Master Environmental Biology, track Ecology and Natural Resources Management





Faculty of Science Master programma Environmental Biology

Natural resources and ecosystem services

Natural ecosystems provide services without which we could not survive

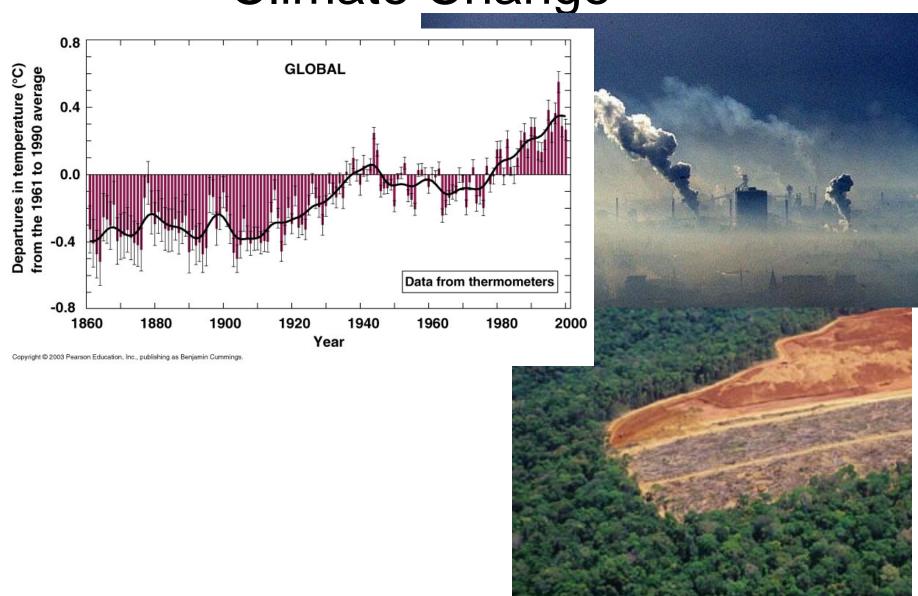
- Food
- Fiber
- Genetic resources
- Biochemicals
- Freshwater
- Biodiversity

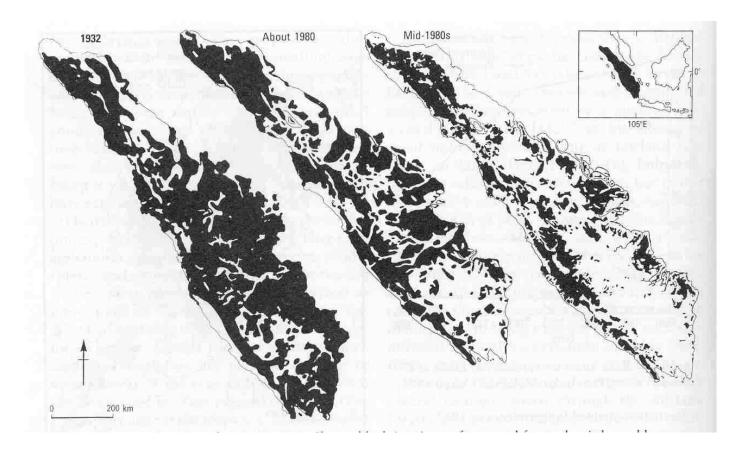


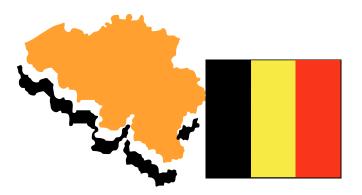
Faculty of Science Master programma Environmental Biology

Photo credits: Tran Thi Hoa (World Bank),

Climate Change







More than 60% of original forest disappeared

Per year we cut down an area the size of Belgium

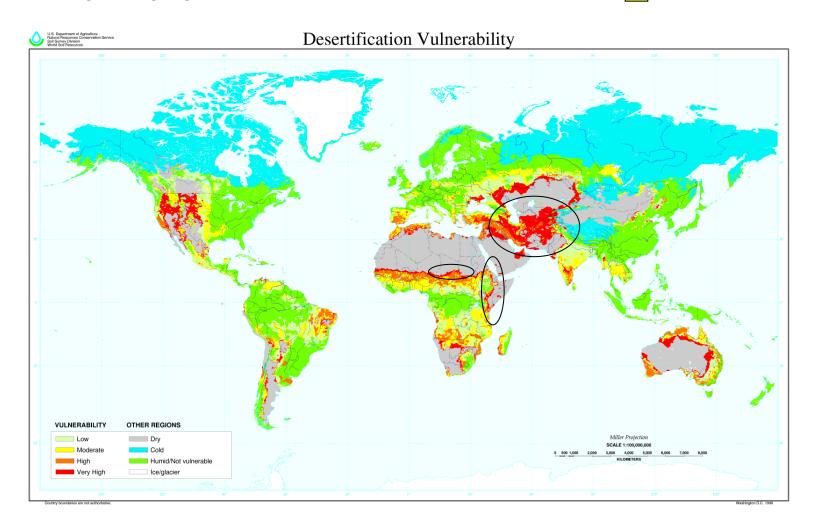
- -Provision of timber
- -Agricultural land

Desertification & water

- -70.000 km2 per year
- -250 million people involved
- -Overgrazing agriculture deforestation

Very high risk
High risk

Moderate risk



The Netherlands



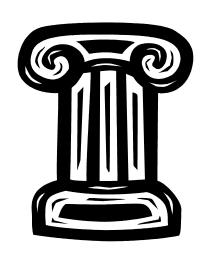


But it's not all gloom

- Forest cover in the western world is increasing (at the expense of the tropics)
- Payment for ecosystem services (REDD)
- Dutch agriculture increased yields 3x while strongly reducing pollution sinceXXXX
- Sustainability important goal for governments
- Growing awareness in the private sector
 - DSM Task force biodiversiteit
 - Unilever
 - ING richtlijnen biodiversiteit in duurzaam beleggen
 - ENECO

The philosophy behind the Ecology & NRM track

Sustainable use of our natural resources is crucial and possible. Strong ecological knowledge and research expertise can contribute to achieve this.







Application to NRM

Theoretical courses (15 ECTS)



Ecology & Natural Resources Management: The ecological knowledge and expertise needed to address NRM related problems (Ecology & Biodiversity (Mariet Hefting, Niels Anten)

Ecological expertise



Management of Natural Resources in Context: Show you the techniques and theory involved in NRM: the policy and management interface (Science, Technology & Society, Pita Verweij, Jos Dekkers)

Application to NRM



Major research project

Ecological expertise

Important to obtain research experience in a rigorous setting

Research groups

Ecology & Biodiversity (Jos Verhoeven or me)

Science Technology & Society (Pita Verweij, Jos Dekker)

Plant Microbe Interactions (Corne Pieterse)

Ecophysiology of Plants (Rens Voesenek)

Palaeoecology (Andy Lotter)

Biomarine sciences (Henk Brinkhuis)

Field, lab and computer work Netherlands and many other parts of the world



Minor (31ECTS): Internship with an societal organization or private company

Getting hands on experience with the real work of NRM



Application to NRM















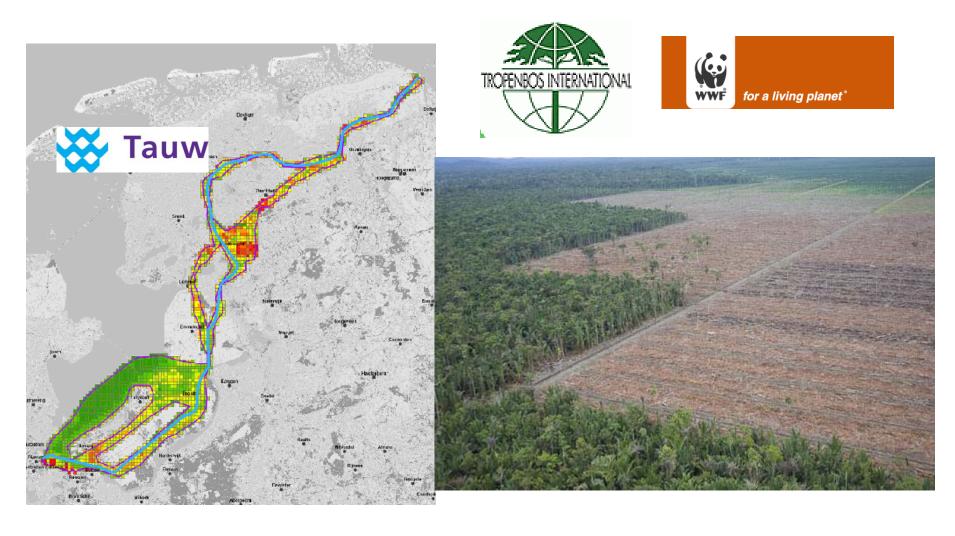




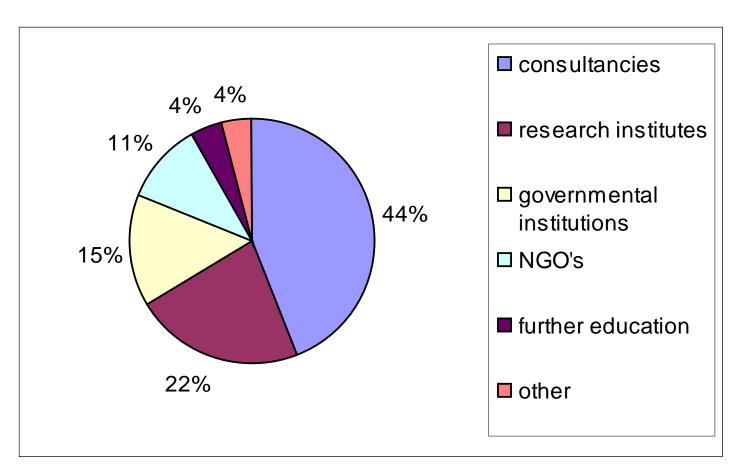


Possible route "Noordwest380" with minimum impact

Forest conservation through REDD



Job prospects



>90% of E & NRM students have a job at graduation time!

Utrecht School of Life Sciences

More information?

http://web.science.uu.nl/environmentalbiology

Or by mail to: N.P.R.Anten@uu.nl