



International Co-operation in the field of conservation and wise use of wetlands UNESCO IHP





IHP-V

UNESCO MAB Sub-programme: „Role of Land/Inland Water Ecotones in Water Management and Restoration”



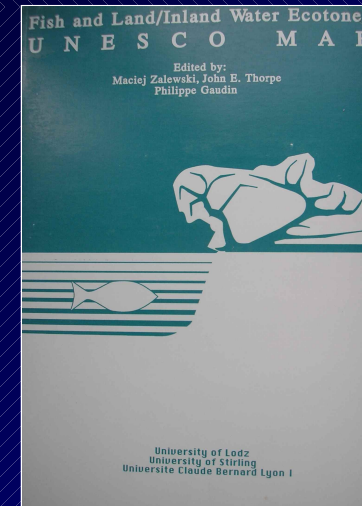
Naiman R.J., H. Decamps, F. Fournier (red.). 1989. The role of land/inland water ecotones in landscape management and restoration: a proposal for collaborative research. MAB Digest 4. UNESCO. Paris.

Schiemer ,F., M. Zalewski, J.H. Thorpe (eds.) 1995. The Importance of Aquatic-Terrestrial Ecotones for Freshwater Fish. "Developments in Hydrobiology" 105 ; Hydrobiologia 303: 1-3. 278 pp.

Zalewski, M., W. Puchalski, P. Frankiewicz, B. Bis. 1994. Riparian ecotones and fish communities in rivers - intermediate complexity hypothesis. In: I. Cowx, ed. Rehabilitation of Freshwater Fisheries. Fishing New Books, Blackwell. Oxford, 152-160.

Schiemer, F., M. Zalewski.1992. The importance of riparian ecotones for diversity and productivity of riverine fish communities. Netherlands Journal of Zoology. 42: 323-335.

Zalewski, M., J.E. Thorpe, P. Gaudin.(eds.) 1991. Fish and Land/inland Water Ecotones UNESCO MAB. Univ. Lodz, Stirling & Lyon. 102 pp.





IHP-VI, 2002-2007

Water Interactions: Systems at Risk and Social Challenges

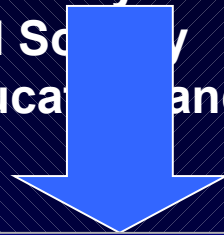
Theme 1 - Global Changes and Water Resources

Theme 2 - Integrated Watershed and Aquifer Dynamics

Theme 3 - Land Habitat Hydrology

Theme 4 - Water and Society

Theme 5 - Water Education and Training



Wetlands are identified as particular areas of concern, because they play an essential ecological role in a predominantly water-determined environment. Wetlands are increasingly endangered by both pollution and land reclamation. Water interactions are not well known in wetlands, thus additional efforts are needed both for preservation and rehabilitation purposes.



IHP-VII (2008 – 2013) Water Dependencies: Systems under Stress and Societal Responses

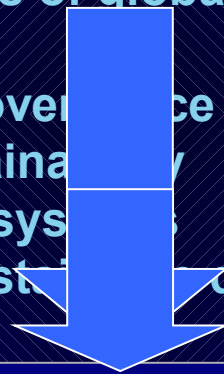
Theme 1 – Adapting to the impacts of global changes on river basins and aquifer systems

Theme 2 - Strengthening water governance for sustainability

Theme 3 - Ecohydrology for sustainable development

Theme 4 - Water and life support systems

Theme 5 - Water education for sustainable development



Focal area 1.4 - Managing groundwater systems' response to global changes

Objectives

Solutions with ecological biotechnologies

Focal area 3.3 - Risk-based environmental management and accounting

Focal area 3.4 - Groundwater-dependent ecosystems identification, inventory and assessment



Demonstration Projects on ECOHYDROLOGY UNESCO IHP





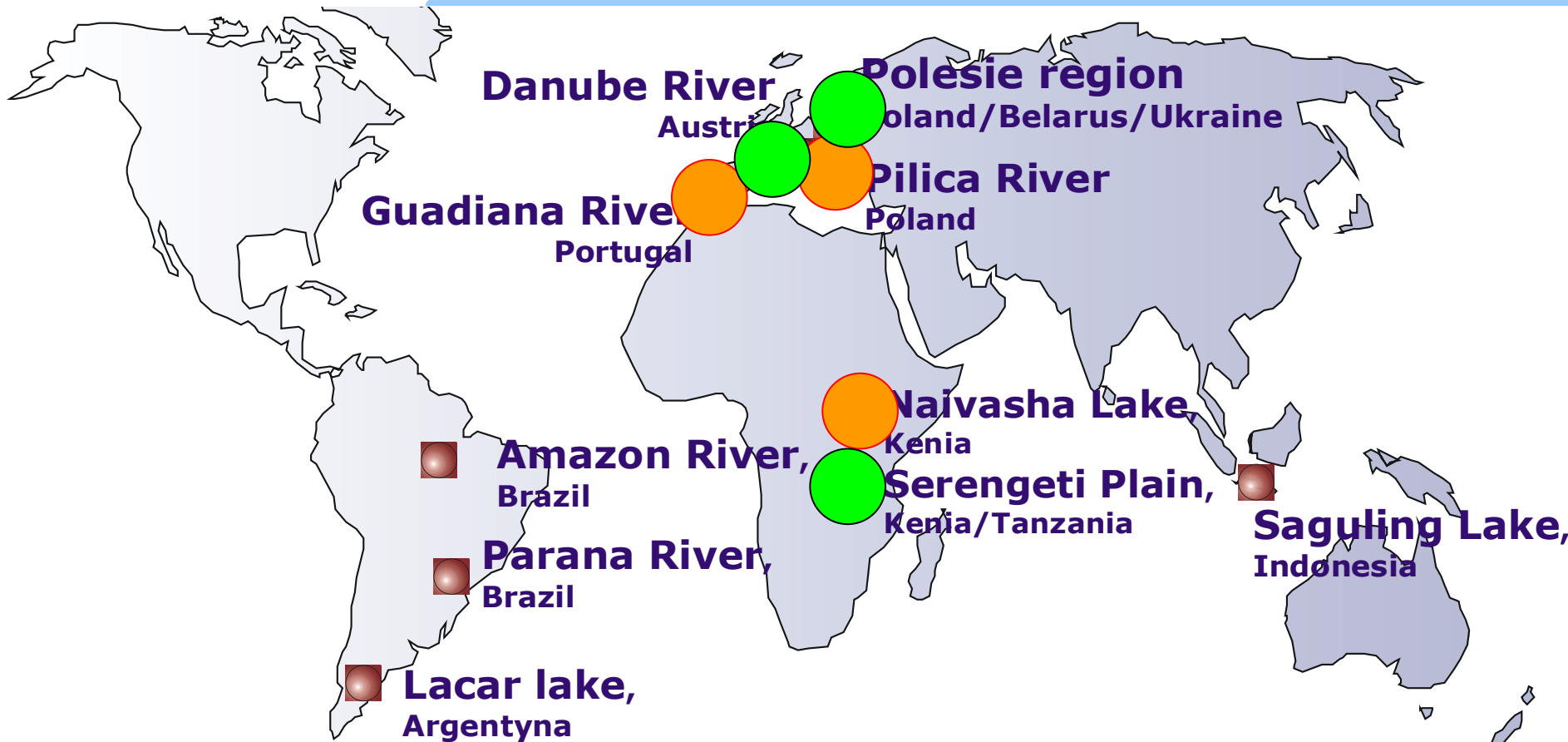
GOALS ADDRESSED

- demonstrating the application of the ecohydrology approach to solve issues surrounding water, environment and people;
- contributing to the development of research on ecohydrology and to the increase in scientific knowledge to implement integrated watershed management and identify solutions to sustainable development in ecological and social systems in which water acts as a main driver; and
- validation, both in qualitative and quantitative terms, of the effectiveness of the ecohydrology approach in practice, based on the Ecohydrology Project SAC and IHP recommendations.

Joint IHP-MAB Main Line of Action 4 for 2004 – 2005 of Subprogramme II.1



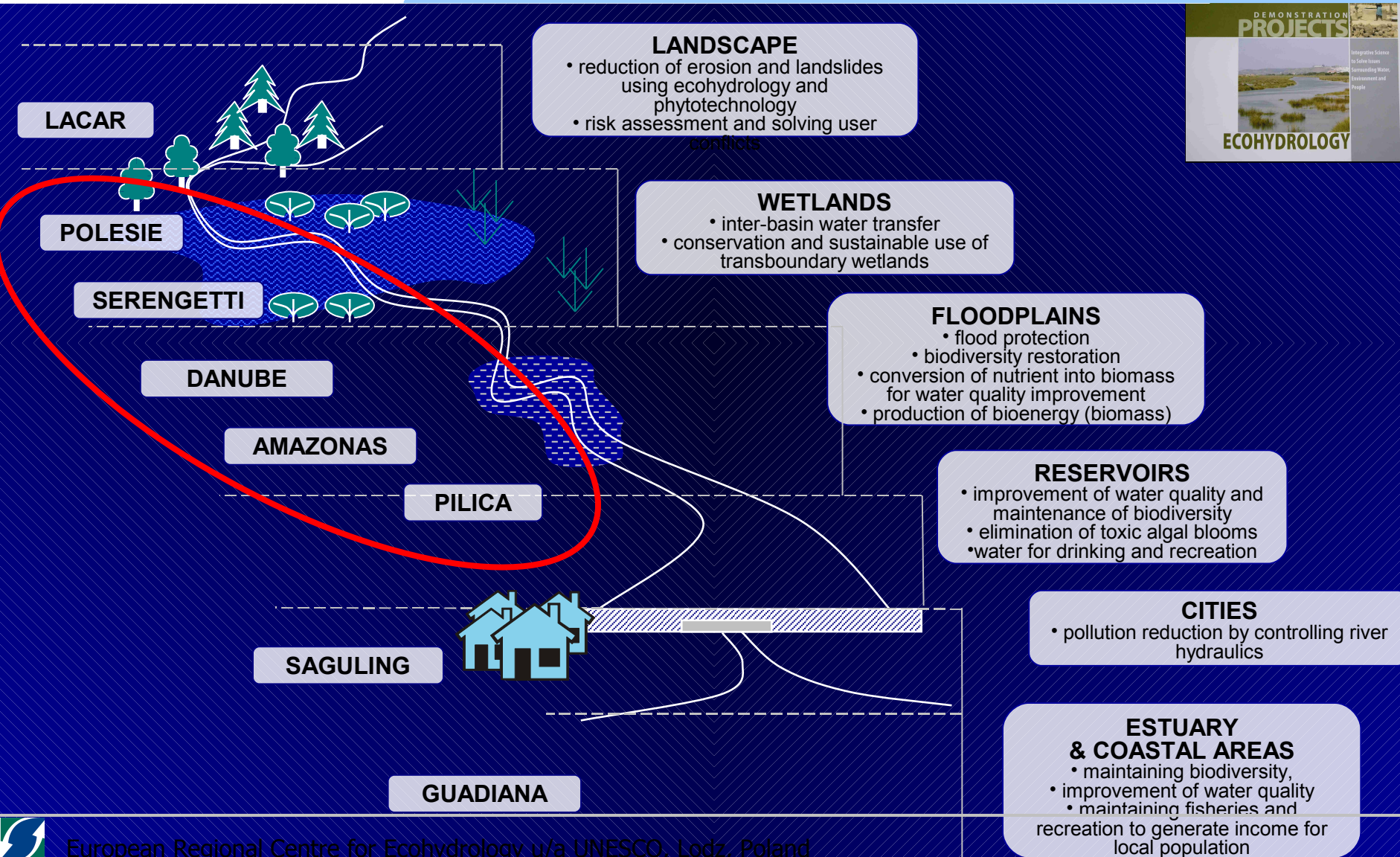
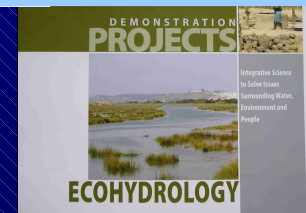
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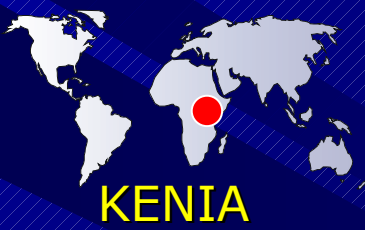


 **HELP BASINS**

 **MAB RESERVES**







IMPACTS

KENIA

In the inflow delta the Malewa has cut down through alluvial sediments as the water table remains at lake level, *C. papyrus* dries as river no longer spreads out.



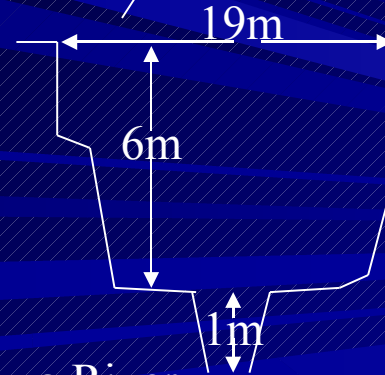
Earlier channels as river branched through papyrus swamp

West

East

Malewa is 4-6 m below land surface in areas that used to be Swamp

Malewa River

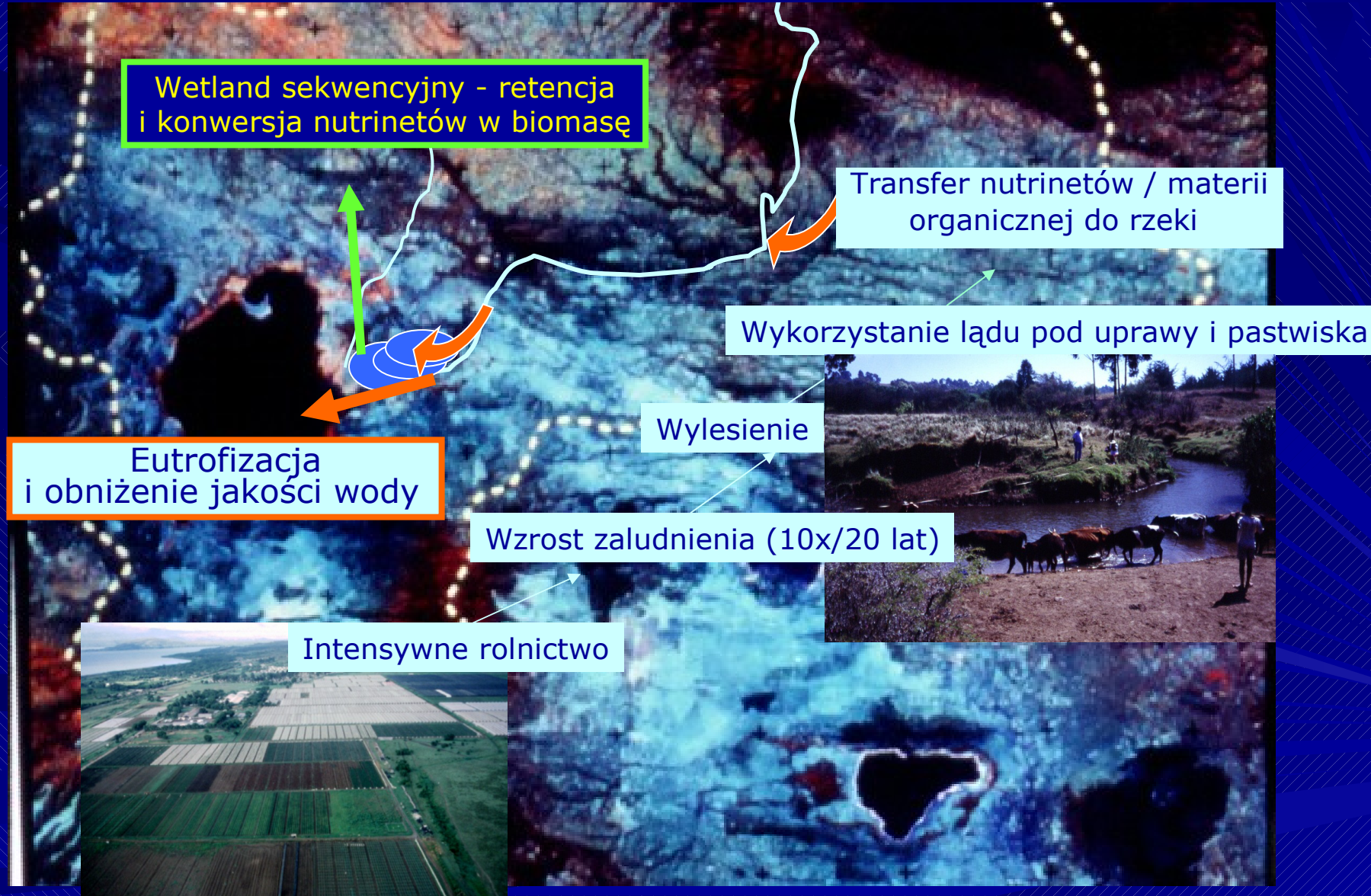




KENIA

Reduction of eutrophication by conversion of nutrients and sediment into biomass for sustainable use and biodiversity restoration

Naivasha Lake



BRASIL

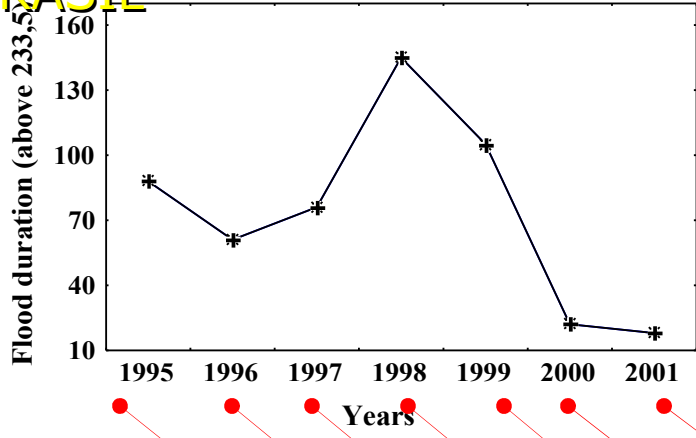




Flood duration x juveniles abundance

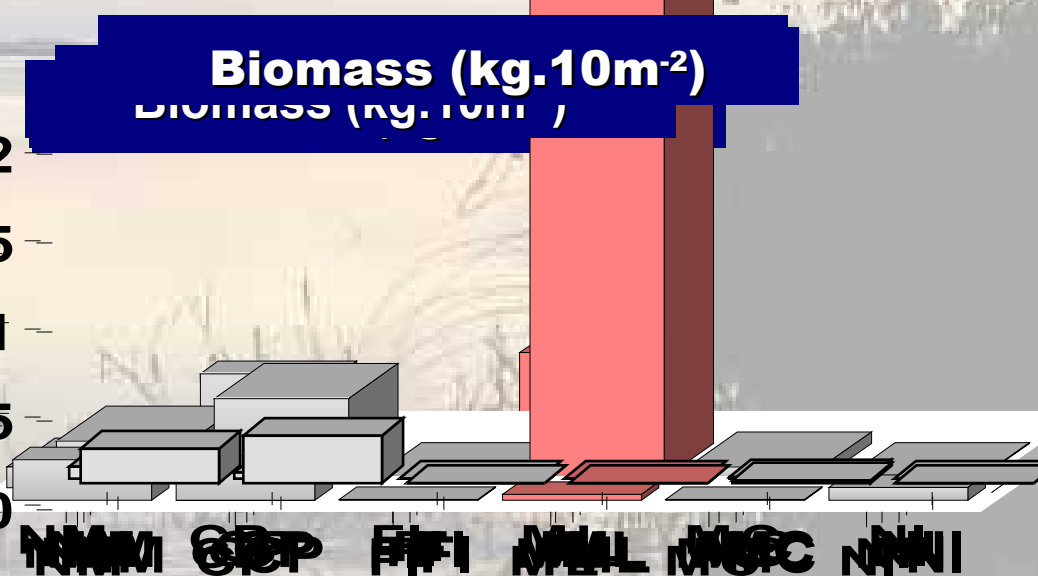
Biomass (kg.10m⁻²)

BRASIL



6
5
4
3

Biomass (kg.10m⁻²)



Reproductive strategies



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ERCE Opening Symposium



Opening Symposium of the
European Regional Centre for Ecohydrology
under the auspices of UNESCO

31st May 2006
ERCE, Poland



A vertical banner for the ERCE opening symposium. It features the UNESCO logo at the top, followed by the text 'European Regional Centre for ECOHYDROLOGY under the auspices of UNESCO POLISH ACADEMY OF SCIENCES'. Below this is the ERCE logo. At the bottom, it says 'OPENING SYMPOSIUM Programme' and features a large, stylized 'ERCE' acronym over a landscape image of a river and forest.





Education and Training



- **Advance Study Courses**

(Austria, Croatia, Hungary, Italy, Poland, Portugal)

- **Scholarships and students exchange, post-graduate scholarships**

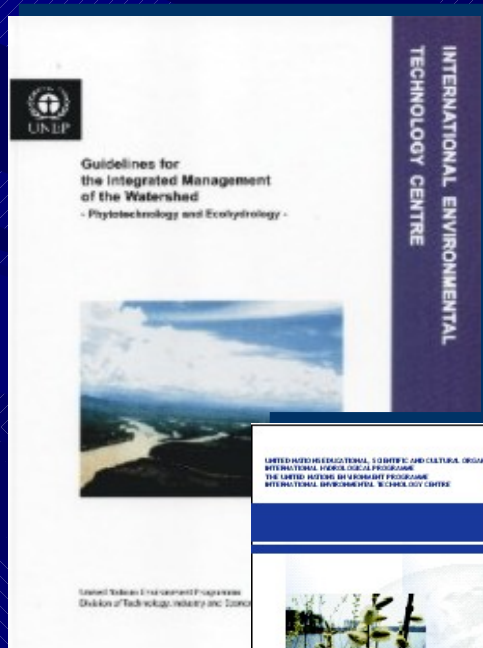
(Australia, Belarus, Brazil, Ethiopia, France, Greece, Ireland, Kenya, DR Congo, Mali, Morocco, Nigeria, Portugal, Turkey, UK, Ukraine and others);

- **University Curriculum** (classes for students of the University of Lodz, Faculties of: Geography, Biology, Environment Protection)



Guidelines for the Integrated Management of the Watershed -Phytotechnology and Ecohydrology", UNEP/UNESCO 2002

<http://www.unep.or.jp/ietc/publications/Freshwater/FMS5>



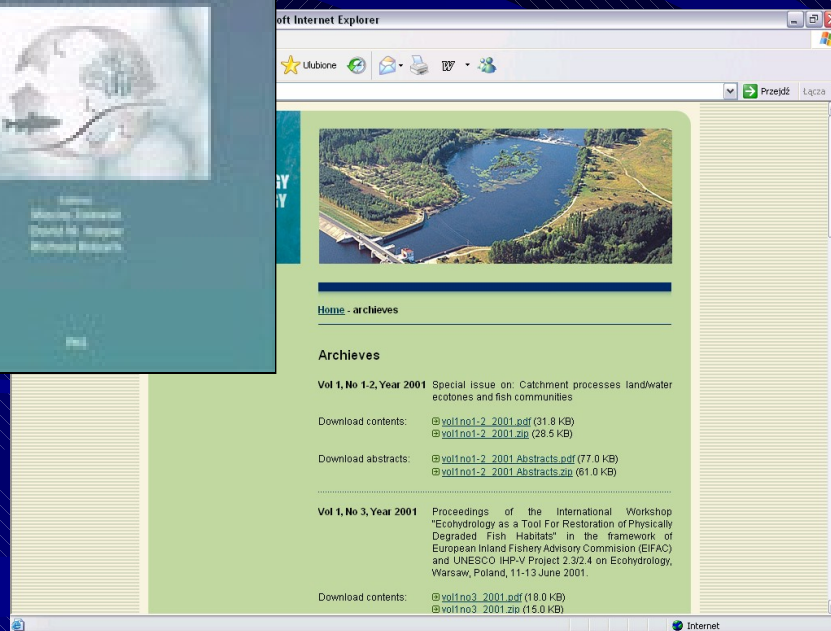
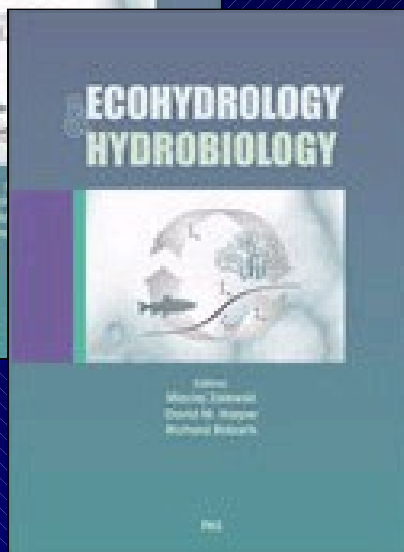
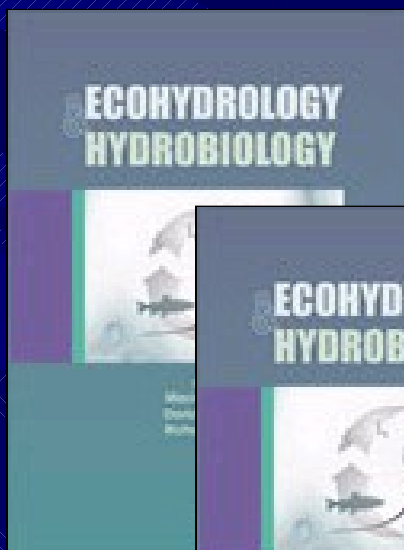
Integrated Watershed Management - Ecohydrology & Phytotechnology - Manual UNESCO/UNEP, 2004

http://www.unep.or.jp/ietc/Publications/Water_Sanitation/integrated_watershed_mgmt_manual



International Journal Ecohydrology & Hydrobiology

Launched in 2001
PL ISSN 1642-3593



<http://www.ecohydro.pl/>

“Masters Course in Environmental Evaluation of Hydrologic Systems – Ecohydrology”



Universidad Nacional de La Plata
Facultad de Ciencias Naturales y Museo
y Facultad de Ingeniería

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Wstecz Wyszukaj Ulubione

Adres <http://www.ing.unlp.edu.ar/ecohidrologia/home.htm> Przejdz Norton AntiVirus

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eco hidrología

Maestría en evaluación ambiental de sistemas hidrológicos



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- Ficha de inscripción
- Sitios recomendados
- Acceso al entorno de usuario

Fundamentos

Es escasa en Argentina y Latinoamérica en general la actividad de formación de postgrado en el tema específico que suscita esta propuesta.

En nuestro país se asiste hoy en día a una profusa oferta de especializaciones y maestrías en los temas ambientales, en su mayoría carente de contenido académico o a cargo de instituciones sin trayectoria en las actividades de postgrado.






Suele suceder entonces que los egresados de una maestría reciben un diploma que en la práctica real no es reconocido o apreciado por su capacitación.

Una verdadera Maestría tiene como objetivo proporcionar formación superior en el área de una disciplina científica o en interdisciplina, profundizándola en el desarrollo teórico, tecnológico, profesional, para la investigación, el estudio y adiestramiento en los temas involucrados.

La formación debe completarse con la presentación individual de un trabajo de Tesis, creativo y que demuestre la destreza en el manejo conceptual y metodológico correspondiente al estado actual del conocimiento en las áreas disciplinares o interdisciplinares del caso. Conduce al otorgamiento de un título Académico de Magister con especificación precisa del área disciplinaria o interdisciplinaria que incluye.

En nuestro caso específico, se trata indudablemente de una capacitación de interdisciplina, necesaria para un país altamente dependiente de sus recursos hídricos. El ordenamiento hídrico, la construcción de obras civiles e hidráulicas, la explotación de los recursos subterráneos para abastecimiento público, industria o agricultura no pueden prescindir en el mundo moderno de la necesaria componente ambiental, en la fase preventiva o de proyectos.

Por otra parte el agua es receptor universal de la contaminación



University of La Plata, Argentina



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UNESCO IHP HEADQUARTER

International Hydrological Programme (IHP)
UNESCO/Division of Water Sciences (SC/HYD)

1 rue Miollis

75732 Paris Cedex 15

FRANCE

Tel : +33 1 45 68 40 01

Fax: +33 1 45 68 58 11

Email: ihp@unesco.org

Programme officer: Mrs Lisa Hiwasaki

<http://www.unesco.org/water/>



United Nations Educational,
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Regional Offices for UNESCO

Africa

UNESCO Nairobi Office

Mr. Emmanuel Naah

PO Box 30592

Nairobi, Kenya

Tel.: + 254 20 62 23 51

Fax: + 254 20 21 59 91

e.naah@unesco.org

Europe

UNESCO Venice Office

Mr. Philippe Pypaert

Castello 4930

Palazzo Zorzi

30122 Venice, Italy

Tel.: + 39 41 520 07 97

Fax: + 39 41 528 99 95

p.pypaert@unesco.org

South and Central Asia

UNESCO New Delhi Office

Mr. Bhanu Neupane

B 5/29 Safdarjung Enclave

New Delhi 110029, India

Tel.: + 91 11 671 3000

Fax: + 91 11 671 3001 / 3002

b.neupane@unesco.org

Arab States

UNESCO Cairo Office

Mr. Radwan Al-Weshah

8 Abdel Rahman Fahmy St

Garden City

Cairo 11511, Egypt

Tel.: + 202 794 30 36 / 5599

Fax: + 202 794 52 96

r.weshah@mail.unesco.org.eg

Latin America and the Caribbean

UNESCO Montevideo Office

Ms. María Concepción Donoso

Edificio MERCOSUR

Calle Dr. Luis Piera 1992, 2° piso

PO Box 859

11200 Montevideo, Uruguay

Tel.: + 598 2 413 20 75

Fax: + 598 2 413 20 94

phi@unesco.org.uy

Southeast Asia and the Pacific

UNESCO Jakarta Office

Mr. Giuseppe Arduino

UNESCO House

Jalan Galuh (II), No. 5

Kebayoran Baru

P.O. Box 1273/JKT

Jakarta Selatan 12110, Indonesia

Tel.: + 62 21 739 9818

Fax: + 62 21 7279 6489

g.arduino@unesco.org



United Nations Educational,
Scientific and Cultural organization



**European Regional Centre for Ecohydrology
3, Tylna Str**

90-364 Lodz, Poland

+48 (42) 681 70 07

mcepan@mcepan.lodz.pl

www.mcepan.lodz.pl

www.erce.unesco.lodz.pl



under the auspices of
International Hydrological Programme
UNESCO

19-23 MAY 2008, LODZ, POLAND

INTERNATIONAL CONFERENCE

Ecohydrological Processes and Sustainable Floodplain Management

Opportunities and Concepts for
Water Hazard Mitigation,
and Ecological and Socioeconomic
Sustainability

