

**International Commission on Climate (ICCL)  
of IAMAS**

**<http://www.iccl-iamas.net>**

# **ICCL Quadrennial Report (2019-2023)**

**Jianping Li (President)**

**&**

**Qiuzhen Yin (Exec Secretary)**

**2023-07-12**



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# 1. Overview

**President:** Jianping Li (China)

**Executive Secretary-General:** Qiuzhen Yin (Belgium)

**Immediate Past President:** Neil Holbrook (Australia)

**Regular members:** 15

**Emeritus:** 13

28 in total.

**ICCL Business Meetings**

**27<sup>th</sup> IUGG 2019**

**Tuesday, July 9<sup>th</sup> & Thursday, July 11<sup>th</sup>**

**Montréal, Canada**





## 2. ICCL Contributions to 27th IUGG General Assembly (2019)

### IAMAS symposia from ICCL at 27<sup>th</sup> IUGG General Assembly

#### 1. *M07- Stratosphere Couplings to the Troposphere and Ocean*

Convener: E. Manzini, Co-conveners: B. Funke, **N. Holbrook**

#### 2. *M12 - High-impact Weather and Climate Extremes*

Convenor: R. Grotjahn, Co-conveners: J. Keller, B. Golding, **N. Holbrook**, X. Zhang, R. McTaggart-Cowan, O. Martius, A. Srivastava

#### 3. *M17 – Past and Future Changes in Polar Climate System and Their Global Linkages*

Convener: **Z. M. Wang**, Co-conveners: K. Moore, K. Nicholls, A. Jahn, J. Lenaerts

#### 4. *M18 – Natural Climate Variability and Predictability on All Time Scales*

Convener: **N. Holbrook**, Co-conveners: **M. Latif**, **M. Collins**, **Q. Z. Yin**, E. D. Lorenzo, **L. Mysak**

#### 5. *M19-Role of Ocean-Atmosphere Interactions in Constraining Regional Climate Change*

Convener: **M. Collins**, Co-conveners: N. S. Keenlyside, **T. Halenka**, **M. Latif**, S. Minobe, H. Nakamura, S. P. Xie

### Joint symposia from ICCL at 27<sup>th</sup> IUGG General Assembly

#### 6. *JM03 - Advances and Frontier Challenges in Global Monsoon Studies: Dynamics, Convection and Interactions with Hydrological and Land Surface Processes (IAMAS, IAHS)*

Convener: **J. Li** (IAMAS), Co-Conveners: A. Turner (IAMAS), S. Nigam (IAMAS), I. Cavalcanti (IAMAS), E. Hugo Berbery (IAMAS), K. J. Ha (IAMAS), F. Kucharski (IAMAS), A. Giannini (IAMAS), S. Janicot (IAMAS), K. Thonicke (IAMAS), E. Lakshmanan (IAHS)

#### 7. *JP04 - Past Changes, in the Atmosphere, Oceans and Cryosphere, and Their Relevance for Future Climate. (IAPSO, IAMAS, IACS, IAGA)*

Convener: K. Kohfeld (IAPSO), Co-Conveners: **Q. Z. Yin** (IAMAS), A. Vernal (IAMAS), T. Dobeneck (IAGA), M. Petterson (IACS)

[Note: **boldface** identifies ICCL members]



# 3.ICCL Contributions to 28th IUGG General Assembly (2023)

## IAMAS symposia from ICCL at 28<sup>th</sup> IUGG General Assembly

### 1. *M02 Dynamics and Variability of the Warming Hole(s) in the Climate System*

Conveners: **Léon Chafik**, **Mojib Latif**

### 2. *M03 Climate Extremes in the Atmosphere-Land-Ocean System: Physical Processes, Predictability, Impacts and Adaptation*

Conveners: Jules Kajtar, Nicolas Freychet, Eunice Lo, Vikki Thompson, **Mat Collins**, **Neil Holbrook**

### 3. *M04 Past Climate Changes and Their Relevance for the Future*

Conveners: **Qiuzhen Yin**, André Paul, Anne de Vernal, Jerry McManus, **Emilie Capron**, **Ayako Abe-Ouchi**

### 4. *M05 Atmosphere-Ocean-Ice Interactions: Physical, Biogeochemical and Biological Processes in the Ross Sea*

Conveners: **Zhaomin Wang**, Walker Smith, Paola Rivaro, Jisoo Park, Mike Williams

### 5. *M06 Monsoon Systems in Rapid and Intensifying Climate Change and Their Role in Extreme Events*

Conveners: **Jianping Li**, V. Krishnamurthy, Andrew Turner, Bin Wang, E. Hugo Berbery, Jun Matsumoto, Kyun-Ja Ha, R. Krishnan, Fred Kucharski

### 6. *M07 Earth System Response to Solar Radiation Modification: Modeling, Impacts and Uncertainties*

Conveners: Govindasamy Bala, Hauke Schmidt, Long Cao, Simone Tilmes, John Moore, **Michael MacCracken**

### 7. *M08 Variability and Near-Term Predictability of the Antarctic Climate System*

Conveners: Tom Bracegirdle, **Zhaomin Wang**, Irina Gorodetskaya, Erik Behrens

### 8. *M09 Geosciences for Sustainable Development (Merged with Union Symposium)*

Conveners: **Keith Alverson**, Tom Beer, **Jianping Li**, Tonie van Dam

### 9. *M10 El Niño/Southern Oscillation and its Regional and Global Impacts*

Conveners: Fei-Fei Jin, Wenju Cai, **Jianping Li**, Soon-Il An

## Joint symposia from ICCL at 28<sup>th</sup> IUGG General Assembly

### 10. *JM01 Recent Advances in Regional Climate Modelling (IAMAS, IACS, IAHS)*

Conveners: **Tomas Halenka** (IAMAS), Sven Kotlarski (IACS), Erika Coppola (IAHS)

### 11. *JM05 Earth System Models: Assessing the Earth System's State and Fate From Regional to Planetary Scales (IAMAS, IAHS, IACS, IAPSO, IAVCEI)*

Conveners: François Massonnet (IAMAS), Sophie Nowicki (IACS), Richard Petrone (IAHS), Anna von der Heydt (IAPSO)

[Note: **boldface** identifies ICCL members]



## 4.1 ICCL activities in 2019

1. Held two Business Meetings during the General Assembly and elected new Executives.
2. Jianping Li reported the ICCL activities during 2015-2019, the 2017 biennial ICCL meeting hold during the IAPSO-IAMAS-IAGA in Cape Town and the ICCL sessions organized at the IUGG 2019 General Assembly.
3. The members discussed about the nominations of new ICCL members and suggested to nominate members from Africa and South America.
4. ICCL sessions for the 2021 IAMAS-IACS-IAPSO Joint Assembly in Busan were also discussed and suggestions were made. Coordinated two Joint symposia and five IAMAS symposia.
5. The scientific focus of ICCL and general climate issues of interests and concerns were also discussed.
6. Co-sponsored 2019 Training Workshop of Access and Utilization of Regional Climate Downscaled data of Southeast Asia Regional Climate Change Information System (SARCCIS) in Japan.
7. Organized the 14th “General Circulation Model Simulations of the East Asian Climate (EAC)” workshop in City University of Hong Kong on 27-29 April, 2019, co-sponsored with CCEC/IUGG.



## 4.2 ICCL activities in 2020

- 1. Organization at EGU 2020 (May 3-8, 2020) of the session AS1.16:** “The global monsoons in current, future and palaeoclimates and their role in extreme weather and climate events”. The session was presented online on Tuesday 5th May 2020, and some ICCL members participated and discussed on the research of monsoon in the past and future.
- 2. Nomination of a candidate for the IAMAS Early Career Medal.**
- 3. Preparation for the IAMAS-IACS-IAPSO Joint Assembly 2021 (BACO-21)** from 18th-23rd June 2021 at Busan in Korea. ICCL prepared ten sessions for the BACO21, but all of them had to be cancelled due to the pandemic situation.



## 4.3 ICCL activities in 2021

- 1. Organization at EGU 2021 (April 19-30, 2021) of the session: “The global monsoons in current, future and palaeoclimates and their role in extreme weather and climate events”.**
- 2. The Zoom meeting of IAMAS, Wednesday 19 May 2021.**
- 3. 4th Congress of China Geodesy and Geophysics (CCGG) (17-18 July, 2021) at Qingdao**  
JS03: Atmosphere-Ocean-Cryosphere coupling and anthropogenic forcing/  
climate feedback
- 3. The 1st 2021 IAMAS Executive Committee Meeting (EC1) Sunday 18 July 2021, 12:30-14:30 UTC. (8:30am EDT)**
- 4. The 2nd 2021 IAMAS Executive Committee Meeting (EC2) Wednesday 21 July 2021 12:30-14:30 UTC (8:30 EDT)**
- 5. The biennial meeting (virtual) of the ICCL members (22 July 2021)**



## 4.4 ICCL activities in 2022

- 1. Preparation of 11 symposium proposals for the 28th IUGG2023 in Berlin**
- 2. Organization of spring, summer and fall schools of IS-ENES3 Central and Eastern Europe on “From climate projections to climate impacts via regional downscaling”, each year from 2020 to 2022, in Prague.**
- 3. Organization at EGU 2022 (April 3-8, 2022) of two sessions:** “Interglacial diversity” and “Monsoon systems in a changing climate: past, present and future”.
- 4. Organization of Special Issues:**
  - “Global monsoonal systems during the last glacial-interglacial cycle” in Quaternary Science Reviews;
  - “Paleoclimate modelling” in Quaternary Sciences, and
  - “Cenozoic climate change in Asia in honour of Prof. Zhengtang Guo” in Global and Planetary Change.



## 4.5 ICCL activities in 2023

- 1. Organization of 5th Congress of China Geodesy and Geophysics (CCGG) 2023 at Wuhan.**
- 2. Organization of workshop “Definition, dynamics and predictability of marine heatwaves” in Queensland, Australia, supported by the Climate Extremes Ocean Extremes Research Program (2023).**
- 3. Organization of 11 symposia for the 28th IUGG2023 assembly in Berlin (2021-2023).**
- 4. Organizations of 4 sessions at EGU on monsoon and past interglacials (2020-2023).**



## 5. Nominations, awards and honours

- **Dr. Qiuzhen Yin, ICCL Exec Secretary, awarded an Early Career Scientist Award of IUGG and the Sir Nicholas Shackleton Medal of INQUA, in 2019.**
- **Dr. Emilie Capron, ICCL member, awarded an Early Career Scientist Award of IUGG in 2019.**
- **Mojib Latif, ICCL member, awarded the Alfred Wegener Medal of the German Meteorological Society in 2019.**
- **Dr. Ayako Abe-Ouchi, ICCL member, awarded the Milutin Milankovic Medal at EGU 2021.**
- **Dr. Emilie Capron, ICCL member, awarded the AXA Award 2021 for Climate Science from the AXA Research Fund.**
- **Dr. Valerie Masson-Delmotte, ICCL Member, awarded the IUGG Gold Medal in 2023.**
- **We ICCL nominated Dr. Cheng Sun (not ICCL member) who awarded an Early Career Scientist Award of IAMAS in 2023.**



# 6. ICCL Website

Dr. Qiuzhen Yin, the Executive Secretary-General of ICCL, helps to update the website. Contributions of ICCL members to the contents are encouraged.

<http://www.iccl-iamas.net>

The screenshot shows the homepage of the ICCL website. The browser address bar displays "www.iccl-iamas.net". The main header features the ICCL logo and the text "International Commission on Climate" on the left, and a horizontal strip of four climate-related images (a rainbow, a sunset, a snowy mountain, and a polar bear) on the right. Below the header is a navigation menu with links for Home, About ICCL, Membership, Activities, Documentation, and Contact. The main content area is divided into two columns. The left column contains two logos (ICCL and IAMAS) and a button labeled "Apply for membership" with a "click here" link and a mouse cursor. The right column is titled "Announcements" and lists several recent events and publications, including floods in Belgium, a paper by Yin QZ et al in Science, a paper by Capron E et al in Nature Communications, awards for Mojib Latif and Emilie Capron, an award for Ayako Abe-Ouchi, and the ICCL Biennial Meeting in July 2021.

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# ICCL

International Commission on Climate

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 [click here](#) 

### Announcements

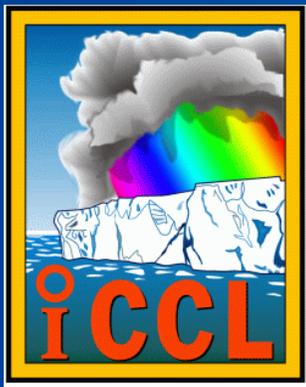
- Floods in Belgium in 2021 Summer\_a note by A. Berger
- Yin QZ et al published a paper in Science
- Capron E et al published a paper in Nature Communications
- Mojib Latif awarded the 2019 Alfred-Wegener-Medaille der Deutschen Meteorologischen Gesellschaft
- Emilie Capron awarded the AXA Award 2021 for Climate Science
- Ayako Abe-Ouchi awarded the 2021 Milutin Milankovic Medal
- ICCL Biennial Meeting, July 2021



# 7. Future Plans

- Nominations of new ICCL members
- Any plan of national, international conferences, workshops, summer schools related to climate?
- Is there a IUGG related meeting in 2025? Do we need to prepare for this meeting?
- Organization of Special Issues:
  - “Earth’s climate response to astronomical forcing” in Global and Planetary Change.

We may get more ideas from other ICCL members during the meeting in Berlin.



**Thank you!**

