

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 Matter Fluxes in Grasslands of Inner Mongolia

Speaker: Prof. Dr. Klaus Butterbach-Bahl

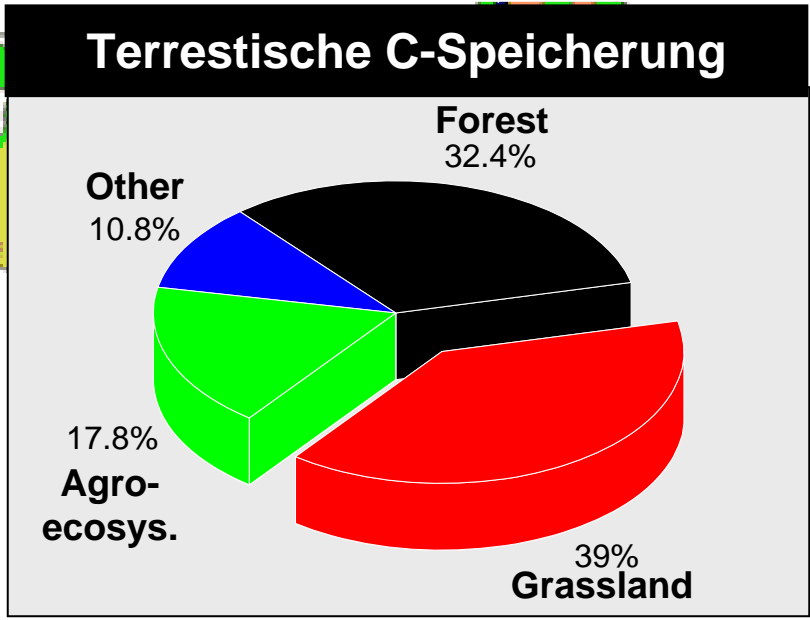
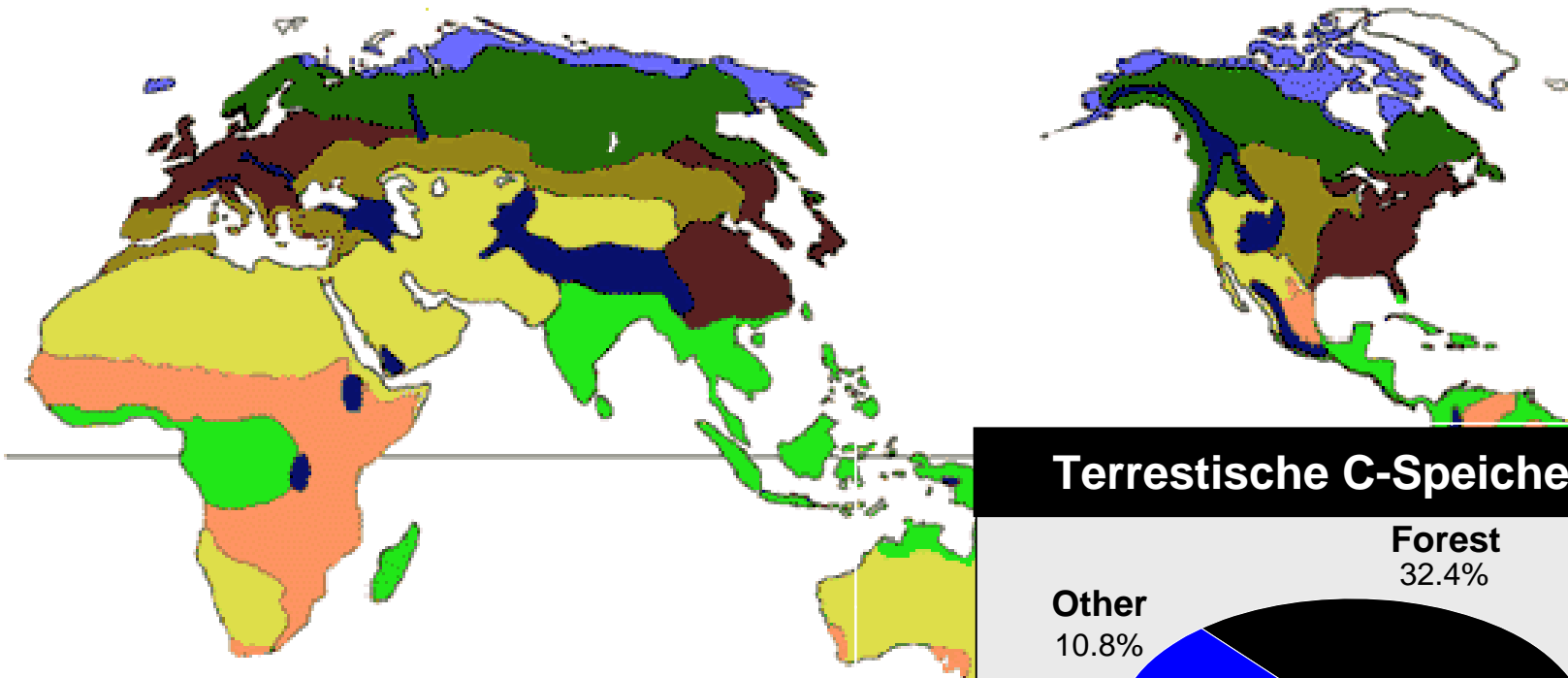
Co-Speaker: Prof. Dr. Hans-Georg Frede

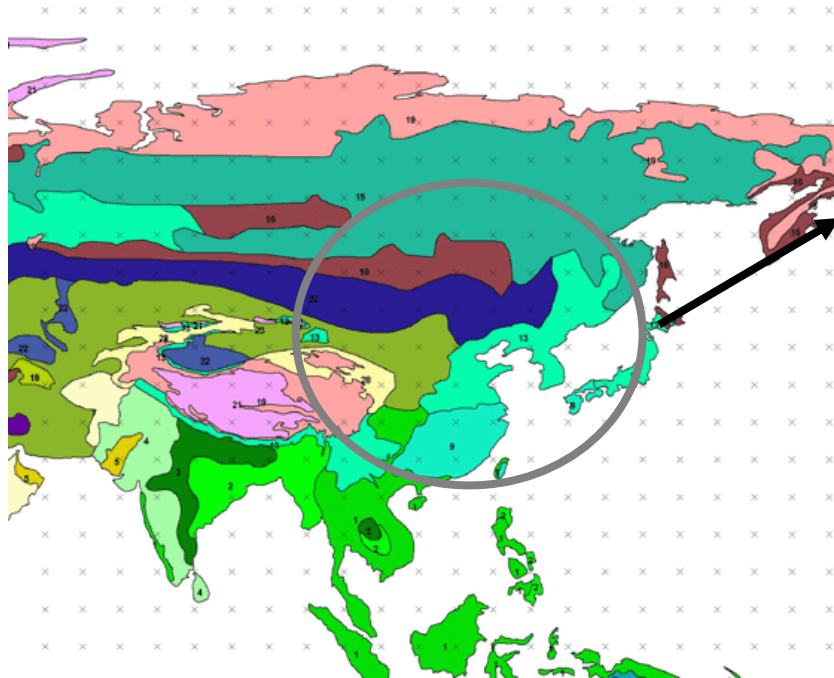
Speaker Chinese cooperation partners: Prof. Dr. Xingguo Han

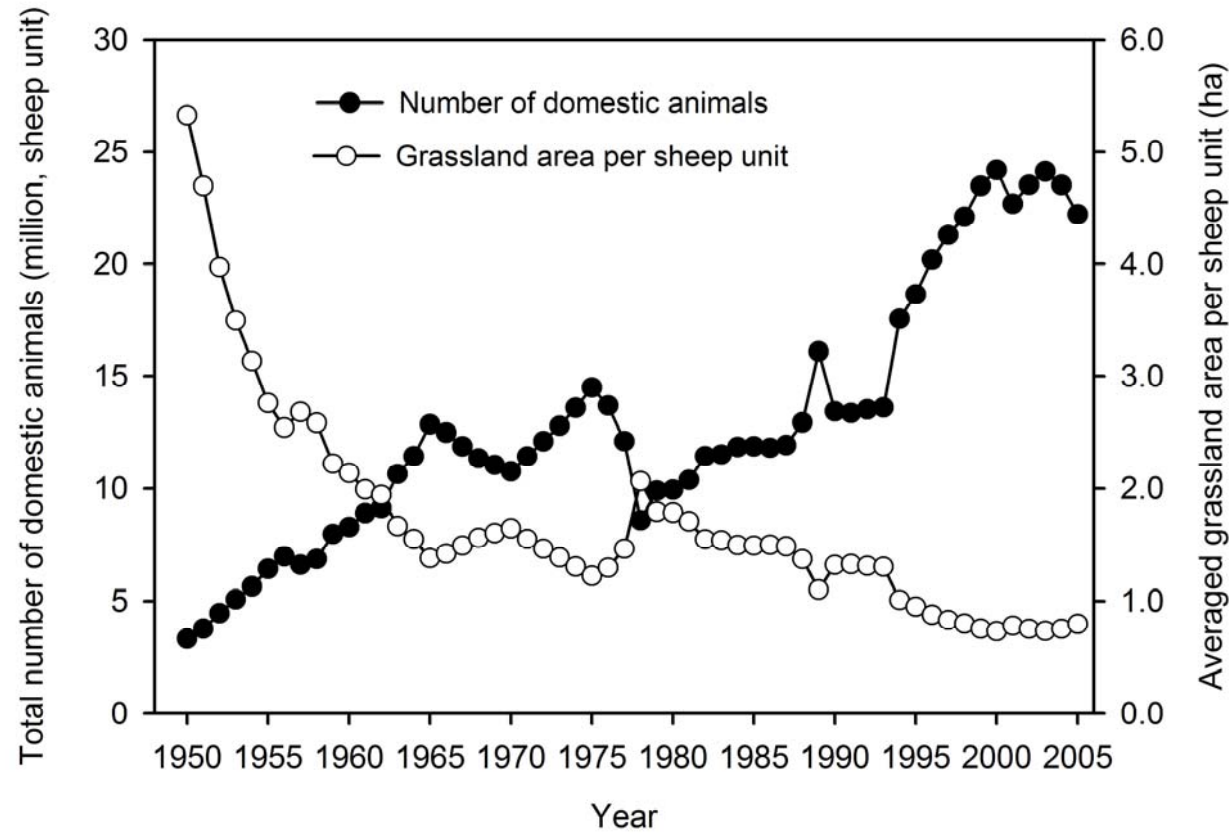
Research teams within MAGIM

	<u>Forschungszentrum Karlsruhe</u> Institute for Meteorology & Climate Research (IMK-IFU), Garmisch-P.	<ul style="list-style-type: none"> • Microbial turnover • Trace gas exchange 	 
	<u>Technical University Munich</u>		
	Lehrstuhl für Bodenkunde	<ul style="list-style-type: none"> • SOC dynamics • Soil aggregation 	
	Lehrstuhl für Grünlandlehre	<ul style="list-style-type: none"> • Ecophysiology • Isotopic signatures 	
	<u>Christian Albrechts University</u>		
	Institute for <u>Plant Nutrition</u> and Soil Science	<ul style="list-style-type: none"> • Plant production • H₂O/N interactions 	
	Institute for Plant Nutrition and <u>Soil Science</u>	<ul style="list-style-type: none"> • Soil hydrology • Soil physics 	
	Institute of Crop Science and Plant Breeding	<ul style="list-style-type: none"> • Grassland science • Feed quality 	
	Institute of Animal Nutrition and Physiology	<ul style="list-style-type: none"> • Animal production 	
	<u>Justus-Liebig University</u> Department of Agriculture and Environmental Protection, Giessen	<ul style="list-style-type: none"> • Regional hydrology • Central database 	
	<u>Technical University of Dresden</u> Institute for Hydrology and Meteorology, Dresden	<ul style="list-style-type: none"> • CO₂/H₂O exchange • Remote sensing 	
	<u>Leibniz-Centre for Agricultural Landscape Research (ZALF)</u> Institute of Soil Landscape Research, Müncheberg	<ul style="list-style-type: none"> • Winderosion on local and regional scales 	
	<u>German Meteorological Service</u> Meteorological Observatory Lindenberg	<ul style="list-style-type: none"> • Remote sensing • Precipitation 	 

Grassland Systeme und der globale C Kreislauf



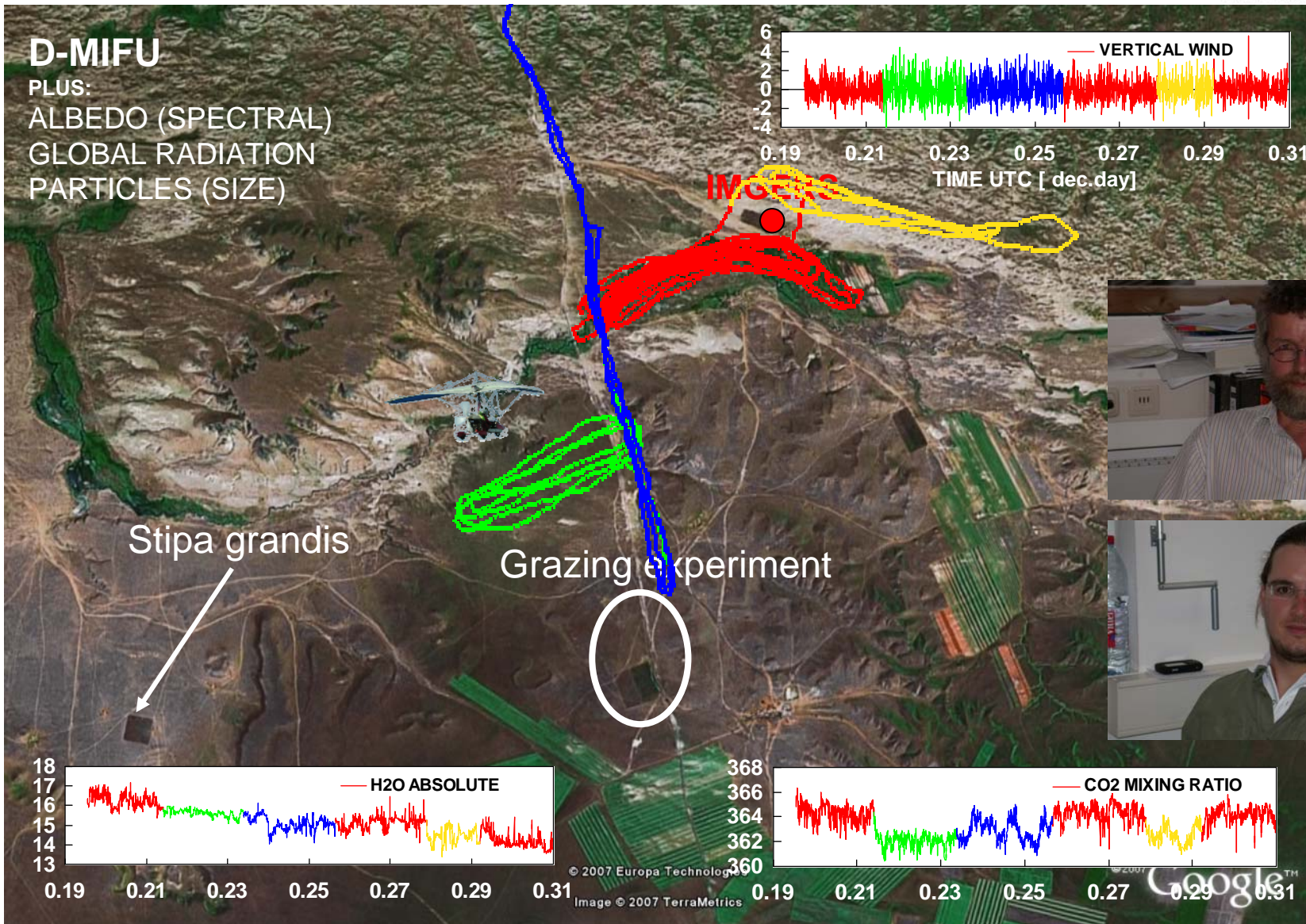


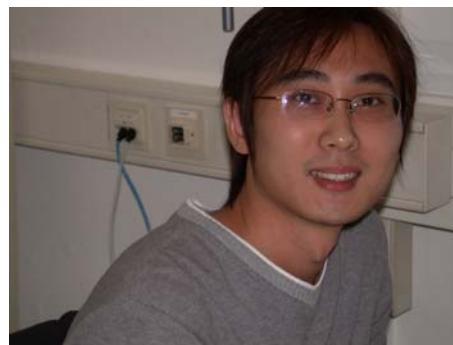
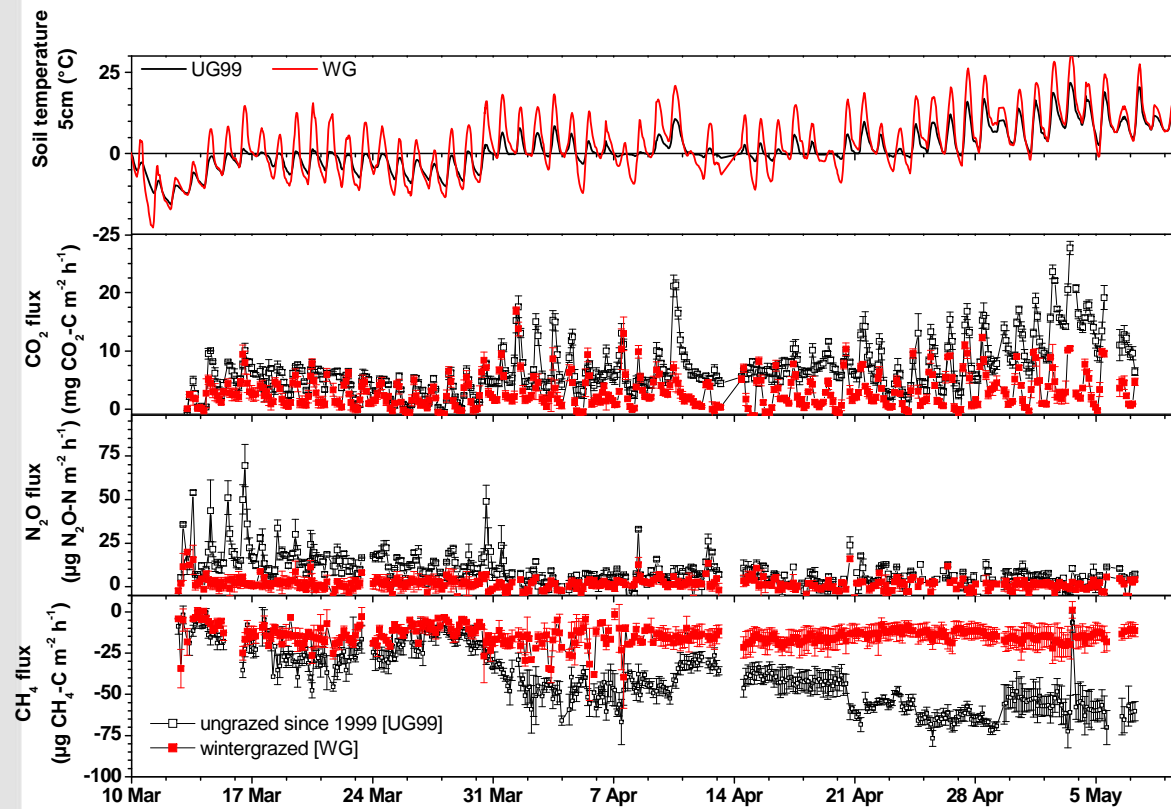


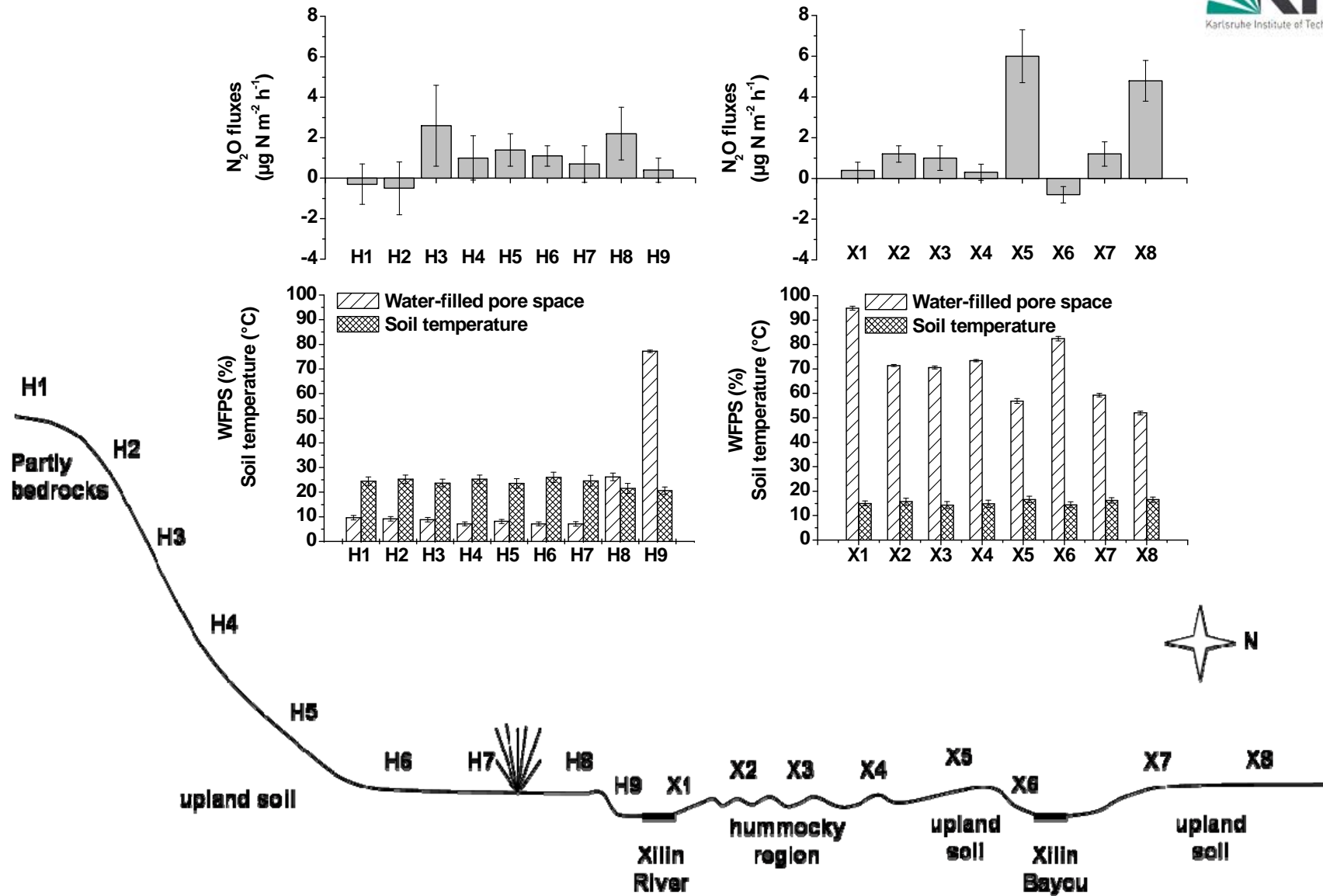
Objectives IMK-IFU-IAP-CAS:

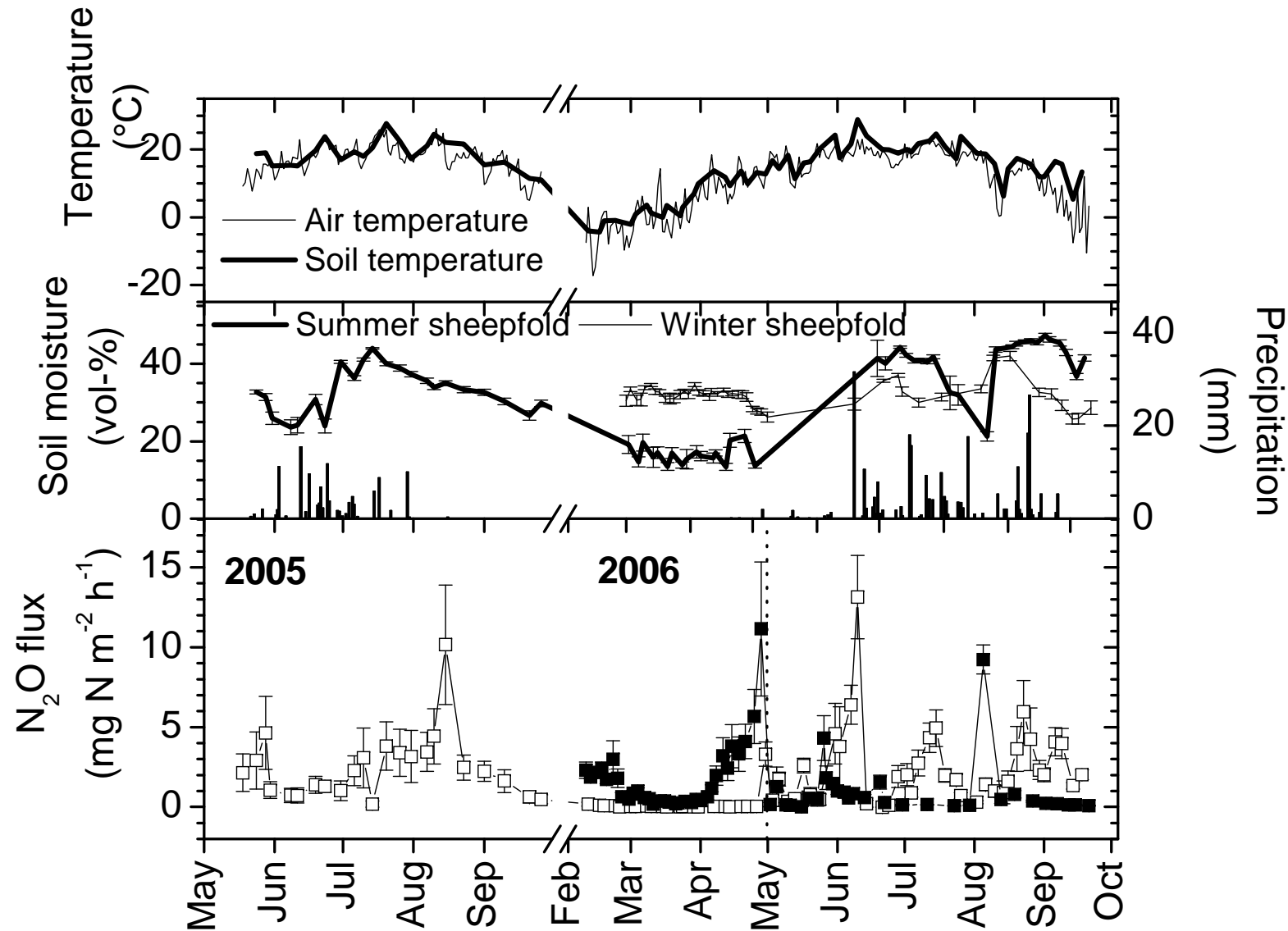
- Full annual cycles
 - GHG exchange
 - Gas permeability
 - temperature, moisture, etc.
 - microbial N-turnover, microb. biomass
- Simulation of C/N turnover
- Regionalisation and scenarios

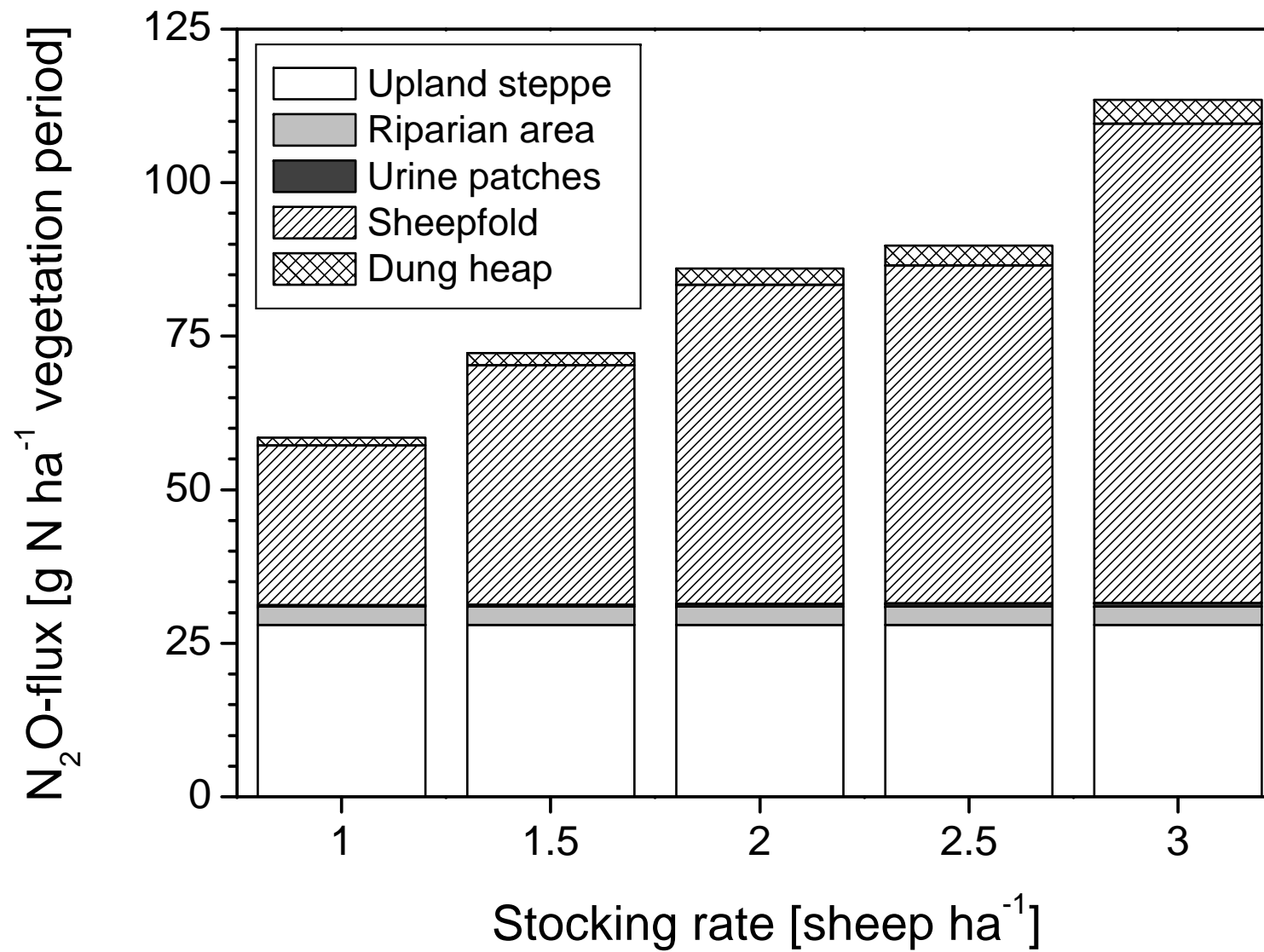












ENVIRONMENTAL TRANSITION of China's Ecosystems under predicted global changes (ENTRANCE)

