



**Union Geodesique et Geophysique Internationale**  
**International Union of Geodesy and Geophysics**



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IUGG's 100<sup>th</sup> Anniversary Celebration / 25<sup>th</sup> Anniversary of Slovenian NC – 30<sup>th</sup> January 2020, Ljubljana



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# **“IUGG – 100 Years of Activities and Future Perspectives”**

***Alexander Rudloff & Franz G. Kuglitsch***

*GFZ German Research Centre for Geosciences, Potsdam, Germany*

*Secretary General and Executive Secretary,  
International Union of Geodesy and Geophysics (IUGG)*



## 1918: The destruction of Ypres, Belgium

Photo: Archive of Princess Patricia's Canadian Light Infantry





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HSH Prince Albert I (Monaco)

William Bowie (USA)

Charles Lallemand (France)



Sir Henry G. Lyons (UK)

Sir W. Napier Shaw (UK)

Aikitsu Tanakadate (Japan)

Images: Ismail-Zadeh and Joselyn, HGSS, 2019

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The International Research Council (IRC), founded in July 1919, comprised 16 national academies and research councils from around the world. Around the same time, international unions were created for astronomy, biology, chemistry, **geodesy and geophysics**, mathematics, physics and radio sciences.

IUGG was founded on **28 July 1919** with 6 Sections in Geodesy (IAG), Terrestrial Magnetism and Electricity (IAGA), Meteorology (IAMAS), Physical Oceanography (IAPSO), Seismology (IASPEI), and Volcanology (IAVCEI). Section of Scientific Hydrology (IAHS) was added in 1922, and the IUGG association in cryospheric sciences (IACS) was founded in 2007.

IACS 





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**Bringing Nations Together  
&  
Enhancing  
International Scientific Cooperation**

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**The 3rd General Assembly in Prague, 1927**

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**The 7th General Assembly in Washington, D.C., 1939**



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Delegates with Pope Pius XII

**The 10th General Assembly in Rome, 1954**





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**The 15th General Assembly in Moscow, 1971**

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**The 23th General Assembly in Sapporo, 2003**

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**The 27<sup>th</sup> IUGG General Assembly in Montreal, 2019**

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**IUGG - Old and New Bureau (2019-2023)**

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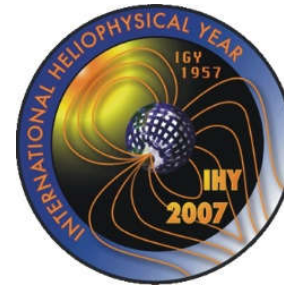


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To commemorate the IGY, IUGG initiated and/or participated in the International Years (2007-08)



Electronic Geophysical Year (eGY)



International Heliophysical Year (IHY)



International Year of Planet Earth (IYPE)



International Polar Year (IPY)



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## Science Education Program



Workshop “Climate across the curriculum: Educational resources for teachers”,  
Thimphu, Bhutan, 2019





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**Centennial of the International Union of Geodesy and Geophysics**  
Celebration at UNESCO HQ, Paris – 29 July 2019



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## **International Cooperation and Partnership**

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**UNITED NATIONS**

Educational, Scientific, Cultural Organization

In 1946, IUGG signed a working agreement with UNESCO.



**WORLD  
METEOROLOGICAL  
ORGANIZATION**

In 1954, IUGG signed a working agreement with WMO.



United Nations  
Educational, Scientific and  
Cultural Organization



Intergovernmental  
Oceanographic  
Commission

A cooperation with the IOC started in 1960.



United Nations  
Educational, Scientific and  
Cultural Organization



International  
Hydrological  
Programme

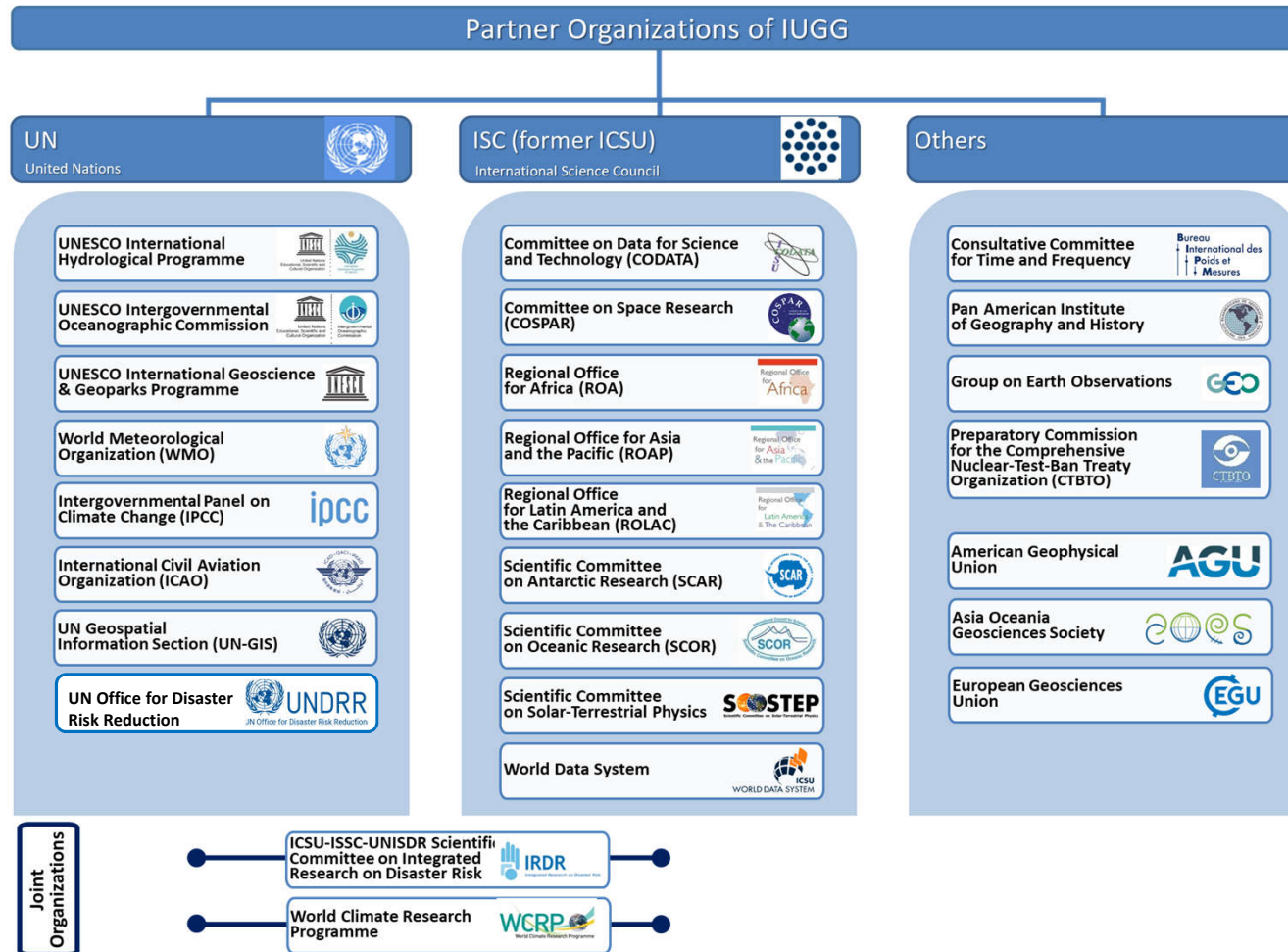
A cooperation with the IHP started in 1975.



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## GEOUNIONS

- International Astronomical Union (IAU)
- International Cartographic Association (ICA)
- International Geographical Union (IGU)
- International Union of Quaternary Research (INQUA)
- International Society for Photogrammetry and Remote Sensing (ISPRS)
- International Union of Geodesy and Geophysics (IUGG)
- International Union of Geological Sciences (IUGS)
- International Union of Soil Sciences (IUSS)
- International Union of Radio Sciences (URSI)

NASA Visible Earth



IGU



INQUA



IUGG



IUGS



IUSS



ICA  
ACI



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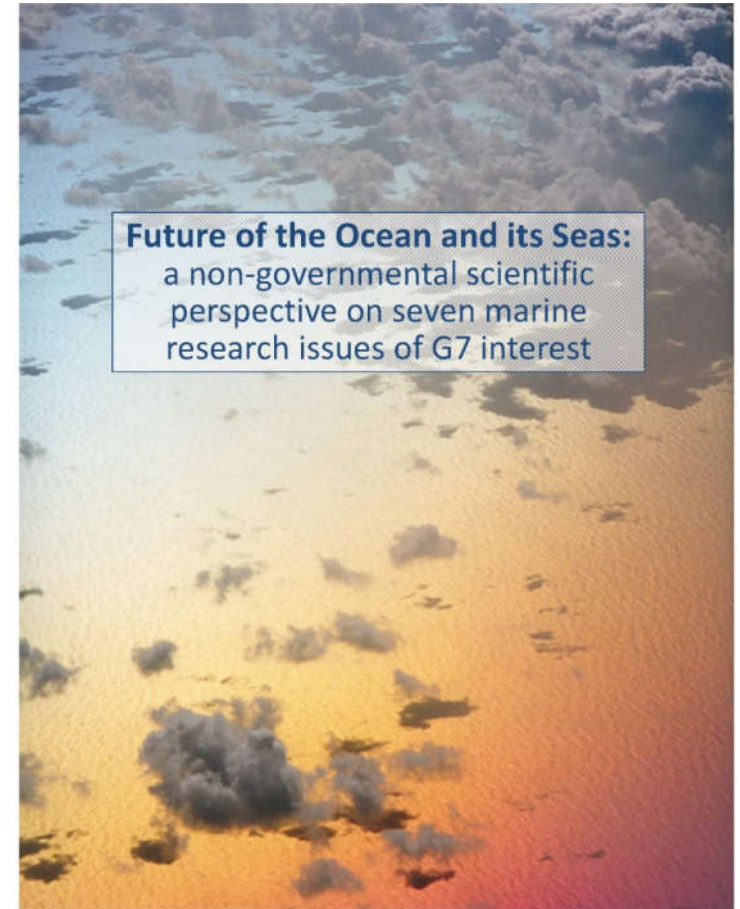


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IAPSO/IUGG together with the Scientific Committee on Oceanic Research (SCOR/ ICSU) set up an ad-hoc working group with the intention to develop a report related to the topics highlighted in the G7 Science Ministers Communiqué in 2015.

The report was submitted to the Bureau of Science, Technology and Innovation, Cabinet Office of the Government of Japan. The Report was also sent to the Science Council of Japan, Federal Ministry for Education and Research (Germany), the Royal Society (UK), and the National Academy of Sciences(USA).



**Future of the Ocean and its Seas:**  
a non-governmental scientific perspective on seven marine research issues of G7 interest







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**The United Nations General  
Assembly established a  
permanent sub-committee  
on geodesy to provide stability  
and longer-term planning for the  
Global Geodetic Reference Frame**

(photo: Anne Jørgensen)





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## Summary: Added value of the IUGG

- ◆ Scientific and Outreach Programmes
- ◆ Science for Society
- ◆ Science for the Developing World
- ◆ Capacity Building and Science Education
- ◆ Data and Information: Observational and Data Services
- ◆ Scientific products
- ◆ IUGG plays an important Regulatory Role in Geoscience



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**History of the International Union of Geodesy and Geophysics  
(1919-2019)**

*Special issue*

*The International Union of Geodesy and Geophysics: from  
different spheres to a common globe*

*Editor(s): A. Ismail-Zadeh and J. A. Joselyn*

[https://www.hist-geo-space-sci.net/special\\_issue996.html](https://www.hist-geo-space-sci.net/special_issue996.html)  
(Open access)



Open Access  
**History of**  
Geo- and Space  
**Sciences**



**The International Union of Geodesy and Geophysics:  
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Special Issue

 **Copernicus Publications**  
The Innovative Open Access Publisher

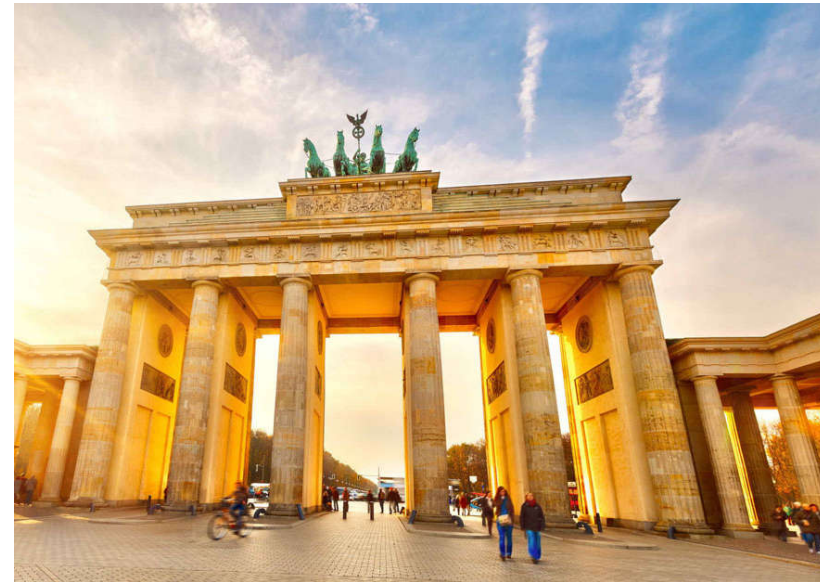


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**28<sup>th</sup> IUGG General  
Assembly  
Berlin, Germany  
12-19 July 2023**







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**Thank you! Merci beaucoup ! ¡Gracias!**  
**Спасибо! 谢谢 شكرا**

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