environmental goals.

Ministry of water resources Ethiopia, 2006. ***Baro 1 & 2 Multipurpose projects, feasibility study: draft final report, annex 3 B: Hydrology and sediment transport*** *©2006 Norconsult Norplan, Lahmeyer JV, [72]pp.*

This Hydrological study was defined to cover the upper and mid-section of the Baro Mainstream, including also the adjacent upper tributaries of Geba and Sor river, and downstream as far as the Gambela plain.

Sutcliffe, J.P, 2009. ***Baro-Akobo-Subat Sub-Basin: Environment and natural resources status, challenges and opportunities, Eastern Nile Technical Regional office (ENTRO),*** *© 2009 ENTRO, 41pp.*

The paper outlines information on the status, challenges and development opportunities for environment and natural resources of sub-basin.

Ahmed Fahmy, 2006. ***Multipurpose Development of Eastern Nile, One-System inventory report on water resources, related data and information: Egypt, Eastern Nile Technical Regional office (ENTRO)*** *©2006 ENTRO, vi, [81]pp.*

The objective of this consultancy report is to compile essential information on water and related resources of Egypt that can be used for proper planning of the initial activities in the Eastern Nile Sub-basin under the EN Multipurpose Development Program. The work also includes data compilation and report preparation, including comments on data quality, and annotated list references.

Ahmed Fahmy, 2006. ***Joint Multipurpose Development Project (JMP) One-System inventory : water resources theme, final report: Egypt, Eastern Nile Technical Regional office (ENTRO)*** *©2006 ENTRO, ix, [90]pp.*

The objective of this consultancy report is to compile essential information on water and related resources of Egypt that can be used for proper planning of the initial activities in the Eastern Nile Sub-basin under the EN Multipurpose Development Program. The work also includes data compilation and report preparation, including comments on data quality, and annotated list references.

Eastern Nile Technical Regional office (ENTRO), [2006]. ***Tekeze-Setit-Atbra Nile Sub-Basin****, ©[2006] ENTRO, 63pp.*

This annex contains information on the Tekeze-Setit-Atbra Nile Sub-Basin and is a part of the four annexes that support the main report of the One System Inventory prepared by ENTRO.

Eastern Nile Technical Regional office (ENTRO), 2006. ***Blue Nile Sub-Basin*** *©2006 ENTRO, 94pp.*

This summary contains information on the Blue Nile Sub-Basin and is a part of the four annexes that support the main report of the One System Inventory prepared by ENTRO.

Eastern Nile Technical Regional office (ENTRO), 2009. ***One-System Inventory, Annexe: Baro-Sobat White Nile Sub-Basin****, ©2009 ENTRO, 112pp.*

This report gives an overview of the general characteristics of Baro-Sobat-White Nile Sub-Basin, socio economic characteristics, natural resources and environmental issues, hydrology and water infrastructure, and it's also includes annotated bibliography

Kalil Abdullah El-Medani, [2006 ?]. ***Multipurpose Development of Eastern Nile, One-System inventory , Scio-economic characteristic of E.N Basin: (Tekeze-Atbra, Nile Basin and Okobo-Sobat Basin, Eastern Nile Technical Regional office (ENTRO),*** *©[2006 ?] ENTRO, 55pp.*

This report depends concerning Akobo-Sobat basin has been compiled from different sources, i,e. government as well as non-government.

Mesfin Shenkut, 2006. ***Eastern Nile Subsidary Action Program (ENSAP), Multipurpose Development of Eastern Nile: One-System Inventory, water resources data collection: draft report, Eastern Nile Technical Regional office (ENTRO),*** *©2006 Ms Consultancy, 183pp.*

This report briefly shows the data collected and the general assessment of the data availability and quality as well as the drawbacks of accomplished tasks. The collected data are annexed with this report.

Mesfin Shenkut, 2008. ***Eastern Nile Subsidiary Action Program (ENSAP), Multipurpose Development of Eastern Nile: One-System Inventory, Eastern Nile Technical Regional office (ENTRO)*** *©2008 Ms Consultancy, 191pp.*

This report briefly shows the data collected and the general assessment of the data availability and quality as well as the drawbacks of accomplished tasks. The collected data are annexed with this report

Mohamed Mohieddin, 2006. ***Multipurpose Development of Eastern Nile, One-System inventory socio-economic Theme, Eastern Nile Technical Regional office (ENTRO),*** *©2006 ENTRO, [214] pp.*

The report provides a brief description of current status of each issue including some statistical data, figures and maps where ever appropriated.

Rifaat Abdel Wahaab, 2006. ***One-System inventory report on water resources, related data and information: Egypt, Eastern Nile Technical Regional office (ENTRO)*** *©2006 ENTRO, ii, [139]pp.*

The purpose of this report is to provide the available information and data on the following environment aspects; institutional assessment and knowledge, environmental baseline data to cover river Nile system pollution status, sources and describe their environmental impacts, land and agriculture, soil, geomorphology and climatically data, comments on data quality and identify gaps for future considerations

African Development Fund. (2003). ***Terms of reference, Baro-Akobo multi-Purpose Water Resources Development Study: Nile basin initiative multinational****, ©2003, Afrocan Development Fund, 34pp.*

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Appendix 5: principles for distributive analysis for irrigation projects
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Appendix 7: proposal for regional trade in the Eastern Nile irrigation sector.

Eastern Nile Technical Regional office (ENTRO), 2012. ***Baro-Akobo wetlands knowledge base consultancy, draft report,*** *©2012 Busulwa Henery Ssebuliba consultant, wetlands and biodiversity, 78pp.*

The main objectives of this study to conduct gap analysis so as to develop a proposal for future work to fill knowledge and information gaps that will enable sustainable developments to take place within the ecosystem' set of the Baro -Akobo Sobat sub- basin.

Eastern Nile Technical Regional office (ENTRO), 2013. ***Final draft: Project completion report (PCR), Eastern Nile First Joint Multipurpose Program Identification (JMP I ID)****, ©2013 ENTRO, 99pp.*

This study has shed light on economic and environmental win-win gains to be made from cooperative development (hydropower, generation and power trade; increase in downstream hydropower efficiency, flood risk reduction, savings dredging cost of irrigation channels, watershed development, etc.)

Ehab A. Meselhe, [2011]. ***Baro-Akobo Sobat (BAS) Multipurpose Water Resources Development Study, field report,*** *Nile Technical Regional office (ENTRO), ©[2011] ENTRO, 32pp.*

This report summarize the activities and findings of two field visits selected locations within the Baro – Akobo - Sobat (BAS) Basin.

Ehab A Meselhe, ... [et al], 2011. ***Baro-Akobo Sobat (BAS) Multipurpose water Resources Development Study, final report, Eastern Nile Technical Regional office (ENTRO),*** *©2011 ENTRO, [137]pp.*

This report covers the purpose of the Baro-Akobo- Sobat Project and scope of its effort and elaborates on the location, climate, topography and catchment characteristics. it's also includes field visits and presents a completion of existing water resources database and preliminary analysis of such available data. And finally recommendation of fast - track project

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Jackson Elisoma Muso. [201]. ***Baro-Akobo-Sobat (BAS) multipurpose water resources development study: approach paper on project study. Eastern Nile Technical Regional office (ENTRO),*** *©2010 ENTRO, 16pp.*

This paper gives a background information about the project, and the outline on knowledge status of the Sub-basin, and development opportunities in Eastern Nile to make significant progress in their economic, soil, and environmental goals.

Ministry of water resources Ethiopia, 2006. ***Baro 1 & 2 Multipurpose projects, feasibility study: draft final report, annex 3 B: Hydrology and sediment transport*** *©2006 Norconsult Norplan, Lahmeyer JV, [72]pp.*

This Hydrological study was defined to cover the upper and mid-section of the Baro Mainstream, including also the adjacent upper tributaries of Geba and Sor river, and downstream as far as the Gambela plain.

Ministry of water resources Ethiopia, 2006. ***Feasibility study of the Baro Multi Purpose Project: draft final report, volume 1-main report: draft final****, ©2006 Norconsult Norplan, Lahmeyer JV, xiv,[62] pp.*

This report a stand-alone volume that gives the reader a complete picture of recommended project and main results of the study.

Sutcliffe, J.P, 2009. ***Baro-Akobo-Subat Sub-Basin: Environment and natural resources status, challenges and opportunities, Eastern Nile Technical Regional office (ENTRO),*** *© 2009 ENTRO, 41pp.*

The paper outlines information on the status, challenges and development opportunities for environment and natural resources of sub-basin.

Yasir A. Mohamed, 2011. ***Conceptual Report of draft for the IWRM Development Baro-Akobo-Sobat River Basin, Eastern Nile Technical Regional office (ENTRO),*** *©2011 ENTRO, 17pp.*

This report presents the Key concepts for integrated water resources management (IWRM) of BAS basin, and gives a quick review of local context of the BAS, and identified key requirements for TOR to develop an IWRM plan for the BAS basin.

Ahmed Fahmy, 2006. ***Multipurpose Development of Eastern Nile, One-System inventory report on water resources, related data and information: Egypt, Eastern Nile Technical Regional office (ENTRO)*** *©2006 ENTRO, vi, [81]pp.*

The objective of this consultancy report is to compile essential information on water and related resources of Egypt that can be used for proper planning of the initial activities in the Eastern Nile Sub-basin under the EN Multipurpose Development Program. The work also includes data compilation and report preparation, including comments on data quality, and annotated list references.

Ahmed Fahmy, 2006. ***Joint Multipurpose Development Project (JMP) One-System inventory : water resources theme, final report: Egypt, Eastern Nile Technical Regional office (ENTRO)*** *©2006 ENTRO, ix, [90]pp.*

The objective of this consultancy report is to compile essential information on water and related resources of Egypt that can be used for proper planning of the initial activities in the Eastern Nile Sub-basin under the EN Multipurpose Development Program. The work also includes data compilation and report preparation, including comments on data quality, and annotated list references.

Eastern Nile Technical Regional office (ENTRO), [2006]. ***Tekeze-Setit-Atbra Nile Sub-Basin****, ©[2006] ENTRO, 63pp.*

This annex contains information on the Tekeze-Setit-Atbra Nile Sub-Basin and is a part of the four annexes that support the main report of the One System Inventory prepared by ENTRO.

Eastern Nile Technical Regional office (ENTRO), 2006. ***Blue Nile Sub-Basin*** *©2006 ENTRO, 94pp.*

This summary contains information on the Blue Nile Sub-Basin and is a part of the four annexes that support the main report of the One System Inventory prepared by ENTRO.

Eastern Nile Technical Regional office (ENTRO), 2008. ***One-System Inventory Summary: Tekeze-Setit-Atbra Nile Sub-Basin (draft)****, ©2008 ENTRO, 16pp.*

This annex contains information on the Tekeze-Setit-Atbra Nile Sub-Basin and is a part of the four annexes that support the main report of the One System Inventory prepared by ENTRO.

Eastern Nile Technical Regional office (ENTRO), 2008. ***One-System Inventory Summary: Main Nile Sub-Basin (draft)****, ©2008 ENTRO, 17pp.*

This summary contains information on the main Nile Sub-Basin and is a part of the four annexes that support the main report of the One System Inventory prepared by ENTRO.

Eastern Nile Technical Regional office (ENTRO), 2008. ***One-System Inventory Summary: Blue Nile Sub-Basin (draft)****, ©2008 ENTRO, 21pp.*

This summary contains information on the Blue Nile Sub-Basin and is a part of the four annexes that support the main report of the One System Inventory prepared by ENTRO.

Eastern Nile Technical Regional office (ENTRO), 2008. ***One-System Inventory Summary: Main Nile Sub-Basin, annex 2: Blue Nile Sub-Basin (draft)****, ©2008 ENTRO, 167pp.*

This summary contains information on the Blue Nile Sub-Basin and is a part of the four annexes that support the main report of the One System Inventory prepared by ENTRO.

Eastern Nile Technical Regional office (ENTRO), 2009. ***One-System Inventory, Annexe: Baro-Sobat White Nile Sub-Basin****, ©2009 ENTRO, 112pp.*

This report gives an overview of the general characteristics of Baro-Sobat-White Nile Sub-Basin, socio economic characteristics, natural resources and environmental issues, hydrology and water infrastructure, and it's also includes annotated bibliography

Kalil Abdullah El-Medani, [2006 ?]. ***Multipurpose Development of Eastern Nile, One-System inventory , Scio-economic characteristic of E.N Basin: (Tekeze-Atbra, Nile Basin and Okobo-Sobat Basin, Eastern Nile Technical Regional office (ENTRO),*** *©[2006 ?] ENTRO, 55pp.*

This report depends concerning Akobo-Sobat basin has been compiled from different sources, i,e. government as well as non-government.

Mesfin Shenkut, 2006. ***Eastern Nile Subsidary Action Program (ENSAP), Multipurpose Development of Eastern Nile: One-System Inventory, water resources data collection: draft report, Eastern Nile Technical Regional office (ENTRO)****, ©2006 Ms Consultancy, 183pp.*

This report briefly shows the data collected and the general assessment of the data availability and quality as well as the drawbacks of accomplished tasks. The collected data are annexed with this report.

Mesfin Shenkut, 2008. ***Eastern Nile Subsidiary Action Program (ENSAP), Multipurpose Development of Eastern Nile: One-System Inventory, Eastern Nile Technical Regional office (ENTRO)*** *©2008 Ms Consultancy, 191pp.*

This report briefly shows the data collected and the general assessment of the data availability and quality as well as the drawbacks of accomplished tasks. The collected data are annexed with this report

Mohamed Mohieddin, 2006. ***Multipurpose Development of Eastern Nile, One-System inventory socio-economic Theme, Eastern Nile Technical Regional office (ENTRO),*** *©2006 ENTRO, [214] pp.*

The report provides a brief description of current status of each issue including some statistical data, figures and maps where ever appropriated.

Rifaat Abdel Wahaab, 2006. ***One-System inventory report on water resources, related data and information: Egypt, Eastern Nile Technical Regional office (ENTRO)*** *©2006 ENTRO, ii, [139]pp.*

The purpose of this report is to provide the available information and data on the following environment aspects; institutional assessment and knowledge, environmental baseline data to cover river Nile system pollution status, sources and describe their environmental impacts, land and agriculture, soil, geomorphology and climatically data, comments on data quality and identify gaps for future considerations

Dr. Ntale Henry K, 2012. ***Detailed identification studies for potential large dams in the Kagera Basin : Final Report*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera project. 288pp.*

This study undertakes detailed identification studies for nine potential large dam sites within the Kagera Basin and prepare produce Initial Environmental and Social Evaluation (IESE) report as well as technical reports on nine sites in Kagera River Basin spread in the three partner states of Burundi, Rwanda and Uganda.
It includes;
Volume I I: Maps and Drawings

Dr. Ntale Henry K, 2012. ***Detailed Identification Studies for Mgozi Dam site, Tanzania*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera project. 64pp.*

This study undertakes a detailed identification studies for a potential multipurpose water resources development project at Mgozi, Ngara District,Tanzania
It includes;
Volume I I: Maps and Drawings

Nile Basin Initiative,2012, ***Feasibility Study for buyongwe within the feasibility studies for 4 small multipurpose dams in the kagera river basin****©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera project. 130pp.*

The study carries out detailed feasibility studies including preliminary designs and cost estimates for the four small dams, with emphasis on agricultural development (irrigation, livestock, aquaculture and fisheries production), water supply, energy and other uses, as found to be permitting

Nile Basin Initiative, 2012, ***Feasibility study for Taba-Gakomeye within the feasibility studies for 4 small multipurpose dams in the Kagera river basin*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera project. 131pp.*

This aims to showcase the findings of a feasibility study for a dam Taba-Gakomeye with emphasis on agricultural development (irrigation, livestock and fisheries production), water supply, energy and flood protection.

Nile Basin Initiative, 2012, ***Feasibility study for Karazi within the Feasibility studies for 4 small multipurpose dams in the kagera river basin*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera project. 131pp.*

This aims to showcase the findings of a feasibility study for a dam in Karazi with emphasis on agricultural development (irrigation, livestock and fisheries production), water supply, energy and flood protection.

Nile Basin Initiative, 2012, ***Feasibility study for Bigasha within the Feasibility studies for 4 small multipurpose damsIn the kagera river basin*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera project. 149pp.*

This aims to showcase the findings of a feasibility study for a dam in Bigasha with emphasis on agricultural development (irrigation, livestock and fisheries production), water supply, energy and flood protection.

Nile Basin Initiative, 2012, ***Feasibility Study for an Integrated Watershed Management Programme for the Kagera River Basin: Final Report*** *©Nile basin initiative, published by Nile basin initiative- Nile Equatorial Lakes subsidiary Action Programme- Kagera project. 194pp.*

This study contributes to addressing catchment degradation issues and achieving the optimal and sustainable integrated use of natural resources of the watersheds, with minimum damage to the environment and for the benefit of the inhabitants of the watershed and the communities linked to them.

XI

THEME: WATER RESOURCES MANAGEMENT

The objective of water resources management is to assess manage, and safeguard the water resource base of the Nile Basin through applying the principles of knowledge management to water resources development planning.

Nile Basin Initiative (NBI), 2012. ***State of the Nile River Basin****, © 2012 NBI, 256 pp.*

This report puts together wide ranging data, and offers analyses of the conditions of the water and environmental resources of the basin, and socioeconomic activities. It takes stock of past actions present challenges, and future opportunities for improving the stewardship of the Nile, and defines a list of indicators for monitoring the health of the basin.

Nile Basin Initiative, 2008. ***Nile Basin Decision Support System (NB DSS): A jointly Development Analytic system,*** *©Nile Basin Initiative, 7 pp*

This booklet introduces the reader to the Nile Basin DSS, an unprecedented jointly developed decision support system of the Nile Basin Initiative.

Nile Basin Initiative, 2014. ***Understanding Nile Basin Hydrology mapping actual Evapotranspiration over the Nile Basin****, ©Nile Basin Initiative, Nile Basin Initiative, 11pp.*

This paper discuss the major components, concepts and methods for providing quantifications, examples for use, and displays some of the challenges that are addressed about the water balance over Nile Basin and its sub-Basins.

Nile Basin Initiative, 2014. ***Nile Cooperation: Lessons for the World and lessons from the World for the Nile Basin,*** *©Nile Basin Initiative, Nile Basin Initiative, 45 pp.*

This booklet presents the way forward on lesson learning and returns to the major theme of global collective action and public goods, It argues that a more systematic mechanism for sharing experience, best practice and knowledge on cooperation in major shared river basins would in itself provide a global public good that could strengthen and enhance effective cooperation in different global regions-whilst acknowledging the many differences that exist between Basins.

Nile Basin Initiative, 2014. ***Nile Cooperation: Opportunities & Challenges*** *©Nile Basin Initiative, Nile Basin Initiative, 45 pp.*

This paper provides an overview of the Nile Basin, including hydrological, social, economic, geopolitical, environmental, developmental and historical contexts.

Nile Basin Initiative, 2014. ***4th Nile Basin Development Forum: Building sustainable trans-boundary cooperation in a complex river Basin Challenges Lessons Prospects, Abstract Vol.,*** *©Nile Basin Initiative, Nile Basin Initiative, 146pp.*

The NBDF program was built around eight sub-themes. Each sessions relating to one of the sub themes which are:

Knowledge System and Epistemic Communities

Water-Energy-Food Security Nexus

Trans-Boundary Water Governance

Benefits of Co-Operation and Risks of Non-Cooperation

Building Partnerships

Hydro-Diplomacy in Trans-Boundary Cooperation

Financing Trans-Boundary Cooperation

Building Resilience through Transboundary Cooperation

*BART Hilhorst… [et al.], 2011. .****Synthesis report: FAO-Nile Basin project GCP/INT/945/ITA 2004 to 2009****, ©FA0 2011, FA0 Nile.130PP*

This report summarizes the activities and outputs of the FAO project "Information products for Nile Basin water resources management" Results are presented in asset of companion reports and related data products. Annex from 1-2.

Jeff wood Ward, 2007. ***Pre-Mission and mission report: ADC Measurement of the Blue Nile under high sediment conditions.*** *, ©FA0 2011, FA0 Nile. 23 PP.*

This report is intended to offer a strategy to deal with each of the conditions in a variety of ways so that measurements can be made under extreme conditions. Emphasis is placed on keeping the solutions simple so that it can be easily integrated into the operational program.

FOA Nile, 2003. ***Work book: Map projections: Gis exercise-16th December 2003****, ©FA0 2011, FA0 Nile. 17 PP.*

This document describes the online support offered by ESRI to expand the functionality of ArcView, and to tap into a global network of GIS tool and script developers.

*FOA Nile, 2003.****Work book: Blue water poster for the Nile sub Basin: GIS Exercise-24th September 2005****, ©FA0 2011, FA0 Nile. 18 PP.*

The main objective of this report is to demonstrate the potential of ArcView for visual explanation, Graphic or map has proven a powerful means for making information more accessible and for supporting a communication process.

*Nile Basin Initiative, 2001.****Water resources planning and management****, ©Council of ministers of water affairs of Nile Basin states, published by Nile basin initiative- Shared vision program.114pp.*

This project aimed at building analytical capacity and provide technical infrastructure to manage Nile basin resource in a sustainable manner in keeping with the vision articulated by the Nile riparians, Annex from A –G.

*Arjen Rotmans, 2005.****Work book: Georeferencing of Scanned spatial Data sources &Exploring IDRISI GIs****, ©FA0 2011, FA0 Nile.19 PP.*

This manual demonstrates how scanned materials can be imported and georeferenced in ArcView.

FOA Nile, 2007. ***Work book: ArcView watershed Delineator****, ©FA0 2011, FA0 Nile. 28 PP.*

The main objective of this document is to demonstrate how a Digital Elevation model (DEM) can be employed for determining hydrologic terrain features. The exercise also aims at showing how internet resources can expand the functionality of ArcView.

*Thomas Gumbricht,2006.****Introduction to image analysis in ArcView 3- Land cover changes in the Rwenzori mountains 1973-2005****, ©FA0 2011, FA0 Nile.39 PP.*

This report gives out an introduction to basic image processing using ArcView, It also introduces satellite images derived from different generations of high resolution sensors.

FOA Nile, 1998. ***Retrieval, processing and final storage in the LVBD of Hydrometeorological Data from the Lake Victoria monitoring Network****, ©FA0 2011, FA0 Nile.61 PP.*

This manual describes in detail all steps and operations involved in transferring the accumulated raw data from retrieval unit to PC208W software on PC, processing the new information and subsequently storing it in LVBD in MS Access.

*FOA Nile, 2011.****Teeachers manual: International watercourses/River Basins including Law, Negotiation, Conflict resolution and simulation training exercises****, ©FA0 2011 FA0 Nile., 39 PP.*

This document mentions an enhanced ability to understand our own thinking processes and reflection on how often automatic thought processes can obstruct learning, communication and system thinking.

FOA Nile, 2003. ***Work Book: MS Access Queries for Database Quality Control for Time Series****, ©FA0 2011, FA0 Nile.43 PP.*

The main objective of this exercise is to show how to use MS Access queries for basic databases quality control for a time series dataset.

FOA Nile, 2003. ***Installation, operation and maintenance of Automatic meteorological stations Established in the Nile Basin****, ©FA0 2011, FA0 Nile. 74 PP.*

This manual presents detailed instruction for the installation, operation, and maintenance of the Automatic weather stations (AWS) installed in the Nile Basin by the FAO Nile Basin water resources project. Includes the list of Figure from Figure 1-16, Annex 1-8.

FOA Nile, 2001. ***Installation, Operation and maintenance of Automatic meteorological stations Established in Lake Nasser****, ©FA0 2011, FA0 Nile.65 PP.*

This manual presents the instructions for the installation, operation, and maintenance of the Automatic weather stations (AWS) installed on buoy in Lake Nasser in Egypt by the FAO Nile Basin water resources project. Includes the list of Figure from Figure 1-15, Annex from 1-9.

FOA Nile, 2001. ***Data retrieval, processing and final storage into the Nile Basin Database****, ©FA0 2011, FA0 Nile. 61 PP.*

This manual describes in detail all steps and operations involved in transferring the accumulated raw data from retrieval unit to PC and primary processing-by using a Campbell scientific software package, called PC208W, which has been specifically tailored for the purpose: and secondary processing of pre-processed data and their subsequent final storage into the NBD-by using MS Access database package.

FOA Nile, 2002. ***Installation, operation and maintenance of Aquanaut automatic water level recorders in the Nile Basin and processing of the Retrieved Data****, ©FA0 2011, FA0 Nile.38 PP.*

This manual presents instructions for the installation, operation, and maintenance of Aquanaut automatic water level recorder (AWLR) installed in the Nile Basin water resource project.

FOA Nile, 2001. ***Training manual: International watercourses/River Basins including law, Negotiation, conflict resolution and simulation training exercises****, ©FA0 2011, FA0 Nile. 203PP.*

This manual aims to provide the reader with practical and "Learner-centered" training materials on international water issues. It focuses on international water law and policy education as well as on negotiation training.

Egypt Ministry of Irrigation, 1981. ***Master plan for water resources development and use: Main report****, @ Egypt Ministry of Irrigation, 171pp.*

This report presents the results of three years of work by the master water plan project for water development and use (MWP).

International Bank for Reconstruction and Development, 1980. ***Mater plan for water resources development and use: Water planning: Methods and three alternative plans,*** *@ Mater plan for water resources development and use, 95pp.*

This report emphasizes the tools, procedures and information for planning, and contains economic analyses for only some aspects of water development. This report includes Figures from 1-11.

*Egypt Ministry of Irrigation… [et al.], 1980.****Water Demands****, @ Egypt Ministry of Irrigation 150pp.*

This purpose of this report is to examine the present demand for water for all purposes, to show how the demand in various sectors will be affected by growth and to project what the water demands will be by the year 2000.

International Bank for Reconstruction and Development, 1983. ***Mater plan for water resources development and use****:* ***Adaptive closed-Loop operation of the high Aswan Dam,*** *@ Egypt Ministry of Irrigation, 229pp.*

This report presents two proposed techniques for the real-time operation of the high Aswan Dam, The report is a by-product of a subcontract between the Egyptian water master plan and the Cairo University/M.I.T. Technological planning program.

Egypt Ministry of Irrigation, 1983. ***Mater plan for water resources development and use: Multi-Lead forecasting of River Nile stream flows,*** *@ Egypt Ministry of Irrigation, 167pp.*

This report presents generalized multivariate regression model for the forecasting of River Nile flows at nine sites of the Basin. The report is a by-product of a subcontract between the Egyptian water master plan and the Cairo University/M.I.T. Technological planning program, for real-time forecasting and control of the high Aswan Dam.

Richard P.Rose, 1981. ***Mater plan for water resources development and use****:* ***Industrial water use and wastewater production****, @ Egypt Ministry of Irrigation, 111pp*

This report describes the comprehensive Egyptian survey of industrial water use and wastewater production undertaken by the consultant in accordance with terms of reference and under the direction of the master water plan project management.

*Egypt Water Master Plan, 1984.****Water resources planning Guidelines****, @ Egypt Water Master Plan.100pp.*

This manual contains general producers and guidelines and provides assistance in planning for Egypt's water and associated land resources use and development.

Dr.M.Gamal Mostafa, 1981. ***Mater plan for water resources development and us: Sediment,*** *@ Egypt Water Master Plan.95pp.*

This report presents the Nile water and Sediment flows, the characteristics of the Nile sediments and the techniques used for its measurement.

Gary P.Kutcher, 1981. ***Mater plan for water resources development and us: The Agro economic model,*** *@ Egypt Water Master Plan.213pp.*

This report focuses on issues of modelling Egyptian agriculture for purposes of long-term planning.

Egypt Water Master Plan, 1981. ***Mater plan for water resources development and us: Regulations studies,*** *@ Egypt Water Master Plan, 135pp.*

This report describes both the approach developed by the project to reconcile the demand for water at Aswan with potential supplies, and the application of this methodology in the evaluation of three alternative development scenarios.

Eng.Yehia Sobhy Amin, Lowell R.Aderson, 1984. ***An economic evaluation of new lands projects in the National five year plan, Vol.IV,*** *@ Egypt Water Master Plan, 91p.*

This report is concerned with the economic evaluation of new lands development, identified in the present 5-year plan 1982/87-1986/87.

*Republic of Kenya Ministry of Water Development, 1992.****The study on the National water master plan: Data Book: DB.1 Hydrological Data (Supporting Data****), @ Republic of Kenya Ministry of Water Development, 145pp.*

The data and information contained in this report represents those collected in 1990-1991 period from various documents and reports made available mostly from central government offices in Nairobi and /or those analyzed in this study based on the collected data.

Eng.Nivan Mamdouh, 1981. ***Mater plan for water resources development and us: Project Information system,*** *@ Egypt Water Master Plan, 65pp*

This report is designed to explain the six sections in detail the project information system.

*Nile Basin Initiative, 2010.****Development and Deployment of the Nile Basin decision support system: Detailed software requirements and design report, cycle 1: Volume 1-User interface requirements,*** *@ Nile Basin Initiative, published by Nile Basin Initiative, 55pp.*

This document presents 'Detailed Software Requirement (Volume 1) constitute together with the 'Detailed user interface Requirement and design (Volume 2)' and 'Detailed Software design (Volume 3)' document the deliverable for development Cycle 1 'Detailed requirement analysis and design stage' of the Nile Basin DSS(NB DSS) implementation project.

*Nile Basin Initiative, 2010.****Development and Deployment of the Nile Basin decision support system: Detailed software requirements and design report, cycle 1: Volume 2-User interface requirements,*** *@ Nile Basin Initiative, published by Nile Basin Initiative, 103pp.*

This document constitutes together with the 'Detailed Software Requirement' and 'Detailed software design' documents the deliverable for development Cycle 1 'Detailed requirements' and design stage' of the Nile Basin DSS(NB DSS) implementation project.

Egypt Water Master Plan, 1979. ***Mater plan for water resources development and us: Second interim report****, @ Egypt Water Master Plan, 90pp*

This report describes the data and assumptions for water planning that have been collcted or agreed upon, It presents a number of issues and interim findings, and concludes with a note on the organisational framework for water planning.

*Nile Basin Initiative, 2009.****Contract for development and deployment of the Nile Basin decision support system,*** *@ Egypt Water Master Plan, 153pp*

This document describes the term of reference (TOR) for work package 1 of the development and deployment of the Nile Basin decision support system, a model and simulation based multi-criteria decision support system (DSS) for water resources planning and strategic management.

Nile Basin Initiative, 2010. ***Development and Deployment of the Nile Basin decision support system: Detailed software requirements and design report, cycle 1: Volume 3-User interface requirements,*** *@ Nile Basin Initiative, published by Nile Basin Initiative, 134pp.*

This document describes the consultant's proposed design for the Nile Basin (DSS) (NB DSS).The design mainly targets the software components that are in scope for the development Cycle 1 Release. I.e. Time series, GIS and Scenarios, but not to a certain extent also meta-data, tables, reports and hydro objects. Descriptions of other software components are also include in the document, but shall be considered as work in progress, This report includes figures from 1-110, and tables from 1-55.

E.Todini, P.E.O'Connell, 1979. ***Hydrological Simulation Lake Nasser: Vol.11 User manual for programs,*** *@ Egypt Water Master Plan, 54pp*

This report details the two parts: Volume 1 describes the development of the methodology required for this study together with the results of its application, while Volume 11 is a user manual for the computer programs needed to implement the methodology.

Egypt Water Master Plan, 1981 ***Mater plan for water resources development and us: Consumptive use of water,*** *@ Egypt Water Master Plan, 35p*

This report was prepared to consolidate experimental information on the rate of water use for some of the major field crops being raised in the Nile Delta, middle Egypt and Upper Egypt.

Eng.Yehia Sobhy Amin, Lowell R.Aderson, 1984. ***An economic evaluation of new lands projects in the National five year plan (1982/1983-1986/1987), Vol.III, Appendix 3: Crop patterns*** *@ Egypt Water Master Plan, 115pp.*

This report present the field crops oilseed crops vegetables and fodders, with a lower and higher limits as percentage of project gross area.

Eng.Yehia Sobhy Amin, Lowell R.Aderson, 1984. ***An economic evaluation of new lands projects in the National five year plan (1982/1983-1986/1987), Vol.IV, Appendix 4: Cost & Benefits streams*** *@ Egypt Water Master Plan, 217pp.*

This report is concerned with costs and benefits streams for crop pattern.

Nile Basin Initiative, 2009. ***Development and Deployment of the Nile Basin decision support system: Software requirement specification (SRS), Appendix C****, @ Nile Basin Initiative, published by Nile Basin Initiative, 179pp.*

This document describes the Consultants perception of the required functionality of the Nile Basin DSS (NB DSS) The specification at this point in time define the full system but only at a high level.

Nile Basin Initiative 2009 ***Development and Deployment of the Nile Basin decision support system: Detailed Software Design, Software Development Cycle 1,*** *@ Nile Basin Initiative, published by Nile Basin Initiative, 179pp.*

This document describes the consultant's proposed design for the Nile Basin (DSS) (NB DSS).The design mainly targets the software components that are in scope for the development Cycle 1 Release. I.e. Time series, GIS and Scenarios, but not to a certain extent also meta-data, tables, reports and hydro objects. This report indicates figures from 1-49, and tables from 1-56.

Nile Basin Initiative, 2009. ***Development and Deployment of the Nile Basin decision support system: Software Architecture Document (SAD), Appendix D****, @ Nile Basin Initiative, published by Nile Basin Initiative, 127pp.*

This document constitutes one of the deliverables of the Inception phase. According to the terms of reference (TOR) /1/ the document shall focus on the overall system architecture, which will be subject to client approval before proceeding further into the subsequent development cycles. This report includes Figures from1.1-8.11. Tables 1.1-8.1.

Anderson-Nichols & Co.Inc, 1981 ***Mater plan for water resources development and us: Water and wastewater studies municipal and industrial sectors,*** *@ Egypt Water Master Plan, 35pp.*

This report represents the combined work of four members of the staff of Anderson-Nichols & Co.Inc, plus the invaluable assistance of the project staff, other professionals, and various government employees who provided data, experience, and answers to innumerable questions.

World Meteorological Organisation, 1974. ***Hydrometeorological survey of the catchments of lakes Victoria, Kyoga and Albert: Burundi, Egypt, Kenya, Rwanda, Sudan, United republic of Tanzania and Uganda, Vol IV Hydrological studies of selected Kafu River Basin****, @ World Meteorological Organisation, 355pp.*

This report deals with the analysis of the data collected in recent years in the Kafu River Basin, It also describes the main factors affecting physiography, geomorphology, geology, soil and vegetable.

Egypt Ministry of Irrigation, 1981. ***Mater plan for water resources development and use: Mathematical model of the upper Nile system, Vol.I description of the model.*** *@ Egypt Ministry of Irrigation, 94pp.*

This report describes the information and calibration of a mathematical simulation model for the river Nile system between Lake Albert and Lake Nasser.

E.Todini, P.E.O'Connell, 1979. ***Hydrological simulation of Lake Nasser: Vol.I analysis and results,*** *@ Egypt Ministry of Irrigation, 112pp.*

This report is prepared in two parties: Volume I describes the development of the methodology required for this study together with results of its application, while volume II is user manual for the computer programs needed to implement the methodology.

Development Research and Technological Planning Centre, 1984. . ***Mater plan for water resources development and use: Present and future operation Scenarios for the high Aswan Dam, Vol.I main report,*** *@ Egypt Ministry of Irrigation, 196pp.*

This report presents a detailed investigation of the present and future operation scenarios of the reservoir behind high Aswan Dam.

W.Barber, D.P.Carr, 1980. ***Mater plan for water resources development and use: Water management Capabilities of the alluvial aquifer system of the Nile valley, Upper Egypt,*** *@ Egypt Ministry of Irrigation, 141pp.*

This report describes the work carried out during the period 24th Match through 21st April, 12th through 27th September, 1979, and 13th through 29th January, 1980.During these period a study was undertaken to investigate the possibility of operating withdrawals of water from the alluvial aquifer system underlying the Nile valley below Aswan to afford a level of management of the surface water and groundwater resources on the basis of conjunctive use.

A.A. Khafagi, A.Sabri, 1981. ***Mater plan for water resources development and use: Groundwater,*** *@ Egypt Ministry of Irrigation, 83pp.*

This report presents a summary of the hydrogeological conditions in Egypt, Its mainly serving to highlight pertinent aspects of groundwater sources and their potential, according to the five main geomorphogical regions.

Eng.Yehia Sobhy Amin, 1981. ***Mater plan for water resources development and use: Economic evaluation of land reclamation****, @ Egypt Ministry of Irrigation, 52pp.*

This report describes the data of an economic analysis of the capital, replacement and annual costs, and the potential yields of new lands that can be used for evaluation and for setting up priorities.

*Kenya Lake Basin Development Authority, 1985.****Lake Basin River Catchment Development River Profile Studies: Basin Water Balances and Inter-Basin transfer studies, Vol.III,*** *@ Kenya Lake Basin Development Authority, published by Kenya Lake Basin Development Authority*

This document considers each of the River Basins in turn and evaluates the ability of each River-in its natural or potentially regulated state- to meet the potential demands within its own Basin for public water supplies and for irrigation development.

Egypt Ministry of Irrigation, 1979. ***Mater plan for water resources development and use: Second Interim report,*** *@ Egypt Ministry of Irrigation, 90pp.*

This interim report describes the data and assumptions for water planning that have been collected or agreed upon. It presents a number of issues and interim findings, and concludes with a note on the organisational framework for water planning.

Eng.Yehia Sobhy Amin, Lowell R.Aderson, 1984. ***An economic evaluation of new lands projects in the National five year plan (1982/1983-1986/1987), Vol.I,*** *@ Egypt Water Master Plan, 91pp.*

This report is concerned with the economic evaluation of new lands development, indentified in the present 5-yer plan 1986/83-1986/87.

Egypt Water Master Plan, 1981. ***Mater plan for water resources development and use: Consumptive use of water by Major Field Crops in Egypt****, @ Egypt Water Master Plan, 35pp.*

This report was prepared to consolidate experimental information on the rate of water use for some of the major field crops being raised in the Nile Delta, Middle Egypt and Upper Egypt.

Eng.Yehia Sobhy Amin, Lowell R.Aderson, 1984. ***An economic evaluation of new lands projects in the National five year plan (1982-1987, Volumell)****, @ Egypt Water Master Plan, 52pp.*

This volume II of a 4-volume report, consisting of main report and four appendices:-
Volume I: Main report
Volume II: Appendix 1-price
Appendix 2-Mechanization
Volume III: Appendix 3-Crop patterns
Volume IV: Appendix 4-Costs and Benefit Stream.

Egypt Ministry of Irrigation, 1984. ***Detailed examination of existing land reclamation projects****, @ Egypt Ministry of Irrigation, 167pp.*

This document describes the social economic aspects of present settlement schemes.

Egypt Ministry of Irrigation, 1980. ***Mater plan for water resources development and use: Water Quality****, @ Egypt Ministry of Irrigation, 62pp.*

This report describes the "the quality of water "that is measured by amounts of dissolved and suspended materials that it contains.

Alan Nicol, 2006. ***WP baseline and Needs assessment of national water policies of the Nile Basin countries - a regional synthesis: Study report****, ©Nile basin initiative, published by Nile basin initiative, 84pp.*

The report consolidates the national baseline assessment reports into a regional document. It was important to identify the key areas of support each country needs and a base for the development of the WP guidelines and good practices document

Peter Robinson, 2006. ***WP guidelines and compendium of good practices Report****, ©Nile basin initiative, published by Nile basin initiative, 69pp.*

This report is intended to help stakeholders in the NBI Countries to enhance the formulation and implementation of their national water policies incorporating Transboundary aspects and on the basis of the principles of integrated water resources management.

*Huaming Yao, Aris Georgakakos, 2003.****Nile Decision Support Tool River Simulation and Management: Manual*** *©Nile basin initiative, published by Nile basin initiative, 23PP.*

This manual presents the Nile River Simulation and Management (Nile RSM) module which is a tool developed to assess the benefits and tradeoffs associated with various basin wide water development and management options. It includes models that fall under the categories of river and reservoir simulation, system optimization, and scenario assessment. The report discusses the model purpose, methodology, and application range.

Praveen Kumar… [et al.], 2006. ***Hydro Informatics: Data Integrative Approaches in Computation, Analysis, And Modelling****, ©2006 Taylor &Francis Group, LLC, Published by CRC Taylor &Francis Group press, 534pp.*

The goal of this book is to provide a basic introduction to several emerging concepts to enable a reader to get a panoramic view of the domain.

Evangelos Triantaphyllou, 2000. ***Multi-Criteria Decision making methods: A Comparative study****, ©2000 Kluwer Academic publishers, 288pp.*

This book provides a unique perspective into the core of MCDM methods and practise. It provides many theoretical foundations for the behaviour and capabilities of various MCDM methods.

DHI Denmark, 2009. ***Development and Deployment of the Nile Basin Decision Support System: Inception Phase*** *©Nile basin initiative, published by Nile basin initiative, 158pp.*

The development process of the Nile Basin DSS comprises the following Phases:
Inception Phase: focusing on further elaboration of user requirements (based on the user requirements provided in this TOR), technical specification/analysis and design covering the overall DSS (system architecture).

A. S. Alsharhan, W. W. Wood, (eds.) 2003. ***Water resources perspectives: Evaluation, Management and Policy, Developments in water science, 50,*** *©2003 Esevir B. V., ix, 385pp.*

The objectives of this publication is to assemble current knowledge on water resources management strategies; identify approaches for sustainable water resources development and prioritize issues and challenges; and evaluate the future development of conjunctive use required for the appropriate exploitation of available water resources.

Abdelgadir Abulgasim [2010]. ***Eastern Nile Planning Model (ENPM) Project, Remote sensing consultancy, information products: report-part 2, Nile Technical Regional office (ENTRO),*** *©[2010] ENTRO, 118 pp.*

The objectives of this consultancy work is to identify, procedure and analysis remote sensing datasets that are relevant to water resources modeling need and development activities under the Eastern Nile Planning Models (ENPM) Project.

Asit K. Biswas, 2009. ***Water resources: environmental planning, management and development****, ©2009 The McGraw-Hill Companies, ix, 741pp.*

This book attempt to analyze and review the various environmental issues associated with water resources planning, management, and development from interdisciplinary perspective, as well as to analyze global situations.

Civil engineering department Addis Ababa University, faculty of technology 2010. ***Final report : development, operation, and training for flood forecasting model in Ethiopia, Eastern Nile Technical Regional office (ENTRO),*** *©2010 ENTRO, 127pp.*

The purpose of this report is to present the final result of flood forecasting modeling which includes the hydrological configuration, the hydraulic configurations, the required input variables and parameters to hydrological models set for Gummara, Rib, Megech and Dirma catchment.

Consultancy Corporation, University of Khartoum, 2009. ***Calibration and training for flood forecasting model in Sudan, flood preparedness and early warning project (FPEW), Eastern Nile subsidiary action program (ENSAP), Eastern Nile Technical Regional office (ENTRO),*** *©2009 ENTRO, 102pp.*

The objective of this report is to discuss the data use in this study together with its pre-processing and preliminary analysis results.

Eastern Nile Technical Regional Office (ENTRO), 2006. ***Project document, Eastern Nile Planning Model Project: draft****, ©2006 Riverside side technology, In, v, 212 pp.*

The ENPM project designed to provide an effective tool to decision-makers in Eastern Nile Region so they can make informed water resources investment decision. The project contains three major components: (i) the modeling System, (ii) the Information management System, (iii) institutional and human capacity strengthening.

Eastern Nile Technical Regional Office (ENTRO), 2006. ***Project Preparation, Flood preparedness and early warning: draft inception report****, ©2006 Snowy Mountains Engineering Corporation (SMEC International), viii, [78]pp.*

This report describes the existing flood management practice in three Eastern Nile riparian countries of Ethiopia , Sudan and Egypt; including description of the consultation undertaken, and gap analysis, and undertake a preliminary analysis of needs in each country and formulate a proposed flood management strategy.

Eastern Nile Technical Regional Office (ENTRO), 2006. ***Project preparation, flood preparedness and early warning: inception report*** *©Snowy Mountains Engineering Corporation (SMEC International), x, [102]pp.*

This report describes the existing flood management practice in three Eastern Nile riparian countries of Ethiopia, Sudan and Egypt; including description of the consultation undertaken, and gap analysis, and undertake a preliminary analysis of needs in each country and formulate a proposed flood management strategy.

Eastern Nile Technical Regional Office (ENTRO), 2006. ***Project preparation, flood preparedness and early warning, technical background paper, volume 1,: main final report (final)****, ©2006 Snowy Mountains Engineering Corporation (SMEC International), xxx, [293]pp, project No.5089016.*

This report presents analyses undertaken during Project preparation (PP), describes the methodology and decision making processes followed, outlines options considered for project implementation, and makes recommendations regarding the project definition. This analyses includes technical, environmental and economic analyses.

Eastern Nile Technical Regional Office (ENTRO), 2006. ***Project preparation, flood preparedness and early warning, technical background paper, volume 2: appendices****, ©2006 Snowy Mountains Engineering Corporation (SMEC International), [169]pp. , project No.5089016.*

This report includes twelve appendices:
Appendices A: Hydrological analysis
Appendices B: Institutional notes for discussion
Appendices C: Socioeconomic data and information
Appendices D: Mapping and flood risk delineation
Appendices E: Flood forecasting
Appendices F: Emergency Response planning
Appendices G: Economic and financial analysis
Appendices H: Proposal for phase 1 FPEW project
Appendices I: Organizations for regional cooperation
Appendices J: Links to other projects
Appendices K: Flood damage in Egypt downstream of high Aswan dam
Appendices L: Supplementary study, Sudan

Eastern Nile Technical Regional Office (ENTRO), 2006. ***Project preparation, flood preparedness and early warning, technical background paper, volume 3 : records of consultation****, ©2006 Snowy Mountains Engineering Corporation (SMEC International), xvi, [300]pp.*

This report presents analyses undertaken during Project preparation (PP), describes the methodology and decision making processes followed, outlines options considered for project implementation, and makes recommendations regarding the project definition.

Eastern Nile Technical Regional Office (ENTRO), 2007. ***Flood preparedness and early warning project implementation of phase 2, Package A,B,C,D,E,F: terms of reference****, ©2007 Snowy Mountains Engineering Corporation (SMEC International), ii, [225]pp.*

The geographical scope of this report Includes: Within Ethiopia, the Baro-Akobo, Abbay and Tekeze river basin; within the Sudan, the Blue Nile, its tributaries the Dinder and Rahad rivers, with the White Nile only downstream of Jabel Aulia Dam, the Main Nile downstream of Khartoum and its tributary the Atbra River; and the Nile River valley in Egypt , including the high Aswan Dams (HAD).

Eastern Nile Technical Regional Office (ENTRO), 2007. ***Project preparation, flood preparedness and early warning: Project Implementation plan****, ©2007 Snowy Mountains Engineering Corporation (SMEC International), xvi, [300] pp.; project No.5089016.*

This report describes the components, tasks and activities of the project and provides a budget, financial and economic analysis, and financing plan for phase 2 project implementation. It discusses risks associate with project implementation, and appropriate management measures. Implementation and institutional arrangements are included, with plans and schedule for implementation, plans for procurements and financial management, and disbursement schedule.

Eastern Nile Technical Regional Office (ENTRO), 2008. ***Flood preparedness and early warning - I project, regional flood coordination unit (RFCU), Sudan community action plans*** *©2008 ENTRO, 54pp.*

This community action plans were prepared based on needs of assessment that has been conducted during the field visits to these selected communities (Toti Island, Wawsi, and Alabka). Also communities have discussed their preparedness situation and explored their present resources, facilities and critical needs for the coming flood season.

Eastern Nile Technical Regional Office (ENTRO), 2009. ***Flood preparedness and early warning project, volume I: project implementation plan, revised by Lura Hammond ... [et. al],*** *©2009 Snowy Mountains Engineering Corporation (SMEC International), 123pp.*

This report describe the components, tasks and activities of the project and provides a budget, financial and economic analysis, and a financing plan for phase 2 project implementation. It discusses risks associate with project implementation, and appropriate management measures.

Eastern Nile Technical Regional office (ENTRO), 2009. ***Final report: flood preparedness and early warning project, enhancement to Nile forecasting system satellite precipition estimation and hydrological models in national forecast center of Egypt****., ©2009 University of Hull, 64pp.*

This report covers the activities carried out by the university of Hull as a part of the "Enhancement to Nile Forecasting System Satellite Perception Estimation and Hydrological Models in National Forecast Center in Egypt" project during the period 15th January-15th October. The ENFS project amid tp enhance key aspects of the NFS system to take advantage of recent technological advances in satellite precipitation estimation and hydrological modeling.

*Eastern Nile Technical Regional Office (ENTRO), 2009****. Flood preparedness and early warning project, volume II: Appendices A-F, revised by Lura Hammond ... [et. al],*** *©2009 Snowy Mountains Engineering Corporation (SMEC International), [173]pp.*

This report includes six appendices:
Appendices A: Log frame Matrices
Appendices B: Environmental and social management framework (ESMF), flood prevention and early warning project-phase 2 (FPEW-2)
Appendices C: Resettlement policy framework (RPF)
Appendices D: Proposal for phase I FPEW project implementation
Appendices E: Detailed project coast analysis
Appendices F: National strategies for flood risk management strategy

Eastern Nile Technical Regional Office (ENTRO), ©2009 ***Snowy Mountains Engineering Corporation (SMEC International), [173]pp., [2009]. Flood preparedness and early warning project, volume III: National consultants report, Appendices: G-H, revised by Lura Hammond…[et. al],*** *©[2009] Snowy Mountains Engineering Corporation (SMEC International), [124]pp.*

This report includes two appendices:
Appendices G: Proposal for phase I FPEW-II Project Implementation.
Appendices H: Draft final report of flood Preparedness and early warning project (Sudan).

Eastern Nile Technical Regional office (ENTRO), 2009. ***A Draft report on international study tour to India and Bangladesh, March 29-April 6, 2009****, ©2009 ENTRO, 49pp.*

This study tour focuses on all aspects of flood management with specific emphasis on the flowing thematic areas: flood forecasting, information and communication system. flood risk mapping, community flood preparedness and responses.

Eastern Nile Technical Regional Office (ENTRO, 2010. ***Flood preparedness and early warning project, flood embankment design, operation and maintenance, manual, Sudan: Final, revised by FPEWP-ENTRO*** *©2010 The Hydraulic Research Station (HRS), 129pp.*

This manual includes main steps needed to design, construct, and maintain a flood embankment manual. This manual includes also data from existing experience in Sudan, and local information collected from various departments.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Training: Flood Risk Mapping consultancy for pilot area in Ethiopia****, ©2010 Riverside, [151]pp.*

The purpose of this document is to create a standard methodology for creating a TIN surface using survey points a DEM to represent surrounding landscape.

Eastern Nile Technical Regional Office (ENTRO), 2010. ***Flood preparedness and early warning project, flood embankment design, operation and maintenance, manual in Ethiopia****, revised Ephrem Tamiru (consultant) & ENTRO, [306]pp.*

This manual identifies a set of design standards and procedures to be used for the planning, design and construction and maintenance of flood protection embankment and associate structure in Ethiopia.

Eastern Nile Technical Regional Office (ENTRO), 2010. ***Flood preparedness and early warning - I project, regional flood coordination unit (RFCU): progress report****, ©2010 ENTRO, 35pp.*

This report summarizes the physical and financial achievements for each project component during implementation period June 2007 to October 2010, This report also addresses the major challenges & constraints, lesson learned, and recommendations.

Eastern Nile Technical Regional Office (ENTRO), 2010. ***Flood risk mapping consultancy for pilot areas in Ethiopia****, ©2010 Riverside; Tropics; Shebelle, X, [164]pp.*

This study includes topographic data collection and surveying, terrain modeling, hydrologic analysis, hydraulic modeling and analysis, assessment. The pilot areas considered were: Gumara River in the Fogera floodplain, Ribb River in the Fogera floodplain, Dirma River in the Dembiya floodplain, Megech River in the Dembiya floodplain.

Eastern Nile Technical Regional Office (ENTRO), 2010. ***Flood risk mapping consultancy for pilot areas in Sudan****, ©2010 Riverside; UNESCO Chair in Water Resources, 66pp.*

This study includes topographic data collection and surveying, terrain modeling, hydrologic analysis, hydraulic modeling and analysis, a, flood hazard mapping, economic data collection and damage analysis, and vulnerability and risk assessment. The pilot areas considered were: Khartoum city, Hsahisa region and Wad Medani at the River Rahad junction, Singa city, Roseires Dam.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Operationalization of flood forecasting and early warning system in 2010 flood season in Sudan: manual for graphical user interface (GUI)****, ©2010 Consultancy corporation University of Khartoum, 19pp.*

This user's manual provides the users of the Nile flood forecasting model with detailed instructions for using the different components of model in producing real time flood forecasting along the River Nile System in Sudan.

Eastern Nile Technical Regional office (ENTRO), 2010. ***Design management manual for protection projects in Ethiopia****, ©2010 ENTRO, iii, [282]pp.*

The purpose of this manual is to present basic principles used in design and construction of flood protection embankments and associated structured in Ethiopia.

Eastern Nile Technical Regional office (ENTRO), 2012. ***Special study proposal on modeling impacts of fish aquaculture production on water quality in the northern Nile delta****, ©2012 NBI, 33pp.*

The overall objective of the study is to develop a model for the assessment of impact of aquaculture production on receiving water bodies for different operational scenarios. This will result in assessment of the feasibility of the different production options.

Eastern Nile Technical Regional office (ENTRO), 2013. ***Eastern Nile Planning Model (ENPM) project, strengthening knowledge base and modeling capacity at ENTRO and EN universities, final report: surface – groundwater resources evaluation and water balance for conjunctive use in the Tana-Beles sub basin, Ethiopia (A special technical study)****, ©2013 Addis Ababa University, civil department, 81 pp.*

The main objective of the study is to estimate the groundwater hydrology of sub-basin and to assess potential conjunctive use of surface and groundwater.

Eastern Nile Technical Regional office (ENTRO), 2013. ***Special technical Study: dam break analysis for selected cascade of dams on the Blue Nile****, ©2013 Addis Ababa University, Civil Engineering Department, 49 pp.*

The main objective of this study is to identify, analysis, and assess impacts of dam breach in the Blue Nile cascade using appropriate modeling tools. The study covered three dams including GRED, Rosaries and Sennar dams in the Blue Nile River.

Eastern Nile Technical Regional office (ENTRO), 2013. ***Final report for special study: Nile delta flooding due to sea level risk****, ©2013 Department of irrigation and hydraulics, faculty of engineering, Cairo University, 76 pp.*

This Study attempts to understand the associated impacts on existing coastal systems, infrastructure and property, to identify high risk areas that are prone to high impact and to understand suggest some possible long-term adaption measures.

Egypt. Ministry of Irrigation, 1980. ***Part I: fisheries, ecology and health, part II: a scenario to the year 2000, International bank for reconstruction & development, (Technical report; 13, UNDP-EGY/73/024),*** *©1980 Incorporated MacLAREN MAREX, [42]pp.*

This report describes the potential cultured fisheries and natural fisheries were to be identified, and present activities concerned with the development of these fisheries described.

Egypt. Ministry of Irrigation, 1980. ***Water Demands, International bank for reconstruction and development, (Technical report; 2, UNDP-EGY 37/042),*** *©1980 UNDP-EGY, 150pp..*

The purpose of this report is to examine the present demand for water for all purposes, to show how the demand in various sectors will be affected by growth and to project what the water demands will be the year 2000.

Egypt. Ministry of Irrigation, [1981]. ***Egypt water master plan, water resources planning guidelines, UNDP; World bank, (Technical report; 23, EGY/81/031/A07/42),*** *©[1981] UNDP-EGY.*

This Report provides general planning criteria for project preparation unites, planning objectives, polices and standards for the formulation and evaluation of plans. This manual provides guidelines for estimating water requirements conducting operation, flood and sedimentation studies and describes data need for land classification. the manual includes outlining work plans for the economic analysis of an irrigation project.

G. K. Viswanadh, 2007. ***Watershed management and impact of environmental changes on water resources****, ©2007 BS Publications, xvi,570pp.*

This book includes six units covers different topics in Groundwater exploration, quality, development and modeling, Hydrologic parameter estimation & Modeling, computational methods in watershed hydrology, climate change and water quality, integrated water resources management and water management issues and Geo-informatics.

M. A. Khan, 2006. ***Watershed management for sustainable agriculture****, ©2006 Agrobios (INDIA), 237pp.*

This book has been prepared to serve as a book of reference for researchers, administrators, planners, policy makers and field workers.

Malcolm Newson, 1997. ***Land, water and development: sustainable management of river basin system****, ©1997 Routledge, xxxv, 423pp.*

This book explores in greater depth the meaning of sustainability in river basin development, highlighting the rapid evolution of practical concepts in many countries since the Rio Earth Summit.

Neil S. Grigg, 2009. ***Water resources management: principles, regulation, and cases****, ©2009 The McGraw-Hill Companies, vii, 544pp.*

This book presents comprehensive management framework for the water industry. The "principles" that form the comprehensive framework include technical topics such as hydrology and systems analysis, and management topics such as law, finance, and political science.

Peter W. Downs, Kenneth J. Gregory, 2004. ***River channel management, towards sustainable catchment hydrosystems****, ©2004 Arnold, xii, 395pp.*

This book explores the multidisciplinary nature of river channel management in relation to modern management techniques that consider the background of entire drainage basin, use channel restoration where appropriate, and are designed to be sustainable.

R. P. Yadav... [et al.], (eds), 2010. ***Emerging trends in watershed management****, ©2010 Stash Serial Publishing House, xx, 769pp.*

This book has chapters under six broad themes. Under natural resource appraisal theme status of soil erosion, land degradation, surface and groundwater availability and quality, impact of human and livestock on biodiversity and land quality were discussed.

S. C. Panda, 2009. ***Principles and practices of water management****, ©2009 Agrobios India, 345pp.*

This Book covers different aspects of water management which includes soil-plant-water relationships, evapotranspiration and water requirement.

Seleshi Bekele Awulachew... [et al], (ed.), 2012. ***The River Nile Basin: water, agriculture, governance and livelihoods****, ©2012 Inter National Water Resources Institute, xxii, 316pp.*

The book provides in-depth scientific model adaptation results for hydrology, sediments, benefit sharing, and payment for environmental services based on detailed scientific and experimental work on the Blue Nile Basin.

UNDP-EGY, 1984. ***The operational Distribution model,*** *©1984 UNDP-EGY, (Technical Report; 2, UNDP-EGY/81/031), [110] leaves.*

The purpose of this report is to document the development history and the procedures for use of operational model. This report discusses the goals achieved by model and the future visualization and additions to the operating system.

Elfatih A. B. Eltahir, 2010. ***Flood preparedness and early warning -I Project, special study on Eta model testing and improvement for better performance: Final report; (draft), Eastern Nile Technical Regional Office (ENTRO),*** *©2010 ENTRO, 20pp.*

The objective of this study is to carry systematic inter-comparison of the rainfall simulations produced by numerical weather prediction models (Eta) used Egypt, Ethiopia, And Sudan in order to achieve inform testing and improvement of models performance.

Hassan A Abdel Ati, 2010. ***Flood preparedness and early warning - I project, enhancing existing policy in participatory voluntary resettlement policy in Sudan: final report, Eastern Nile Technical Regional Office (ENTRO),*** *©2010 ENTRO, 44pp.*

This report is based on the literature review, group discussions and interviews conducted in the River Nile, Khartoum and Sennar state, involving official and communities that accepted relocation and those who are still in their old settlements.

Jan Verkade, 2010. ***Upgrade of Sudan FEWS: System design****, ©2010 Deltares, ii, 33pp.*

This report describes the flood forecasting in Sudan and the role of the forecasting system FEWS Sudan. Also gives description of models and data that will be used in the forecasting system. Describes the forecasting process that will be incorporated in FEWS Sudan, the report ends with a number additional observations and conclusion.

M. G. F. Werner, 2010. ***Upgrade of Sudan FEWS: final report****, ©2010 Deltares, i, 64pp.*

This report briefly described the models currently integrated in Flood Early warning (FEWS) Sudan, as well as recommendations on the extension of the system once new models become available.

Mohamed Magdy Abdel Wahab, 2008. ***To: Nile Basin Initiative (NBI), final report: model setup and intelligent use of model products, implementation, calibration and training for rainfall forecasting in Ethiopia and Sudan, Eastern Nile Technical Regional office (ENTRO),*** *©2008 ENTRO, 85pp.*

This report includes: identification data needs and preparation of a list of data required to operate the model, as well as needed historical cases to calibrate and validated the model and also means for collecting data and filling missing gaps. Assess availability of data at ENTRO or variety of other sources, identify data gaps and propose mechanism on how to overcome this data related constraint. Identify detail model setup and hardware requirements and specification, as well as communication requirements to operationally run the model. Key locations where detail output will be displayed.

Mohy el Deen El Tohami Taha, [2010]. ***Flood preparedness and early warrning - I project, flood early warning survey in Sudan: final report, Eastern Nile Technical Regional Office (ENTRO),*** *©[2010] ENTRO, iv, 52pp.*

This report is based on the literature review, and the field survey conducted at the national and state level, covered Khartoum and Sennar using different data collection methods.

Mulugeta Tadesse, 2011. ***Flood preparedness and early warning (FPEW I) project, development of knowledge base for FPEW, volume I : final report , Eastern Nile Technical Regional Office (ENTRO), GIZ Deutsch Gesellschaft,*** *©2011 ENTRO, 59pp.*

This report provides an overview of the activities that have been done in knowledge base development.

Mulugeta Tadesse, 2011. ***Flood preparedness and early warning (FPEW I) project, development of knowledge base for FPEW, volume II : knowledge base documentation, Eastern Nile Technical Regional Office (ENTRO), GIZ deutsch Gesellschaft,*** *©2011 ENTRO, 86pp.*

The document provides complete documentation and reference to FPEW knowledge base that presents the structure of knowledge resources which are organized into directory structures; brief description of documents and document containing folders; Geodatabase and metadata; tools and models.

DEVELOPMENT PARTNERS

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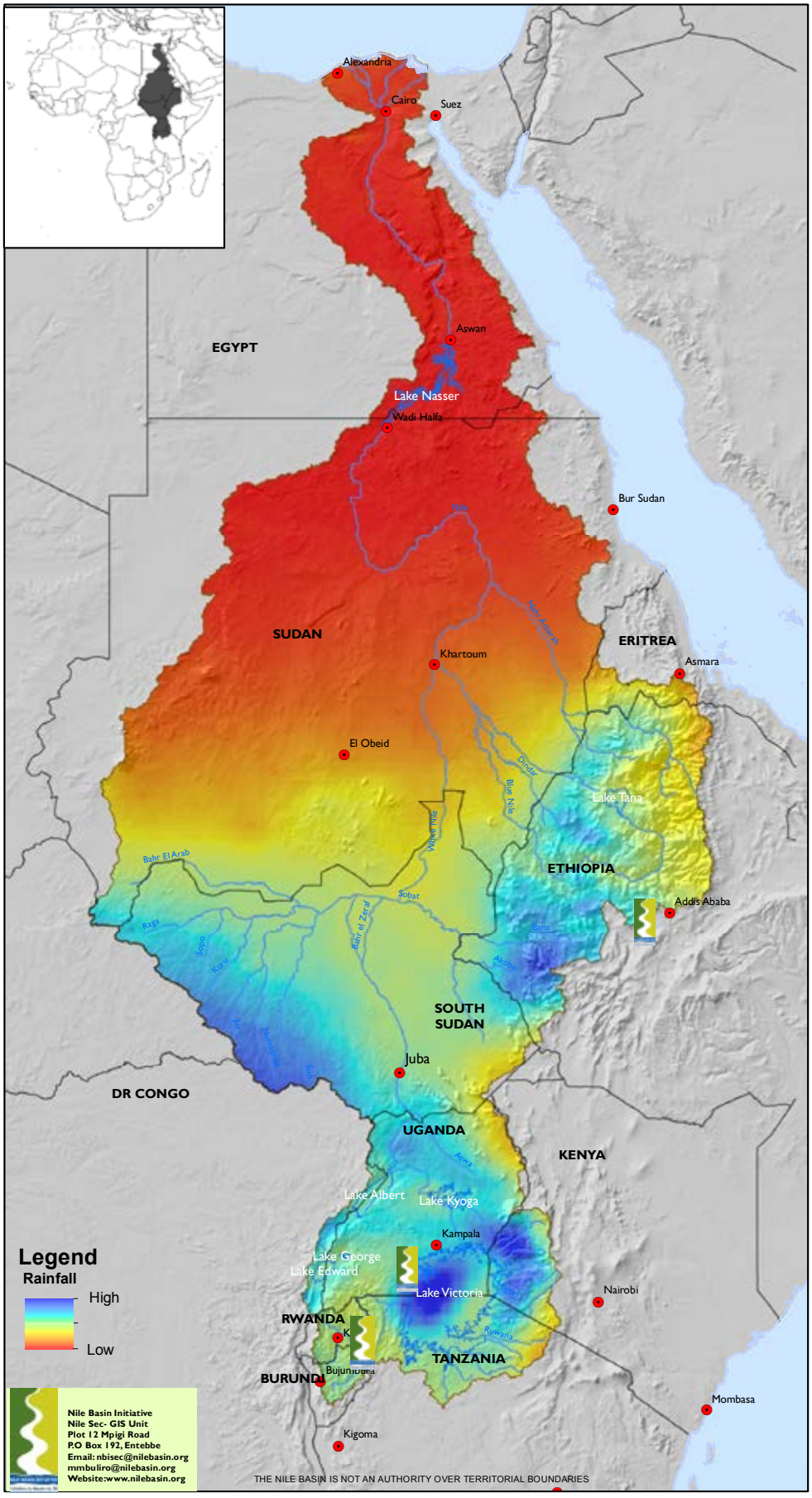
AVERAGE ANNUAL RAINFALL IN THE NILE BASIN



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