

# Summary of on-going IFU research projects in China

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# MAGIM

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## An Interdisziplinäre Sino-German Research Project on Effects of Grazing on **M**atter Fluxes in **G**rasslands of **I**nnere **M**ongolia

Speaker: Prof. Dr. Klaus Butterbach-Bahl

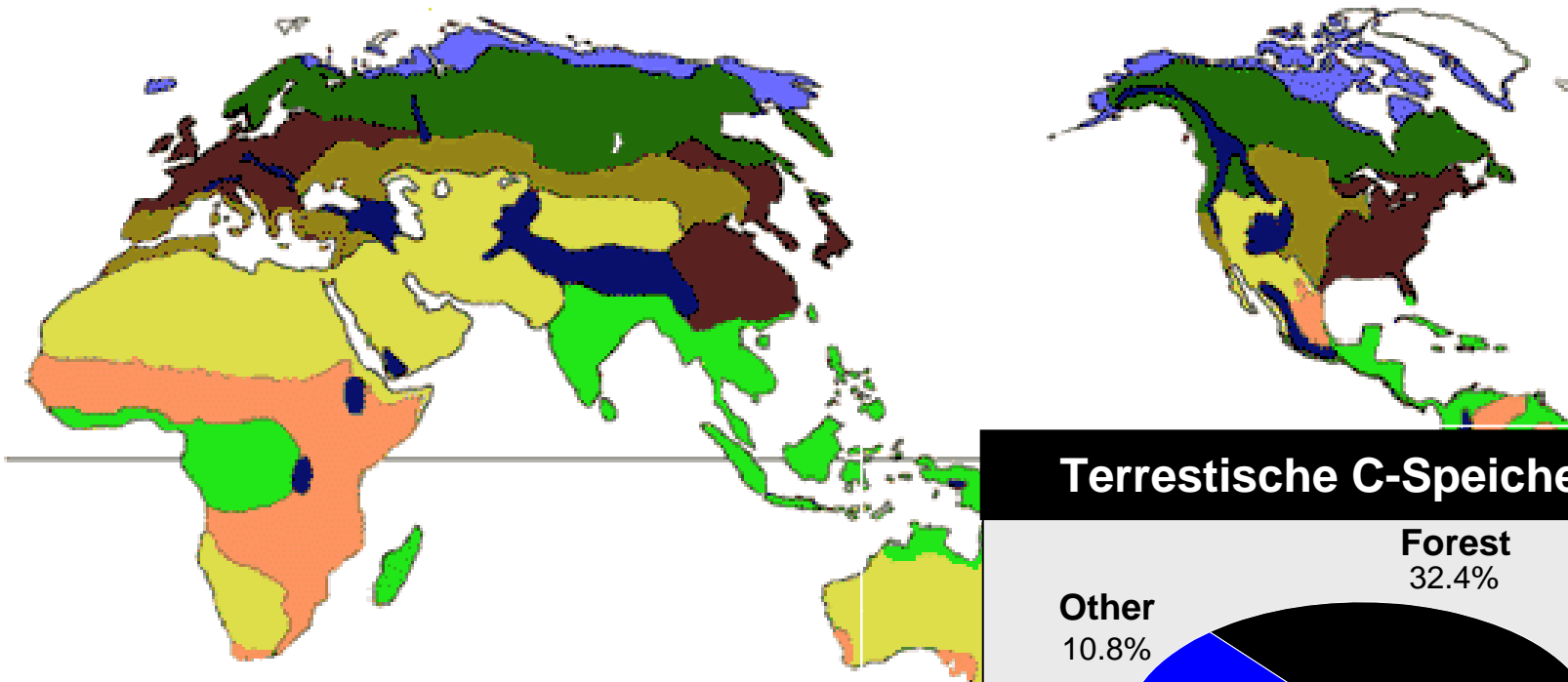
Co-Speaker: Prof. Dr. Hans-Georg Frede

Speaker Chinese cooperation partners: Prof. Dr. Xingguo Han

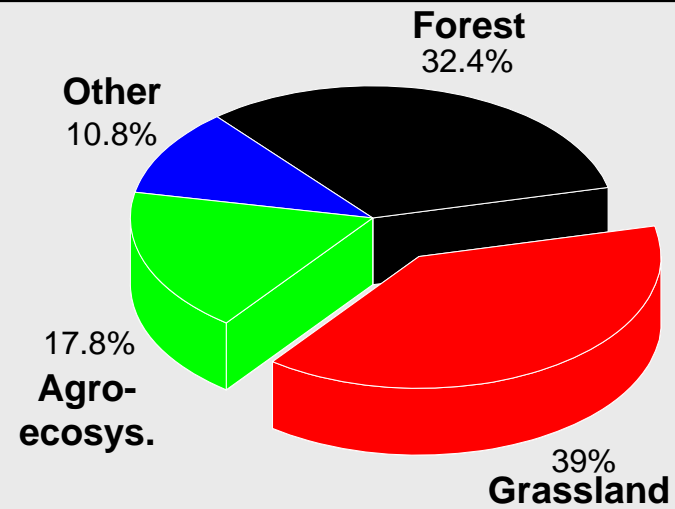
# Research teams within MAGIM

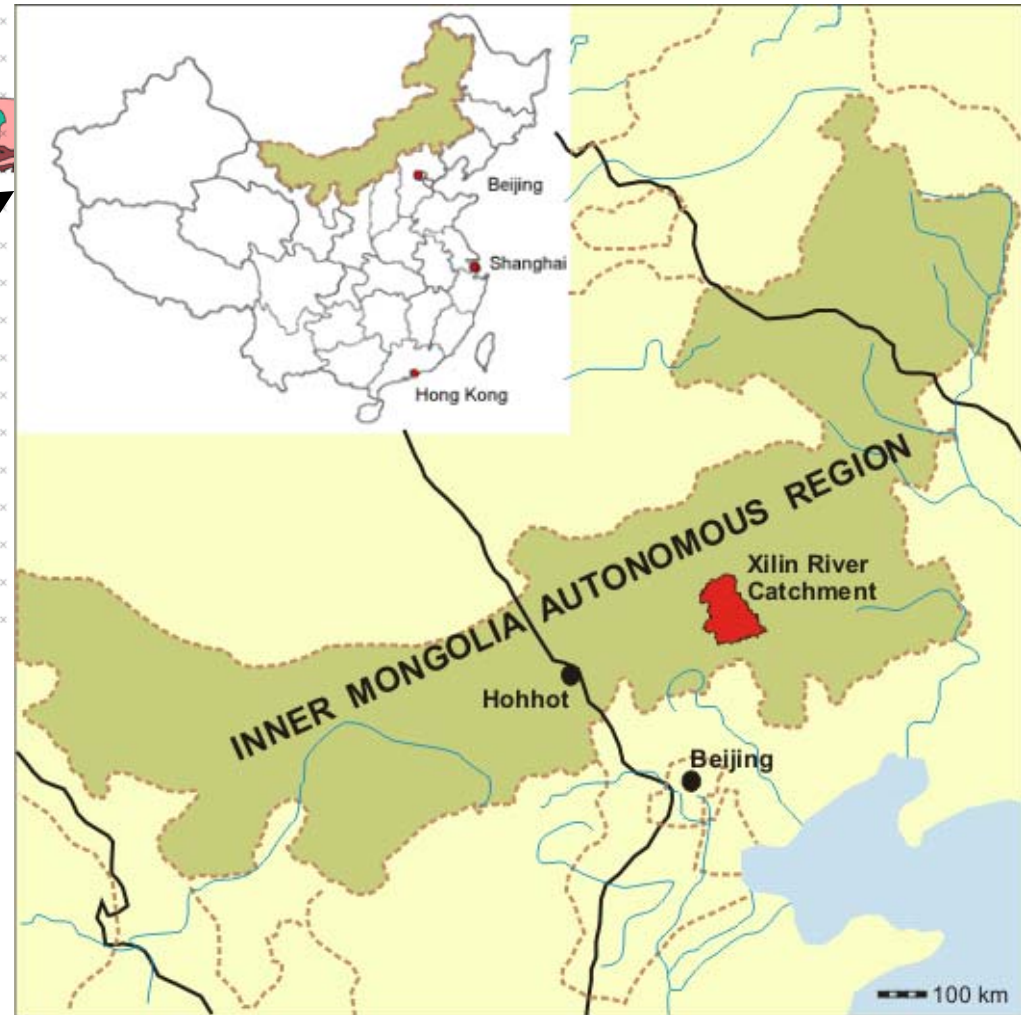
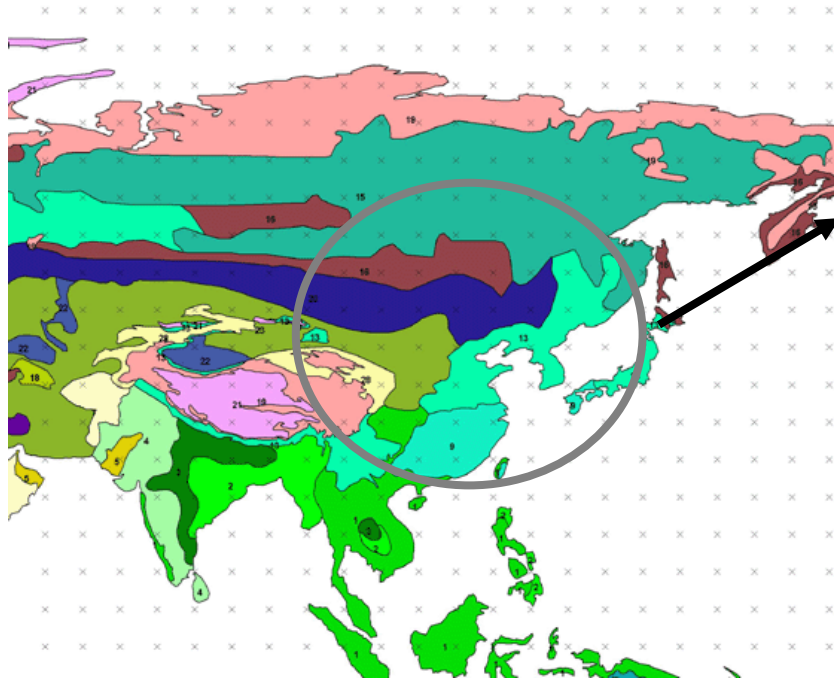
	<b><u>Forschungszentrum Karlsruhe</u></b> Institute for Meteorology & Climate Research (IMK-IFU), Garmisch-P.	<ul style="list-style-type: none"> <li>• Microbial turnover</li> <li>• Trace gas exchange</li> </ul>	 
	<b><u>Technical University Munich</u></b>		
	Lehrstuhl für Bodenkunde	<ul style="list-style-type: none"> <li>• SOC dynamics</li> <li>• Soil aggregation</li> </ul>	
	Lehrstuhl für Grünlandlehre	<ul style="list-style-type: none"> <li>• Ecophysiology</li> <li>• Isotopic signatures</li> </ul>	
	<b><u>Christian Albrechts University</u></b>		
	Institute for <u>Plant Nutrition</u> and Soil Science	<ul style="list-style-type: none"> <li>• Plant production</li> <li>• H<sub>2</sub>O/N interactions</li> </ul>	
	Institute for Plant Nutrition and <u>Soil Science</u>	<ul style="list-style-type: none"> <li>• Soil hydrology</li> <li>• Soil physics</li> </ul>	
	Institute of Crop Science and Plant Breeding	<ul style="list-style-type: none"> <li>• Grassland science</li> <li>• Feed quality</li> </ul>	
	Institute of Animal Nutrition and Physiology	<ul style="list-style-type: none"> <li>• Animal production</li> </ul>	
	<b><u>Justus-Liebig University</u></b> Department of Agriculture and Environmental Protection, Giessen	<ul style="list-style-type: none"> <li>• Regional hydrology</li> <li>• Central database</li> </ul>	
	<b><u>Technical University of Dresden</u></b> Institute for Hydrology and Meteorology, Dresden	<ul style="list-style-type: none"> <li>• CO<sub>2</sub>/H<sub>2</sub>O exchange</li> <li>• Remote sensing</li> </ul>	
	<b><u>Leibniz-Centre for Agricultural Landscape Research (ZALF)</u></b> Institute of Soil Landscape Research, Müncheberg	<ul style="list-style-type: none"> <li>• Winderosion on local and regional scales</li> </ul>	
	<b><u>German Meteorological Service</u></b> Meteorological Observatory Lindenberg	<ul style="list-style-type: none"> <li>• Remote sensing</li> <li>• Precipitation</li> </ul>	 

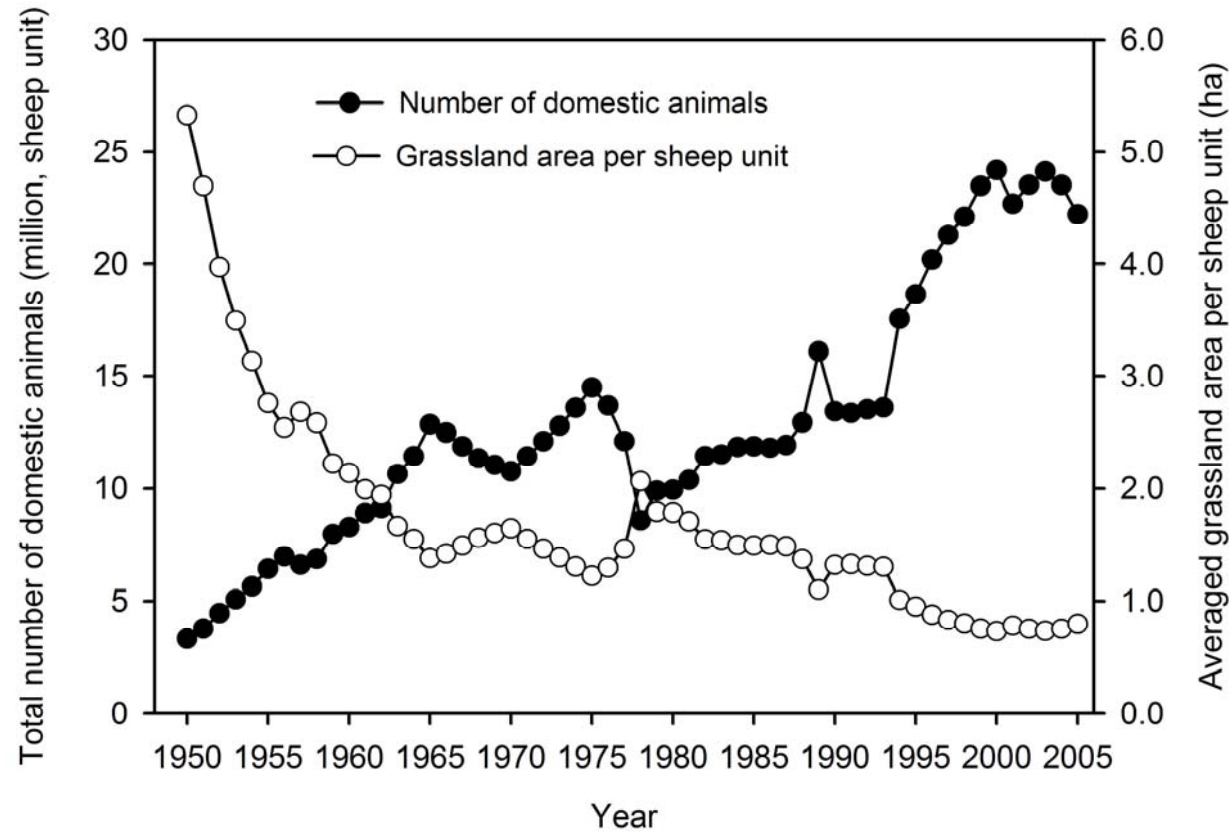
# Grassland Systeme und der globale C Kreislauf



## Terrestische C-Speicherung



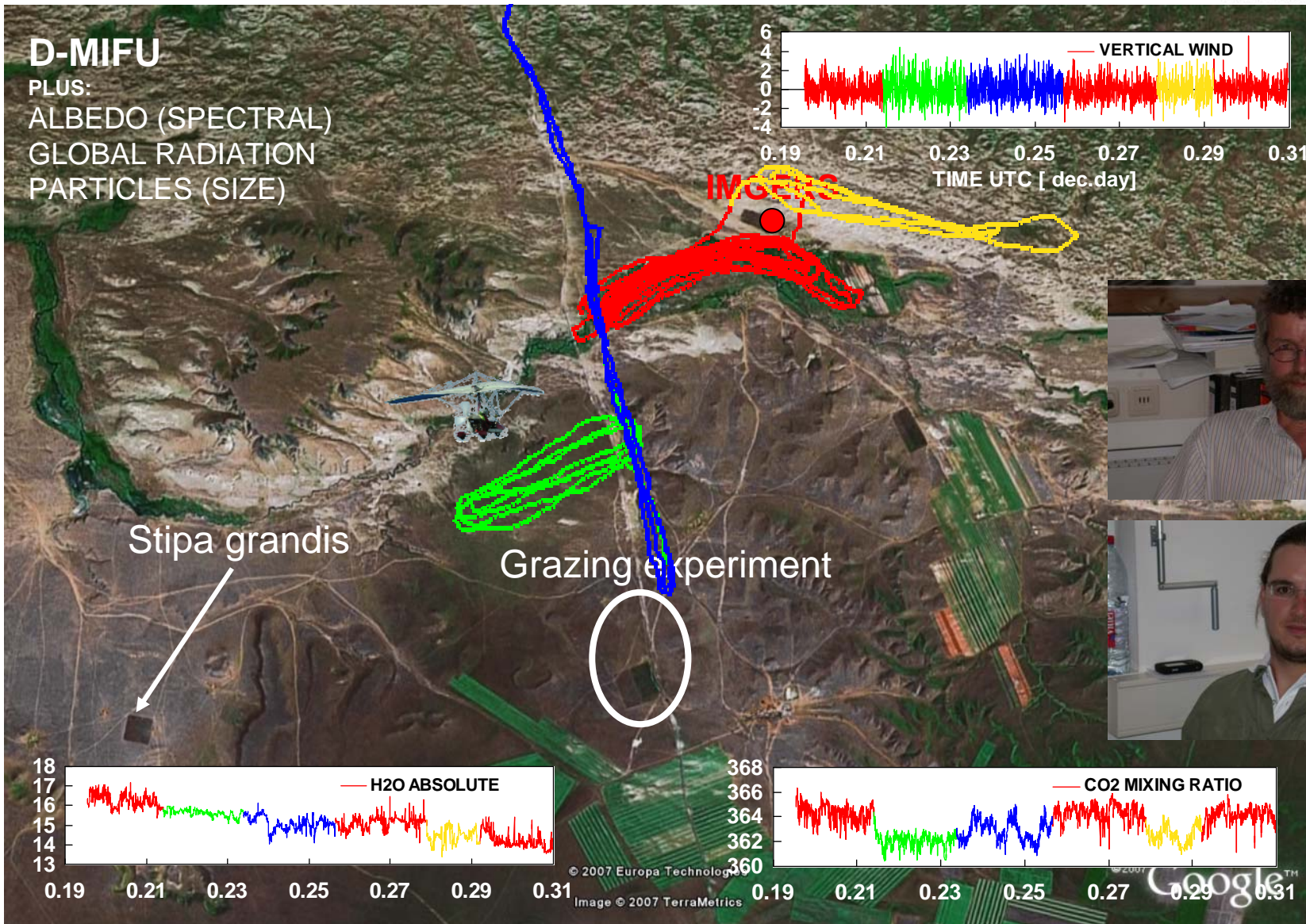




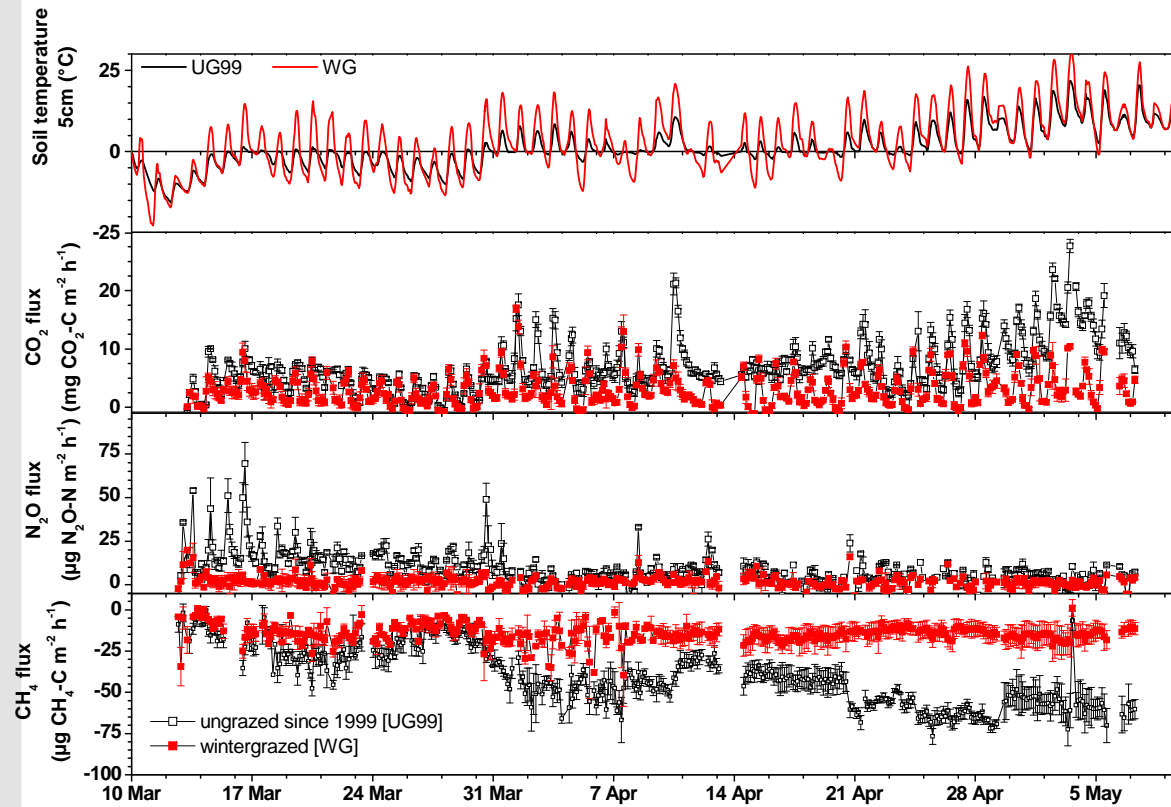
## Objectives IMK-IFU-IAP-CAS:

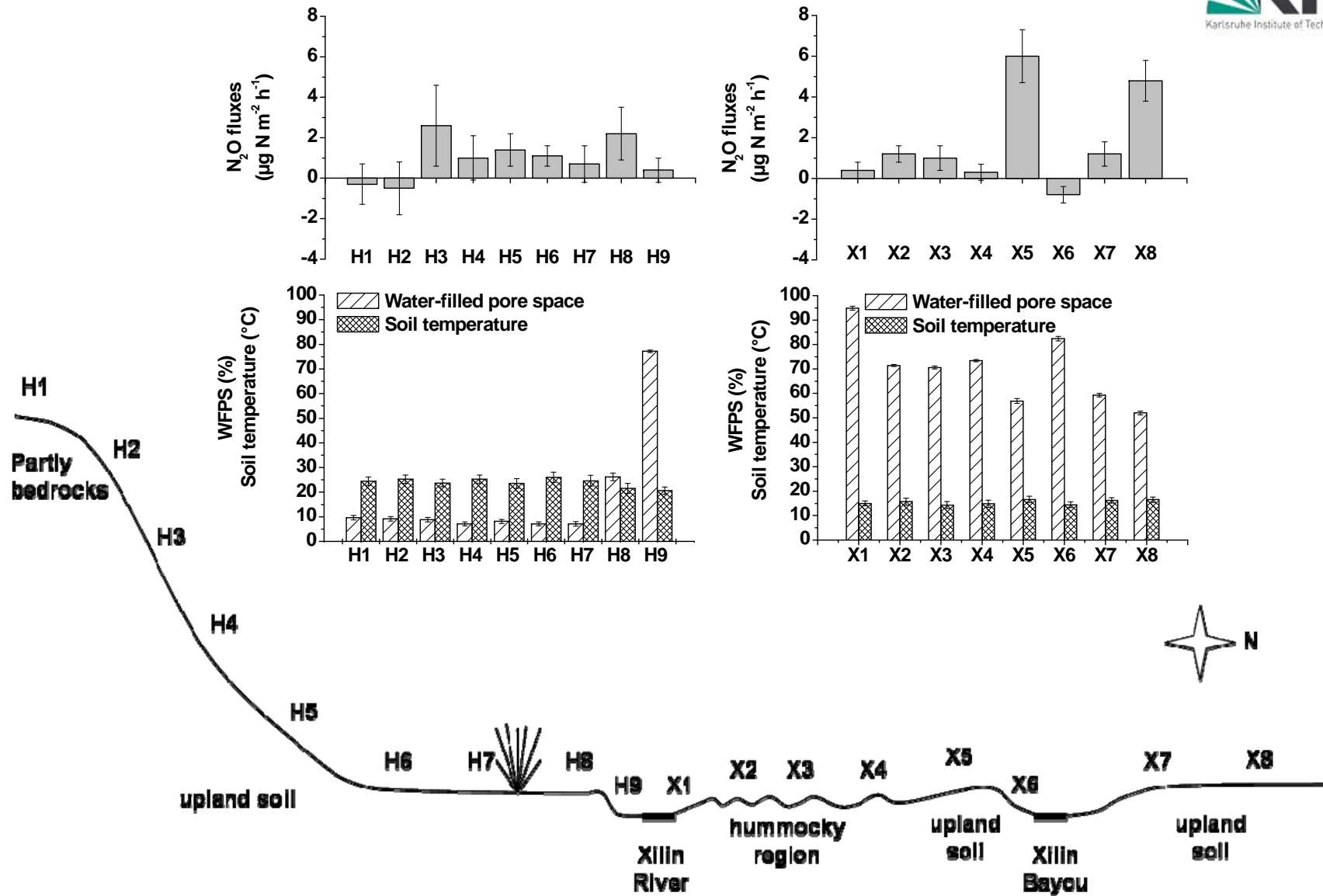
- Full annual cycles
  - GHG exchange
  - Gas permeability
  - temperature, moisture, etc.
  - microbial N-turnover, microb. biomass
- Simulation of C/N turnover
- Regionalisation and scenarios

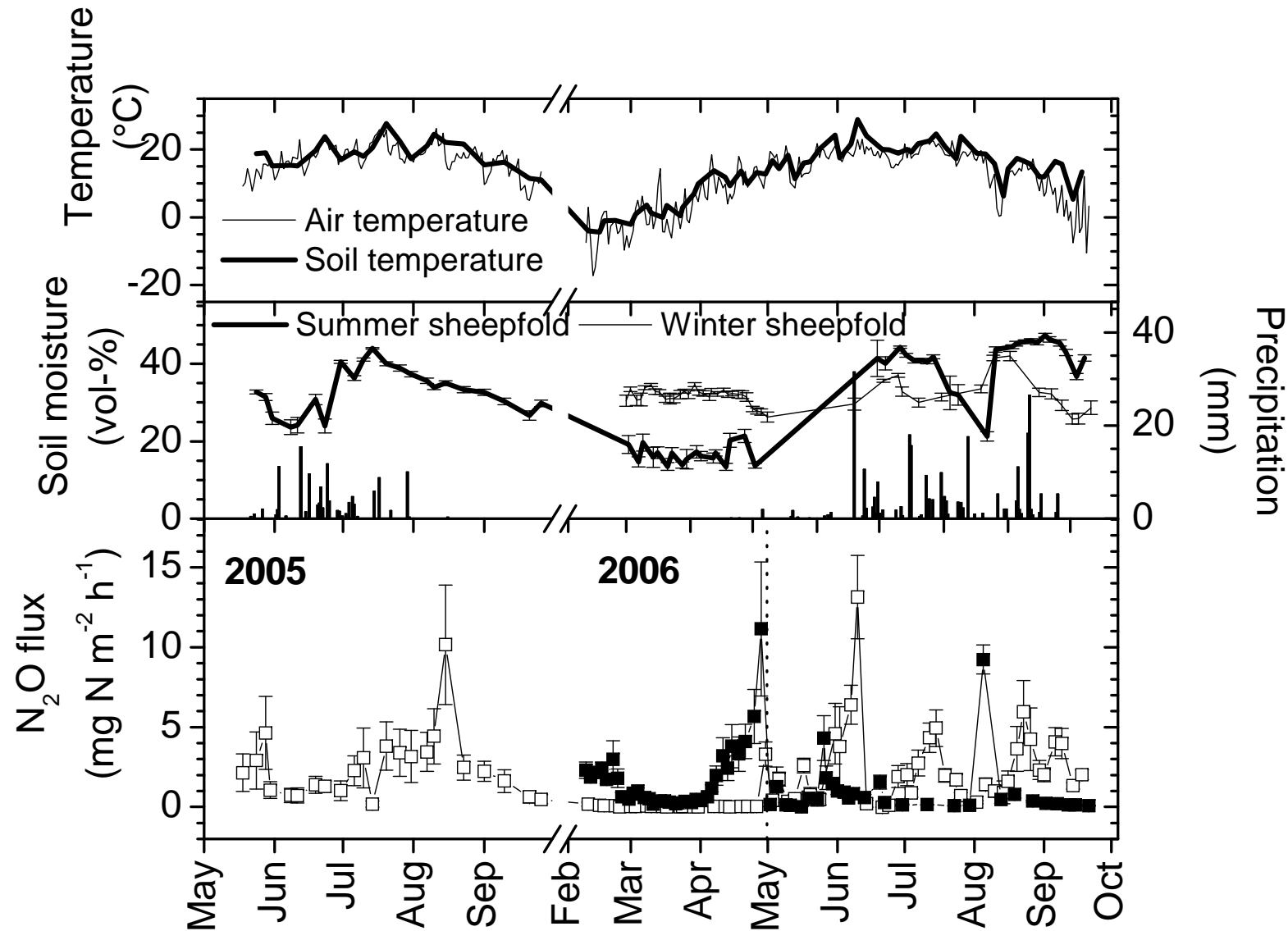


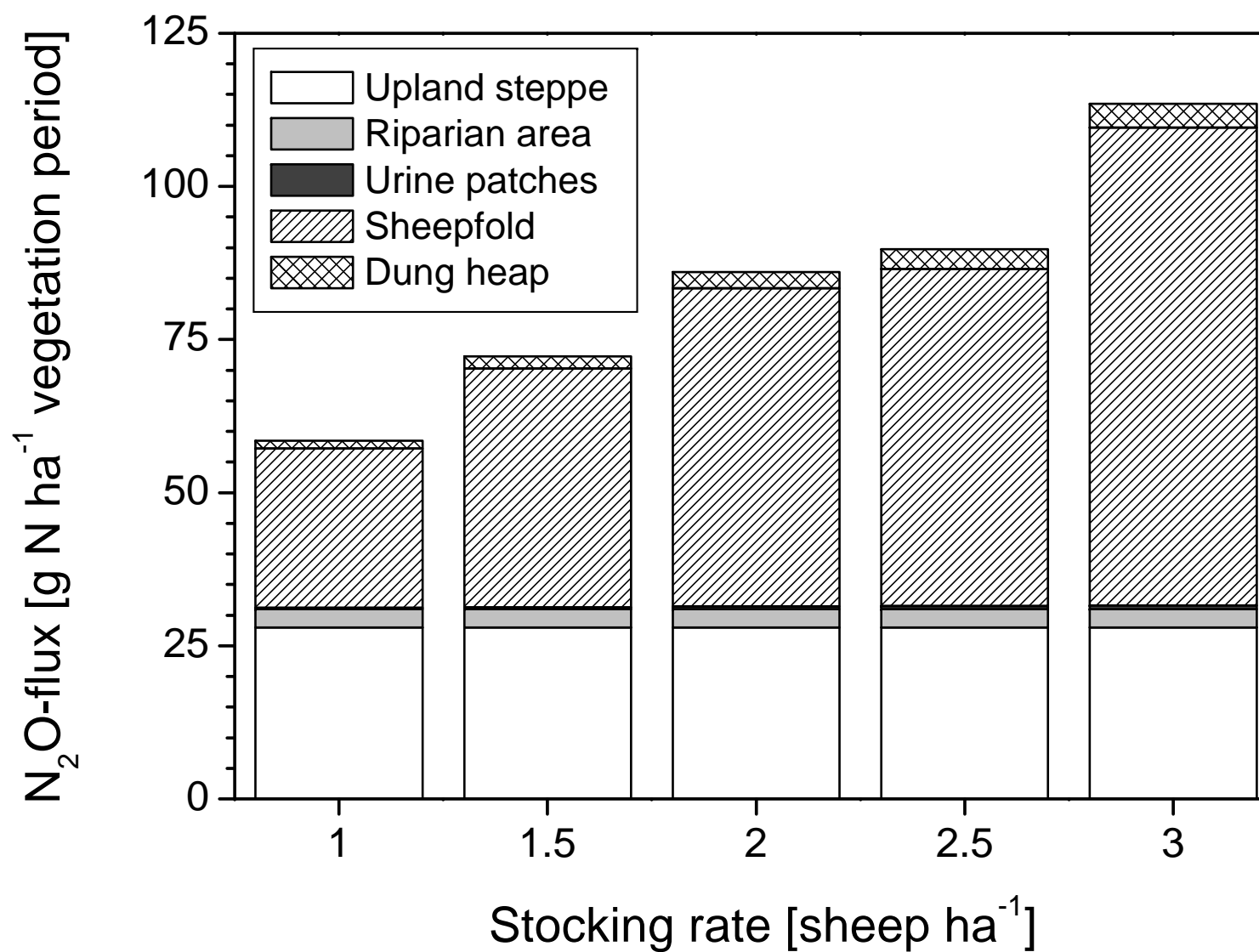












# ENVIRONMENTAL TRANSITION of China's Ecosystems under predicted global changes (ENTRANCE)

