

 <b>GCOS SCIENCE DAY PROGRAMME</b> 25 SEPTEMBER, 2017 HANGZHOU, CHINA  			
#	TIME	TOPIC	PRESENTER
	09:00 – 09:30	<b>Registration</b>	
		<b>Session 1: The Global and regional context: challenges and prospects</b>	<b>Chair: Renhe ZHANG</b>
	09:30 – 09:40	<b>Opening address</b>	Meiyan JIAO, Deputy Administrator of CMA
1.	09:40 – 09:55	What is GCOS and why should we care about climate monitoring	Carolin Richter, GCOS Secretariat Director
2.	09:55 – 10:10	GCOS 2016 implementation plan: vision and challenges	Stephen Briggs, GCOS SC Chairman
3.	10:10 – 10:25	Progress of CCOS and Integrated Meteorological Observation System development plan in CMA (2016-2020)	Chong PEI, GCOS-China
4.	10:25 – 10:40	Status and new challenges of climate operation and climate service in China	Qingchen CHAO, BCC/CMA
	10:40 – 11:10	Group Photo / Coffee Break	
		<b>Session 2: Atmosphere, Ocean and Terrestrial observations</b>	<b>Chair: Panmao ZHAI</b>
5.	11:10 – 11:25	The current status of Chinese Fengyun Meteorological Satellite and Prospects in Climate Observations	Peng ZHANG, NSMC/CMA
6.	11:25 – 11:40	Progress on Chinese Global Ocean Observation for Climate	Weidong YU, NMEFC /SOA
7.	11:40 – 11:55	Introduction of Chinese Ecosystem Observation Network (CERN)	Shaoqiang WANG, IGSNRR/CAS
8.	11:55– 12:05	Progress of Climate Observation System in Japan, as contributions to GCOS Regional Activities in Asia	Kazuto SUDA, JMA
9.	12:05 – 12:20	Atmospheric composition observation of China Meteorological Administration and its contribution to GAW	Xiaochun ZHANG, MOC/CMA
	12:20 – 14:00	Lunch Break	
		<b>Session 3: Climate data and products to improve the understanding of climate variability and climate change</b>	<b>Chair: Weidong YU</b>
10.	14:00 – 14:20	Impact of Eurasian spring snow decrement on East Asian summer precipitation	Renhe ZHANG, FDU
11.	14:20 – 14:40	IPCC WGI AR6: Need of the climate system observation data	Panmao ZHAI, IPCC

12.	14:40 – 15:00	Adapting to Climate Change: the Pioneering Practice of Climate-smart Agriculture in China	Yinlong XU, CAAS
13.	15:00 – 15:20	Global Monsoons Model Intercomparison Project (GMMIP) and the Challenges from Observational Data Perspective	Tianjun ZHOU, IAP/CAS
14.	15:20 – 15:40	CMA 40-year Global Reanalysis (CRA-40): Plan and Progress	Lipeng JIANG, NMIC/CMA
	15:40 – 16:10	Coffee Break	
		<b>Session 4: Support regional climate change adaptation and sustainable development</b>	<b>Chair: Qingchen CHAO</b>
15.	16:10 – 16:30	Study on cryospheric service function	Cunde XIAO, BNU
16.	16:30 – 16:50	Earth Observation for the Belt & Road Region and Digital Belt and Road (DBAR) Program	Li ZHANG, RAD/CAS
17.	16:50 – 17:10	Megacities Experiment on integrated Meteorological Observation in China	Yong ZHANG, MOC/CMA
18.	17:10 – 17:30	Carbon emission monitoring and verification in the Metropolitan area: from novel observation techniques to robust models	Xi CHEN, IAP/CAS
	17:30 – 17:45	<b>Discussion and closing session</b>	

## Speaker's Profile



***Dr. Carolin Richter***

Director of the GCOS Secretariat

Carolin RICHTER has been the Director of the Global Climate Observing System (GCOS) Secretariat since 2009. Carolin has a Diploma and a Doctorate in Meteorology from the University of Hamburg, Germany. She specialized in observing systems and ground-based remote sensing technologies already early in her career at the Institute of Meteorology, University of Hamburg. Carolin had her first insight into the UN system and WMO as Junior Professional Officer from 1996 to 1999. She moved on to the German Meteorological Service in 1999, heading the division for measurement technology, and serving as deputy head of the department for Observing Networks and Data. Carolin was transferred to the German Federal Ministry of Transport, to the Division for Meteorology, Climate Monitoring and Earth Observation from 2004 to 2009. She is a Member of the German Meteorological Society, UK Royal Meteorological Society, American Geophysical Union and Alumni of the Marie Curie Fellowship Association.

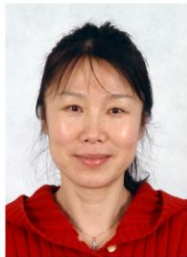


***Prof. Stephen Briggs***

Senior Adviser, Earth Observation, European Space Agency

Stephen is currently Senior Adviser in the Directorate of Earth Observation Programmes, ESA, with responsibility for future EO strategy and, particularly, relations to external bodies. He is currently Chairman of the Global Climate Observing System (GCOS) Steering Committee and in this context has constant interaction with the IPCC WGs on adaptation and mitigation and advises on the use of satellite data in the UNFCCC. He has been involved in the development of the Group on Earth Observations (GEO), an IGO with over 100 sovereign national members and a further 100 participating organisations, since its inception in 2003 and sits on its Executive Committee and Programme Board. He is the Chair of the Strategic Implementation Team of the Committee on Earth Observation Satellites (CEOS), and is ad hominem Senior Adviser to the Chinese National Remote Sensing Programme. He also serves on the Advisory Board of the Global Terrestrial Network – Glaciers. He was the founding Chair of the International Charter Space and Major Disasters, developed to ensure easy access to satellite data for emergency management. He has advised the Asian Development Bank (ADB) and the World Bank (WB) on

disaster management scenarios and recently spoke at the Annual Meeting of ADB on the use of satellite data analytics in risk reduction in Asian cities. He graduated from University College London with First Class Honours BSc in Astronomy, and a PhD in Astrophysics.



***Ms. Pei Chong***

Director of the Observations Network Management Division,  
Integrated Observations Department, China Meteorological Administration

She received the Bachelor degree in Nanjing Information & Engineering University, M.S. degree in Beijing University of Posts and Telecommunications (BUPT). Her research areas are Met Observations and Radar Engineering, with work experiences in weather radar Acceptance and Site tests and data analysis, transmitter BITE project designer, China IOS data quality monitoring sys. Designer. She serves as the WIGOS national FP, CBS-ET-SBO co-chair, IPET-OWR expert, WIGOS-WPD drafter.



***Prof. Qingchen Chao***

Deputy Director General  
National Climate Center  
China Meteorological Administration

She received the Bachelor degree in Beijing Institute of Meteorology, Master degree and Ph.D in Institute of Atmospheric Physics, Chinese Academy of Sciences. Her research areas are climate system analysis and interactions, risk management and climate policy. She serves as the member of Global Climate Observing System (GCOS) Steering Committee. She has been actively involved in the work of the UNFCCC and IPCC for 14 years as one of Chinese delegates. She is the vice director of expert writing group on 3<sup>rd</sup> China Climate Change Assessment Report, the chair of Climate Change and Low Carbon Development Committee of Chinese Meteorological Society (CMS), the vice chair of Meteorological Economic Committee of CMS, National Standardized Technical Committee on Climate and Climate Change, and China Future Ocean Alliance. She was the deputy director general of Department of S & T and Climate Change of CMA from 2004 to 2011.



***Prof. Peng Zhang***

Deputy Director General  
National Satellite Meteorological Center  
China Meteorological Administration

He serves as the Deputy Director-General of National Satellite Meteorological Center

(NSMC/CMA) since 2013, Chief Director of FY-3 ground segment since 2013, Chair of Global Space Inter-Calibration System (GSICS) Executive Panel since 2014, Chief Director of Chinese TanSat satellite ground segment since 2015. His major field focuses on the atmospheric remote sensing, satellite data assimilation, satellite calibration and validation.



***Prof. Weidong Yu***

Center for Ocean Climate,  
National Marine Environment Forecasting Center,  
State Oceanic Administration (SOA)

He joined Chinese State Oceanic Administration (SOA) in 1995 when he got the master degree and later on the PhD degree while holding the position. His research started with ocean wave modeling and then changed to ocean-atmosphere interaction observation and climate dynamics, with a particular emphasis on the tropical Indian Ocean and Asian monsoon. He is involved in the planning and development of some international projects like IndOOS, IIOE-2, YMC and TPOS-2020, and now work with OOPC.



***Prof. Shaoqiang Wang***

Deputy Director of the Key Lab of Ecosystem Network Observation and modeling,  
Institute of Geographic Sciences and Natural Resources Research,  
Chinese Academy Of Sciences (CAS)

He got the Master degree from Beijing Normal University in 1997 and Ph.D from IGSNRR in 2000. His study fields focus on the terrestrial ecosystem carbon cycle based on model and ecological remote sensing. He has published 52 papers on international journals and one book in Chinese.



***Dr. Kazuto Suda***

Director of Atmospheric Environment Division  
Global Environment and Marine Department  
Japan Meteorological Agency

He entered the Japan Meteorological Agency (JMA) in 1987, after studying geophysics at the University of Tokyo. He experienced a number of posts, not only as a meteorologist at the JMA, but also as a Junior Professional Officer at the Joint Planning Office for the Global Climate Observing System (GCOS) and as a foreign service officer both at the Ministry of Foreign Affairs in Tokyo and at the Permanent Mission of Japan in Vienna. Professional background

mainly in the areas of global climate change and the atmospheric environment, with contributions to the WMO Global Atmosphere Watch (GAW) programme and the operation of GAW's World Data Centre for Greenhouse Gases (WDCGG) and preparation of annual WMO Greenhouse Gas Bulletins. Extensive experience in bilateral and multilateral coordination with the National Meteorological Services of Member countries, as well as WMO and other international organizations, including the United Nations Framework Convention on Climate Change (UNFCCC) and the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO).



***Mr. Xiaochun Zhang***

Director of the Atmosphere Watch and Services,  
Meteorological Observation Centre  
China Meteorological Administration

He received the Bachelor degree Nanjing Institute of Meteorology with the major of atmospheric physics, who is the director of the Center for Atmosphere Watch and Services of CMA (CAWAS) now. He engaged in the observation and study on the atmospheric composition background observation for more than 25 years, and he has a relatively rich experience on the observation, completed more than 20 projects which focused on the networks built up and improved the measurements ability of the regional GAW, sand and dust storm, and atmospheric composition networks. He has published over 20 articles, 10 national and meteorological industry standards and achieved 13 software copyrights.



***Prof. Renhe Zhang***

Director of the Institute of Atmospheric Sciences,  
Fudan University

Professor Renhe Zhang has been mainly engaged in the researches of tropical large-scale air-sea interaction, Asian monsoon and Tibetan Plateau meteorology. He got his bachelor degree at Lanzhou University in 1982, master and doctor degrees at Institute of Atmospheric Physics, Chinese Academy of Sciences (IAP/CAS) in 1987 and 1991, respectively. He was a postdoctoral fellow at the University of Tokyo in 1994-1995, a visiting scientist at University of Maryland in 1998-1999, and a professor at IAP/CAS in 1995-2001 and at Chinese Academy of Meteorological Sciences (CAMS) in 2001-2015, respectively. He acted as the deputy director-general of IAP/CAS in 1999-2001 and president of CAMS in 2001-2012. He was elected to be an Academician of CAS in 2015. He has been a professor and director of Institute of Atmospheric Sciences, Fudan University since 2016.



***Prof. Panmao Zhai***

IPCC WGI Co-Chair

Chinese Academy of Meteorological Sciences

China Meteorological Administration

Prof. Zhai is Chief Scientist and Ph.D. supervisor at the Chinese Academy of Meteorological Sciences in China. He has more than 30 years working experiences in climate change and variability studies. He has authored or co-authored more than 100 papers and 5 books in Chinese and English. He has joined the IPCC assessment activities since 1998. As a well-known climatologist in China, he has developed the Global Climate Monitoring and Diagnostic System, and established the ENSO Monitoring and Prediction System in China. As a Chief Scientist, he is leading a group of excellent meteorologists focusing on studying extreme weather and climate events. He was the Director-General of Department of Forecasting and Networking in China Meteorological Administration, the Vice President of Chinese Academy of Meteorological Sciences, and the Secretary General of the Chinese Meteorological Society.



***Prof. Tianjun Zhou***

Institute of Atmospheric Physics

Chinese Academy of Sciences

He is the deputy director of State Key Laboratory of Numerical Modeling for Atmospheric Sciences and Geophysical Fluid Dynamics (LASG/IAP). He received his Ph. D in Peking University in 1999. He was the co-chair of WCRP/CLIVAR Asian-Australian Monsoon Panel (AAMP) during 2013-2014, and the Lead Author of IPCC WG1 AR5. He is a member of SPARC Scientific Steering Group (SPARC-SSG), member of CLIVAR/GEWEX Monsoons Panel, member of GEWEX Data and Assessment Panel (GDAP), and member of CLIVAR Working Group on Coupled Modeling (WGCM). He is the Secretary-general of Chinese National Committee (CNC) for Future Earth Project, member of Working Group on Numerical Models/China Meteorological Society. He is the co-chair of CMIP6 sub-project Global Monsoon Model Inter-comparison Project (GMMIP). His research interests include coupled atmosphere-ocean modeling and climate dynamics, East Asian climate change and climate variability, air-sea interaction and Asian-Australian monsoon predictability. He has published about 200 papers in international SCI(E) journals. The sum of the times cited is more than 6328 in Web of Science, 12000 in Google Scholar. He was on the list of Elsevier Most Cited Chinese Researchers in 2014 and 2015. He has served as referees and editors for many international professional journals. He received the AMS Journal of Climate Editors Award in 2012. He is now the editor of Quarterly Journal of the Royal Meteorological Society, associated editor of International Journal of Climatology, and Journal of Climate.



***Prof. Cunde Xiao***

Director of State Key Lab. Earth Surface Processes and Resource Ecology  
Beijing Normal University

He is the Director of State Key Laboratory of Earth Surface Processes and Resources Ecology, Beijing Normal University, also Vice-Director of State Key Laboratory of Cryospheric Science, Chinese Academy of Sciences (CAS). He is engaged in research of cryospheric and global change. Graduated from Lanzhou University in 1988 and certificated Ph.D in CAS in 1997. So far he has published over 180 papers.



***Mr. Lipeng Jiang***

Division of Meteorological Data Research,  
National Meteorological Information Center  
China Meteorological Administration

He received the B.S. degree in Geography Sciences from Qufu Normal University in 2004 and the M.S. degree in Cartology & GIS from Nanjing University in 2007. He has worked at the National Meteorological Information Center (NMIC) since Jun., 2007 and is currently the head of data reanalysis branch in the division of data research at NMIC. His main research interests are atmospheric reanalysis and data assimilation.



***Prof. Li Zhang***

Key Laboratory of Digital Earth Science,  
Institute of Remote Sensing and Digital Earth (RADI)  
Chinese Academy of Sciences

She is the Vice Director of Hainan Key Laboratory of Earth Observation. She received a M.S. degree in geography from South Dakota State University, USA, and a Ph.D. degree from Beijing Normal University. From 2005 to 2008, she was an environmental scientist with the Science Applications International Corp (SAIC), contractor to the United States Geological Survey (USGS), Earth Resources Observation and Science (EROS) Center. She has been PI for over 10 projects at national and provincial levels. She has published 80 more academic papers. Her current research interests include applications of remote sensing for vegetation ecosystem and land-surface dynamics, and coastal area.





***Dr. Yong Zhang***

Deputy Director of the Operation Division,  
Meteorological Observation Centre  
China Meteorological Administration

He is now engaging in the field of integrated meteorological vertical observation in CMA Meteorological Observation Centre. In 1999, he graduated in climatology from Nanjing Institute of Meteorology, then M.S. degree in weather dynamics from Chinese Academy of Meteorological Sciences in 2004 and Doctor degree of climate dynamics from Institute of Atmospheric Physics, Chinese Academy of Sciences in 2007. He was once successively working in Shanxi Provincial Meteorological Service, National Climate Center, Department of Science & Technology and Climate Change, China Meteorological Administration, where he devoted to the operation and research on weather forecast, climate impact assessment, meteorological disaster risk zonation, the future scenario projections in extreme climate events in China, and the management of science & technology projects and climate change in CMA.



***Dr. Xi Chen***

Institute of Atmospheric Physics,  
Chinese Academy of Sciences

She received the Bachelor degree in Nanjing University, M.S. and Doctor degrees in Institute of Atmospheric Physics, Chinese Academy of Sciences. Her research areas are remote sensing of atmospheric components and air pollution from space. She visited University of Nebraska-Lincoln in 2015-2016. Now she is Post-doc in Institute of Atmospheric Physics.



***Prof. Yinlong Xu***

Institute of Environment and Sustainable Development in Agriculture  
Chinese Academy of Agricultural Sciences (CAAS)

He is the Chief Scientist of CAAS Innovative Research Team of Climate Change and Utilization of Agro-climatic Resources. He got his Doctor degree in the Institute of Atmospheric Physics, Chinese Academy of Sciences, in 1995, and then joined the IEDA-CAAS since January 1996. His research is focusing on the construction of climate change scenarios over China using PRECIS, the climate change vulnerability & impacts assessments, the theoretical mechanism of adaptation and construction of adaptation technology system. He serves as the member of UNEP PROVIA SSC, APAN SC, IRDR-CHINA.

## **Logistic Information**

### **Meeting Venue**

The GCOS Science Day will be held at:

Day I: Furong Multi-Function Hall (1<sup>st</sup> Floor of Building 1)

The GCOS-SC-25 will be held at:

Day II–IV: Yingui Meeting Room (2<sup>nd</sup> Floor of Building 1)

### **Sunday Sunny Resort**

No. 200, Santaishan Road,

Hangzhou 310007

China

Phone: +86-571-87975888

Fax: +86-571-87960679

<http://www.hzstsz-hotel.com>

### **Registration of Participants**

Registration of participants for the Science Day will start on 25 September from 09:00 to 09:30.

### **Opening/Closure**

The open GCOS Science Day will be held on Monday 25 September 2017, from **9:30 to 17:45**.

The GCOS Steering Committee will meet in a closed session from Tuesday 26 to Thursday 28 September 2017.

On Friday 29 September, BCC is offering an excursion to Lin'an Regional Atmospheric Background Station and Xixi National Wetland Park.

## Documents for the meeting

Available during month of August on GCOS web site:  
<http://www.wmo.int/pages/prog/gcos/>

## Local Transportation

Hangzhou International Airport is located in southeast of Hangzhou, capital city of Zhejiang Province, and about 30km from the meeting venue.

All participants are requested to make their own way to the hotel. Taxi is convenient at the airport. Depending on traffic conditions, it takes about 40 minutes from the airport to the Sunday Sunny Resort (meeting venue). The charge is around 120 CNY (US\$18).

**In case the participants have difficulty in communicating with the driver, please show the address card below:**



The address card features the GCOS logo (GLOBAL CLIMATE OBSERVING SYSTEM) and the Sunday Sunny Resort logo (三台山莊 SUNDAY SUNNY RESORT). The text on the card reads: "Please send me to 请送我到 Sunday Sunny Resort 杭州三台山莊 杭州市西湖区三台山路200号, Tel: 0571-87975888". Below the text is a photograph of the resort building, a large, modern structure with a central entrance and a circular driveway in front.

## Time zone

In relation to Greenwich, Hangzhou is +8 hours.

## Electricity, Internet and Wifi

The electrical voltage in China is 220V. The socket at meeting venue will accommodate major plugs.

Internet and Wifi will be available in hotel and meeting room.

## Reconfirmation of airline ticket reservations

Please contact the front desk or business center of the Hotels if you need to call to reconfirm your airline ticket, or contact Local Organizing Committee (LOC) members to ask for help during the meeting.

## Recommended Restaurant Nearby

**Yi Jiang Chun Shui Restaurant** **Typical food** (150m away)

Address: NO.188 San tai shan Road, Hangzhou

Phone: +86-571-87980617

**Santaishan Tea House** **Tea, Snack&Typical food** (200m away)

Address: NO.169 Santaishan Road, Hangzhou

Phone: +86-571-87981672

**Lü Cha(Green Tea)Restaurant** **Spicy&typical food** (700m away)

Address: NO.83 Long Jing Road, Hangzhou

Phone: +86-571-87888022



## **Social events**

The reception hosted by BCC/CMA will be held at 18:00pm in September 25, 2017. All participants and their accompanying persons are invited to join the reception.

## **Weather**

Hangzhou city is the capital city of Zhejiang Province which lies in the east coast of China. It has a continental climate under the influence of the subtropical monsoon. The weather in Hangzhou during the meeting will be fairly pleasant, but it is generally wet and can occasionally rain. The average temperature is about 22°C. The mean maximum is 26°C and minimum 18°C. The average precipitation during September is 123.5 mm.

## **Medical care and insurance**

The conference secretariat will be on duty all day during the conference. Please contact the Secretariat or LOC members for first aid or medical care services. The medical fee should be borne by the patient.

Participants are strongly advised to arrange their own overseas travel insurance.

## **Excursion Day (Friday 29 September )**

For all the participants who will travel on late Friday or Saturday, an excursion is being organized to Lin'an Regional Atmospheric Background Station (2 hours by car from the meeting venue) and Xixi National Wetland Park (40min by car from the meeting venue). Established in 1984, the station is one of the four atmospheric background stations in China, located at E119°44', N30°18'.





Xixi National Wetland Park is a rare urban wetland, with rich ecological resources, simple natural landscape and profound culture. It is the first and only wetland park in China combining urban life, farming and culture. The expected cost/person should be around 15–20 USD. Meals will be paid by each participant.

<https://www.travelchinaguide.com/attraction/zhejiang/hangzhou/xixi-wetland-park.htm>

The shuttle will depart at 08h00 from Sunday Sunny Resort and will arrive at Xixi National Wetland Park at about 14:00, and finally return hotel at about 19:00.

### **Currency exchange**

The official currency in China is CNY (Chinese Yuan). Currency exchange centers can be found at airport, local banks. All major currencies may be exchanged for local currency at the Hotel and local banks. Please find the latest exchange rates at <http://www.boc.cn/sourcedb/whpj/enindex.html>.

### **Local Organizing Committee**

For any queries regarding the local arrangements, please contact the Local Organizing Committee:

Mr SUN Yuan

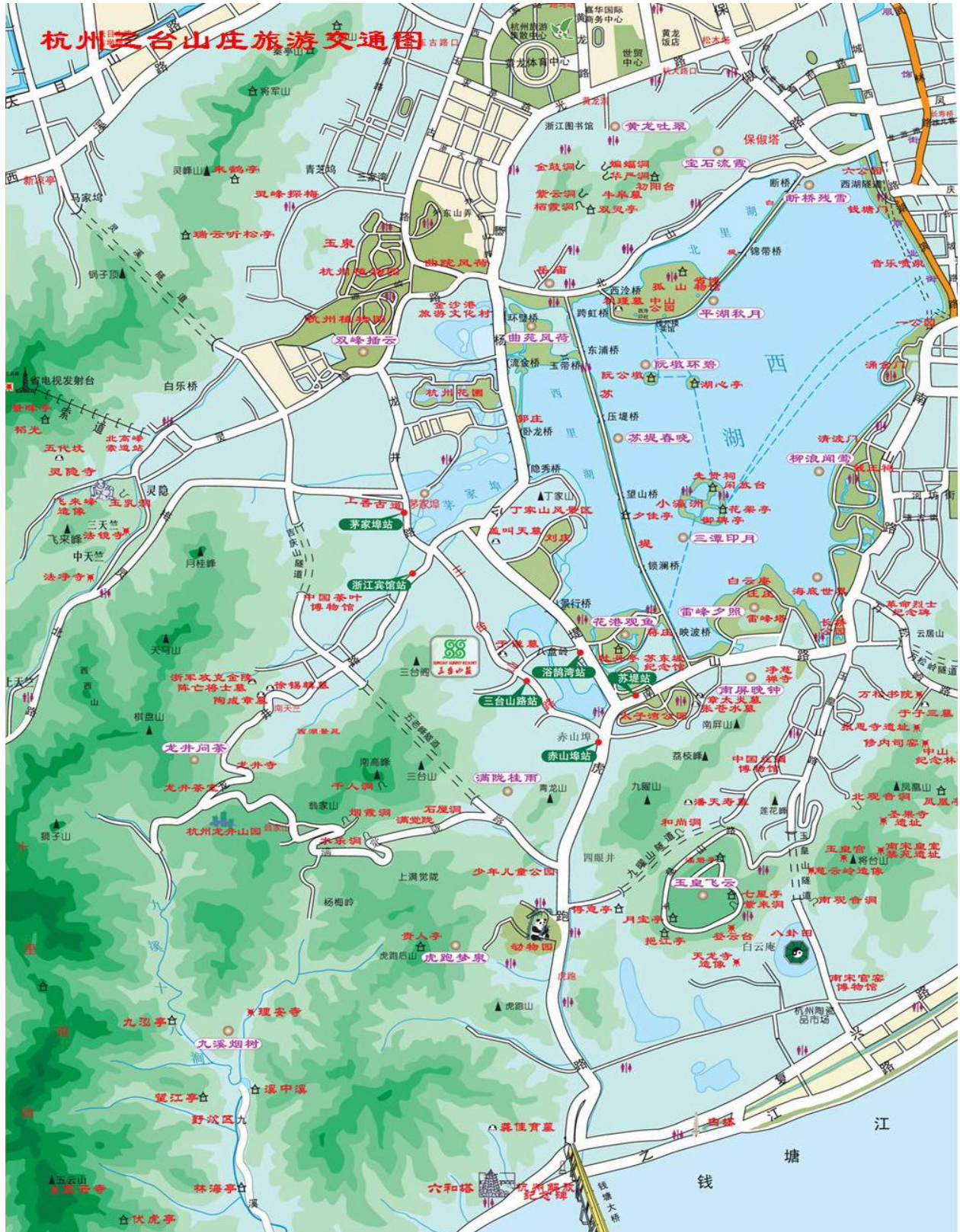
Beijing Climate Center, China Meteorological Administration

Phone: +86-10-5899-3467 (in Beijing)

Cell: (86)15001379852

E-mail: [sunyuan@cma.gov.cn](mailto:sunyuan@cma.gov.cn)

### Local Map









## List of Participants

<b>Members of the GCOS Steering Committee:</b>	
<p>Prof. Stephen BRIGGS (Chairman) European Space Agency (ESA)/ECSAT United Kingdom E-mail: <a href="mailto:Stephen.Briggs@esa.int">Stephen.Briggs@esa.int</a></p>	<p>Prof. Qingchen CHAO (Host) Deputy Director General National Climate Center China Meteorological Administration China E-mail: <a href="mailto:chaogc@cma.gov.cn">chaogc@cma.gov.cn</a></p>
<p>Prof. Albertus Johannes DOLMAN Department of Earth Sciences VU University Amsterdam The Netherlands E-mail: <a href="mailto:han.dolman@vu.nl">han.dolman@vu.nl</a></p>	<p>Dr Sybil SEITZINGER Director, Pacific Institute for Climate Solutions University of Victoria Canada E-mail: <a href="mailto:picsdir@uvic.ca">picsdir@uvic.ca</a></p>
<p>Dr Youba SOKONA Special Advisor on Sustainable Development South Centre Geneva Email: <a href="mailto:Ysokona@gmail.com">Ysokona@gmail.com</a></p>	<p>Mr Kazuto SUDA Director, Atmospheric Environment Division Global Environment and Marine Department Japan Meteorological Agency Japan E-mail: <a href="mailto:suda@met.kishou.go.jp">suda@met.kishou.go.jp</a></p>
<p>Prof. Michel VERSTRAETE The University of the Witwatersrand South Africa E-mail: <a href="mailto:MMVerstraete@gmail.com">MMVerstraete@gmail.com</a></p>	

<b>New Candidate Members for 2017</b>	
<p>Dr Sue BARRELL Bureau of Meteorology Australia E-mail: <a href="mailto:sue.barrell@bom.gov.au">sue.barrell@bom.gov.au</a></p>	<p>Dr Michael ZEMP World Glacier Monitoring Service (WGMS)/Department of Geography University of Zurich  Switzerland E-mail: <a href="mailto:michael.zemp@geo.uzh.ch">michael.zemp@geo.uzh.ch</a></p>
<p>Dr Amos KABO-BAH Department of Energy and Environmental Engineering, UENR Ghana E-mail: <a href="mailto:kabobah@yahoo.com">kabobah@yahoo.com</a> <a href="mailto:amos.kabobah@uenr.edu.gh">amos.kabobah@uenr.edu.gh</a></p>	

<b>Ex-officio Members</b>	
<p>Dr Kenneth HOLMLUND (Chair, AOPC) Head, Remote Sensing and Products Division EUMETSAT Germany E-mail: <a href="mailto:Kenneth.holmlund@eumetsat.int">Kenneth.holmlund@eumetsat.int</a></p>	<p>Prof. Wolfgang WAGNER (Chair, TOPC) Vienna University of Technology Centre for Water Resource Systems Austria E-mail: <a href="mailto:wolfgang.wagner@geo.tuwien.ac.at">wolfgang.wagner@geo.tuwien.ac.at</a></p>
<p>Dr Bernadette SLOYAN (Co-Chair, OOPC) Research Scientist CSIRO Oceans and Atmosphere Flagship Australia E-mail: <a href="mailto:bernadette.sloyan@csiro.au">bernadette.sloyan@csiro.au</a></p>	

<b>Invited Experts</b>	
<p><b>WMO Commission for Basic Systems (CBS)</b> Prof. Meiyang JIAO Vice-President, WMO Commission for Basic Systems China Meteorological Administration (CMA) China E-mail: <a href="mailto:jiaomy@cma.gov.cn">jiaomy@cma.gov.cn</a></p>	<p><b>UNFCCC</b> Mr Florin VLADU Adaptation Programme Climate Change Secretariat, UNFCCC Germany E-mail: <a href="mailto:FVladu@unfccc.int">FVladu@unfccc.int</a></p>
<p><b>WMO Commission for Climatology (CCI)</b> Dr Thomas C. PETERSON President of CCI USA E-mail: <a href="mailto:thomas.carl.peterson@gmail.com">thomas.carl.peterson@gmail.com</a></p>	<p><b>WCRP</b> Dr Jean-Noël THÉPAUT Head, Copernicus Climate Change Service ECMWF United Kingdom E-mail: <a href="mailto:jean-noel.thepaut@ecmwf.int">jean-noel.thepaut@ecmwf.int</a></p>

<b>Sponsors</b>	
<p><b>ICSU</b>                      Prof. Jinghai LI                      International Council for Science (ICSU)                      Vice-President                      China                      E-mail: <a href="mailto:jhli@cashq.ac.cn">jhli@cashq.ac.cn</a></p>	<p><b>UNEP</b>                      Dr Jian LIU                      UN Environment (UNEP)                      Kenya                      E-mail: <a href="mailto:Jian.Liu@unep.org">Jian.Liu@unep.org</a></p>
<p><b>IOC/UNESCO</b> (also representing GOOS)                      Dr Albert FISCHER                      Director                      GOOS Project Office, Ocean                      Observations and Services Section                      Intergovernmental Oceanographic                      Commission of UNESCO                      France                      E-mail: <a href="mailto:a.fischer@unesco.org">a.fischer@unesco.org</a></p>	

<b>GCOS Secretariat Staff</b>	
<p>Dr Carolin RICHTER                      Director                      GCOS Secretariat</p>	<p>Tel.: +41 22 730 8275                      Fax: +41 22 730 8052                      E-mail: <a href="mailto:CRichter@wmo.int">CRichter@wmo.int</a></p>
<p>Dr Caterina TASSONE                      Scientific Officer-AOPC                      GCOS Secretariat</p>	<p>Tel.: +41 22 730 8218                      Fax: +41 22 730 8052                      E-mail: <a href="mailto:CTassone@wmo.int">CTassone@wmo.int</a></p>
<p>Mr Valentin AICH                      Junior Professional Officer                      GCOS Secretariat</p>	<p>Tel.: +41 22 730 8494                      Fax: +41 22 730 8052                      E-mail: <a href="mailto:VAich@wmo.int">VAich@wmo.int</a></p>
<p>Mr Tim OAKLEY                      Network Manager                      GCOS Secretariat                      Seconded Expert from UK Met Office</p>	<p>Tel.: +41 22 730 8999                      Fax: +41 22 730 8052                      E-mail: <a href="mailto:TOakley@wmo.int">TOakley@wmo.int</a></p>

<b>Domestic Participants for GCOS Science Day</b>	
<p>Prof. Renhe ZHANG Academician of CAS Fudan University E-mail: <a href="mailto:rhzhang@fudan.edu.cn">rhzhang@fudan.edu.cn</a></p>	<p>Mr Dongfa WANG Deputy Director General Zhejiang Meteorological Bureau, CMA E-mail:</p>
<p>Prof. Panmao ZHAI Co-Chair of IPCC WGI Chinese Academy of Meteorological Sciences, CMA E-mail: <a href="mailto:pmzhai@cma.gov.cn">pmzhai@cma.gov.cn</a></p>	<p>Prof. Peng ZHANG Deputy Director General National Satellite Meteorological Centre, CMA E-mail: <a href="mailto:zhangp@cma.gov.cn">zhangp@cma.gov.cn</a></p>
<p>Ms Chong PEI Department of Integrated Observation CMA E-mail: <a href="mailto:pcaoc@cma.gov.cn">pcaoc@cma.gov.cn</a></p>	<p>Mr Jun YU Department of Int'l Cooperation CMA E-mail: <a href="mailto:yj@cma.gov.cn">yj@cma.gov.cn</a></p>
<p>Mr Yan ZHUANG Department of Int'l Cooperation, CAS Email: <a href="mailto:zhuangyan@cashq.ac.cn">zhuangyan@cashq.ac.cn</a></p>	<p>Mr Xiaochun ZHANG Meteorological Observation Centre of CMA E-mail: <a href="mailto:xczhang@cma.gov.cn">xczhang@cma.gov.cn</a></p>
<p>Dr Yong ZHANG Meteorological Observation Centre of CMA E-mail: <a href="mailto:yzhang@cma.gov.cn">yzhang@cma.gov.cn</a></p>	<p>Prof. Zijiang ZHOU National Meteorological Information Centre/CMA E-mail: <a href="mailto:zzj@cma.gov.cn">zzj@cma.gov.cn</a></p>
<p>Mr Lipeng JIANG National Meteorological Information Centre/CMA E-mail: <a href="mailto:jianglp@cma.gov.cn">jianglp@cma.gov.cn</a></p>	<p>Prof. Weidong YU National Marine Environmental Forecasting Center/SOA E-mail: <a href="mailto:wduy@fio.org.cn">wduy@fio.org.cn</a></p>
<p>Prof. Cunde XIAO Beijing Normal University E-mail: <a href="mailto:cdxiao@bnu.edu.cn">cdxiao@bnu.edu.cn</a></p>	<p>Prof. Tianjun ZHOU Institute of Atmospheric Sciences/CAS E-mail: <a href="mailto:zhoutj@lasg.iap.ac.cn">zhoutj@lasg.iap.ac.cn</a></p>
<p>Dr Xi CHEN Institute of Atmospheric Sciences/CAS E-mail: <a href="mailto:chenxilageo@mail.iap.ac.cn">chenxilageo@mail.iap.ac.cn</a></p>	<p>Prof. Shaoqiang WANG Institute of Geographic Sciences and Natural Resources Research/CAS E-mail: <a href="mailto:sqwang@igsnrr.ac.cn">sqwang@igsnrr.ac.cn</a></p>
<p>Prof. Xuebing GUO Institute of Geographic Sciences and Natural Resources Research/CAS E-mail: <a href="mailto:guoxb@igsnrr.ac.cn">guoxb@igsnrr.ac.cn</a></p>	<p>Mr Zhaohui QIAN Institute of Geographic Sciences and Natural Resources Research/CAS E-mail: <a href="mailto:qianzh.15s@igsnrr.ac.cn">qianzh.15s@igsnrr.ac.cn</a></p>
<p>Prof. Li ZHANG Institute of Remote Sensing and</p>	<p>Dr Yubao QIU Institute of Remote Sensing and</p>

Digital Earth/CAS E-mail: <a href="mailto:zhangli@radi.ac.cn">zhangli@radi.ac.cn</a>	Digital Earth/CAS E-mail: <a href="mailto:qiuyb@radi.ac.cn">qiuyb@radi.ac.cn</a>
Prof. Yinlong XU Chinese Academy of Agricultural Sciences E-mail: <a href="mailto:xuyinlong@caas.cn">xuyinlong@caas.cn</a>	Mr Wenrong WU Observation and Network Division Zhejiang Meteorological Bureau, CMA E-mail: <a href="mailto:1185172915@www.com">1185172915@www.com</a>
Dr Yiping YAO Zhejiang Climate Center, Zhejiang Meteorological Bureau, CMA E-mail: <a href="mailto:yyp96121@163.com">yyp96121@163.com</a>	Dr Gaofeng FAN Zhejiang Climate Center, Zhejiang Meteorological Bureau, CMA E-mail: <a href="mailto:fangaofengcn@163.com">fangaofengcn@163.com</a>
Dr Zhengquan LI Zhejiang Climate Center, Zhejiang Meteorological Bureau, CMA E-mail: <a href="mailto:1zq110119@163.com">1zq110119@163.com</a>	Dr Hao MA Zhejiang Climate Center, Zhejiang Meteorological Bureau, CMA E-mail: <a href="mailto:mahao20032003@yahoo.com.cn">mahao20032003@yahoo.com.cn</a>
Dr Chaohui SONG Zhejiang Climate Center, Zhejiang Meteorological Bureau, CMA E-mail: <a href="mailto:zjcc4021@126.com">zjcc4021@126.com</a>	Dr Jingjiao PU Zhejiang Institute of Meteorology, Zhejiang Meteorological Bureau, CMA E-mail: <a href="mailto:pujingjiao@hotmail.com">pujingjiao@hotmail.com</a>
Ms Yina HU General Office Zhejiang Meteorological Bureau, CMA E-mail: <a href="mailto:13706718242@126.com">13706718242@126.com</a>	Ms Xiaoling WANG Editorial Office of Advances in Climate Change Research National Climate Center/CMA E-mail: <a href="mailto:xlwang@cma.gov.cn">xlwang@cma.gov.cn</a>
Dr Pengling WANG National Climate Center/CMA E-mail: <a href="mailto:wangpl@cma.gov.cn">wangpl@cma.gov.cn</a>	Mr Yuan SUN National Climate Center/CMA E-mail: <a href="mailto:sunyuan@cma.gov.cn">sunyuan@cma.gov.cn</a>

























