



# Overview of Hydrology Research Groups In THU

## Apetizer

Baoxiang Pan

Institute of Hydrology and Water Resources  
Tsinghua University

10.21.2015

1 HydroYang

2 HydroSky

3 UrbanNi

4 Hu & Tian

5 Wang & Zhao

6 ETCong

- Faculty
- Projects
  - Flux Observation Across Northern China
  - Coupling CLM with Distributed Hydrologic Model
  - Mechanism & Application of Water-Heat Correlation Pattern
  - Ecohydrology
  - Others

<http://www.hydroyang.com>



Dawen Yang  
Professor



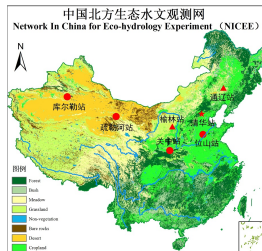
Hanbo Yang  
Associate Professor



Huimin Lei  
Lecturer

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# Flux Observation Across Northern China

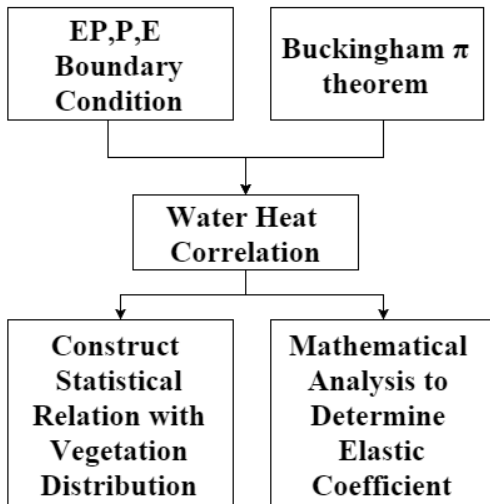


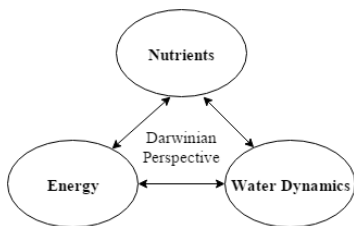
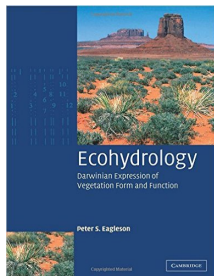
- Precipitation
  - RADAR
- Evapotranspiration
  - Eddy Covariance (EC)
  - Large Aperture Scintillometers (LAS)
  - Soil Respirometer
- Ecological Terms
  - LI-2000 (NDVI, LAI)
- Common Meteorological & Pedological & Hydrological & Ecological Observers

CLM Version	Hydrological Section
CLM 3.5	TOPMODEL
CLM 4.5	TOPMODEL & VIC (Optional)
CLM 5	GBHM <sup>1</sup> ?

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<sup>1</sup>Geomorphology Based Hydrological Model





- How are the **physical characteristics of vegetations** related to the climates and soils ?
- What is the **maximum biological productivity** to be expected in a given climate and soil ?



Project	Principal
Hydrologic & Land Surface Modelling in Upper Heihe River Basin	Yue Qin
Data Assimilation	He Chen
Information Theory Applied in Geo Science	Wei Gong & Grey Nearing
Drought Detection	Kai Xu

- Faculty
- Projects
  - Global Flood Monitoring System
  - GRACE Satellite-based Water Change estimation
  - Hydrologic Extremes

<http://hydrosky.org>



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Yang Hong  
Professor

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Di Long  
Distinguished Research Fellow

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Satellite Based	RADAR Based	Gauge Based
TRMM	Q2	MESONET
PERSIANN	S-band C-band	GPCC
GPCP/CMAP	Phased Array Radar	CPC Daily Gauge



- Faculty
- Projects
  - Urban Hydrology
  - Weather Climate Analysis & Forecast Based On WRF
  - Mechanism in Hydrometeorology
  - RADAR Precipitation Observation
  - International Riverbasin Management

<http://www.urbanmetu.org/>



Guangheng Ni  
Professor



Tongtiegang Zhao  
Lecturer



Ting Sun  
Post Doctor

- Faculty
- Projects
  - Experimental Basin
  - Hydrological Simulation
  - Social Hydrology

<http://www.thuwater.org/>





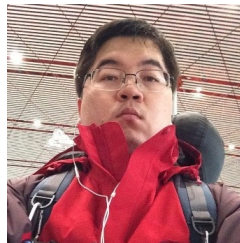
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Heping Hu  
Professor



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Fuqiang Tian  
Associate Professor



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Hongchang Hu  
Lecturer

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- Faculty
- Projects
  - Water Resources Management in Drought Area
  - Reservoir Operation



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Zhongjing Wang  
Professor

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Jiangshi Zhao  
Associate Professor

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- Faculty
- Projects
  - Flux Observation Across Northern China

<http://www.etcong.com/>

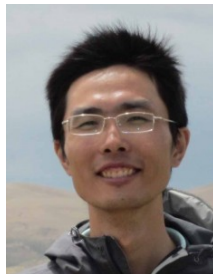




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Zhentao Cong  
Associate Professor

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Danwu Zhang  
Post Doctor

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