Universität für Bodenkultur Wien
Department für Wasser-Atmosphäre-Umwelt

Department of **Water, Atmosphere and Environment**

Science on Order of the Environment

Facts and Figures (I) of BOKU Vienna

Universität für Bodenkultur Wien
Department für Wasser-Atmosphäre-Umwelt

Students: 11.500

Scientific staff: ~1.200 (850 financed by projects)

Other staff: 430

Teaching, research and administrative facilities are located throughout Vienna at 20 different sites. Most of them are in the green districts – the 18th and 19th district – and are readily accessible by public transportation.

BOKU main building: A-1180 Vienna, Gregor Mendel-Strasse 33

Facts and Figures (II) of BOKU Vienna

Universität für Bodenkultur Wien
Department für Wasser-Atmosphäre-Umwelt

Total budget: ~ EUR 100 mio.

External funds (2011): EUR 33 mio.

Number of ongoing projects: 750

Scientific publications (2011): ~2500

Co-operation contracts with partner companies and universities world-wide: 331

Major sites of BOKU

Universität für Bodenkultur Wien
Department für Wasser-Atmosphäre-Umwelt

Vienna,
Türkenschanze,

Muthgasse

Universität für Bodenkultur Wien
Department für Wasser-Atmosphäre-Umwelt

The key priorities of the Department in research and education are undoubtedly in the area of water and water bodies. The qualitative and quantitative aspects of the water cycle, hydrological processes, soil-water-plant-atmosphere interactions, including soil physical aspects, soil water management and engineering, soil and water conservation, water supply, water distribution and use, water resources planning and decision making, hydropower engineering, waste water management (waste water treatment), solid waste management, but also protection of natural water resources and hydraulic engineering, river morphology and sediment transport, water quality, hydrobiology and aquatic ecosystem issues as well as river restoration concepts and restoration ecology are themes of research in the Department.

In Austria there is no organisation which can offer a broader scope on 'water' in teaching and research.

Another current priority regards climate change. The Department plays a central role in Austrian climate change research, as well with regard to research activities as with coordination. It is obvious that climate change research not only will bring the department's units together in joint research activities, but will also create strong bonds to other BOKU Departments and beyond.

Department WAU

Universität für Bodenkultur Wien
Department für Wasser-Atmosphäre-Umwelt

Institutes

Sanitary Engineering and Water Pollution Control (SIG)
Mr. Univ.Prof. Dipl.Ing. Dr. Raimund HABERL
Waste Management (ABF-BOKU)
Mrs. ao.Univ.Prof. Dipl.Ing. Dr. Marion HUBER-HUMER
Meteorology (BOKU-Met)
Mrs. O.Univ.Prof. Dr. Helga KROMP-KOLB
Hydraulics and Rural Water Management (IHLW)
Mr. Univ.Prof. Dipl.Ing. Dr. Willibald LOISKANDL
Water Management, Hydrology and Hydraulic Engineering (IWHW)
Mr. Univ.Prof. Dipl.Ing. Dr. Helmut HABERSACK
Hydrobiology and Aquatic Ecosystem Management (IHG)
Mr. ao.Univ.Prof. Dipl.Ing. Dr. Stefan SCHMUTZ
Safety- and Risk Sciences (ISR)
Mr. ao.Univ.Prof.i.R. Dr. Wolfgang KROMP

Universität für Bodenkultur Wien
Department für Wasser-Atmosphäre-Umwelt

3 Locations

Muthgasse 18

Sanitary Engineering and Water Pollution Control (SIG)
Mr. Univ.Prof. Dipl.Ing. Dr. Raimund HABERL

Water Management, Hydrology and Hydraulic Engineering (IWHW)
Mr. Univ.Prof. Dipl.Ing. Dr. Helmut HABERSACK **(Extension in Muthgasse 107)**

Hydraulics and Rural Water Management (IHLW)
Mr. Univ.Prof. Dipl.Ing. Dr. Willibald LOISKANDL **(Großenzersdorf)**

Muthgasse 107

Waste Management (ABF-BOKU)
Mrs. ao.Univ.Prof. Dipl.Ing. Dr. Marion HUBER-HUMER

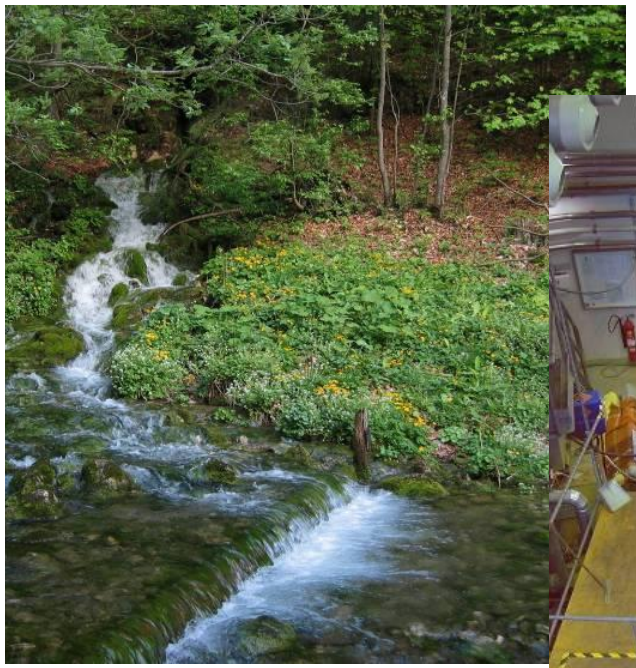
Türkenschanze

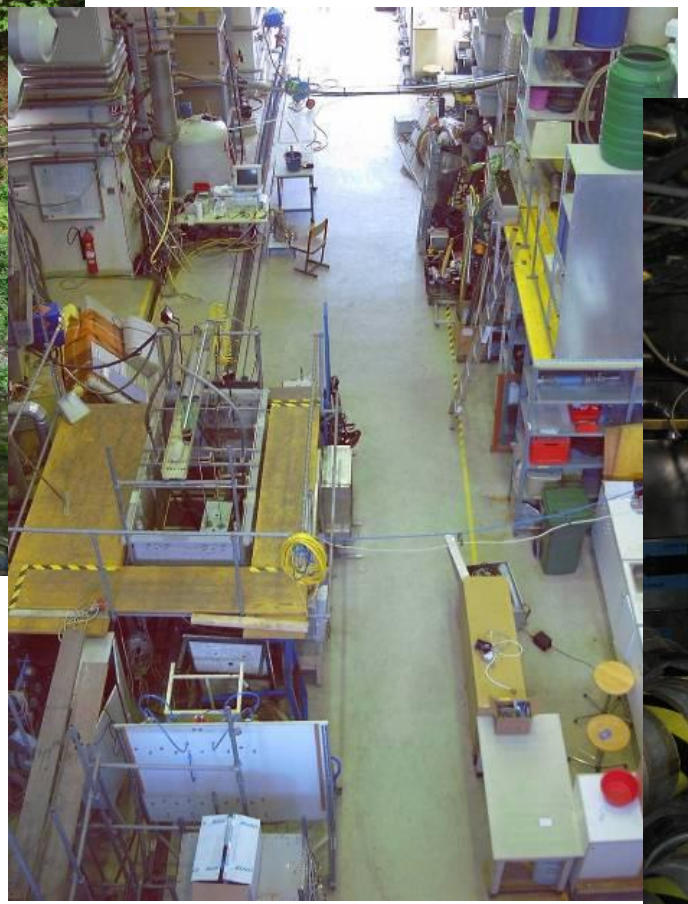
Meteorology (BOKU-Met)
Mrs. O.Univ.Prof. Dr. Helga KROMP-KOLB **(Exnerhaus)**

Hydrobiology and Aquatic Ecosystem Management (IHG)
Mr. ao.Univ.Prof. Dipl.Ing. Dr. Stefan SCHMUTZ **(Max Emanuel Str. 17) + WASSERCLUSTER LUNZ**

Safety- and Risk Sciences (ISR)
Mr. ao.Univ.Prof.i.R. Dr. Wolfgang KROMP **(Borkowskygasse 4)**

Universität für Bodenkultur Wien
Department für Wasser-Atmosphäre-Umwelt





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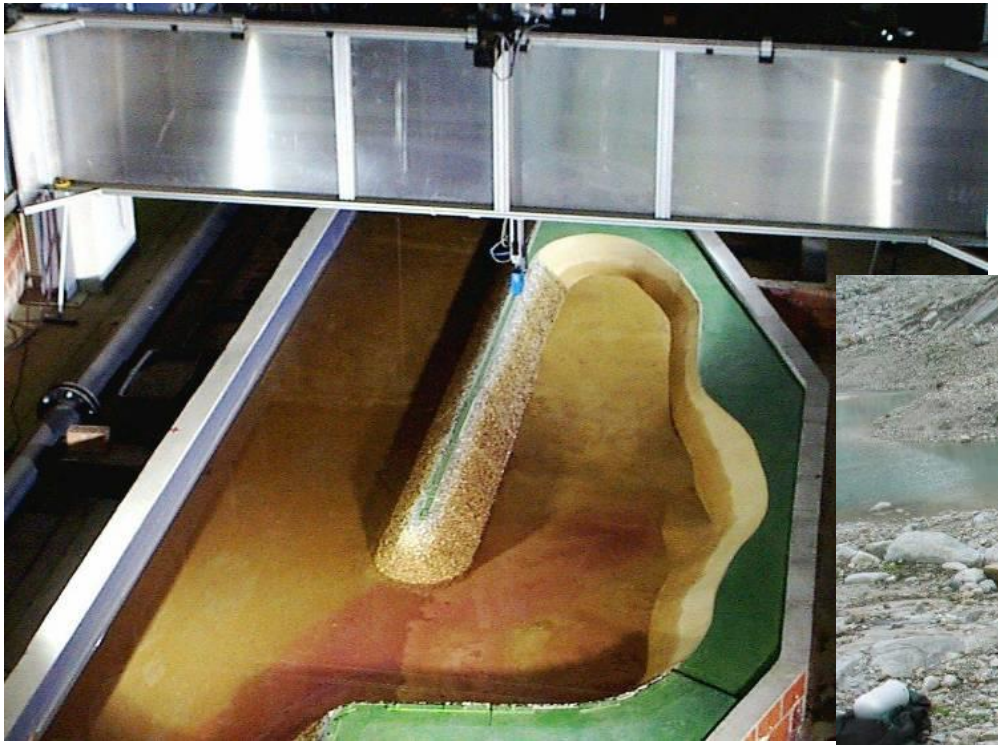
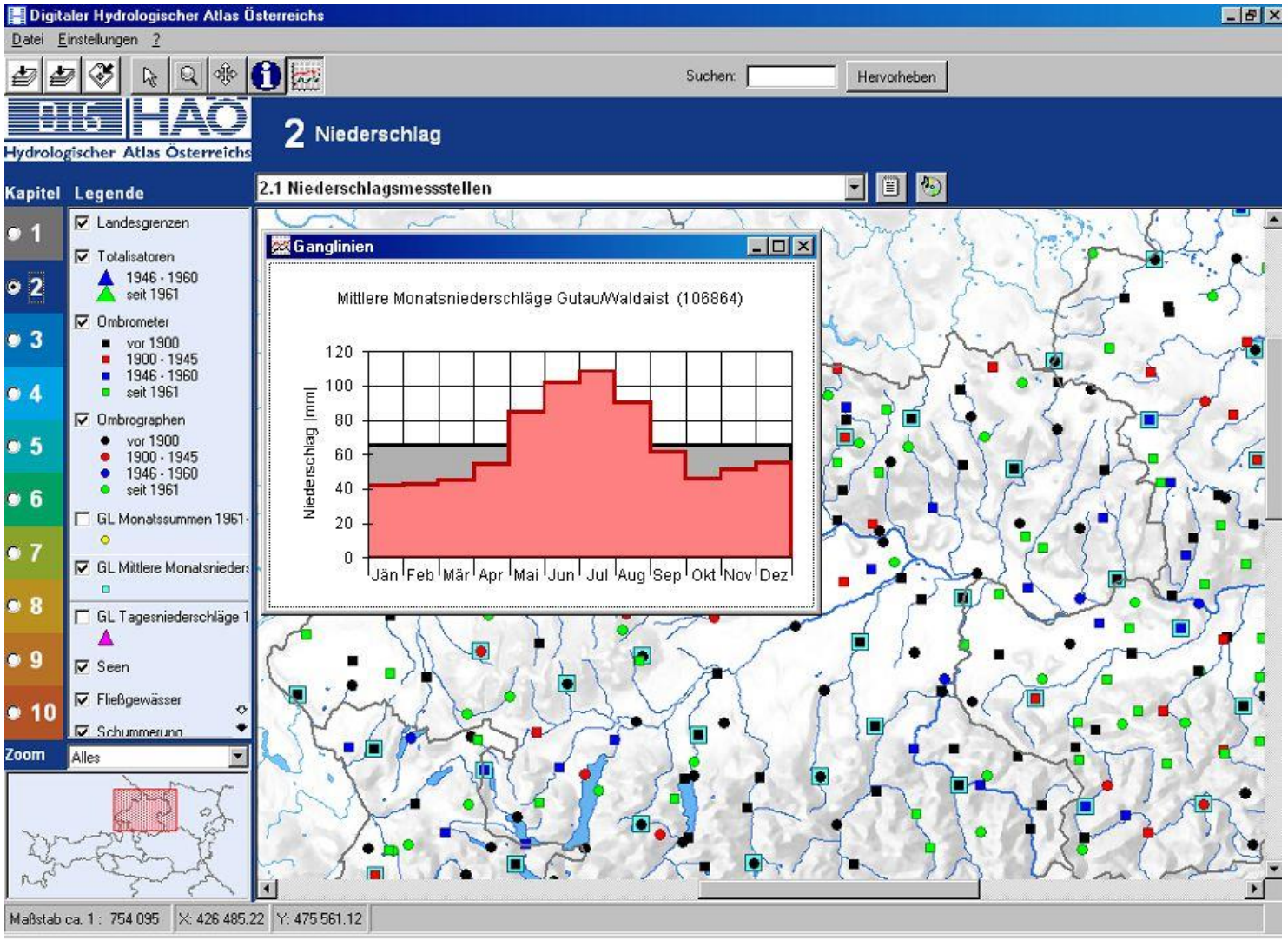
Department für Wasser-Atmosphäre-Umwelt



Hydrographischer Atlas Österreichs



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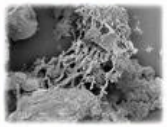
Department für Wasser-Atmosphäre-Umwelt

Research

Landfilling of inorganic waste
Landfilling of organic waste
Landfill aftercare
Landfill remediation



Organic matter in waste
Development of organic matter over time
Compost quality
Biological Treatment

Waste generation and prognosis
Waste prevention
Eco-design
Waste disposal systems
Assessment in waste management

Service

for students
for public authorities
for private organisations

Library
e-learning
Teaching material

Consulting
Specific Analytical Methods
Supply and interpretation of environmental data
Provide information

Teaching and Post Graduate Courses

High quality courses
for B.Sc., M.Sc. and PhD programs
„University meets Public“
Textbooks

Advanced Training Courses:
Abfallwirtschaftsbeauftragter
Conferences:
BOKU-Waste Conference 2005

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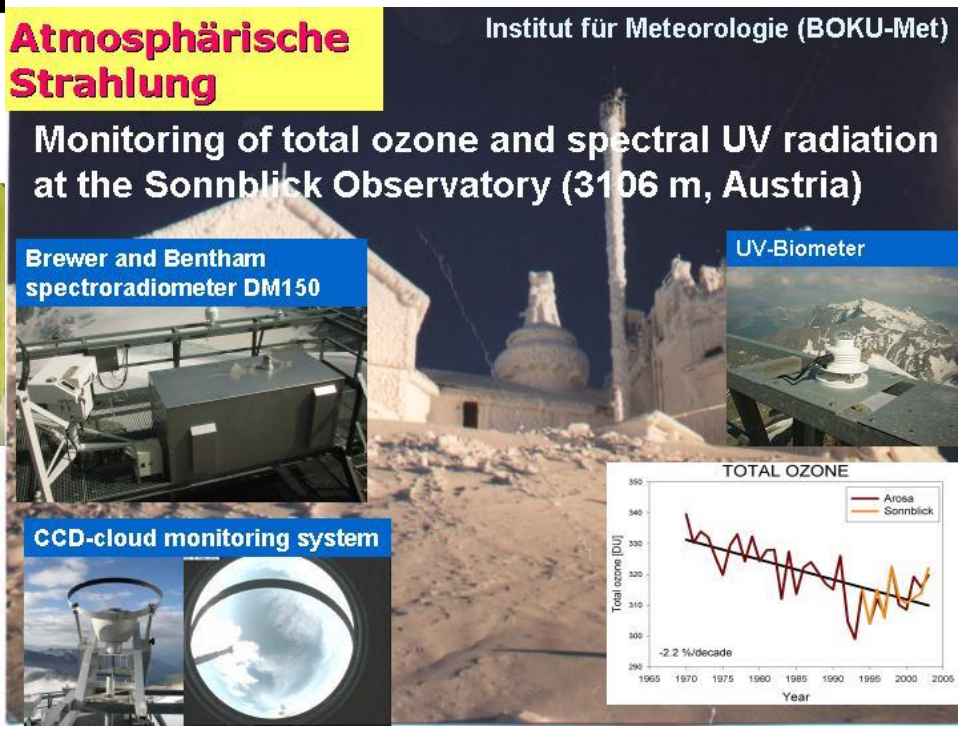
Department für Wasser-Atmosphäre-Umwelt

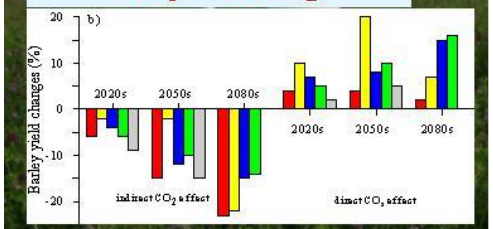


Institut für Meteorologie (BOKU-Met)

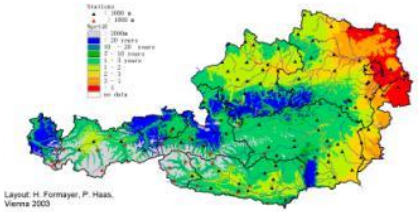
Agrarmeteorologie

Measuring the agro-environment

Climate change impacts and crop modelling



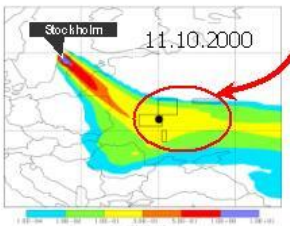
Drought monitoring



Unterschiedliche Herkunft von Cs-137 in der Luft in Stockholm:

a) Weitere Umgebung von Chernobyl

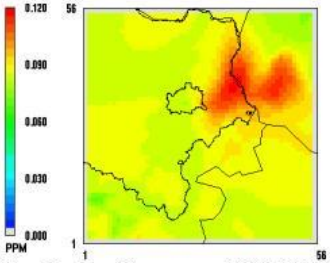
b) kontaminierter Wald in Schweden



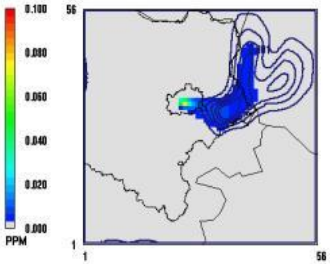
Berechnung mit FLEXPART

Umwelt-Meteorologie

Institut für Meteorologie (BOKU-Met)



Simuliertes Ozon am 22.6.2000



Kohlenwasserstoffe (aus Wien)
und daraus entstandenes O_3 (Kontur)

Berechnung mit MM5/CAMx

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Habitat requirements

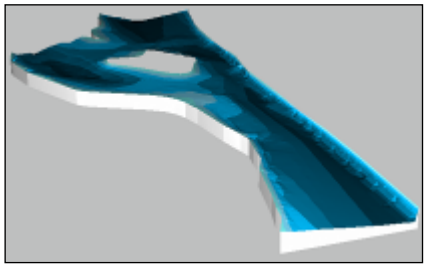
Habitat requirements:
- continuum
- gravel grading

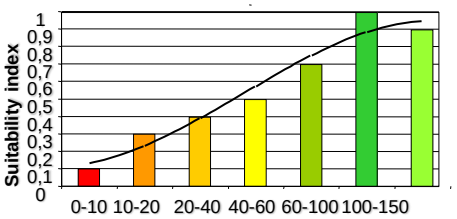
Habitat requirements:
- gravel interstitial
- gravel bars
- heterogenous banks
- benthic invertebrates

Habitat requirements:
- gravel bars
- heterogenous banks
- fish fry

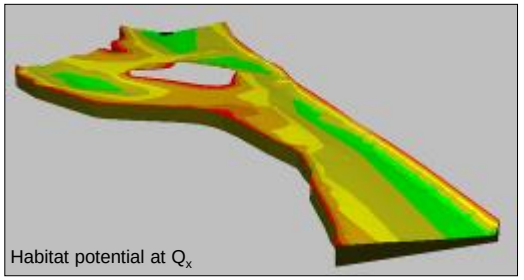
Habitat modelling

Habitat availability Q_x





Output of model



WasserCluster Lunz mit Zuordnung von Personal

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Connectivity / dynamics

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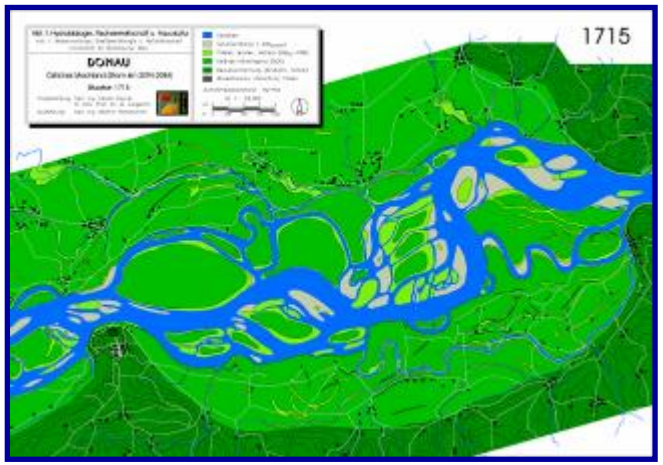
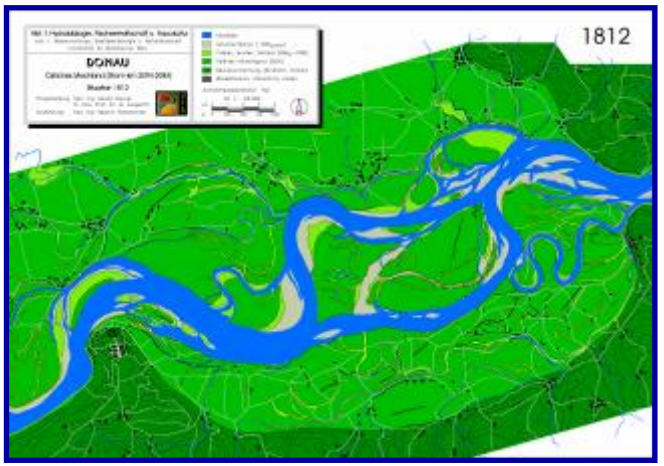
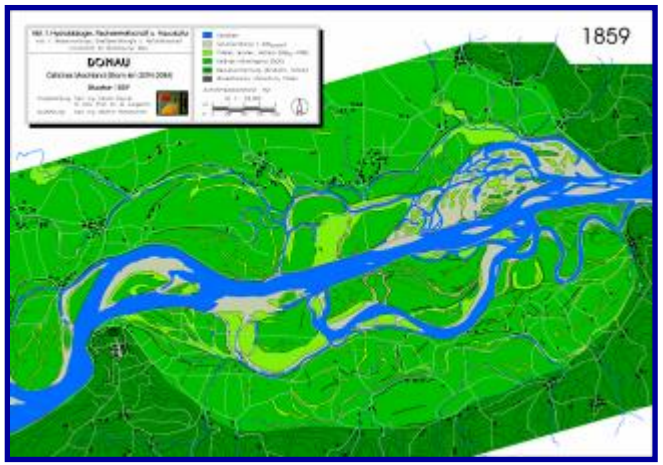
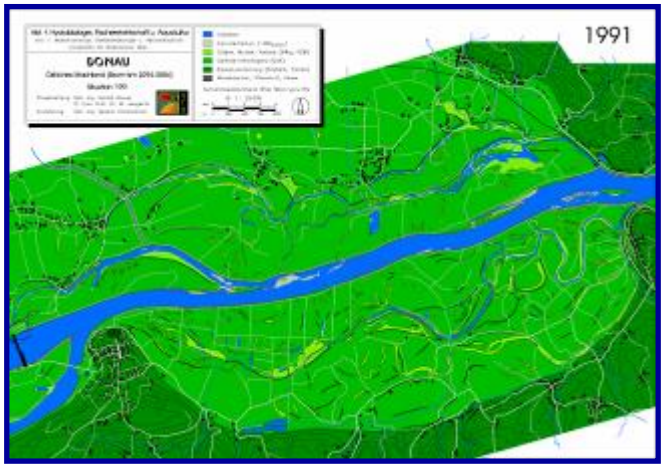
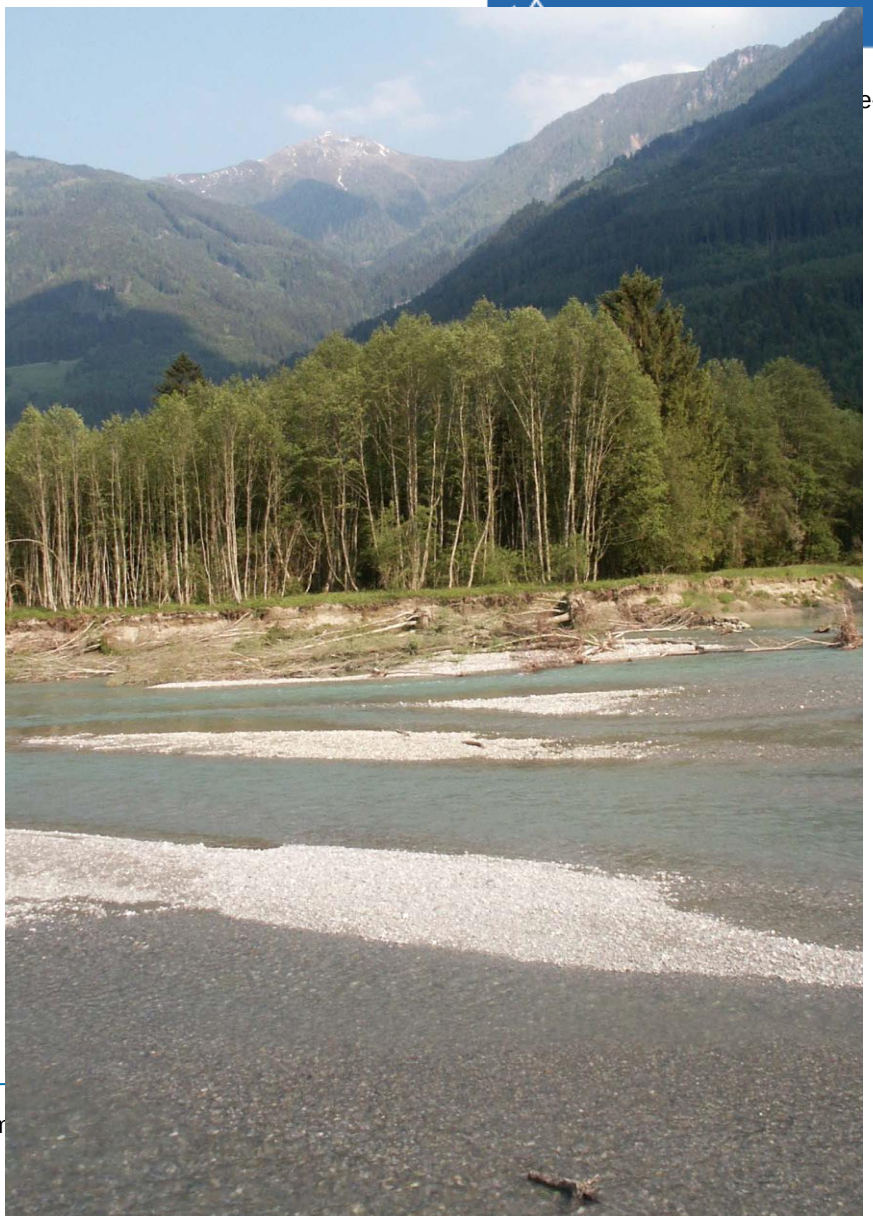








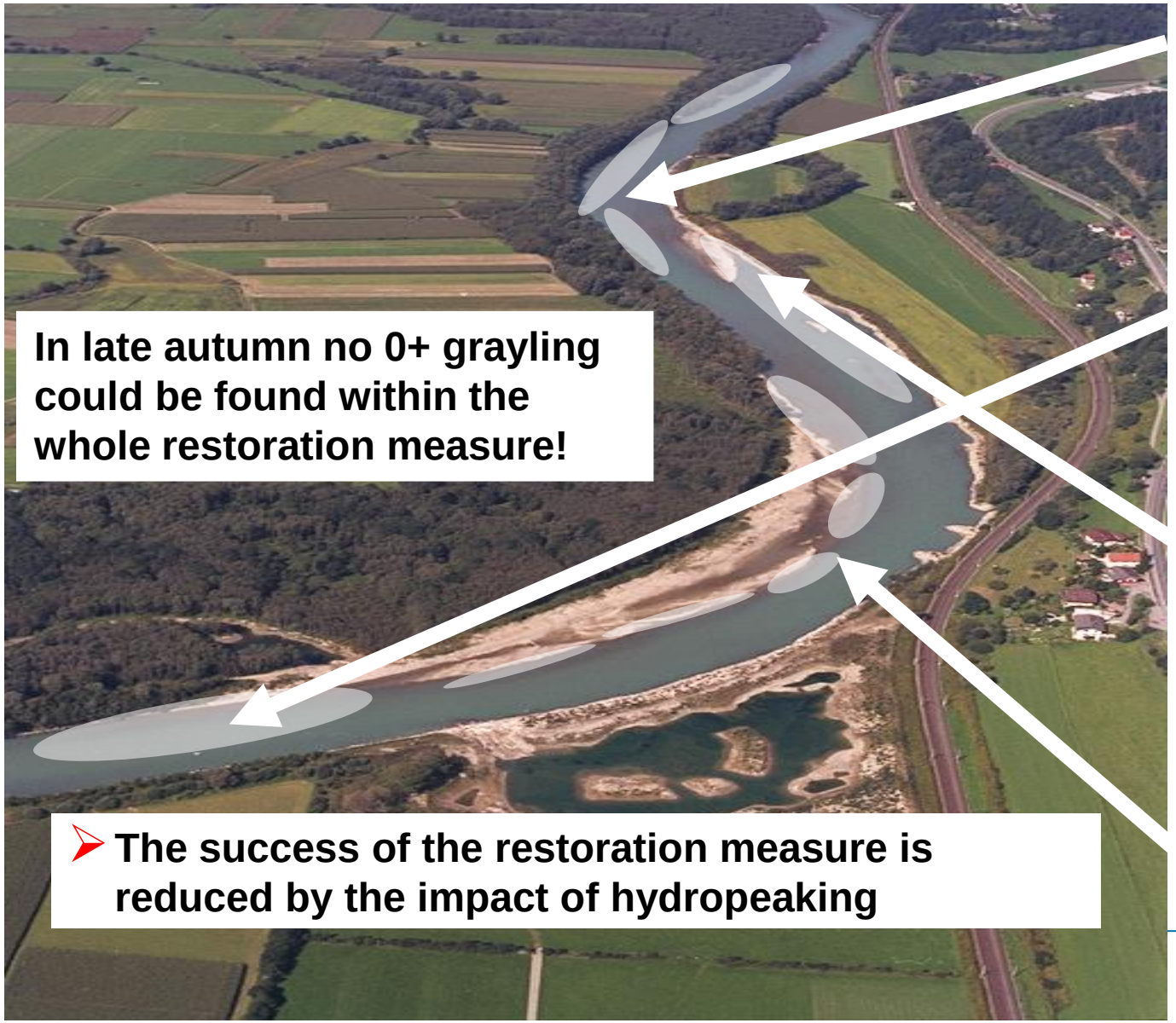
Measure Kleblach



LIFE-Projekt Obere Drau

r Wien
osphäre-

Conclusions



In late autumn no 0+ grayling could be found within the whole restoration measure!

- **The success of the restoration measure is reduced by the impact of hydropeaking**

http://www.assess-hkh.at

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Laufzeit: 15.04.2005 - 14.04.2008

FP6 - Managing humid and semi-humid ecosystems, STREP INCO-CT-2005-003659

10 Partner aus 8 Staaten

Bangladesh, Bhutan, Indien, Nepal, Pakistan, Österreich, Deutschland, Tschechien plus 1 internationale Organisation

wissenschaftlicher Koordinator: Univ. Prof. Dr.O. Moog


BALAJI
BALAJI

Integrating BOMOSA cage fish farming system in reservoirs, ponds and temporary water bodies in Eastern Africa

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Department für Wasser-Atmosphäre-Umwelt

Universität für Bodenkultur Wien
Moi University
Austrian Academy of Sciences
University of Bologna
Enki public benefit cooperation
Kenyan Ministry of Livestock and Fisheries Development
Kenya Marine and Fisheries Research Institute
Egerton University
Ethiopian Institute of Agricultural Research
Department of Fisheries Resources Uganda