

PAGES 2nd
Global Monsoon
Symposium

*Global Monsoon and Low-Latitude
Processes: Evolution and Variability*



Tongji University, Shanghai

September 13-15, 2010

**SECOND CIRCULAR AND
REGISTRATION FORM**

DEADLINE

Abstract Submission and Early Registration

July 31, 2010

The First Circular was well received by both paleo and modern climatology communities. This is the Second Circular with extended scientific coverage to include monsoon-related extreme hydrological events, and with detailed information about abstract submission and registration. Kindly be aware of the July 31st deadline.

Launched in 2007, the PAGES Working Group “Global Monsoon and Low-Latitude Processes: Evolution and Variability” had its First Symposium in Shanghai, October 29-31, 2008. 60 scientists from 5 continents gathered at Tongji University in Shanghai for the first PAGES Global Monsoon Symposium to discuss global monsoon changes from a geological perspective. The symposium brought together paleo- and modern climatologists, data-producers and modelers, and provided a general review of the current status of global monsoon studies and some preliminary discussion on several basic questions such as the concept of “global monsoon”. Of great interest was the coherent variations of regional monsoons on orbital scales, yet no consensus was reached in the use of monsoon proxies.

The 2nd Symposium in 2010 will be a continuation with in-depth discussion on the concept of Global Monsoon and its response to external forcing and variability arising from internal feedback processes in the Earth climate. The focus will be laid on the following four topics with a broadened temporal scope:

-- **Global monsoon concept.** What is “global monsoon”? Is it a global system and one of the major modes of climate variability, or just a collective behavior of regional monsoons? If the “global monsoon” is a global-scale seasonal overturning circulation of the atmosphere and the associated seasonal contrast in precipitation, does it also apply to variations on longer time scales?

-- **Global correlation of regional monsoons.** If the regional monsoons are correlated on orbital time scales, can the regional monsoon variability also be correlated on other time scales? Is millennial scale (D-O type) variation common to

all monsoon systems? Are there coherent regional monsoon responses to variations in solar activity? Are there consistent trends of monsoon systems over the last millennium and the last century? In order to address these questions, presentations of regional monsoon variations are relevant. Comparative studies are encouraged.

-- **Evidence of global monsoon intensity.** What are proxies of global monsoon? Do $\delta^{18}\text{O}$ (and Dole effect) and CH_4 concentration recorded in ice cores reflect global monsoon changes? Can we distinguish global from regional monsoon signals? How to interpret the speleothem isotope signal? Long-term global monsoon intensity is suggested to be controlled by external forcing such as sea-land distribution and topography of continents. How well is this hypothesis supported by the geological records?

-- **Extreme hydrological events.** How is the magnitude and frequency of extreme hydrological events in monsoon regions changing over the last few millennia? What is the cause of the observed changes? How are the changes related to average climate and global monsoon intensity?

Scientific Committee (* co-chairs):

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Secretariat Contact

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SCIENTIFIC PROGRAM:

Oral Sessions:

Oral sessions will include invited and contributed papers. Following are some papers to be presented at the Symposium:

Global Monsoon

Peter Webster (Georgia Institute of Technology, USA)

The evolving monsoon: Past present and future

Bin Wang (University of Hawaii, USA)

Recent Trend and Variability of the Global Monsoon

John Fasullo (NCAR, USA)

The Global Monsoon, Insights from NCAR's CCSM4

Zhengyu Liu (University of Wisconsin, USA)

Modeling vegetation impact on global monsoons

Bette L. Otto-Bliesner (NCAR, USA)

Simulating the transient evolution of global monsoon during the last deglaciation

Hai Cheng (University of Minnesota, USA)

The Global Monsoon as Seen through Asian and South American Cave Records

Guoxiong Wu (LASG, CAS, China)

Multi-scale forcing and the formation of desert and monsoon in the subtropics

Pinxian Wang (Tongji University, China)

Searching for global monsoon proxies

Global View on Regional Monsoons

Pascal Braconnot (CEA-CNRS, France)

Relative impact of insolation changes, fresh water fluxes and ice-sheet on African and Asian monsoon characteristics

Peter deMenocal (Lamont-Doherty Earth Observatory, USA)

How and why did African Climate change over the course of early Human Evolution?

Francisco W. Cruz, Jr. (Instituto de Geociências, Universidade de São Paulo, Brasil)

South American Monsoon Regime in the Last Two Glacial Cycles

Larry Petersen (University of Miami, USA)

The Paleohydrology of Northern South America and its Relationship to Global Abrupt Climate Change

Anil Gupta (Indian Institute of Technology, Kharagpur, India)

Abrupt changes in the Indian monsoon during major climatic events: 40 Kyr record from the Arabian Sea

Yihui Ding (Lab. Climate Studies, China Meteorological Administration, China)

The variability of the Asian summer monsoon in warmer climate

Akio Kitoh (Meteorological Research Institute, Tsukuba, Japan)

High-resolution modeling on mountain uplift and the Asian monsoon evolution

Jose Marengo (CCST, INPE, Cachoeira Paulista, São Paulo, Brazil)

Recent developments on the South American Monsoon System

Ryuji Tada (Dept. of Earth and Planetary Science, University of Tokyo, Japan)

Millennial-scale tele-connection of monsoon in northern hemisphere through westerly jet/ITCZ and its relation with solar activity.

Extreme Hydrological Events and Global Monsoon over Last Millennium

Bob Wasson (Charles Darwin University, Australia)

Some Methodological Issues in the Reconstruction of Flood Histories from Sedimentary Records

Jon Nott (Jamescook University, Australia)

High resolution records of tropical cyclones, storm surge and the Australian monsoon over the past 1,000 years'

Vishwas Kale (University of Pune, India)

Late Holocene variability in large monsoon floods: palaeoflood evidence from the Indian peninsula

Willie Soon (Harvard-Smithsonian Center for Astrophysics, USA)

A mechanistic view of the Sun-Climate connection: The role of the Arctic

Jian Liu (Nanjing Institute of Geography and Limnology, CAS, China)

Centennial Variation of the Global Monsoon Precipitation in the Last Millennium

Many more interesting papers will be presented to the oral sessions.

Poster Sessions:

All posters will be displayed during all three days of the symposium and time will be allocated specifically to view posters. The display area for a poster is **0.90 m wide** and **1.20 m high**. Self-adhesive Velcro tape and/or pins will be available to attach your poster.

GENERAL INFORMATION

Venue:

Lecture hall in the ground floor, Ocean Building, School of Ocean and Earth Sciences, Tongji University, 1239 Siping Road, Shanghai, China

Accommodation:

Rooms for the participants have been reserved in the:

Experts Service Center of Tongji University

69 Zhangwu Road

Phone: 86-21-65016969

This is a 3-star hotel with 170 rooms, about 10 min walking distance from the meeting site. The room price is 388 RMB (~60 U.S. dollars) which includes free breakfast and free internet access in the room. Please send an email to Jun Tian (tianjun@tongji.edu.cn) to indicate if you need us to reserve the hotel for you.



Registration:

Registration fee is US\$100.00 until July 31, 2010, and US\$150.00 afterwards.

Please send your registration form to Jun Tian, tianjun@tongji.edu.cn

Abstract deadline:

July 31, 2010

Please send your abstract to Jun Tian, email: tianjun@tongji.edu.cn

Required Abstract Format

Page format: A4 size, with 2.54 cm margins on top and bottom, and 3.17 cm margins at both sides, single-spaced.

The abstract should include paper title, author's name, authors' affiliation, and should be no more than 500 words, with one figure at maximum.



Excursion:

EXPO 2010 SHANGHAI CHINA

Duration : May 1 to Oct 31, 2010

Website : <http://en.expo2010.cn/>

On September 16, we will organize a one-day visit of the EXPO 2010. The cost of 180 RMB (~27 U.S. dollars) is not included in the registration fee. Please send an email to Jun Tian (tianjun@tongji.edu.cn) or write on the registration form if you want to join the EXPO excursion.

Pictures of some pavilions



China Pavilion



Thailand Pavilion



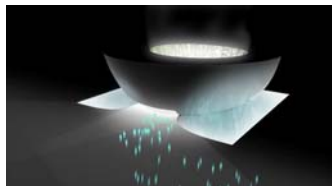
UK Pavilion



Nepal Pavilion



Indian Pavilion



Finland Pavilion



Brazil Pavilion



Australia Pavilion



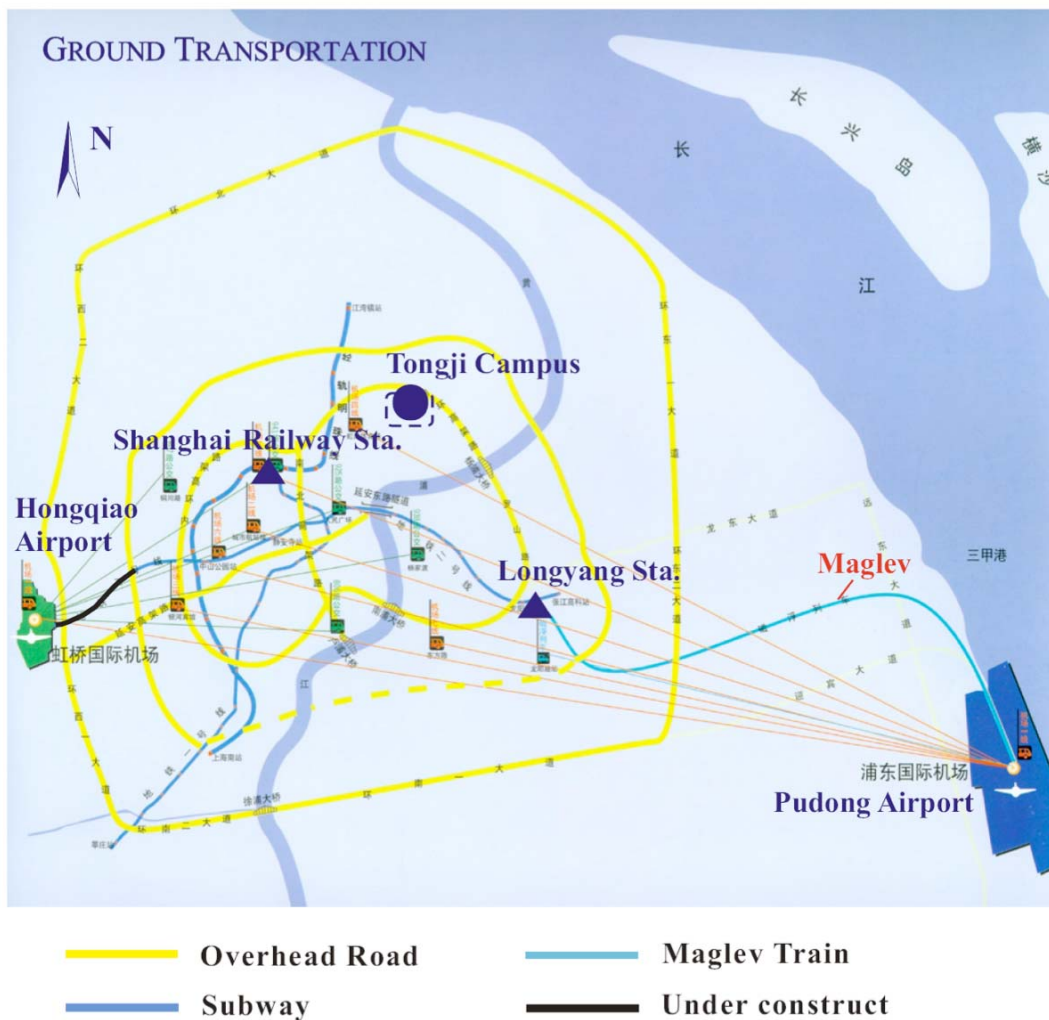
Swedish Pavilion

Expo 2010 Shanghai China will be a great event to explore the full potential of urban life in the 21st century and a significant period in urban evolution. Fifty-five percent of the world population is expected to live in cities by the year 2010. The prospect of future urban life, a subject of global interest, concerns all nations, developed or less developed, and their people. Being the first World Exposition on the theme of city, Exposition 2010 will attract governments

and people from across the world, focusing on the theme "Better City, Better Life." For its 184 days, participants will display urban civilization to the full extent, exchange their experiences of urban development, disseminate advanced notions on cities and explore new approaches to human habitat, lifestyle and working conditions in the new century. They will learn how to create an eco-friendly society and maintain the sustainable development of human beings.

GROUND TRANSPORTATION

There are two international airports in Shanghai, the Pudong International Airport (airport code PVG) and the Hongqiao International Airport (airport code SHA). Therefore, pay attention to the airport where you will arrive. It is very easy to reach the Expert Service Center of Tongji University from the airports by taxi, and less so by public transport.



From the Pudong International Airport:

Metro: Take Line 2, and transfer in Station “East Nanjing Road” for Line 10, then stop at the station “Tongji University”. Please notice the start and end time of the Metro lines.

Taxi: Take a taxi at the Pudong Airport directly to the Tongji Expert Centre. It takes you less than one hour and costs about 150 yuan.

Maglev + taxi: Take Maglev at the Pudong Airport, get off Maglev at the Longyang Station (terminal of Maglev). Then, take a taxi outside the Longyang Sta. to the Tongji Expert Centre. Ticket of Maglev: 50 yuan each, or 40 yuan each by showing your flight ticket. Taxi costs about 50 yuan.

Maglev + Metros + Taxi: This is cheaper but more complicated choice. Take Maglev at the Pudong Airport, transit to Metro Line 2 at the Longyang Sta. (terminal of Maglev), then change to Metro Line 4 at the “Century Avenue” Sta., and get off at the “Siping Road” Sta. The distance from “Siping Road” Sta. to the Tongji Expert Centre measures about 1.5km, so a taxi will cost you only 11 yuan.

Airport bus + Taxi: Take Airport Bus Line 4 at the Pudong Airport, get off the Bus at one of the 3 stations: Wu Jiaochang, Da Baishu or Hongkou football stadium, and then take a taxi to the Tongji Expert Centre for about 20 yuan. All three stations are at a similar distance from the Centre.

From the Hongqiao International Airport:

Taxi: Take a taxi from the Hongqiao Airport to the Tongji Expert Centre is the easiest way. It takes you about 40 minutes and costs ~70 yuan. There are also Airport buses, but none of those comes close to Tongji.

Metro: Take Line 2, and transfer in Station “East Nanjing Road” for Line 10, then stop at the station “Tongji University”. Please notice the start and end time of the Metro lines.

In general, taxi transport is highly recommended, especially both the Maglev and some Airport bus lines do not serve after 21:00.

Please show the following note to the taxi driver who does not understand English:

Please take me to the Expert Service Center of Tongji University (69 Zhangwu Road).

我要到 杨浦区

同济大学 专家服务中心

(彰武路69号)

VISITING SHANGHAI

The largest city in China, Shanghai contains the most striking blend of oriental and western cultures and of the past and present. In this city, European-style buildings can be seen standing alongside typical Chinese structures and ancient temples.

Modern ocean-going vessels sail past junks. A flourishing commercial and industrial center, Shanghai has a population of over 16 million and a land area of 3,355 square miles. Find more information and attractions in Shanghai at:

<http://www.chinatour.com/attraction/shanghai.htm>.

Weather

September is in the late summer in Shanghai. Most of the days in September would be sunny and dry. The weather forecast of Shanghai is available at <http://weather.china.org.cn/english/>.

Subway

The subway system in Shanghai is convenient. The Tongji University Station of Line 10 is just at the gate of Tongji University. A subway ticket costs from 2 yuan to 7 yuan, depending on distance.



Shanghai Subway System

Currency

Chinese currency is called Renminbi (RMB) which means “People’s Currency”. The units are 圆yuan, 角jiao (0.1 yuan), and 分fen (0.01 yuan). The paper currency includes 100, 50, 20, 10, 5 and rarely 1 yuan, and coins include 1, 0.5, and 0.1 yuan. Occasionally you may receive 0.05, 0.02, and 0.01 yuan coin as change in supermarkets. See more details at: <http://www.chinatour.com/currency/currency.htm>.

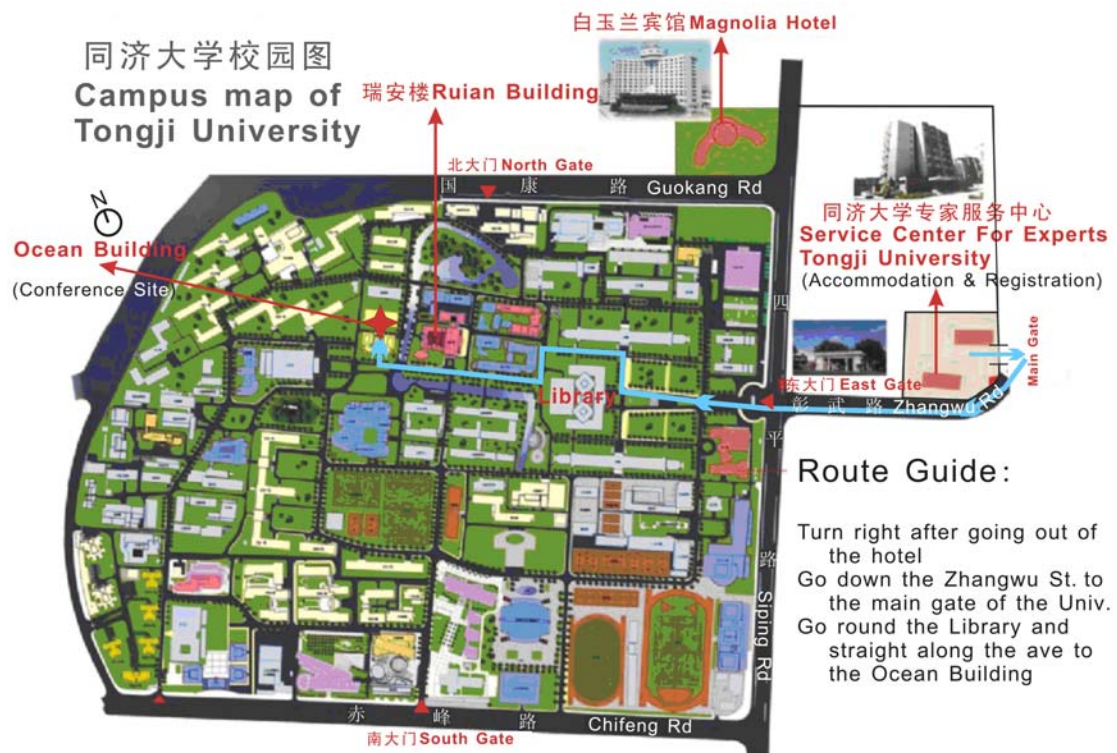
Money Exchange

Money exchange is available in the Airport upon your arrival, and you will need Chinese money for transport. Although there are China Merchants Bank and China Construction Bank on the way of the hotel to the university, and some ATMs nearby are 24- hour open for your convenient currency exchange. The current exchange rate is approximately:

1 US\$ = 6.75 yuan

1 Euro = 8.45 yuan

1 £ = 10.2 yuan



Campus of Tongji campus

PAGES Global Monsoon 2010 Symposium

Global Monsoon and Low-Latitude Processes: Evolution and Variability

Shanghai, September 13-15, 2010

REGISTRATION and ACCOMMODATION

Please complete this form and fax or mail it to the Conference Secretariat:

Jun Tian, State Key Laboratory of Marine Geology, Tongji University, 1239 Siping Road, Shanghai 200092, China. Phone: +86-21-6598 0356 fax: +86-21-6598 8808, e-mail: tianjun@tongji.edu.cn.

Forms must be received by 31 July 2010 for early registration

REGISTRATION NUMBER		Received Date		Certified Date	
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REGISTRATION

Title	<input type="checkbox"/> Prof. <input type="checkbox"/> Dr. <input type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Name	for		
		Badge			
Given Name (s)		Middle Name		Family Name	
Gender	Male <input type="checkbox"/> Female	Year of Birth	of	_____ (dd/mm/yyyy)	
Affiliation or Institution					
Postal Address					
State or Province		Postal Code		Country or Region	
E-mail				Phone	
2nd E-mail (Optional)				Fax	

REGISTRATION FEES

	On or before 31 July 2010	On or after 31 July 2010
Registration	<input type="checkbox"/> US\$100	<input type="checkbox"/> US\$150
Total Registration	US\$: _____	

ACCOMMODATION







To guarantee your reservation, your credit card information is required. However, it is not charged until you check in. The total accommodation will be charged on the date of on-site registration. All rooms will be assigned on first-come first-served basis.

Arrival Date	_____ (dd/mm/yyyy)	Departure Date	_____ (dd/mm/yyyy)
Name of Hotel		Number of Rooms	Number of Persons
Experts Service Center of Tongji University			

FIELD EXCURSION

YES		NO	
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Information of credit card:

Card Type	 <input type="checkbox"/> VISA  <input type="checkbox"/> MasterCard  <input type="checkbox"/> American Express
	 <input type="checkbox"/> China UnionPay  <input type="checkbox"/> JCB  <input type="checkbox"/> Diners Club
Card Number	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Expiration Date	_____/_____(month/year)
Name of Card Holder	(please print as it appears on card)
Phone	
E-mail	
Signature	Date