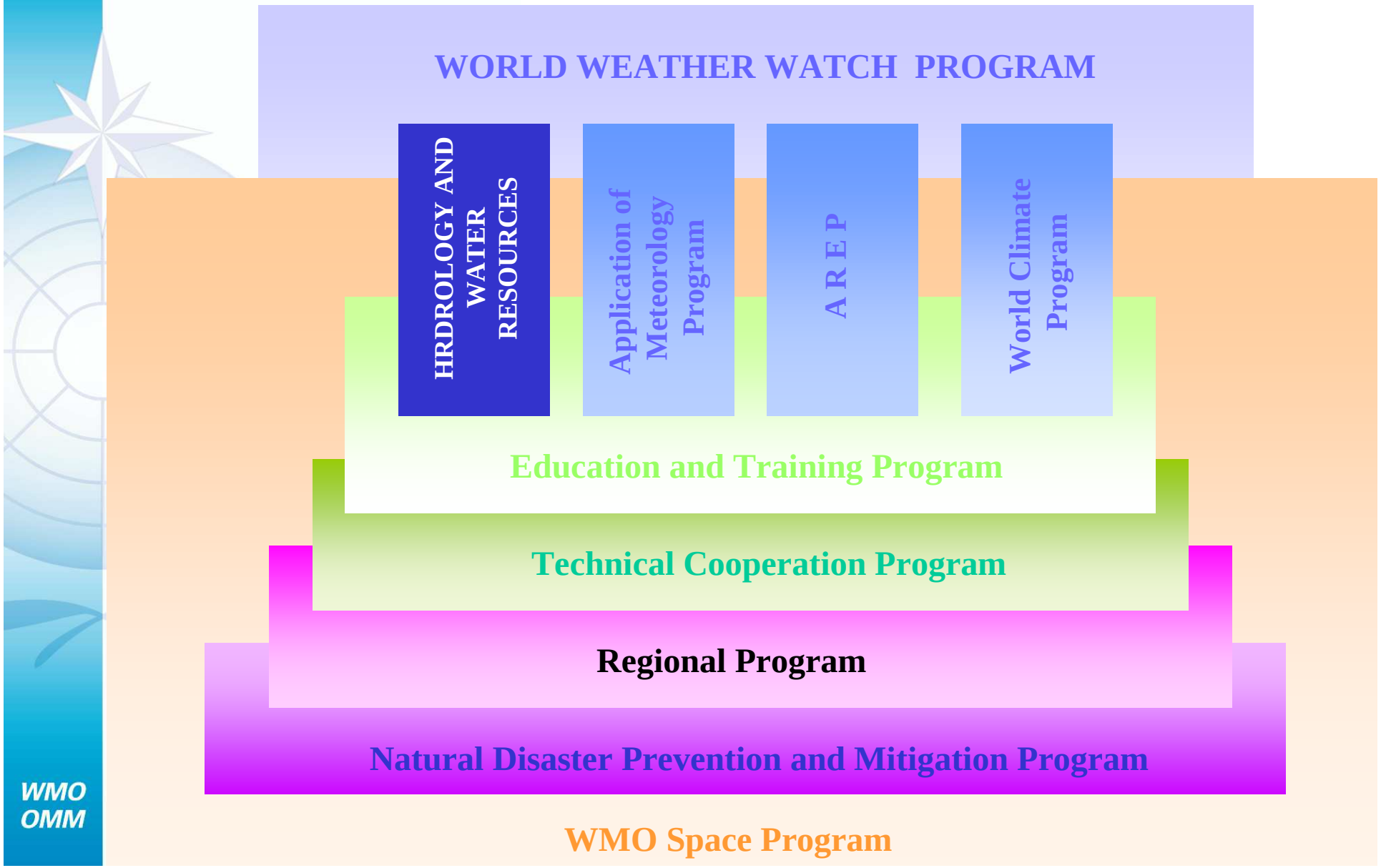
WMO VISION

……..To contribute to the safety and well being of people through out the world and economic benefit of all nations…..



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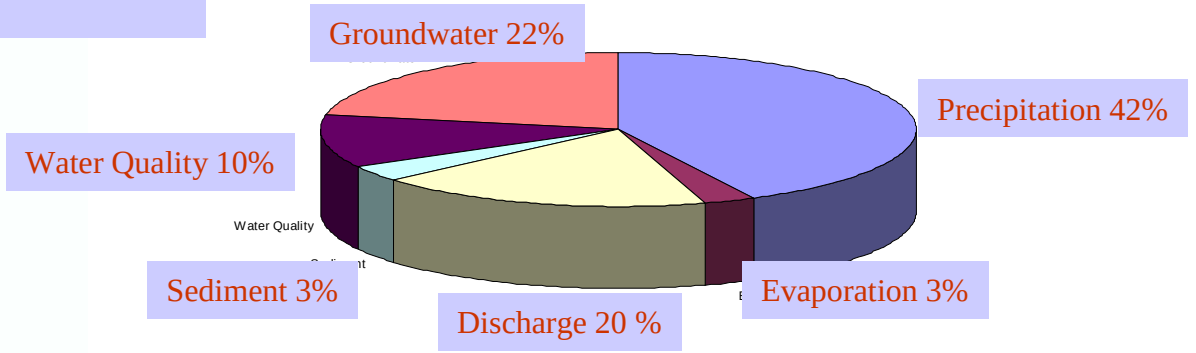
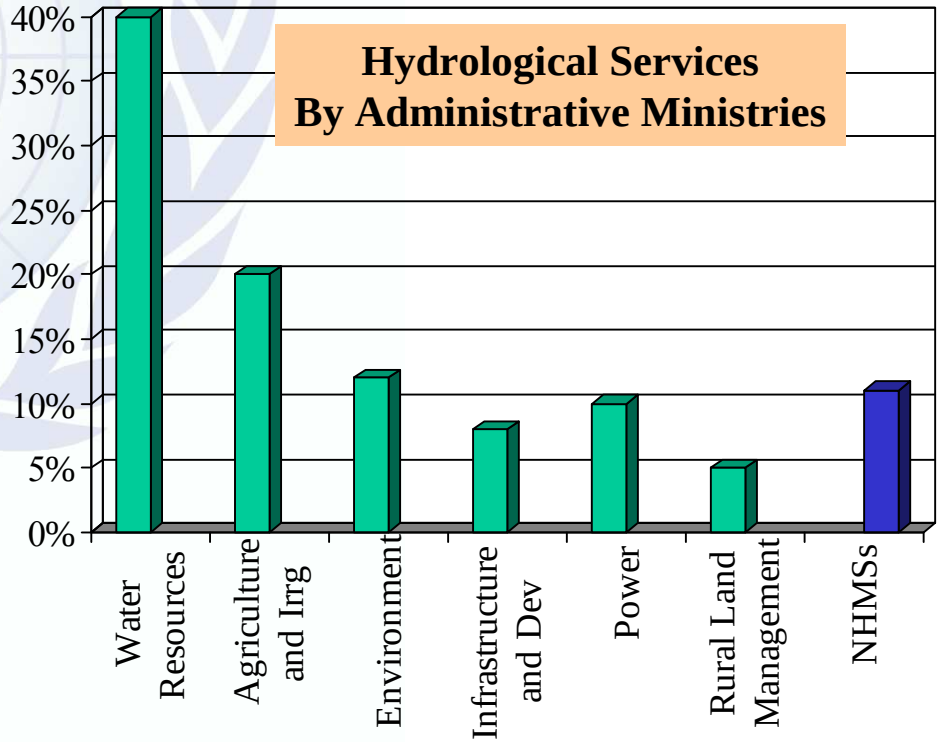
HYDROLOGY AND WATER RESOURCES IN MEMBER COUNTRIES

An agency or a group of agencies, which collect, process and disseminate hydrological related data, products and information

Hydrological Networks





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PROGRAMME HIGHLIGHTS

OBJECTIVES

Sustainable Development

Environmental Management

Prevention of water Related Disasters

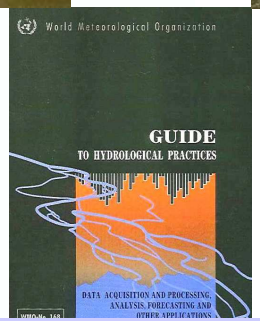
HWRP

Forecasting and Applications

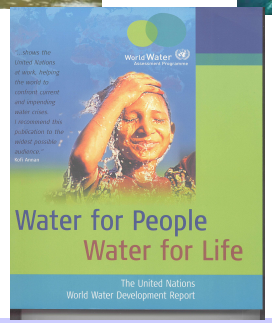
Basic System

Sustainable Development

PROGRAMS



CAPACITY BUILDING



WATER RELATED ISSUES

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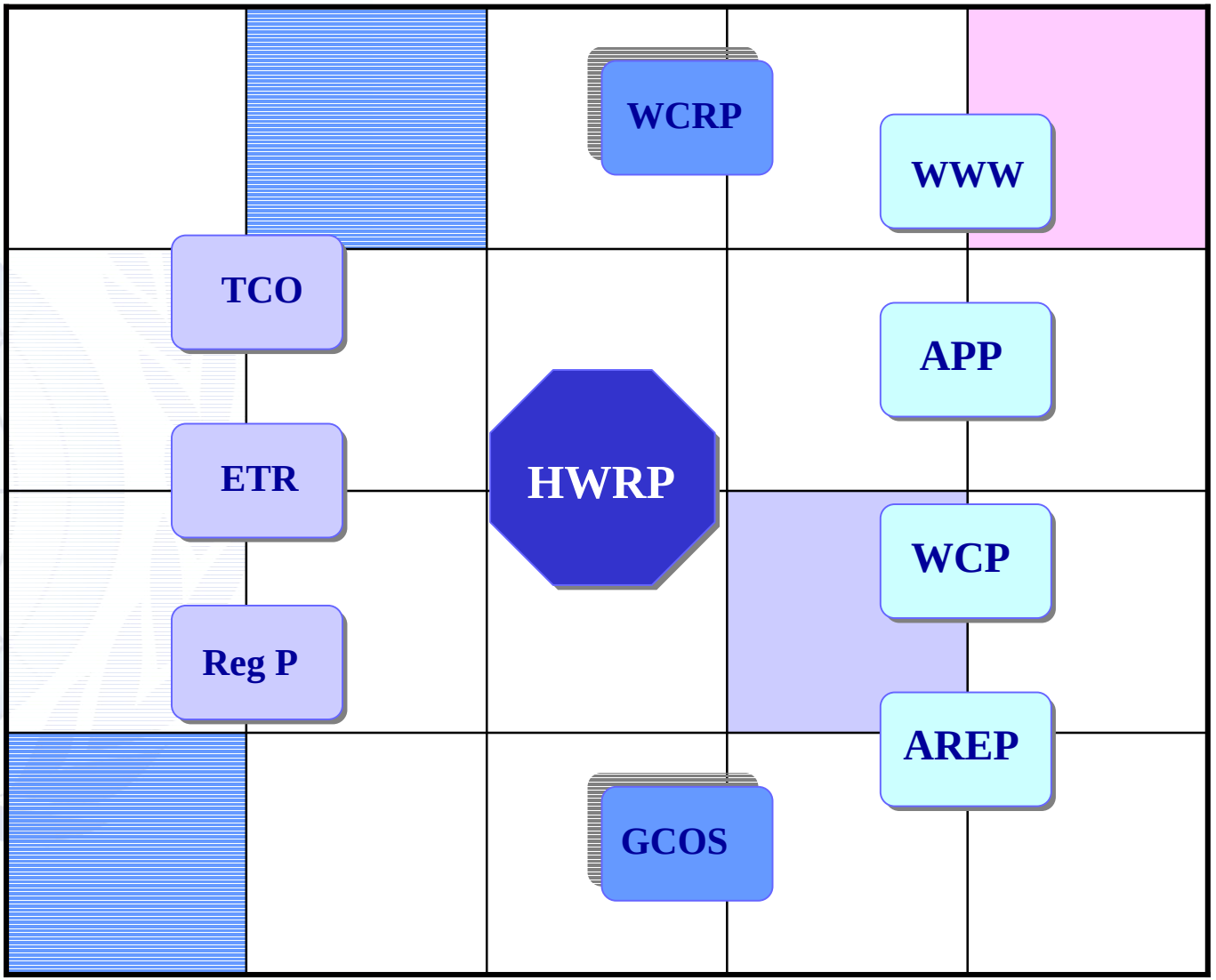
Working togather with other WMO Programmes



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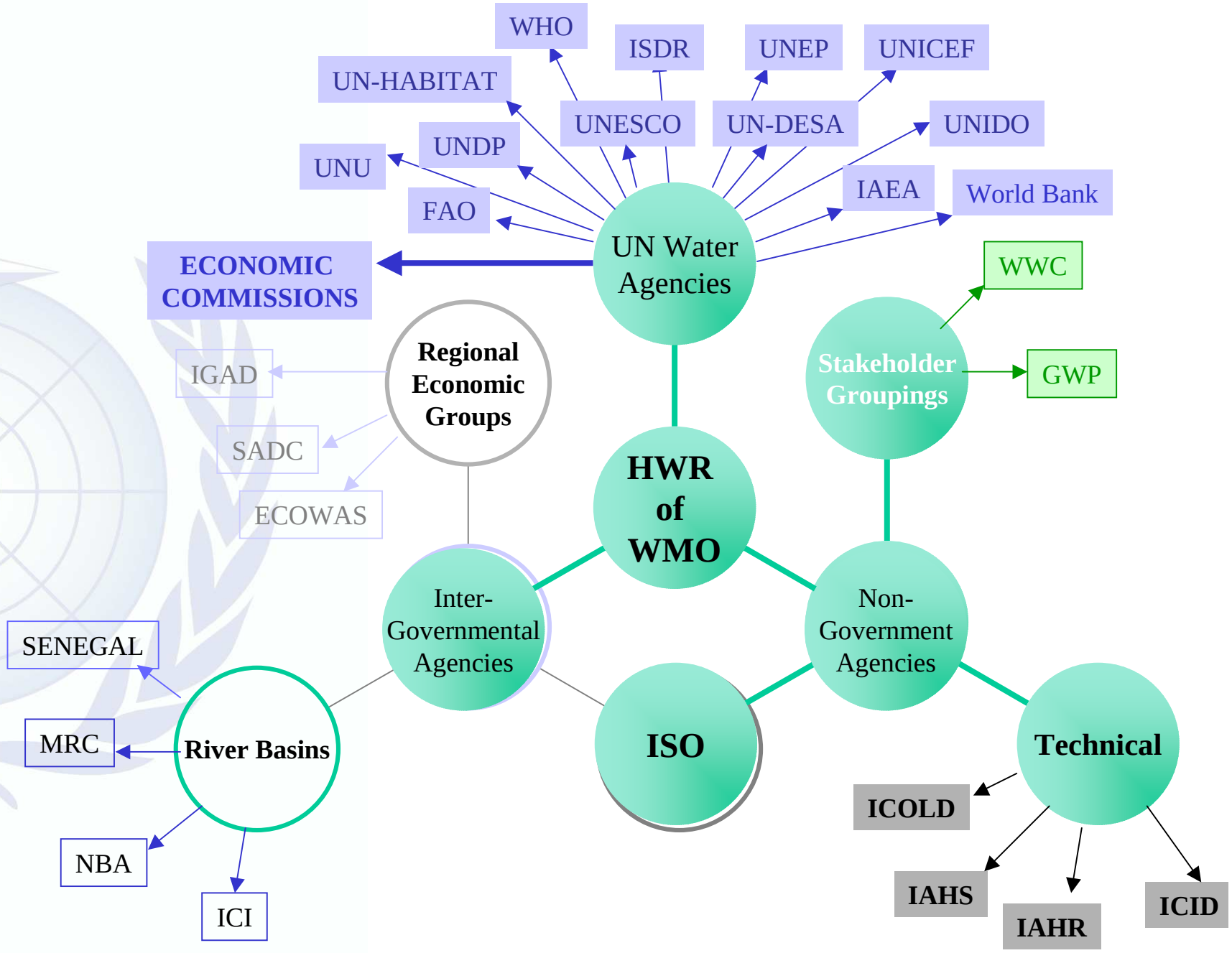
WATER IN THE UN SYSTEM



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WHYCOS

PROGRAMME HIGHLIGHTS

World

Hydrological

Cycle

Observing

System

Projects completed

Med-HYCOS (2001)

SADC-HYCOS (2001)

AOC-HYCOS (2002)

Niger-HYCOS
Volta-HYCOS
SADC Phase II

IGAD-HYCOS
Mekong-HYCOS
HKH-HYCOS

CARIB **PACIFIC** **ARCTIC** **BALTIC**

HOMS

The WMO System for Technology Transfer In Hydrology

Components

Hydrological

Operational

Multipurpose

System

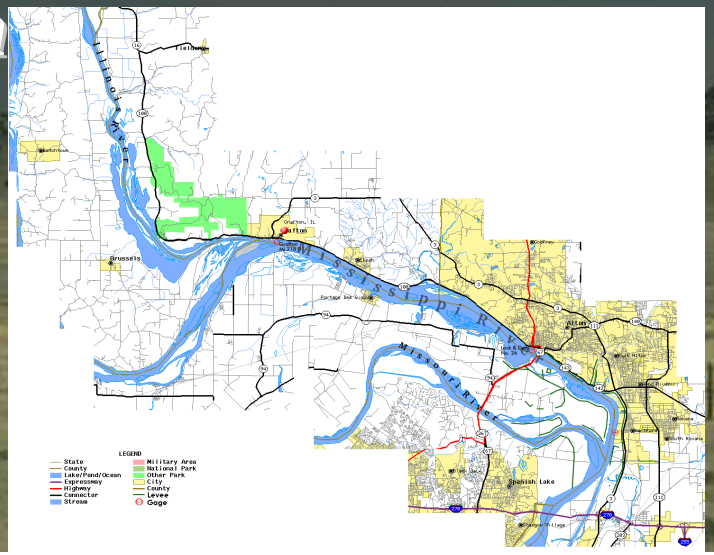
Instrumentation

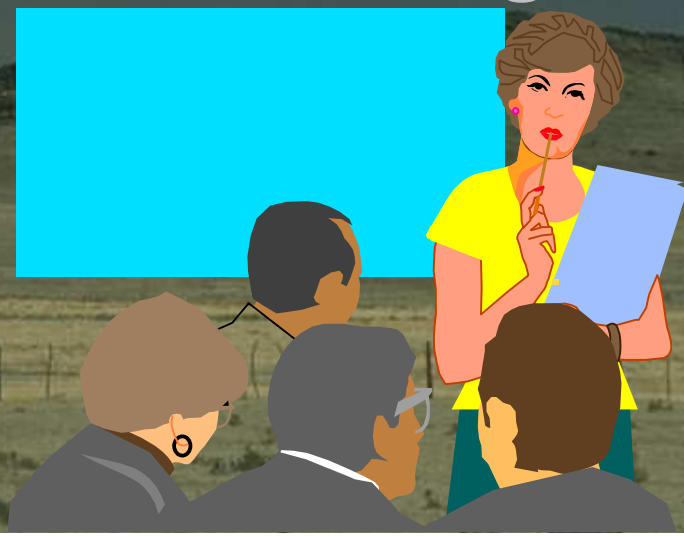
Data base Management

Computational Models

Standards

Training Activities





PROGRAMME HIGHLIGHTS

Associated Program on Flood Management

Integrated Flood Management

ADVOCACY

Key Paper

Supplementary papers

IFM Concept Paper

-states objective, basic principles, important approaches of IFM

Environmental Aspects

Legal Aspects

Economic Aspects

Social Aspects

PILOT STUDIES

South Asia
Kenya
La Plata
Central Europe
Central America

CASE STUDIES

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COMMUNICATION GAP

Between meteorological and hydrological services

Meteorological information and forecasts are often not provided in a form usable for hydrological forecasting,

Non-standardized data archiving, data formats and transmission protocols severely limit timely access to data and information,

Use of different forecasting concepts, methods and technical language,

Between forecasters and forecast users

Forecasting is often not objective-driven; different users of forecasting information require specific forecasting products,

Use technical vocabulary in forecast and warning dissemination

The Flood Forecasting Initiative

Improve the capacity of meteorological and hydrological services to jointly deliver timely and more accurate products and services required in flood forecasting and warning and in collaborating with disaster managers.

Outreach process (1)….

Formulation of guiding materials for the improved cooperation between meteorological and hydrological services and regional bodies and organizations. Guidelines could contain recommendations on the institutionalization of joint activities, harmonization and standardization of communication protocols and data formats, choices in processing procedures, modelling and interpretation of results, dealing with probability and uncertainty in forecasting, development of joint forecasting products.

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Outreach Process (2)…

Pilot projects with a high visibility to demonstrate the value of cooperation between meteorological and hydrological services and the use of advanced meteorological forecasting and prediction outputs including the use of NWP and ensemble forecasting where appropriate.

Fostering twinning agreements between NMHSs with the objective of sharing know how and technology in improved cooperation and the development and use of advanced forecasting products and their dissemination is a promising option in many parts of the world.