



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

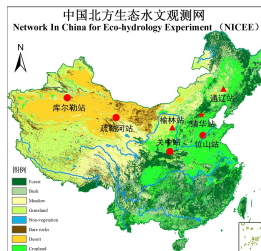


Hanbo Yang
Associate Professor



Huimin Lei
Lecturer

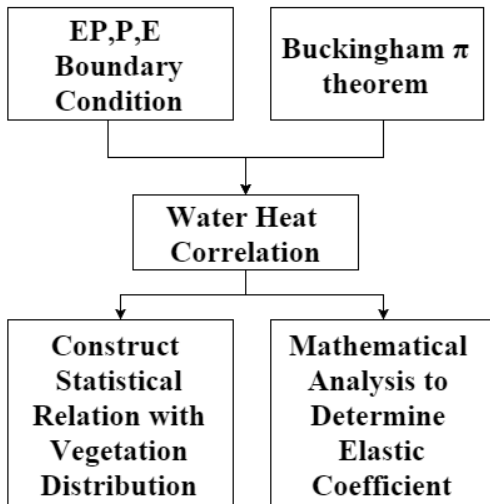
Flux Observation Across Northern China

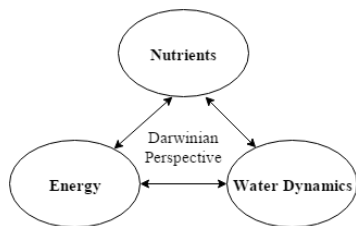
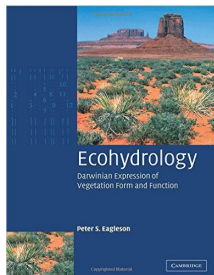


- Precipitation
 - RADAR
- Evapotranspiration
 - Eddy Covariance (EC)
 - Large Aperture Scintillometers (LAS)
 - Soil Respirometer
- Ecological Terms
 - LI-2000 (NDVI, LAI)
- Common Meteorological & Pedological & Hydrological & Ecological Observers

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

¹Geomorphology 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

<http://hydrosky.org>



Yang Hong
Professor



Di Long
Distinguished Research Fellow

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

- Total Water Storage Estimation
- Drought & Flood Monitoring
- Signal Loss Restore with Global Hydrological Model

- Faculty
- Projects
 - Urban Hydrology
 - Mechanism in Hydrometeorology
 - RADAR Precipitation Observation
 - International Riverbasin Management

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



Guangheng Ni
Professor



Tongtiegang Zhao
Lecturer



Ting Sun
Post Doctor

- Extreme Precipitation Forecast with WRF
- Hydraulic Modelling of Urban Area (Delft 3D)
- Anthropogenic Heat in Urban Environment
- Urban Evapotranspiration
- Green Roof

The **Hysteresis Effect** in diurnal cycles of net radiation R_n and ground heat flux G_0 ²

²Sun T, Wang Z H, Ni G H. Revisiting the hysteresis effect in surface energy budgets[J]. Geophysical Research Letters, 2013, 40(9): 1741-1747.

- Rainfall District Forecast based on RADAR Observation
- Rainfall Amount Estimation

Why India and China should leave the Yarlung Tsangpo alone

Prem Shankar Jha
05.03.2014

中文版本



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comments

By pressing ahead with plans to develop the river basin, the two countries are inviting calamity



Earthquakes in the Himalayas regularly cause landslides that block rivers (Image by Yang Yong).

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understanding asia's water
crisis

主题 TOPICS



Water

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

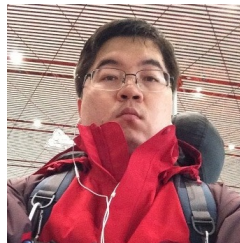
<http://www.thuwater.org/>



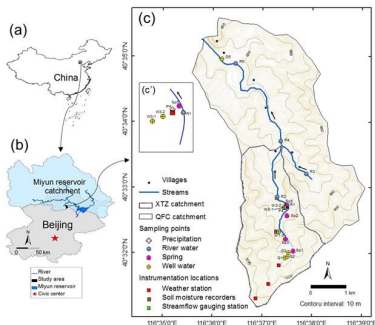
Heping Hu
Professor



Fuqiang Tian
Associate Professor



Hongchang Hu
Lecturer



Flux Observation

Isotope Tracer

Soil CrossSection

Ecologic Observation

Wells

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



Zhongjing Wang
Professor



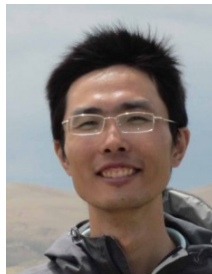
Jiangshi Zhao
Associate Professor

- Faculty
- Projects
 - Flux Observation Across Northern China

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



Zhentao Cong
Associate Professor



Danwu Zhang
Post Doctor

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afd sadf