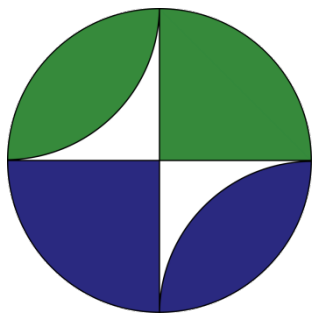


**INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS**  
UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE

# Yearbook 2020



**INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS**  
**UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE**

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# INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS UNION GÉODÉSIQUE ET GÉOPHYSIQUE INTERNATIONALE

## HISTORIQUE

L'Union Géodésique et Géophysique Internationale (UGGI) est un organisme international non gouvernemental à but non lucratif fondé à Bruxelles le 28 juillet 1919. L'UGGI se consacre à l'étude scientifique de la Terre et à l'utilisation au profit de la société des connaissances acquises grâce à cette étude. L'UGGI est l'une des trois Unions scientifiques ayant participé en 1931 à l'Assemblée constitutive du Conseil international des recherches, devenu ensuite le Conseil international des unions scientifiques (CIUS) en 1996, devenu enfin Conseil international pour la science (CIS) en 2018. Le CIS est un forum planétaire des scientifiques, qui leur permet d'échanger des idées et des informations, promeut la science en tant que bien public universel, et exprime l'expression universelle de la science. L'UGGI fournit son savoir-faire concernant les sciences de la Terre effectuées par les chercheurs dans ses Associations internationales et Commissions inter-associations.

Les neuf premiers pays membres de l'UGGI étaient l'Australie, la Belgique, le Canada, la France, l'Italie, le Japon, le Portugal, le Royaume-Uni et les États-Unis. En 2020, l'UGGI compte 73 organismes adhérents ayant une activité géodésique ou géophysique indépendante.

Au début, l'Union chapeautait six sections : Géodésie, Séismologie, Météorologie, Magnétisme et électricité terrestre, Océanographie physique et Volcanologie. Une septième section, «Hydrologie Scientifique», fut créée en 1922. Le terme «Section» fut remplacé par celui d'«Association» lors de la cinquième Assemblée générale tenue à Lisbonne, en 1933. Une huitième Association sur les Sciences Cryosphériques fut créée lors de l'Assemblée Générale de 2007 à Pérougia, Italie.

Les langues officielles de l'UGGI sont l'anglais et le français.

## BACKGROUND

The International Union of Geodesy and Geophysics (IUGG) is an international, non-governmental, non-profit organization established in Brussels on 28 July 1919. IUGG is dedicated to the scientific study of the Earth and the application of knowledge gained by such studies to benefit society. IUGG was one of the first three Scientific Unions established during the Constitutive Assembly of the International Research Council, the predecessor of the International Council of Scientific Unions (ICSU) created in 1931, known as the International Council for Science since 1996, and as the International Science Council (ISC) since 2018. ISC provides a global forum for scientists to exchange ideas and information, advances science as a global public good, and presents a global voice of science. IUGG brings to ISC expertise on Earth studies from researchers in its International Associations and Inter-Association Commissions.

The first nine member countries of IUGG were Australia, Belgium, Canada, France, Italy, Japan, Portugal, the United Kingdom, and the United States. By 2020, IUGG has 73 Member Countries in which independent activity in geodesy and geophysics has been developed.

The original Union encompassed six Sections: Geodesy, Seismology, Meteorology, Magnetism and Terrestrial Electricity, Physical Oceanography, and Volcanology. A seventh section "Scientific Hydrology" was created in 1922. The term "Section" was replaced by "Association" at the 5<sup>th</sup> General Assembly held in Lisbon in 1933. The eighth Association of Cryospheric Sciences was added at the 2007 General Assembly held in Perugia, Italy.

The official languages of IUGG are English and French.

## OBJECTIFS ET ACTIVITÉS DE L'UGGI

L'UGGI est une organisation purement scientifique, qui a été fondée afin de promouvoir et de coordonner les études sur les propriétés physiques, chimiques et mathématiques de la Terre et sur son environnement spatial. Ces études concernent la forme de la Terre; la nature de ses champs gravitationnel et magnétique; la dynamique de la Terre en tant qu'entité et de celle de ses composants; la structure interne, la composition et la tectonique de la Terre; la formation des magmas; la volcanologie et la genèse des roches; le cycle hydrologique, dont la neige et la glace; la physique et la chimie des océans; l'atmosphère, l'ionosphère, la magnétosphère et les relations Soleil-Terre; ainsi que les problèmes analogues propres à la Lune et aux autres planètes. Les activités de l'UGGI comprennent l'observation de la Terre par satellite et par d'autres techniques de mise en place d'instruments à haute altitude.

### Programmes de recherche interdisciplinaire

L'UGGI a inauguré et activement soutenu les efforts de collaboration qui ont permis de mettre en œuvre des programmes de recherche interdisciplinaire internationaux de grande valeur, dont l'Année Géophysique Internationale (1957-1958), le Projet du Manteau Supérieur de la Terre (1964-1970), la Décennie Hydrologique Internationale (1965-1974), le Projet Géodynamique (1972-1979), le Programme Global de Recherche sur l'Atmosphère (1967-1980), le Programme Mondial de Recherche sur le Climat (1980-présent), le Programme International de la Lithosphère (1981-présent) et le Système Global d'Observation Géodésique (2003-présent). Ces programmes ont servi de modèle de coopération internationale et interdisciplinaire. L'UGGI a inauguré et soutenu des initiatives du CIUS, surtout ceux qui concernent les sciences de la Terre. L'une des contributions majeures de l'UGGI a été la création, il y a environ 60 ans, par l'intermédiaire du CIUS, du système de la Banque de Données Mondiale et de la Fédération des Services d'Analyse des Données Astronomiques et Géophysiques. Ceux-ci ont été transformés en Système de Données Mondial du CIUS qui mettra les données recueillies dans le cadre de ces grands programmes à la disposition des chercheurs du monde entier. L'UGGI a soutenu l'Année Internationale de la Terre (2007-2009) et l'Année Polaire Internationale (2007-2008) et a aussi initié et soutenu l'Année Géophysique Électronique (2007-2008) et l'Année Héliophysique Internationale (2007-2008).

### Recherche internationale en coopération

L'UGGI collabore avec l'UNESCO à l'étude des catastrophes naturelles, des océans, et de l'hydrologie. Elle attache aussi une grande importance aux problèmes scientifiques des pays en voie de développement, en parrainant des activités liées aux besoins scientifiques du tiers monde. L'UGGI est un partenaire d'autres Unions Scientifiques du CIS, par le biais des Commissions inter-unions, et ses activités correspondent avec celles de huit autres Unions du CIS (GéoUnions): l'Union Astronomique Internationale (UAI), l'Association Cartographique Internationale (ACI), l'Union Géographique

## OBJECTIVES AND ACTIVITIES OF IUGG

IUGG is a purely scientific organisation established to promote and co-ordinate studies of physical, chemical, and mathematical properties of the Earth and its environment in space. These studies include the shape of the Earth; the nature of its gravitational and magnetic fields; the dynamics of the Earth as a whole and of its component parts; the Earth's internal structure, composition, and tectonics; the generation of magmas; volcanism and rock formation; the hydrological cycle including snow and ice; the physics and chemistry of the oceans; the atmosphere, ionosphere, magnetosphere and solar-terrestrial relations; and analogous problems associated with the Moon and other planets. IUGG activities embrace studies of the Earth by artificial satellites and other techniques for deploying instruments at high altitude.

### Interdisciplinary Research Programs

IUGG has initiated and vigorously supported collaborative efforts that have led to highly productive world-wide interdisciplinary research programs, such as the International Geophysical Year (1957-58), the Upper Mantle Project (1964-70), the International Hydrological Decade (1965-74), the Geodynamics Project (1972-79), the Global Atmospheric Research Program (1967-80), World Climate Research Programme (1980-present), International Lithosphere Program (1981-present), Global Geodetic Observing System (2003-present) and others. These programs have set a model for international, interdisciplinary co-operation. IUGG has initiated and supported ICSU initiatives, especially those in which Earth sciences have a role to play. One major contribution was the creation, about 60 years ago, through ICSU, of the World Data Centers and the Federation of Astronomical and Geophysical Data Analysis Services. These were transformed to the ICSU World Data System, from which the data gathered during major research programs and data products will be available to researchers everywhere. IUGG supported the International Year of the Planet Earth (2007-2009) and the International Polar Year (2007-2008) and has initiated and supported the Electronic Geophysical Year (2007-2008) and the International Heliophysical Year (2007-2008).

### Worldwide Co-operative Research

IUGG co-operates with UNESCO in the study of natural catastrophes, oceans, and hydrology. It also gives particular emphasis to the scientific problems of Developing Countries by sponsoring activities relevant to the scientific needs of the Third World. IUGG is a partner with other ISC Scientific Unions in inter-Union Commissions, and coordinates its activities with eight other ISC Unions (GeoUnions): the International Astronomical Union (IAU), the International Cartographic Association (ICA), the International Geographical Union (IGU), the International Society of Photogrammetry and Remote Sensing (ISPRS), the International Union of Geological Sciences (IUGS), the International Union for Quaternary Research (INQUA), the

Internationale (UGI), la Société Internationale de Photogrammétrie et de Télédétection (SIPT), l'Union Internationale des Sciences Géologiques (UISG), l'Union Internationale pour l'Étude du Quaternaire (INQUA), l'Union Radio-Scientifique Internationale (URSI) et l'Union Internationale de la Science du Sol (UISS).

## STRUCTURE

De par leur nature même, les études géodésiques et géophysiques requièrent une importante coopération internationale, de même qu'une coordination efficace. L'UGGI, heureusement, compte 73 entités adhérentes (Tableau 1); les entités adhérentes sont répartis dans le monde entier, comme le montre le Tableau 2. En outre, l'UGGI possède six membres affiliés (Tableau 3).

### Comités nationaux

La grande majorité des entités adhérentes participent aux activités de l'UGGI à travers leur Comité National de l'UGGI, mis en place par l'Académie nationale ou une autre institution officielle du pays adhérent à l'Union (il existe d'autres méthodes d'adhésion). Chaque Comité national de l'UGGI est représenté aux Assemblées Générales de l'UGGI par un délégué nommé par l'entité adhérente.

### Assemblées générales

Les Assemblées générales de l'UGGI ont lieu tous les quatre ans. La prochaine Assemblée générale de l'UGGI sera la XXVIIIe et se tiendra à Berlin, Allemagne, en 2023. L'UGGI tient des Assemblées Générales depuis 1922. Depuis 1963, elles ont lieu tous les quatre ans. Le Tableau 4 indique les années et les localisations des Assemblées générales de l'UGGI.

Au cours de ces Assemblées générales, on adopte les politiques régissant l'UGGI et on définit et coordonne les programmes nécessitant une participation internationale. De plus, on élabore les plans d'exécution de ces programmes de recherche. Les résultats scientifiques des programmes en cours font l'objet de discussions lors d'un grand nombre de symposiums, de réunions de commissions, de groupes de travail ou de rencontres réunissant les scientifiques assistant aux Assemblées.

### Le Conseil, le Bureau et les Comités de l'UGGI

L'UGGI est dirigée par le Conseil de l'UGGI, lequel est régi par les statuts et le règlement intérieur de l'Union. Le Conseil de l'UGGI est composé des délégués accrédités des entités adhérentes. Le Conseil de l'UGGI se réunit lors de l'Assemblée Générale de l'UGGI, où il est procédé à l'élection des membres du Bureau de l'UGGI et du Comité des finances de l'UGGI. Depuis 2016 UGGI a le Conseil permanent; les membres du Conseil (2019-2023) seront présentés à la page 16.

Le Bureau de l'UGGI traite des affaires administratives entre les rencontres du Conseil. Ses membres, élus par le Conseil, sont au nombre de sept – quatre responsables (Président, Président élu, Secrétaire général et Trésorier) et trois membres associés. Le Bureau se réunit chaque année.

International Union of Radio Science (URSI), and the International Union of Soil Sciences (IUSS).

## STRUCTURE

By their very nature, geodetic and geophysical studies require a high degree of international co-operation as well as effective central co-ordination. IUGG is fortunate in having 73 Member Adhering Bodies (Table 1); the Members are distributed throughout the world as shown in Table 2. In addition, IUGG has six Affiliate Members (Table 3).

### National Committees

The great majority of Member Adhering Bodies participate through IUGG National Committees set up by the national academy or another body in their country that adheres to the Union (other methods of adherence do occur). Each IUGG National Committee is represented at the IUGG General Assemblies by a Delegate appointed by its Adhering Body.

### General Assemblies

IUGG General Assemblies are held every four years. The next XXVIII (28th) IUGG General Assembly will be held in Berlin, Germany, in 2023. IUGG General Assemblies have been held since 1922. Since 1963, they are held every four years. Table 4 lists the years and locations of IUGG General Assemblies.

During these General Assemblies, policies governing IUGG are adopted, research programs requiring international participation are formulated and coordinated. In addition, plans are drawn for the execution of research programs. The scientific results of programs in progress are discussed at the numerous Symposia, Commission and Working Group meetings, and other gatherings of scientists that are convened during these assemblies.

### The IUGG Council, Bureau, and Committees

IUGG's affairs are directed by the Union Council governed by the Statutes and By-Laws of the Union. The IUGG Council is composed of one credentialed delegate from each Adhering Body. The IUGG Council meets during the IUGG General Assembly and elects the IUGG Bureau and the IUGG Finance Committee. Since 2016, IUGG has a standing Council; the Council Delegates (2019-2023) are listed on page 16.

The IUGG Bureau handles administrative affairs between Council meetings. It is elected by the Council and consists of seven members – four officers (President, President-Elect, Secretary General, and Treasurer) and three members at large. The Bureau meets annually.

Le Comité directeur de l'UGGI travaille en vue d'atteindre les objectifs scientifiques de l'Union et des Associations internationales grâce à une coordination et une définition efficace des politiques générales. Il regroupe les membres du Bureau de l'UGGI, le président sortant de l'Union et les présidents des Associations internationales.

The IUGG Executive Committee works to further the scientific objectives of the Union and International Associations by effective co-ordination and formulation of general policies. It consists of the IUGG Bureau, the retiring president of the Union, and the Presidents of the International Associations.

Le Comité des finances de l'UGGI traite des affaires budgétaires avec le Trésorier de l'UGGI. Il regroupe personnes élues par le Conseil de l'UGGI. Les membres du Comité des finances ne peuvent être membres ni du Bureau de l'UGGI, ni du Comité directeur de l'UGGI.

The IUGG Finance Committee interacts with the IUGG Treasurer regarding budgetary matters. It consists of persons elected by the IUGG Council. The members of the Finance Committee are not members of the IUGG Bureau or the IUGG Executive Committee.

### Les Associations internationales

Les huit Associations internationales semi-autonomes de l'UGGI assument, chacune, les responsabilités relatives à une série de sujets ou de thèmes spécifiques, relevant des activités générales de l'Union. Chaque Association possède sa propre sous-structure, comme il sera expliqué ci-dessous. Les Associations internationales définissent des normes de recherche et conviennent de définitions et d'algorithmes, tels que le *Manual of Seismological Observatory Practice* ou le *Guide for Magnetic Repeat Station Surveys*. Pour les sujets importants les résolutions doivent être adoptées à l'unanimité. Ils transmettent dans le cadre de leur mission éducative les résultats de leurs recherches à la communauté scientifique internationale, aux agences gouvernementales, aux entreprises et au grand public. Les huit Associations internationales sont les suivantes:

### The International Associations

The eight semi-autonomous International Associations within IUGG are each responsible for a specific range of topics or themes within the overall scope of the Union's activities. Each has a sub-structure as discussed below. The International Associations work to set standards for research and agree on definitions and algorithms, such as the *Manual of Seismological Observatory Practice* or the *Guide for Magnetic Repeat Station Surveys*. Participants pass resolutions on important issues where all agree. They make research visible to the international scientific community, to governmental agencies, to industry, and to the general public through their education activities. These eight International Associations are as follows:

Association Internationale des Sciences Cryosphériques (AISC)  
International Association of Cryospheric Sciences (IACS)

Association Internationale de Géodésie (AIG)  
International Association of Geodesy (IAG)

Association Internationale de Géomagnétisme et d'Aéronomie (AIGA)  
International Association of Geomagnetism and Aeronomy (IAGA)

Association Internationale des Sciences Hydrologiques (AISH)  
International Association of Hydrological Sciences (IAHS)

Association Internationale de Météorologie et des Sciences de l'Atmosphère (AIMSA)  
International Association of Meteorology and Atmospheric Sciences (IAMAS)

Association Internationale pour les Sciences Physiques des Océans (AISPO)  
International Association for the Physical Sciences of the Oceans (IAPSO)

Association Internationale de Séismologie et de Physique de l'Intérieur de la Terre (AISPIT)  
International Association of Seismology and Physics of the Earth's Interior (IASPEI)

Association Internationale de Volcanologie et de Chimie de l'intérieur de la Terre (AIVCIT)  
International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)

Les Associations internationales jouent également un rôle particulier en faisant bénéficier tous les pays du monde des dernières avancées scientifiques, grâce à des rencontres, des ateliers et des assemblées. Les Associations internationales tiennent leurs propres Assemblées scientifiques tous les

The International Associations also play a special role in bringing state-of-the art science to all the countries of the world through meetings, workshops, and assemblies. The International Associations convene their own Scientific Assemblies approximately every four years, generally two

quatre ans environ, généralement deux ans avant la tenue de l'Assemblée générale de l'UGGI. En 2017, les Assemblées scientifiques des Associations étaient ainsi: de l'AISC en Nouvelle-Zélande, de l'AISH en Afrique du Sud, l'Assemblée conjointe de l'AIG et l'ASPIT en Japon, l'Assemblée conjointe de l'AIGA, l'AIMSA et l'ASPO en Afrique du Sud, et de l'AIVCIT en États-Unis. Lors des Assemblées scientifiques, les Associations internationales parrainent des symposiums sur des sujets particuliers, souvent en partenariat.

Les géodésiens et les géophysiciens de tous les pays du monde sont invités à participer aux nombreux symposiums et ateliers des Associations internationales et des Assemblées générales de l'UGGI. Lors de ces rencontres, les scientifiques ont l'occasion de discuter de leurs méthodologies, résultats et hypothèses respectifs, et de planifier des projets de recherche en collaboration.

Les symposiums ont vocation à s'adresser tout particulièrement aux jeunes scientifiques des pays en voie de développement. L'UGGI a prévu un budget particulier pour assurer leur participation aux symposiums organisés sous l'égide de l'Union et de ses Associations.

Comme l'UGGI, les Associations internationales sont gérées par des officiers qui sont élus pendant leurs Assemblées Générales. Dans son domaine respectif, chaque Association est responsable de la définition de son propre programme et de soutenir les activités de ses propres composantes.

### Commissions de l'Union

En raison de la nature interdisciplinaire des domaines traités par les Associations internationales, plusieurs Commissions de l'Union ont été créées pour assister l'Union et la communauté géophysique internationale pour promouvoir l'étude de problèmes interdisciplinaires particuliers. Ces organisations sont habilitées par le Comité directeur de l'UGGI à mener des recherches conjointes entre les Associations. Les commissions de l'Union font l'objet d'un examen et d'un remaniement lors de chaque Assemblée générale de l'UGGI. Les six Commissions suivantes sont actuellement en activité:

- Commission de l'union sur les changements climatiques et les modifications de l'environnement (CCEC)
- Commission de l'union sur la géophysique mathématique (CMG)
- Commission de l'union sur les risques géophysiques et le développement durable (GRC)
- Commission de l'union sur l'étude des profondeurs terrestres (SEDI)
- Commission de l'union sur les données et l'information (UCDI)
- Commission de l'union sur la planétologie (UCPS)

En outre, deux ou plusieurs Associations internationales peuvent créer et soutenir des groupes de travail conjoints chargés de sujets scientifiques spécifiques.

years following the IUGG General Assembly. In 2017, the following scientific assemblies were held: IACS in New Zealand, IAHS in South Africa, a joint assembly of IAG and IASPEI in Japan, a joint assembly of IAGA, IAMAS, and IAPSO in South Africa, and IAVCEI in the USA. At Scientific Assemblies the International Associations sponsor symposia on particular topics, often in partnership with one another.

Geodesists and geophysicists from all countries of the world are encouraged to attend the numerous Symposia and Workshops of the International Associations and the General Assemblies of IUGG. At these meetings scientists have the opportunity to discuss their respective methodologies, results, and hypotheses and to plan collaborative research projects.

The Symposia are intended to be particularly helpful to younger scientists from developing countries of the world. The IUGG has made special financial provision for them to participate in the Symposia organised under the aegis of the Union and its Associations.

Like IUGG, International Associations are managed by officers who are elected during their General Assembly. Within its own discipline each Association is responsible for determining its own program of investigations and for supporting the activities of its own component parts.

### Union Commissions

Owing to the interactive nature of the subject fields managed by the International Associations, several Union Commissions and a Working Group have been established which serve the Union and the international geophysical community by promoting the study of particular interdisciplinary problems. These bodies are chartered by the IUGG Executive Committee to conduct inter-association science. Union Commissions are reviewed and renewed at each IUGG General Assembly. The following six Commissions are presently active:

- Union Commission on Climatic and Environmental Change (CCEC)
- Union Commission on Mathematical Geophysics (CMG)
- Union Commission on Geophysical Risk and Sustainability (GRC)
- Union Commission on the Study of the Earth's Deep Interior (SEDI)
- Union Commission on Data and Information (UCDI)
- Union Commission on Planetary Sciences (UCPS)

In addition, two or more International Associations may set up and support joint working groups to address specific scientific topics.



### Commission Inter-Unions

Le Programme International du Lithosphère, guidé par le Comité Scientifique du Lithosphère (SCL), fut établi en 1980 comme la Commission Inter-Union sur le Lithosphère (ICL) par le Conseil International des Sciences (CIUS), selon la demande de l'Union Internationale des Sciences Géologiques (IUGS) et l'Union Géodésique et Géophysique Internationale (UGGI). Le nom fut changé au Comité Scientifique sur le Lithosphère en 1999. Selon la Décision 8.4 de l'Assemblée Générale de 2005 du CIUS, le CIUS a décidé de terminer son soutien du SCL/ILP et de recommander un décalage de responsabilité vers l'UGGI et l'IUGS. Depuis cette décision, l'UGGI et l'IUGS ont rétabli la mission du ILP et ont collaboré pour re-définir l'ILP comme une entité Inter-Union. Des nouveaux Termes de Référence ont été approuvés par les deux Unions.

### FINANCES

L'UGGI collecte les cotisations annuelles pour financer les projets scientifiques inter-unions, les initiatives inter-associations et les activités administratives de l'UGGI, y compris ses publications. La moitié du revenu net de l'UGGI est remis aux Associations internationales qui peuvent décider de l'utilisation de ces fonds.

Le revenu de l'Union provient des contributions annuelles des entités adhérentes. Les entités adhérentes ont le choix entre le statut de membre régulier ou de membre associé (ne payant pas de cotisation). Les entités adhérentes peuvent envoyer un délégué aux rencontres quadriennales du Conseil de l'UGGI et voter sur les affaires administratives. Les scientifiques des entités adhérentes peuvent occuper un poste de responsabilité dans les Associations internationales et ils ont un droit de vote lors des séances de travail. Les membres associés ne paient pas de cotisations, n'ont pas le droit de voter, et leurs scientifiques ne peuvent pas occuper un siège de responsabilité dans le comité exécutif ou financier de l'UGGI. Les scientifiques des entités adhérentes associés sont toutefois les bienvenus aux activités scientifiques et sociales tenues lors de toutes les rencontres de l'UGGI et des Associations internationales. Les données scientifiques et les recherches effectuées par les entités adhérentes associées sont prises en considération par les autres scientifiques, et nombreuses sont les occasions de rencontres et de collaboration avec d'autres participants de l'UGGI. Si la situation économique d'un pays ne lui permet pas l'adhésion de plein droit à l'UGGI, le statut de membre associé peut être une étape vers l'adhésion de plein droit.

Les cotisations qu'une entité adhérente régulière paye sont calculées selon un barème (en fonction de la 'catégorie - Table 1') défini par le Comité des finances de l'UGGI. Les catégories reflètent la situation économique du pays et à sa participation aux Assemblées Générales de l'UGGI. Les détails figurent dans le titre III des statuts et le titre III du règlement intérieur de l'UGGI. Chaque catégorie correspond à un nombre d'unités permettant de calculer la cotisation. En 2020 la valeur d'une

### Inter-Unions Commission

The International Lithosphere Program, guided by the Scientific Committee on the Lithosphere (SCL), was established in 1980 as the Inter-union Commission on the Lithosphere (ICL) by the International Council for Science (ICSU), at the request of the International Union of Geological Sciences (IUGS) and the International Union of Geodesy and Geophysics (IUGG). The name was formally changed to the Scientific Committee on the Lithosphere in 1999. According to Decision 8.4 from the 2005 ICSU General Assembly, ICSU decided "to withdraw ICSU sponsorship from SCL/ILP and to recommend that responsibility would then shift to IUGG and IUGS." Since that time, IUGG and IUGS have reaffirmed the ILP mission and have collaborated to re-define ILP as an inter-Union body. New Terms of Reference have been approved by both Unions.

### FINANCES

IUGG collects annual contributions to carry out its support for Inter-Union science, Inter-Association initiatives, and IUGG administration, including IUGG publications. One half of IUGG's net income from the previous year is passed to the International Associations to use as they see fit.

The income of the Union comes from annual contributions of the Members. Member Adhering Bodies can choose to be regular paying Members or Associate (non-paying) Members. Members may send a delegate to quadrennial meetings of the IUGG Council and vote on matters of business. Scientists from regular Members may hold office in the International Associations and vote at their business meetings. Associate Members pay no contributions, have no voting rights, and their scientists may not hold offices in the IUGG Executive Committee and Finance Committee. However, scientists from Associate Member countries are welcome to attend all scientific and social activities at all IUGG and International Association meetings. The scientific data collected and research performed within Associate Member countries is valued by other scientists and the opportunities for networking and collaboration with other IUGG participants are abundant. Associate Membership can be a first step toward regular membership, if a country's economic condition does not currently permit the payment of annual dues.

A regular Member Adhering Body pays dues according to a scale ("the category number - See Table 1") established by the IUGG Finance Committee. Categories are related to the economic condition of the country and its participation in IUGG General Assemblies. Details are specified in Statute III and By-Law III of IUGG. Each category has an associated number of Units used to determine the dues to be paid. The value of a single Unit of membership in 2020 is USD 2,055. The Finance Committee uses an algorithm to determine the price of a Unit. The Finance Committee also reviews the

unité de cotisation est de USD 2055. Le Comité des finances utilise un algorithme pour déterminer le montant de l'unité. Le Comité des finances examine également la catégorie d'adhésion de chaque entité adhérente au moins une fois tous les quatre ans.

Tout défaut de paiement d'une cotisation par un pays entraîne son passage dans une catégorie particulière de membres sans droit de vote, dits «observateurs». Le défaut prolongé de paiement des cotisations peut entraîner l'expulsion d'un pays de l'UGGI.

category of membership for each Member Adhering Body at least every four years.

Failure to pay fees in a timely manner places a country into a special class of non-voting membership known as "observers". Continued failure to pay fees is grounds for expulsion from IUGG.

**Table 1: Member Adhering Bodies of IUGG**

MEMBERS	Dates of ADMISSION & TERMINATION	CATEGORY <sup>(1)</sup>	UNITS <sup>(2)</sup>
ALBANIA	1997-2002, 2003	A	0
ALGERIA	1971-2006, 2018	1	1
ARGENTINA	1927	3	3
ARMENIA	2000	A	0
AUSTRALIA	1919	5	7
AUSTRIA	1948	3	3
AZERBAIJAN	2010	1	1
BELGIUM	1919	4	5
BOLIVIA	1960-2000, 2006	A	0
BOSNIA & HERZEGOVINA	2003	A	0
BRAZIL	1922	3	3
BULGARIA	1930	1	1
<i>BURUNDI</i>	<i>1987-1995</i>		
CANADA	1919	6	10
CHILE	1924	2	2
CHINA	1977	6	10
CHINA – Acad. of Sciences in Taipei	1995	4	5
COLOMBIA	1938-1971, 2000	1	1
CONGO D.R. (**)	2004	A	0
COSTA RICA	2010	1	1
CROATIA	1992	1	1
<i>CUBA</i>	<i>1960-1996</i>		
CZECH REPUBLIC	1993	2	2
DENMARK	1923	4	5
<i>DOMINICAN REP.</i>	<i>1957-1971</i>		
EGYPT	1924	2	2
ESTONIA	1991	1	1
<i>ETHIOPIA</i>	<i>1952-2000</i>		
FINLAND	1927	3	3
FRANCE	1919	7	15
GEORGIA	2009	A	0
GERMANY	1951	8	20
GHANA	1957-1987, 2006	A	0
GREECE	1922-2003; 2008	2	2
<i>GUATEMALA</i>	<i>1957-2000</i>		
<i>GUINEA</i>	<i>1987-1995</i>		
<i>HAITI</i>	<i>1956-1971</i>		
HUNGARY	1930	2	2
ICELAND	1967	1	1
INDIA	1947	6	10
INDONESIA	1951	1	1
IRAN	1957	1	1
<i>IRAQ</i>	<i>1983-1996</i>		
IRELAND	1946	2	2
ISRAEL	1951	1	1
ITALY	1919	6	10
<i>IVORY COAST</i>	<i>1975-1996</i>		
JAPAN	1919	8	20
JORDAN	1979	1	1
<i>KENYA</i>	<i>1975-1997</i>		
KOREA	1960	2	2
<i>KOREA /DEM.REP</i>	<i>1967-2000</i>		
LATVIA	2019	A	0
<i>LEBANON</i>	<i>1967-2003</i>		
<i>LIBYA</i>	<i>1979-1996</i>		

**Table 1 (continued): Member Adhering Bodies of IUGG**

MEMBERS	Dates of ADMISSION & TERMINATION	CATEGORY <sup>(1)</sup>	UNITS <sup>(2)</sup>
LUXEMBOURG	1971	1	1
MADAGASCAR	1967-1995		
MALAYSIA	1967-2002		
MAURITIUS	2003	A	0
MEXICO	1922	2	2
MONACO	1967-2013		
MONGOLIA	1995-2001		
MOROCCO	1924	A	0
MOZAMBIQUE	1983	1	1
MYANMAR (BURMA)	1957-2003		
NEPAL	1975-1987		
NETHERLANDS	1925	4	5
NEW ZEALAND	1927	2	2
NICARAGUA	2014	A	0
NIGERIA	1971	2	2
NORTH MACEDONIA <sup>(****)</sup>	1995-2001, 2010	A	0
NORWAY	1923	4	5
PAKISTAN	1952	2	2
PERU	1925-1979, 2000	A	0
PHILIPPINES	1951-2015		
POLAND	1924	2	2
PORTUGAL	1919	2	2
ROMANIA	1930	1	1
RUSSIA (***)	1992	6	10
SAUDI ARABIA	1971-2001, 2012	2	2
SENEGAL	1960-1995		
SERBIA (*)	1996-2006, 2018	A	0
SIERRA LEONE	1967-1983		
SLOVAK REPUBLIC	1993	1	1
SLOVENIA	1994	1	1
SOUTH AFRICA	1924	3	3
SPAIN	1922	5	7
SUDAN	1955-2000		
SWEDEN	1923	4	5
SWITZERLAND	1923	5	7
SYRIA	1948-1995		
TANZANIA	1975-2000		
THAILAND	1923	2	2
TUNISIA	1927-2001		
TURKEY	1949	2	2
UK	1919	8	20
URUGUAY	1924-2000, 2018	A	0
USA	1919	11	35
VENEZUELA	1975-2008		
VIETNAM	1931	1	1
ZIMBABWE	1967-2000		

(1) According to IUGG Statute 12a, there are fourteen categories of membership in the Union, numbered 1 to 14, plus a special category, called A (Associate).

(2) According to IUGG Statute 12b and IUGG By-Law 18 a, for categories 1 to 14, each member country pays annually the number of units of contribution assigned to the category in which it adheres. Associates (Category A) do not pay an annual contribution to the Union.

(\*) Adhesion in 1996 under the name of the Federal Republic of Yugoslavia which was changed to Serbia and Montenegro in 2003, and changed to Serbia in 2018.

(\*\*) Adhesion in 1991 under the name Zaire, membership terminated in 1997.

(\*\*\*) Adhesion in 1954 under the name of the USSR.

(\*\*\*\*) Adhesion in 1995 under the name of the former Yugoslav Republic of Macedonia.

**Table 2:  
Regional Distribution of  
Members**

REGION	# OF MEMBERS
Africa	9
Asia	18
Europe	32
North and Central America	5
Oceania	2
South America	7

**Table 3:  
Affiliate Members of IUGG**

MEMBERS	ADMISSION
American Geoscience Institute (AGI)	2014
Commission for the Geological Map of the World (CGMW)	2014
International Association for Geoethics (IAGETH)	2014
International Association for Mathematical Geosciences (IAMG)	2015
International Consortium on Landslides (ICL)	2015
Young Earth Scientist (YES) Network	2014

**Table 4: IUGG General Assemblies**

Assembly	Year	National*	Foreigners*	Total*
I. Rome	1922			
II. Madrid	1924			
III. Prague	1927			
IV. Stockholm	1930	91	240	331
V. Lisbon	1933	40	160	200
VI. Edinburgh	1936	80	264	344
VII. Washington	1939	580	225	805
VIII. Oslo	1948	46	322	368
IX. Bruxelles	1951	60	858	918
X. Rome	1954	163	760	923
XI. Toronto	1957	293	872	1165
XII. Helsinki	1960	121	1254	1375
XIII. Berkeley	1963	1124	814	1938
XIV. Zurich	1967	151	2049	2200
XV. Moscow	1971	1070	1507	2577
XVI. Grenoble	1975	413	2151	2564
Durham, UK	1977		Exceptional G.A.	
XVII. Canberra	1979	469	1475	1944
XVIII. Hamburg	1983	495	2709	3204
XIX. Vancouver	1987	539	3400	3939
XX. Vienna	1991	162	4169	4331
XXI. Boulder	1995	2066	2415	4481
XXII. Birmingham	1999	647	3405	4052
XXIII. Sapporo	2003	1989	2162	4151
XXIV. Perugia	2007	618	3757	4375
XXV. Melbourne	2011	675	2717	3392
XXVI. Prague	2015	143	4088	4231
XXVII. Montreal	2019	869	3083	3952
XXVIII. Berlin	2023			

*\* The figures given do not take into account the accompanying persons.*

## Current Officers of IUGG

### Bureau of the Union

<i>President:</i>	Kathryn Whaler	UK
<i>President-Elect:</i>	Chris Rizos	AUSTRALIA
<i>Secretary General:</i>	Alexander Rudloff	GERMANY
<i>Treasurer:</i>	Niels Andersen	DENMARK
<i>Members:</i>	Stephen McNutt	USA
	Eduard Petrovsky	CZECH REPUBLIC
	Jun Xia	CHINA

### Executive Committee of the Union

According to Article 10 of the Statutes of IUGG, the Executive Committee consists of:

- the Bureau (see above),
- the Immediate Past President of the Union, Michael Sideris (CANADA)
- the Presidents of the International Associations:
 

<i>IACS:</i>	Regine Hock	USA
<i>IAG:</i>	Zuheir Altamimi	FRANCE
<i>IAGA:</i>	Mioara Manda	FRANCE
<i>IAHS:</i>	Günter Blöschl	AUSTRIA
<i>IAMAS:</i>	Joyce Penner	USA
<i>IAPSO:</i>	Trevor McDougall	AUSTRALIA
<i>IASPEI:</i>	Kenji Satake	JAPAN
<i>IAVCEI:</i>	Patrick Allard	FRANCE

### Finance Committee of the Union

<i>Chair:</i>	Corina Risso	ARGENTINA
<i>Members:</i>	József Ádám	HUNGARY
	Priscilla Grew	USA

## Secretariat of IUGG

The Secretariat of IUGG is located in Germany:

Helmholtz Centre Potsdam  
 GFZ German Research Centre for Geosciences  
 Telegrafenberg, A17  
 14473 Potsdam

<i>Executive Secretary:</i>	Franz G. Kuglitsch	GERMANY
<i>Assistant:</i>	Katrin Gundrum	GERMANY

The Executive Secretary of IUGG is a non-voting Member of the Bureau of the Union.

## IUGG Liaison Officers and Representatives

**IUGG Liaison Officers with Intergovernmental Organizations** (Principal Liaisons are marked by **bold**)

### IUGG Representatives to organizations of the United Nations

*United Nations Educational, Scientific and Cultural Organization (UNESCO):*

*International Hydrological Programme (IHP):* **Christophe Cudennec** FRANCE  
Charles Fierz SWITZERLAND

*Intergovernmental Oceanographic Commission (IOC):* **Denise Smythe-Wright** UK  
Satheesh Shenoï INDIA

*Section on Earth Sciences and Geo-Hazards Risk Reduction:* **Alik Ismail-Zadeh** GERMANY/RUSSIA  
Harsh Gupta INDIA

*World Meteorological Organization (WMO):* **Rogert Pulwarty** USA  
Christophe Cudennec FRANCE  
Charles Fierz SWITZERLAND  
Arnau Folch SPAIN  
Jens Wickert GERMANY  
Hua Zhang CHINA

*Intergovernmental Panel on Climate Change (IPCC):* **Franz Kuglitsch** GERMANY

*International Civil Aviation Organization (ICAO):* **David Schneider** USA  
Larry Mastin USA

*Committee of Experts on Global Geospatial Information Management (UN-GGIM):* **Harald Schuh** GERMANY

### IUGG Representatives on ISC Committees

*Committee on Data for Science and Technology (CODATA):* **Alena Rybkina** RUSSIA

*Committee on Space Research (COSPAR):* **Andrew W. Yau** CANADA  
Christopher Kotsakis GREECE

*Scientific Committee on Antarctic Research (SCAR):* **Ian Allison** AUSTRALIA  
John Turner UK

*Scientific Committee on Oceanic Research (SCOR):* Trevor McDougall AUSTRALIA  
Joyce Penner USA

*Scientific Committee on Solar-Terrestrial Physics (SCOSTEP):* **Renata Lukianova** RUSSIA  
Peter Pilewski USA

*World Data System (WDS):* **Toshihiko Iyemori** JAPAN  
Aude Chambodut FRANCE  
Carey Noll USA

### IUGG Representatives to other organizations

*Consultative Committee for Time and Frequency (CCTF):* **Claude Boucher** FRANCE  
Gerard Petit FRANCE

*Group on Earth Observations (GEO):* **Michael Sideris** CANADA  
Chris Rizos AUSTRALIA  
Kathryn Whaler UK

*Pan-American Institute of Geography and History (PAIGH):* **Laura Sanchez** GERMANY/COLOMBIA

*World Climate Research Programme (WCRP):* **Lisa Alexander** AUSTRALIA

## Accredited Delegates to the Council of IUGG

### IUGG Council 2019-2023

MEMBER COUNTRY	Name SURNAME
ALGERIA	Abdelkarim YELLES-CHAOUCHE
ARGENTINA	Sergio CIMBARO Corina RISSO (Alternate)
AUSTRALIA	Matt KING
AUSTRIA	Norbert HÖGGERL
AZERBAIJAN	Ibrahim GULIYEV Gulam BABAYEV (Alternate)
BELGIUM	Steven DEWITTE
BRAZIL	Roberto Teixeira LUZ
BULGARIA	Ivan GEORGIEV
CANADA	Fiona DARBYSHIRE
CHILE	Eduardo CAYUL Aristondo
CHINA	Jianping LI
CHINA-TAIPEI	Bor-Shouh HUANG
COLOMBIA	Laura SANCHEZ
COSTA RICA	Marino PROTTI
CROATIA	Mirko ORLIC
CZECH REPUBLIC	
DENMARK	Søren GREGERSEN
EGYPT	Ali Abdel Azim TEALEB
ESTONIA	Rein RÕÕM
FINLAND	Jyri NÄRÄNEN
FRANCE	Pierre BRIOLE
GERMANY	Jürgen MÜLLER
GREECE	Christos ZEREFOS
HUNGARY	József ÁDÁM
ICELAND	Kristin VOGFJÖRD
INDIA	Harsh GUPTA
INDONESIA	Priyadi KARDONO
IRAN	
IRELAND	Alun JONES
ISRAEL	Colin PRICE

MEMBER COUNTRY	Name SURNAME
ITALY	Fausto GUZZETTI Claudia PASQUERO (Alternate)
JAPAN	Setsuya NAKADA
JORDAN	
KOREA, Rep.	Sang-Mook LEE
LUXEMBOURG	Tonie VAN DAM
MEXICO	Miguel Ángel SANTOYO
MOZAMBIQUE	Viriato SAMBOCO Manuel F. KAMPINE (Alternate)
NETHERLANDS	Ramon HANSEN
NEW ZEALAND	Matt AMOS
NIGERIA	Dagogo M. J. FUBARA
NORWAY	Tormod KVAERNA
PAKISTAN	
POLAND	Jan KRYNSKI
PORTUGAL	João M. A. TORRES
ROMANIA	Constantin S. SAVA
RUSSIA	Alexei D. GVISHIANI
SAUDI ARABIA	
SLOVAK REPUBLIC	Jozef KRISTEK
SLOVENIA	Polona VRECA
SOUTH AFRICA	Isabelle ANSORGE
SPAIN	José Antonio LÓPEZ FERNÁNDEZ
SWEDEN	Caroline LECK
SWITZERLAND	Jan SEIBERT
THAILAND	Krit RAMMON Chaiwat PROMTHONG (Alternate)
TURKEY	Hürşit AĞIRCAN Mustafa ATA (Alternate)
UNITED KINGDOM	Kate HEAL
USA	
VIETNAM	Nguyen Xuan ANH



## Past Officers of IUGG Bureau

### PAST IUGG PRESIDENTS

1919-1933	Charles Lallemand (France)
1933-1936	William Bowie (USA)
1936-1942	Dan La Cour (Denmark)
1946-1948	Bjørn Helland-Hansen (Norway)
1948-1951	Felix A. Vening-Meinesz (Netherlands)
1951-1954	Sidney Chapman (UK)
1954-1957	Kalpathi R. Ramanathan (India)
1957-1960	John T. Wilson (Canada)
1960-1963	Vladimir V. Belousov (USSR)
1963-1967	Joseph Kaplan (USA)
1967-1971	Jean Coulomb (France)
1971-1975	Henry Charnock (UK)
1975-1979	Attia Ashour (Egypt)
1979-1983	George D. Garland (Canada)
1983-1987	Devendra Lal (India)
1987-1991	Vladimir I. Keilis-Borok (USSR)
1991-1995	Helmut Moritz (Austria)
1995-1999	Peter J. Wyllie (USA)
1999-2003	Masaru Kono (Japan)
2003-2007	Uri Shamir (Israel)
2007-2011	Tom Beer (Australia)
2011-2015	Harsh K. Gupta (India)
2015-2019	Michael Sideris (Canada)

### PAST IUGG VICE-PRESIDENTS

1919-1922	S.A.S. Prince Albert I de Monaco William Bowie (USA) Sir William Napier Shaw (UK) M. Tanakadate (Japan)
1922-1948	The Presidents of the Associations
1948-1951	Sydney Chapman (UK) Leason H. Adams (USA)
1951-1954	Gino Cassinis (Italy) Jacob Bjerknes (USA)
1954-1957	John T. Wilson (Canada)
1957-1960	Vladimir V. Belousov (USSR) Weikko Heiskanen (Finland)
1960-1963	Julius Bartels (FRG) Joseph Kaplan (USA)
1963-1967	Keith E. Bullen (Australia) Jean Coulomb (France)
1967-1969	Hisashi Kuno (Japan)
1969-1971	Liviu Constantinescu (Romania)
1971-1975	Attia Ashour (Egypt)
1975-1979	George D. Garland (Canada)
1979-1983	Nikolai V. Shebalin (USSR)
1983-1991	Carl Kisslinger (USA)
1991-1995	Peter J. Wyllie (USA)
1995-2003	Uri Shamir (Israel)
2003-2007	Tom Beer (Australia)
2007-2011	Harsh K. Gupta (India)
2011-2015	Michael Sideris (Canada)
2015-2019	Kathryn Whaler (UK)

### PAST IUGG SECRETARIES GENERAL

1919-1930	Sir Henry Lyons (UK)
1930-1946	Harold St. J.L. Winterbotham (UK)
1946-1951	James M. Stagg (UK)
1951-1963	Georges R. Laclavère (France)
1963-1973	George D. Garland (Canada)
1973-1991	Paul Melchior (Belgium) *
1991-1999	Georges Balmينو (France)

1999-2007	JoAnn Joselyn (USA)
2007-2019	Alik Ismail-Zadeh (Germany/Russia) * served as Adjoint Secretary General from 1971-1975

### PAST IUGG TREASURERS

1960-1971	Einar Andersen (Denmark)
1971-1979	Elvin Kejlsø (Denmark)
1979-1987	Ole Bedsted Andersen (Denmark)
1987-1999	Søren Gregersen (Denmark)
1999-2019	Aksel Hansen (Denmark)

### PAST IUGG BUREAU MEMBERS

1957-1960	George Deacon (UK) J. Wallace Joyce (USA) Chuji Tsuboi (Japan)
1960-1963	M.S. Krishnan (India) Takesi Nagata (Japan)
1963-1967	Bert Bolin (Sweden) Valery A. Troitskaya (USSR)
1967-1971	Liviu Constantinescu (Romania) Thomas Malone (USA) Alexei M. Oboukhov (USSR)
1971-1975	William C. Ackermann (USA) Liviu Constantinescu (Romania) Nikolai V. Shebalin (USSR)
1975-1979	Nikolai V. Shebalin (USSR) Henri Lacombe (France) Carl Kisslinger (USA)
1979-1983	James C.I. Dooge (Ireland) Henri Lacombe (France) Carl Kisslinger (USA)
1983-1987	James C.I. Dooge (Ireland) Vladimir I. Keilis-Borok (USSR) Helmut Moritz (Austria)
1987-1991	Gordon McBean (Canada) Helmut Moritz (Austria) Ye Duzheng (China)
1991-1995	Gordon McBean (Canada) Ye Duzheng (China) Andrei S. Monin (Russia)
1995-1999	Junyong Chen (China) Andrei S. Monin (Russia) Seiya Uyeda (Japan)
1999-2001	Junyong Chen (China) Harsh K. Gupta (India) L.Vere Shannon (South Africa)
2001-2003	Tom Beer (Australia) Junyong Chen (China) Harsh K. Gupta (India)
2003-2007	Yun-tai Chen (China) Harsh K. Gupta (India) Ali A.A. Tealeb (Egypt)
2007-2011	Yun-tai Chen (China) David Jackson (USA) Ali A.A. Tealeb (Egypt)
2011-2015	Isabelle Ansorge (South Africa) Pierre Hubert (France) Kenji Satake (Japan)
2015-2019	Isabelle Ansorge (South Africa) Pierre Hubert (France) Chris Rizos (Australia)

## Past Officers of IUGG Finance Committee

### PAST FC CHAIRS

1948-1954	John T. Wilson (Canada)
1957-1957	Arthur T. Doodson (UK)
1957-1963	K. Hilding Beij (USA)
1963-1967	M. Doportto (Ireland)
1967-1971	Tauno J. Kukkamäki (Finland)
1971-1975	James M. Stagg (UK)
1975-1979	Charles A. Whitten (USA)
1979-1983	Henry I.S. Thirlaway (UK)
1983-1995	Josep O. Cardus (Spain)
1995-1999	Attia A. Ashour (Egypt)
1999-2003	A. Fred Spilhaus (USA)
2003-2007	Mike Hamlin (UK)
2007-2011	Juan F. Vilas (Argentina)
2011-2016	David Collins (UK)
2017-2019	Jan Krynski (Poland)

### PAST FC SECRETARIES

1948-1957	K. Hilding Beij (USA)
1957-1960	Martin Goldschmidt (Israel)
1960-1967	Tauno J. Kukkamäki (Finland)
1967-1975	Charles A. Whitten (USA)
1975-1979	Henry I.S. Thirlaway (UK)
1979-1987	Arthur E. Maxwell (USA)
1987-1989	József Somogyi (Hungary)
1989-1999	A. Fred Spilhaus (USA)
1999-2003	Patrick Pinet (France)

### PAST FC MEMBERS

1948-1951	Gerardo Dianderas (Peru) Arthur T. Doodson (UK) Jean Vignal (France)
1951-1954	Arthur T. Doodson (UK) Martin Goldschmidt (Israel) Jean Vignal (France)
1954-1957	Martin J. Goldschmidt (Israel) Jean Vignal (France) Fritz Gassmann (Switzerland)
1957-1960	J.M. Rayner (Australia) A. Romana (Spain) Jean Vignal (France)
1960-1963	M. Doportto (Ireland) Jack M. Rayner (Australia) A. Romana (Spain)
1963-1967	Charles A. Whitten (USA) Stanislaw Krynski (Poland) A. Romana (Spain)
1967-1971	Stanislaw Krynski (Poland) James M. Stagg (UK) E. Walser (Switzerland)
1971-1975	Stanislaw Krynski (Poland) E. Walser (Switzerland) G. Yamamoto (Japan)
1975-1979	Stanislaw Krynski (Poland) G. Yamamoto (Japan) P.K. Das (India)
1979-1983	Josep O. Cardus (Spain) Jacub Rais (Indonesia) József Somogyi (Hungary)
1983-1987	Attia A. Ashour (Egypt) Jacub Rais (Indonesia) József Somogyi (Hungary)
1987-1991	Attia A. Ashour (Egypt) Jacub Rais (Indonesia) A. Fred Spilhaus (USA)
1991-1995	Attia A. Ashour (Egypt) A. Fred Spilhaus (USA) Mike J. Hamlin (UK)
1995-1999	Vinod K. Gaur (India) Erwin Groten (Germany) Mike J. Hamlin (UK)
1999-2003	Vinod K. Gaur (India) Erwin Groten (Germany) Mike J. Hamlin (UK)
2003-2007	Brian L.N. Kennett (UK) Kiyoshi Suyehiro (Japan) Juan F. Vilas (Argentina) David Jackson (USA)
2007-2011	David Collins (UK) Jan Krynski (Poland) Kiyoshi Suyehiro (Japan)
2011-2015	Zoltan Hajnal (Canada) Jan Krynski (Poland) David Rhoades (New Zealand)
2015-2016	Jan Krynski (Poland) Corina Risso (Argentina) Virendra Tiwari (India)
2016-2019	Nasser Abou Ashour (Egypt) Corina Risso (Argentina) Virendra Tiwari (India)

## Union Commissions

### Union Commission on Climatic and Environmental Change (CCEC):

[www.ccec-iugg.org](http://www.ccec-iugg.org)

<i>Chair:</i>	Jianping Li	CHINA
<i>Vice-Chair:</i>	Keith Alverson	USA / JAPAN
<i>Secretary-Treasurer:</i>	Tonie Van Dam	LUXEMBOURG
<i>Commission Members:</i>	Harry Bryden	UK
	Mark Clilverd	UK
	Annette Eicker	GERMANY
	Domenico Giardini	SWITZERLAND
	Andrew Mackintosh	AUSTRALIA
	Alberto Montanari	ITALY
	Joyce Penner	USA
	Alan Robock	USA
	Dan Rosbjerg	DENMARK
	<i>Immediate Past Chair:</i>	Tom Beer

### Union Commission on Mathematical Geophysics (CMG):

[www.iugg.org/about/commissions/cmg.php](http://www.iugg.org/about/commissions/cmg.php)

<i>Chair:</i>	Alik Ismail-Zadeh	GERMANY/RUSSIA	
<i>Secretary:</i>	Ilya Zaliapin	USA	
<i>Vice-Chairs:</i>	Ute Herzfeld	USA	
	Malcolm Sambridge	AUSTRALIA	
<i>Past Chair:</i>	Yehuda Ben-Zion	USA	
<i>Executive Committee Members:</i>	Roberto Carniel	ITALY	
	Enamudran Chandrasekhar	INDIA	
	William Dewar	USA	
	Alexander Fournier	FRANCE	
	Salvatore Grimaldi	ITALY	
	Shin-Chan Han	USA	
	Sang-Mook Lee	KOREA	
	Annick Pouquet	USA	
	<i>Advisory Committee Members:</i>	Dick Peltier	CANADA
		Daniel Rothman	USA

### Union Commission on Geophysical Risk and Sustainability (GRC) – TO BE UPDATED:

[www.iugg-georisk.org](http://www.iugg-georisk.org)

<i>Chair:</i>	John LaBrecque	USA	
<i>Vice-Chairs:</i>	Vyacheslav Gusiakov	RUSSIA	
	Alan Thomson	UK	
<i>Secretary-Treasurer:</i>	Paula Dunbar	USA	
<i>Past Chair:</i>	Kuniyoshi Takeuchi	JAPAN	
<i>Executive Committee Members:</i>	Mohsen Ghafory-Ashtiany	IRAN	
	Katia Kontar	USA	
	Michael Krautblatter	GERMANY	
	Joan Marti	SPAIN	
	Christa von Hillebrandt-Andrade	USA	
	Chun-Chieh Wu	CHINA-TAIPEI	
	<i>Advisory Board Members:</i>	Harsh Gupta	INDIA
		Gordon McBean	CANADA
		Uri Shamir	ISRAEL
	<i>Honorary Members:</i>	Tom Beer	AUSTRALIA
Alik Ismail-Zadeh		GERMANY	
Ramesh P. Singh		USA	

**Union Commission on the Study of the Earth's Deep Interior (SEDI) – TO BE UPDATED:**

www.sedigroup.org

<i>Chair:</i>	Jonathan Aurnou	USA
<i>Vice-Chair:</i>	Christine Thomas	GERMANY
<i>Secretary:</i>	Michael Bergman	USA
<i>Executive Committee Members at large:</i>	James Badro	FRANCE
	Philippe Cardin	FRANCE
	Ulrich R. Christensen	GERMANY
	Cathy Constable	USA
	Renaud Deguen	FRANCE
	Arwen Deuss	NETHERLAND
	Matthieu Dumberry	CANADA
	Tim Elliott	UK
	Rafael Garcia	FRANCE
	Ed Garnero	USA
	Yumei He	CHINA
	George Helffrich	JAPAN
	Richard Holme	UK
	Gauthier Hulot	FRANCE
	Dominique Jault	FRANCE
	Catherine Johnson	CANADA
	Chris Jones	UK
	Stephane Labrosse	FRANCE
	Thorne Lay	USA
	Guy Masters	USA
Yongxin Pan	CHINA	
Sebastian Rost	UK	
Hisa Shimizu	JAPAN	
Sabine Stanley	CANADA	
Paul Tackley	SWITZERLAND	
Satoru Tanaka (Past Chair)	JAPAN	
Hrvoje Tkalčić	AUSTRALIA	
James Wookey	UK	

**Union Commission on Data and Information (UCDI):**

www.iugg-ucdi.org

<i>Chair:</i>	Satheesh Sheno	INDIA
<i>Vice-Chair:</i>	Anatoly Soloviev	RUSSIA
<i>Executive Committee Members:</i>	Sonia Maria Alves Costa	BRAZIL
	Michelle Guy	USA
	Silvia Massaro	ITALY
	Yasuhiro Murayama	JAPAN
	Bruce H. Raup	USA
	Satoshi Taguchi	JAPAN
	<i>Co-opted Exec. Committee Member:</i>	Alena Rybkina

**Union Commission on Planetary Sciences (UCPS):**

http://202.127.29.4/geodesy/ucps

<i>Chair:</i>	Shuanggen Jin	CHINA
<i>Vice-Chairs:</i>	Nader Haghighipour	USA
	Paul Hartogh	GERMANY
	Scot Rafkin	USA
<i>Secretary/Treasurer:</i>	Christine Schott Hvidberg	DENMARK
<i>Executive Committee Members:</i>	Michael Purucker	USA
	Fabrizio Capaccione	ITALY
	Philippe Lognonné	FRANCE
	José Luis Macías-Vasquez	MEXICO

## Inter-Unions Commission

### Inter-Unions Commission on the Lithosphere: The International Lithosphere Program (ILP)

www.scl-ilp.org

<i>President:</i>	Hans Thybo	TURKEY / NORWAY
<i>Secretary General:</i>	Magdalena Scheck-Wenderoth	GERMANY
<i>Executive Secretary (2007-2019):</i>	Alexander Rudloff	GERMANY
<i>Bureau Members (Executive):</i>	IUGG: Harsh Gupta	INDIA
	IUGS: Kristine Asch	GERMANY
	Chair of National Representatives:	
	Alessandro Tibaldi	ITALY
<i>Advisory Board:</i>	Özlem Adiyaman Lopes	UNESCO
	Shuwen Dong	CHINA
	Cynthia Ebinger	USA
	Dietmar Mueller	AUSTRALIA
	Hiroshi Sato	JAPAN
	N.N.	AFRICA
	N.N.	LATIN AMERICA
<i>(Lifetime):</i>	Harsh Gupta	INDIA
	Mary von Knorring	SWEDEN
<i>(ILP-Fellow):</i>	Jörg Negendank	GERMANY
<i>Past President:</i>	Sierd Cloetingh	NETHERLANDS
<i>Past Secretary General:</i>	Roland Oberhänsli	GERMANY
<i>Honorary President:</i>	Alan Green	SWITZERLAND

## IUGG Committees

### Capacity Building and Education Committee

<i>Chair:</i>	Thorsten Wagener	UK
<i>Members:</i>	Nasser Abou-Ashour	EGYPT
	Moira Evelina Doyle	ARGENTINA
	Teodoro Georgiadis	ITALY / GREECE
	Bernhard Heck	GERMANY
	Gerhard Navratil	AUSTRIA
	Rrapo Ormeni	ALBANIA
	Feng Tian	CHINA

### Statutes and By-Laws Committee

<i>Chair:</i>	Charles Fierz	SWITZERLAND
<i>Members:</i>	Charles Barton	AUSTRALIA
	Jeffrey Freymueller	USA
	Ajai Manglik	INDIA
	Kathryn Whaler (ex-officio)	UK

### Visioning Committee

<i>Chair:</i>	Alexander Rudloff	GERMANY
<i>Members:</i>	Domenico Giardini	SWITZERLAND
	Franz Kuglitsch	GERMANY
	Andrew Mackintosh	NEW ZEALAND
	Mioara Manda	FRANCE
	Johanna Salminen	FINLAND

## INTERNATIONAL ASSOCIATIONS

IUGG comprises eight semi-autonomous International Associations, each responsible for a specific range of topics or themes within the overall scope of the Union's activities and each with a sub-structure discussed below. The International Associations hold Scientific Assemblies such as those since 1969 listed in Table 5.

### The eight International Associations are:

Association Internationale des Sciences Cryosphériques (AISC)  
International Association of Cryospheric Sciences (IACS)

Association Internationale de Géodésie (AIG)  
International Association of Geodesy (IAG)

Association Internationale de Géomagnétisme et d'Aéronomie (AIGA)  
International Association of Geomagnetism and Aeronomy (IAGA)

Association Internationale des Sciences Hydrologiques (AISH)  
International Association of Hydrological Sciences (IAHS)

Association Internationale de Météorologie et des Sciences de l'Atmosphère (AIMSA)  
International Association of Meteorology and Atmospheric Sciences (IAMAS)

Association Internationale pour les Sciences Physiques des Océans (AISPO)  
International Association for the Physical Sciences of the Oceans (IAPSO)

Association Internationale de Séismologie et de Physique de l'Intérieur de la Terre (AISPEI)  
International Association of Seismology and Physics of the Earth's Interior (IASPEI)

Association Internationale de Volcanologie et de Chimie de l'intérieur de la Terre (AIVCEI)  
International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)

**Table 5: Scientific Assemblies of the International Associations**

International Association	Year	Meeting Location	Number of Participants
IASPEI	1969	Madrid, Spain	NA
IAGA	1969	Madrid, Spain	475
IAPSO	1970	Tokyo, Japan	602
IASPEI	1973	Lima, Peru	250
IAGA	1973	Kyoto, Japan	613
IAMAP	1974	Melbourne, Australia	596
IAPSO	1974	Melbourne, Australia	596
IAG	1975	Grenoble, France	398
IASPEI	1977	Durham, UK	500
IAVCEI	1977	Durham, UK	500
IAGA	1977	Seattle, USA	950
IAMAP	1977	Seattle, USA	950
IASPEI	1981	London, Canada	448
IAGA	1981	Edinburgh, UK	747
IAMAP	1981	Hamburg, Germany	921
IAG	1982	Tokyo, Japan	200
IAVCEI	1982	Reykjavik, Iceland	190
IAHS	1982	Exeter, UK	530
IAPSO	1982	Halifax, Canada	759
IASPEI	1984	Hyderabad, India	285
IASPEI	1985	Tokyo, Japan	651
IAGA	1985	Praha, Czechoslovakia	994
IAMAP/IAPSO	1985	Hawaii, USA	450
IAHS	1986	Budapest, Hungary	310

**Table 5 (continued): Scientific Assemblies of the International Associations**

International Association	Year	Meeting Location	Number of Participants
IAPSO	1988	Acapulco, Mexico	543
IAG	1989	Edinburgh, UK	NA
IASPEI	1989	Istanbul, Turkey	611
IAGA	1989	Exeter, UK	1200
IAMAS/IAPSO	1989	Reading, UK	1020
IAHS	1989	Baltimore, MD, USA	440
IASPEI	1990	Nairobi, Kenya	132
IAVCEI	1991	Naples, Italy	800
IAG	1993	Beijing, China	350
IAVCEI	1993	Canberra, Australia	600
IAMAS/IAHS	1993	Yokohama, Japan	450
IAGA	1993	Buenos Aires, Argentina	505
IASPEI	1994	Wellington, New Zealand	483
IAPSO	1995	Hawaii, USA	700
IAG	1997	Rio de Janeiro, Brazil	350
IASPEI	1997	Thessaloniki, Greece	1040
IAVCEI	1997	Puerto Vallarta, Mexico	600
IAGA	1997	Uppsala, Sweden	1200
IAHS	1997	Rabat, Morocco	500
IAMAS/IAPSO	1997	Melbourne, Australia	1100
IAG	2001	Budapest, Hungary	461
IASPEI/IAGA	2001	Hanoi, Vietnam	1078
IAVCEI	2000	Bali, Indonesia	490
IAMAS	2001	Innsbruck, Austria	851
IAHS	2001	Maastricht, Netherlands	400
IAPSO*	2001	Mar del Plata, Argentina	430
IAVCEI	2004	Pucon, Chile	936
IAG/IAPSO*	2005	Cairns, Australia	724
IAGA	2005	Toulouse, France	886
IAHS	2005	Foz de Iguassu, Brazil	459
IAMAS	2005	Beijing, China	840
IASPEI	2005	Santiago, Chile	360
IAVCEI	2008	Reykjavik, Iceland	907
IASPEI	2009	Cape Town, South Africa	347
IAMAS/IAPSO/IACS	2009	Montreal, Canada	1340
IAGA	2009	Sopron, Hungary	832
IAG	2009	Buenos Aires, Argentina	363
IAHS	2009	Hyderabad, India	500
IACS/IAMAS	2013	Davos, Switzerland	950
IAHS/IAPSO/IASPEI	2013	Gothenburg, Sweden	1087
IAG	2013	Potsdam, Germany	532
IAGA	2013	Merida, Mexico	459
IAVCEI	2013	Kagoshima, Japan	1069
IACS	2017	Wellington, New Zealand	250
IAG/IASPEI	2017	Kobe, Japan	1107
IAGA/IAMAS/IAPSO	2017	Cape Town, South Africa	1000
IAHS	2017	Port Elizabeth, South Africa	223
IAVCEI	2017	Portland, OR, USA	1400

\* With the International Association for Biological Oceanography (IABO)

## International Association of Cryospheric Sciences (IACS) Association Internationale des Sciences Cryosphériques (AISC)

www.cryosphericsscience.org

On 4 July 2007, at the XXIV<sup>th</sup> IUGG General Assembly in Perugia, Italy, the IUGG Council decided to launch the International Association of Cryospheric Sciences (IACS) as the 8<sup>th</sup> IUGG Association. IACS is now a sister organization to long established Associations such as those for Hydrological Sciences (IAHS), Meteorology and Atmospheric Sciences (IAMAS) and Physical Sciences of the Oceans (IAPSO). The decision by the IUGG Council was mainly reached in recognition of the fact that the study of the Cryosphere has to be seen on equal footing to investigations of other components of the Earth system. With the initiation of IACS, its predecessors, the International Commission for Snow and Ice (ICSI) and the Union Commission on Cryospheric Sciences (UCCS) are superseded.

### IACS BUREAU 2019-2021

<i>President:</i>	Regine Hock	USA
<i>President-Elect:</i>	Liss M. Andreassen	NORWAY
<i>Past President:</i>	Charles Fierz	UK
<i>Secretary General:</i>	Richard Essery	NEW ZEALAND
<i>Vice-Presidents:</i>	Minghu DingStanislav Kutuzov	CHINA RUSSIA
	Andrew Mackintosh	AUSTRALIA

### IACS DIVISIONS

#### Division I – Snow and Avalanches:

*Head:* Charles Fierz SWITZERLAND

#### Division II – Glaciers:

*Head:* Gwenn Flowers CANADA

#### Division III – Ice Sheets:

*Head:* Sophie Nowicki USA

#### Division IV – Sea Ice, Lake and River Ice:

*Head:* Takenobu Toyota JAPAN

#### Division V – Cryosphere, Atmosphere and Climate:

*Head:* Anais Orsi FRANCE

#### Division VI – Planetary and other Ices of the Solar System:

*Head:* Christine Schøtt Hvidberg DENMARK

### IACS SERVICES

#### World Glacier Monitoring Service (WGMS):

*Director:* Michael Zemp SWITZERLAND

### PAST IACS PRESIDENTS

2007-2009 Georg Kaser (Austria)  
 2009-2013 Ian Allison (Australia)  
 2013-2017 Charles Fierz (Switzerland)

### PAST IACS SECRETARIES GENERAL

2007-2011 Manfred Lange (Germany)  
 2011-2019 Andrew Mackintosh (Australia)



## International Association of Geodesy (IAG) – TO BE UPDATED Association Internationale de Géodésie (AIG)

www.iag-aig.org

In April 1862, the “Mitteleuropäische Gradmessung” was initiated by a “preliminary consultation” of representatives of the states of Prussia, Austria and Saxony. It was established at the constituent conference in Berlin, October 1864, as the first international scientific association of significance and expanded to the “Internationale Erdmessung” (Association Géodésique Internationale) in 1886. At the first General Assembly of the IUGG in Rome, May 1922, it became one of the constituent Sections of the Union. It took its present name at the IUGG General Assembly in Stockholm, August 1930.

### IAG EXECUTIVE COMMITTEE 2015-2019

The IAG Executive Committee consists of the Bureau, the immediate Past President, the Commission Presidents, the Chair of the Global Geodetic Observing System, the President of the Communication and Outreach Branch, three Representatives of the Services, and two Members at Large.

#### IAG Bureau:

<i>President:</i>	Harald Schuh	GERMANY
<i>Vice-President:</i>	Zuheir Altamimi	FRANCE
<i>Secretary General:</i>	Hermann Drewes	GERMANY

#### Immediate Past President:

<i>President 2011-2015:</i>	Chris Rizos	AUSTRALIA
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#### Commission Presidents:

<i>Commission 1:</i>	Geoffrey Blewitt	USA
<i>Commission 2:</i>	Roland Pail	GERMANY
<i>Commission 3:</i>	Manabu Hashimoto	JAPAN
<i>Commission 4:</i>	Marcelo Santos	CANADA

#### President of the Inter-Commission Committee on Theory:

<i>ICCT President:</i>	Pavel Novák	CZECH REPUBLIC
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#### Chair of the Global Geodetic Observing System (GGOS):

Richard Gross	USA
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#### President of the Communication and Outreach Branch:

József Ádám	HUNGARY
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#### Representatives of the IAG Services:

Riccardo Barzaghi	ITALY
Ruth Neilan	USA
Axel Nothnagel	GERMANY

#### IAG Members at Large:

Yamin Dang	CHINA
Maria Cristina Pacino	ARGENTINA

#### Non-voting Members:

<i>Assistant Secretary:</i>	Franz Kuglitsch	GERMANY
<i>IAG Past Presidents:</i>	Helmut Moritz	AUSTRIA
	Ivan I. Mueller	USA
	Wolfgang Torge	GERMANY
	Fernando Sansó	ITALY
	Gerhard Beutler	SWITZERLAND
<i>Past Secretaries General:</i>	Michael Sideris	CANADA
	Claude Boucher	FRANCE

## IAG COMMISSIONS

### Commission 1: Reference Frames

*President:* Geoffrey Blewitt USA  
*Vice-President:* Johannes Böhm AUSTRIA

### Commission 2: Gravity Field

*President:* Roland Pail GERMANY  
*Vice-President:* Shuanggen Jin CHINA

### Commission 3: Earth Rotation and Geodynamics

*President:* Manabu Hashimoto JAPAN  
*Vice-President:* Cheng-Li Huang CHINA

### Commission 4: Positioning and Applications

*President:* Marcelo Santos CANADA  
*Vice-President:* Allison Kealy AUSTRALIA

### IAG INTER-COMMISSION COMMITTEE ON THEORY (ICCT)

*President:* Pavel Novák CZECH REPUBLIC  
*Vice-President:* Mattia Crespi ITALY

## IAG SERVICES

### Bureau Gravimétrique International (BGI):

*Director:* Sylvain Bonvalot FRANCE

### Bureau International de Poids et Mesures (BIPM), Time Department:

*Director of Department:* Patrizia Tavella FRANCE

### International Geodynamics and Earth Tide Service (IGETS)

*Chair:* Hartmut Wziontek GERMANY  
*Director Central Bureau:* Jean-Paul Boy FRANCE

### International Centre for Global Earth Models (ICGEM):

*Director:* Elmas Sinem Ince GERMANY

### International Digital Elevation Model Service (IDEMS):

*Director:* Kevin M. Kelly USA

### International DORIS Service (IDS):

*Chair Governing Board:* Frank Lemoine USA  
*Director Central Bureau:* Laurent Soudarin FRANCE

### International Earth Rotation and Reference Systems Service (IERS):

*Chair of Directing Board:* Brian Luzum USA  
*Director of Central Bureau:* Daniela Thaller GERMANY

### International Service for the Geoid (ISG):

*President:* Mirko Reguzzoni ITALY  
*Director:* Daniela Carrion ITALY

### International Gravity Field Service (IGFS):

*Chair:* Riccardo Barzaghi ITALY  
*Director of Central Bureau:* Georgios Vergos GREECE

### International GNSS Service (IGS):

*Chair of Governing Board:* Gary Johnston AUSTRALIA  
*Director of Central Bureau:* Allison Craddock USA

### International Laser Ranging Service (ILRS):

*Chair of Governing Board:* Guiseppe Bianco ITALY  
*Director of Central Bureau:* Michael Pearlman USA

### International Service for Geodesy and Astrometry (IVS):

*Chair of Directing Board:* Axel Nothnagel GERMANY  
*Director of Coord. Centre:* Dirk Behrend USA

**Permanent Service for Mean Sea Level (PSMSL):**

*Director:* Lesley J. Rickards UK

**IAG GLOBAL GEODETIC OBSERVING SYSTEM (GGOS)**

*Chair:* Richard Gross USA

*Vice-Chair:* Ruth Neilan USA

**IAG OFFICE**

**Deutsches Geodätisches Forschungsinstitut (DGFI)**

*Secretary General:* Hermann Drewes GERMANY

*Assistant Secretary:* Franz Kuglitsch GERMANY

*Assistant Treasurer:* Wolfgang Küffner GERMANY

**IAG COMMUNICATION AND OUTREACH BRANCH**

**Hungarian Academy of Sciences (HAS) / Budapest University of Technology and Economics (BUTE)**

*President:* József Ádám HUNGARY

*Secretary:* Szabolcs Rózsa HUNGARY

**JOURNAL OF GEODESY**

*Editor in Chief:* Jürgen Kusche GERMANY

**IAG SYMPOSIA SERIES**

*Editor in Chief:* Jeff Freymueller USA

*Assistant Editor:* Laura Sanchez GERMANY

**PAST IAG & FORERUNNER PRESIDENTS**

1864-1868 Peter Andreas Hansen (Thuringia)  
 1869-1874 August von Fligely (Austria)  
 1874-1891 Carlos Ibanez de Ibero (Spain)  
 1892-1902 Hervé Faye (France)  
 1903-1917 Léon Bassot (France)  
 1917-1922 Raul Gautier (Switzerland)  
 1922-1933 William Bowie (USA)  
 1933-1945 Felix A. Vening Meinesz (Netherlands)  
 1945-1951 Walter D. Lambert (USA)  
 1951-1954 Carl F. Baeschlin (Switzerland)  
 1954-1957 James de Graaf Hunter (UK)  
 1957-1960 Gino Cassinis (Italy)  
 1960-1963 Charles A. Whitten (USA)  
 1963-1967 Guy Bomford (UK)  
 1967-1971 Antonio Marussi (Italy)  
 1971-1975 Yuri D. Boulanger (USSR)  
 1975-1979 Tauno J. Kukkamäki (Finland)  
 1979-1983 Helmut Moritz (Austria)  
 1983-1987 Peter V. Angus-Leppan (Australia)  
 1987-1991 Ivan I. Mueller (USA)  
 1991-1995 Wolfgang Torge (Germany)  
 1995-1999 Klaus-Peter Schwarz (Canada)  
 1999-2003 Fernando Sansó (Italy)  
 2003-2007 Gerhard Beutler (Switzerland)  
 2007-2011 Michael Sideris (Canada)  
 2011-2015 Chris Rizos (Australia)

**PAST CENTRAL BUREAU DIRECTORS**

1864-1885 Johann Jacob Baeyer (Prussia/Germany)  
 1886-1917 Friedrich Robert Helmert (Germany)

**PAST PERMANENT SECRETARIES**

1886-1900 Adolf Hirsch (Switzerland)  
 1900-1921 Hendricus G. Van de Sande-Bakhuyzen (Netherlands)

**PAST SECRETARIES GENERAL AND CENTRAL BUREAU DIRECTORS**

1922-1945 George Perrier (France)  
 1946-1960 Pierre Tardi (France)  
 1960-1975 Jean-Jacques Levallois (France)  
 1975-1991 Michel Louis (France)  
 1991-1995 Claude Boucher (France)  
 1995-2007 Carl Christian Tscherning (Denmark)

## International Association of Geomagnetism and Aeronomy (IAGA) Association Internationale de Géomagnétisme et d'Aéronomie (AIGA)

[www.iugg.org/IAGA](http://www.iugg.org/IAGA)

At the First IUGG General Assembly (Rome, 1922), the *Section de Magnétisme et Electricité Terrestres* became one of the constituent *sections* of the Union. At the IV IUGG General Assembly (Stockholm, 1930), it became the *International Association of Terrestrial Magnetism and Electricity*. It took its present name at the X IUGG General Assembly (Rome, 1954).

### IAGA EXECUTIVE COMMITTEE 2019-2023

<i>President:</i>	Mioara Mandea	FRANCE
<i>Vice-Presidents:</i>	Alan Thomson	UK
	Andrew Yau	CANADA
<i>Secretary General:</i>	Monika Korte	GERMANY
<i>Treasurer:</i>	Aude Chambodut	FRANCE
<i>Past President:</i>	Eduard Petrovsky	CZECH REPUBLIC
<i>Members:</i>	Kusumita Arora	INDIA
	Loren Chang	TAIWAN, Early Career Representative
	Anna Kelbert	USA
	Michael Kosch	SOUTH AFRICA
	Huixin Liu	JAPAN
	Klaus Spitzer	GERMANY
	Ricardo Trindade	BRAZIL

### IAGA DIVISIONS

#### IAGA Division I – Internal Magnetic Fields

<i>Chair:</i>	Ján Šimkanin	CZECH REPUBLIC
<i>Co-Chairs:</i>	Julie Carlut	FRANCE
	Nicolas Gillet	FRANCE
	Liu Qinsong	CHINA

#### IAGA Division II – Aeronomical Phenomena

<i>Chair:</i>	Christoph Jacobi	GERMANY
<i>Co-Chair:</i>	Petra Knizova	CZECH REPUBLIC

#### Working Group II-A: Electrodynamics of the Middle Atmosphere

<i>Chair:</i>	Martin Füllekrug	UK
<i>Co-Chair:</i>	Mitsuteru Sato	JAPAN

#### Working Group II-C: Meteorological Effects on the Ionosphere

<i>Chair:</i>	Christina Arras	GERMANY
<i>Co-Chairs:</i>	Erdal Yigit	TURKEY

#### Working Group II-D: External Forcing of the Middle Atmosphere

<i>Chair:</i>	Christoph Jacobi	GERMANY
<i>Co-Chairs:</i>	Katja Matthes	GERMANY
	Nick Pedatella	USA

#### Working Group II-E: Ionospheric Irregularities, Fields and Waves

<i>Chair:</i>	Paulo Roberto Fangudes	BRAZIL
<i>Co-Chair:</i>	Michael Pezzopane	ITALY

#### Working Group II-F: Long-term Trends in the Mesosphere, Thermosphere and Ionosphere (IAGA/ICMA/SCOSTEP)

<i>Chair:</i>	Liyang Qian	USA
<i>Co-Chair:</i>	Jan Lastovicka	CZECH REPUBLIC

#### Working Group II-G: Ionosphere and Atmosphere Interactions in the Polar Regions

<i>Chair:</i>	Irina Mironova	RUSSIA
<i>Co-Chair:</i>	Earle Williams	USA

**IAGA/URSI Working Group: VLF/ELF Remote Sensing of the Ionosphere and Magnetosphere (VERSIM)**

*IAGA Chair:* Andrei Demekhov RUSSIA  
*Co-Chair:* Mark Clilverd UK

**IAGA Division III – Magnetospheric Phenomena**

*Chair:* Simon Wing USA  
*Co-Chair:* Georgios Balasis GREECE

**IAGA Division IV – Solar Wind & Interplanetary Field**

*Chair:* Mari Paz Miralles USA  
*Co-Chair:* Noé Lugaz USA

**IAGA Division V – Geomagnetic Observatories, Surveys & Analysis**

*Chair:* Masahito Nosé JAPAN  
*Co-Chair:* Roman Leonhardt AUSTRIA

**Working Group V-OBS: Geomagnetic Observation**

*Chair:* Jürgen Matzka GERMANY  
*Co-Chair:* Katia Pinheiro BRAZIL

**Working Group V-MOD: Geomagnetic Field Modeling**

*Chair:* Patrick Alken USA  
*Co-Chair:* Ciaran Beggan UK

**Working Group V-DAT: Geomagnetic Data and Indices**

*Chair:* Ellen Clarke UK  
*Co-Chair:* Anna Willer DENMARK

**IAGA Division VI – Electromagnetic Induction in the Earth and Planetary Bodies**

*Chair:* Ute Weckmann GERMANY  
*Co-Chair:* Kiyoshi Baba JAPAN

**IAGA Inter-divisional Commissions**

**Inter-divisional Commission on Developing Countries**

*Chair:* Geeta Vichare INDIA  
*Co-Chairs:* Igo Paulino BRAZIL  
 Marta M. Zossi ARGENTINA

**Inter-divisional Commission on History**

*Chair:* Anatoly Soloviev RUSSIA  
*Co-Chair:* Justin Mabie USA

**Inter-divisional Commission on Education and Outreach**

*Chair:* Barbara Leichter AUSTRIA  
*Co-Chair:* Jayashree Bulusu INDIA  
 Carlo Laj FRANCE

**Inter-divisional Commission on Space Weather**

*Chair:* Antti Pulkkinen USA  
*Co-Chair:* Stefan Lotz SOUTH AFRICA

**IAGA - Joint Interassociation Working Groups**

**IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV)**

[www.emsev-iugg.org/emsev](http://www.emsev-iugg.org/emsev)

*Chair:* Toshiyasu Nagao JAPAN  
*Vice-Chair:* Valerio Tramutoli ITALY  
*Secretary and IAGA*  
*Liaison:* Jann-Yenq Liu CHINA-TAIPEI

**PAST IAGA PRESIDENTS**

1919-1922 Aikitsu Tanakadate (Japan)  
1922-1927 Charles Chree (UK)  
1927-1930 Louis A. Bauer (USA)  
1930-1948 John A. Fleming (USA)  
1948-1951 Sydney Chapman (UK)  
1951-1954 Jean Coulomb (France)  
1954-1957 Julius Bartels (F.R. Germany)  
1957-1960 Joseph Kaplan (USA)  
1960-1963 Viggo Laursen (Denmark)  
1963-1967 Marcelle Nicolet (Belgium)  
1967-1971 Takesi Nagata (Japan)  
1971-1975 Valery A. Troitskaya (USSR)  
1975-1979 Juan G. Roederer (USA)  
1979-1983 Keith D. Cole (Australia)  
1983-1987 Denis I. Gough (Canada)  
1987-1991 Roger E. Gendrin (France)  
1991-1995 D. J. Williams (USA)  
1995-1999 Masaru Kono (Japan)  
1999-2003 David J. Kerridge (UK)  
2003-2007 Charles Barton (Australia)  
2007-2011 Eigil Friis-Christensen (Denmark)  
2011-2015 Kathryn Whaler (UK)  
2015-2019 Eduard Petrovsky (Czech Republic)

**PAST IAGA GENERAL SECRETARIES**

1919-1927 Louis A. Bauer (USA)  
1927-1933 Charles Maurain (France)  
1933-1936 Dan La Cour (Denmark)  
1936-1939 A.H.R. Goldie (UK)  
1939-1951 J. Wallace Joyce (USA)  
1951-1957 Viggo Laursen (Denmark)  
1957-1963 Josep O. Cardus (Spain)  
1963-1975 Leroy Alldredge (USA)  
1975-1983 Naoshi Fukushima (Japan)  
1983-1995 Michael Gadsden (UK)  
1995-1999 JoAnn Joselyn (USA)  
1999-2001 Herbert W. Kroehl (USA)  
2001-2009 Bengt Hultqvist (Sweden)  
2009-2019 Mioara Mandea (France)

## International Association of Hydrological Sciences (IAHS) – TO BE UPDATED Association Internationale des Sciences Hydrologiques (AISH)

<http://iahs.info>

At the First IUGG General Assembly (Rome, 1922), the *Section d'Hydrologie Scientifique* became one of the constituent *sections* of the Union. At the IV IUGG General Assembly (Stockholm, 1930) it became the *International Association of Scientific Hydrology*. It took its present name at the XV IUGG General Assembly (Moscow, 1971).

### IAHS OFFICERS, 2017-2019

<i>President:</i>	Günter Blöschl	AUSTRIA
<i>Past President</i>	Hubert Savenije	NETHERLANDS
<i>Vice-Presidents:</i>	Georgia (Gia) Destouni	SWEDEN
	Elango Lakshmanan	INDIA
	Eric Servat	FRANCE
<i>Honorary Vice-President:</i>	Jun Xia	CHINA
<i>Secretary General:</i>	Christophe Cudennec	FRANCE
<i>Treasurer:</i>	Cate Gardner	UK
<i>Incoming Treasurer:</i>	Kate Heal	UK
<i>Editors:</i>	Attilio Castellarin	ITALY
	Demetris Koutsoyiannis	GREECE
	Ross Woods	UK
<i>Chair IAHS Ltd.:</i>	Cate Gardner	UK

### IAHS INTERNATIONAL COMMISSIONS

#### International Commission on Continental Erosion (ICCE)

<i>President:</i>	Adrian Collins	UK
<i>Vice-Presidents:</i>	Kazimierz Banasik	POLAND
	Sergey Chalov	RUSSIA
	Dieter Rickenmann	SWITZERLAND
<i>Secretary:</i>	Paolo Porto	ITALY
<i>Past President:</i>	Michael Stone	CANADA

#### International Commission on Coupled Land-Atmosphere Systems (ICCLAS)

<i>President:</i>	Harald Kunstmann	GERMANY
<i>Vice-Presidents:</i>	Chris White	AUSTRALIA
	Kaniska Mallick	LUXEMBOURG
	Richard Petrone	CANADA
<i>Secretary:</i>	Koray K. Yilmaz	TURKEY
<i>Past President:</i>	Eva Boegh	DENMARK

#### International Commission on Groundwater (ICGW)

<i>Vice-Presidents:</i>	Corinna Abesser	UK
	Gunnar Nützmann	GERMANY
	Jichun Wu	CHINA
<i>Secretary:</i>	Laura Foglia	GERMANY
<i>Past President:</i>	Aldo Fiori	ITALY

#### International Commission on Remote Sensing (ICRS)

<i>President:</i>	Yangbo Chen	CHINA
<i>Vice-Presidents:</i>	Chris Hopkinson	CANADA
	Maria Jose Polo Gomez	SPAIN
	Zhongbo (Bob) Su	NETHERLANDS
<i>Secretary:</i>	Gilles Boulet	FRANCE
<i>Past President:</i>	Christopher Neale	USA

#### International Commission on Statistical Hydrology (ICSH)

<i>President:</i>	Ashish Sharma	AUSTRALIA
<i>Vice-Presidents:</i>	Ebru Eris	TURKEY
	Yuanfang Chen	CHINA
	Krzysztof Kochanek	POLAND
<i>Secretary:</i>	Elena Volpi	ITALY

<i>Past President:</i>	Salvatore Grimaldi	ITALY
<b>International Commission on Snow and Ice Hydrology (ICSIH)</b>		
<i>President:</i>	Tobias Jonas	SWITZERLAND
<i>Vice-Presidents:</i>	Tim Link	USA
	Sebastian Mernild	CHILE
	Melody Sandells	UK
<i>Secretary:</i>	Alexander Gelfan	RUSSIA
<i>Past President:</i>	Danny Marks	USA
<b>International Commission on Surface Water (ICSW)</b>		
<i>President:</i>	Gil Mahé	FRANCE
<i>Vice-Presidents:</i>	Ennio Ferrari	ITALY
	David Hannah	UK
	Thomas Skaugen	NORWAY
<i>Secretary:</i>	Yan Huang	CHINA
<i>Past President:</i>	Hafzullah Aksoy	TURKEY
<b>International Commission on Tracers (ICT)</b>		
<i>President:</i>	Christine Stumpp	GERMANY
<i>Vice-Presidents:</i>	Maki Tsujimura	JAPAN
	Zhonghe Pang	CHINA
	Josep Mas-Pla	SPAIN
<i>Secretary:</i>	Przemyslaw Wachniew	POLAND
<b>International Commission on Water Quality (ICWQ)</b>		
<i>President:</i>	Wouter Buytaert	UK
<i>Vice-Presidents:</i>	A.B. Gupta	INDIA
	Matt Hipsey	AUSTRALIA
	Xiaohong Chen	CHINA
<i>Secretary:</i>	Per Stålnacke	NORWAY
<i>Past President:</i>	Kate Heal	UK
<b>International Commission on Water Resources Systems (ICWRS)</b>		
<i>President:</i>	Andreas Schumann	GERMANY
<i>Vice-Presidents:</i>	Barry Croke	AUSTRALIA
	Magdalena Rogger	AUSTRIA
	Zongxue Xu	CHINA
<i>Secretary:</i>	Alberto Viglione	AUSTRIA
<i>Past President:</i>	Alberto Montanari	ITALY
<b>IAHS WORKING GROUPS</b>		
<b>“Panta Rhei – Everything Flows” - Change in Hydrology and Society</b>		
<i>Chair:</i>	Giuliano Di Baldassare	SWEDEN
<b>Education in Hydrological Sciences</b>		
<i>Chair:</i>	Eric Servat	FRANCE
<b>MOXXI (Measurements and Observations in the XXIst century)</b>		
<i>Chair:</i>	Flavia Tauro	ITALY
<b>CANDHY (Citizen AND Hydrology)</b>		
<i>Chair:</i>	Flavia Tauro	ITALY



**PAST IAHS PRESIDENTS**

1922-1933 E. Wade (UK)  
1933-1936 Jan Smetana (Czechoslovakia)  
1936-1947 Otto Lütschg (Switzerland)  
1947-1948 Gustaf Slettenmark (Sweden)  
1948-1951 Merrill Bernard (USA)  
1951-1957 Johannes T. Thijssse (Netherlands)  
1957-1960 Harold G. Wilm (USA)  
1960-1963 W. Friedrich (F.R. Germany)  
1963-1967 Adriaan Volker (Netherlands)  
1967-1970 Károly Szeztay (Hungary)  
1970-1971 William C. Ackermann (USA)  
1971-1975 Jean Rodier (France)  
1975-1979 James C.I. Dooge (Ireland)  
1979-1983 Mark F. Meier (USA)  
1983-1987 György Kovacs (Hungary)  
1987-1991 Vit Klemes (Canada)  
1991-1995 Uri Shamir (Israel)  
1995-2001 John C. Rodda (UK)  
2001-2005 Kuniyoshi Takeuchi (Japan)  
2005-2009 Arthur Askew (Australia)  
2009-2013 Gordon Young (Canada)  
2013-2017 Hubert Savenije (Netherlands)

**PAST IAHS SECRETARIES GENERAL**

1922-1933 Giovanni Magrini (Italy)  
1933-1947 Frédéric Diénert (France)  
1947-1948 Auguste Vibert (France)  
1948-1971 Léon J. Tison (Belgium)  
1971-1975 György Kovacs (Hungary)  
1975-1979 Jean Rodier (France)  
1979-1987 John C. Rodda (UK)  
1987-1995 Henny J. Colenbrander (Netherlands)  
1995-2000 Gordon J. Young (Canada)  
2000-2011 Pierre Hubert (France)

## International Association of Meteorology and Atmospheric Sciences (IAMAS) – TO BE UPDATED

### Association Internationale de Météorologie et des Sciences de l'Atmosphère (AIMSA)

[www.iamas.org](http://www.iamas.org)

Right at the start of IUGG in July 1919, the *Section de Météorologie* became one of the constituent *sections* of the Union. At the fourth IUGG General Assembly (Stockholm, 1930) it became the *International Association of Meteorology*. It was renamed *International Association of Meteorology and Atmospheric Physics* at the eleventh IUGG General Assembly (Toronto, 1957) and, more general, *International Association of Meteorology and Atmospheric Sciences* in 1993.

#### IAMAS EXECUTIVE COMMITTEE 2015-2019

<i>President:</i>	John Turner	UK
<i>Vice-Presidents:</i>	Joyce E. Penner	USA
	Laura Gallardo Klenner	CHILE
<i>Past President:</i>	Athena Coustenis	FRANCE
<i>Secretary General:</i>	Teruyuki Nakajima	JAPAN
<i>Deputy Secretary General:</i>	Steven Ackerman	USA
<i>Assistant Secretaries General</i>	Yoshinobu Sasaki	JAPAN
<i>(not voting):</i>	Nozomi Tomizawa	JAPAN
	Miyuki Miyazaki	JAPAN
<i>Members at large:</i>	Lisa Alexander	AUSTRALIA
	Keith Alverson	USA / JAPAN
	Iracema Cavalcanti	BRAZIL
	Daren Lu	CHINA
	Colin Price	ISRAEL
<i>Commission presidents (ex officio):</i>	see below	see below

#### IAMAS COMMISSIONS

##### Atmospheric Chemistry and Global Pollution (ICACGP)

[www.icacgp.org](http://www.icacgp.org)

<i>President:</i>	John P. Burrows	GERMANY
<i>Vice-President:</i>	Melita Keywood	AUSTRALIA
<i>Secretary:</i>	James R. Drummond	CANADA

##### Atmospheric Electricity (ICAE)

<http://icae.jp>

<i>President:</i>	Dahong Wang	CHINA
<i>Secretary:</i>	Tomoo Ushio	JAPAN

##### Climate (ICCL)

[www.iccl-iamas.net](http://www.iccl-iamas.net)

<i>President:</i>	Neil Holbrook	AUSTRALIA
<i>Secretary:</i>	Jianping Li	CHINA

##### Clouds and Precipitation (ICCP)

[www.iccp-iamas.org](http://www.iccp-iamas.org)

<i>President:</i>	Andrea Flossmann	FRANCE
<i>Vice-President:</i>	Greg McFarquhar	USA
<i>Secretary:</i>	Darrel Baumgardner	MEXICO

##### ICCP - Committee on Nucleation and Atmospheric Aerosols

[www.icnaa.org](http://www.icnaa.org)

<i>Chair:</i>	Barbara N. Hale	USA
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##### Dynamic Meteorology (ICDM)

<http://icdm.atm.ucdavis.edu/ICDM.html>

<i>President:</i>	Richard Grotjahn	USA
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*Vice-President:* Thomas Spengler NORWAY  
*Secretary:* Nili Harnik ISRAEL

**Middle Atmosphere (ICMA)**

[www.icma-iamas.org](http://www.icma-iamas.org)

*President:* Elisa Manzini GERMANY  
*Vice-President:* Bernd Funke SPAIN

**Ozone (IO3C)**

[www.io3c.org](http://www.io3c.org)

*President:* Sophie Godin-Beekmann FRANCE  
*Vice-President:* Paul A. Newman USA  
*Secretary:* Irina Petropavlovskikh USA

**Planetary Atmospheres and their Evolution (ICPAE)**

<http://icpae.iaps.inaf.it/>

*President:* Sanjay Limaye USA  
*Vice-President:* Feng Tian CHINA  
*Secretary:* Christina Plainaki ITALY

**Polar Meteorology (ICPM)**

[www.icpm-iamas.aq](http://www.icpm-iamas.aq)

*President:* Tom Lachlan-Cope UK  
*Secretary:* Matthew Lazzara USA

**Radiation (IRC)**

[www.irc-iamas.org](http://www.irc-iamas.org)

*President:* Byung-Ju Sohn KOREA  
*Vice-President:* Peter Pilewskie USA  
*Secretary:* Marcia Akemi Yamasoe BRAZIL

**PAST IAMAS PRESIDENTS**

1919-1930 William Napier Shaw (UK)  
 1930-1936 Axel Wallen (Sweden)  
 1936-1948 Sidney Chapman (UK)  
 1948-1951 Jacob Bjerknes (USA)  
 1951-1954 Kalpathi R. Ramanathan (India)  
 1954-1957 Carl-Gustaf Rossby (Sweden)  
 1957-1960 Jacques van Mieghem (Belgium)  
 1960-1963 Horace R. Byers (USA)  
 1963-1967 Alexei M. Oboukhov (USSR)  
 1967-1971 Reginald C. Sutcliffe (UK)  
 1971-1975 Sigmund Fritz (USA)  
 1975-1979 Christian Junge (F.R.Germany)  
 1979-1983 Warren L. Godson (Canada)  
 1983-1987 Hans-Jürgen Bolle (Austria)  
 1987-1991 G. Brian Tucker (Australia)  
 1991-1995 Brian J. Hoskins (UK)  
 1995-1999 Robert A. Duce (USA)  
 1999-2003 Huw C. Davies (Switzerland)  
 2003-2007 Michael C. MacCracken (USA)  
 2007-2011 Guoxiong Wu (China)  
 2011-2015 Athena Coustenis (France)

**PAST IAMAS SECRETARIES GENERAL**

1919-1922 Charles F. Marvin (USA)  
 1922-1927 Filippo Eredia (Italy)  
 1927-1936 Philippe Wehrlé (France)  
 1936-1948 Jacob Bjerknes (USA)  
 1948-1954 Jacques van Mieghem (Belgium)  
 1954-1960 Reginald C. Sutcliffe (UK)  
 1960-1975 Warren L. Godson (Canada)  
 1975-1987 Stanley Ruttenberg (USA)  
 1987-1995 Michael Kuhn (Austria)  
 1995-2007 Roland List (Canada)  
 2007-2015 Hans Volkert (Germany)

## International Association for the Physical Sciences of the Oceans (IAPSO) Association Internationale pour les Sciences Physiques des Océans (AISPO)

<http://iapso.iugg.org>

At the First IUGG General Assembly (Rome, 1922), the *Section d'Océanographie* became one of the constituent Sections of the Union. At the IV IUGG General Assembly (Stockholm, 1930) it became the *International Association of Physical Oceanography*. It took its present name at the XIV IUGG General Assembly (Zurich, 1967).

### IAPSO BUREAU 2019 – 2023

<i>President:</i>	Trevor McDougall	AUSTRALIA
<i>Past President:</i>	Denise Smythe-Wright	UK
<i>Secretary General:</i>	Stefania Sparnocchia	ITALY
<i>Treasurer:</i>	Ken Ridgway	AUSTRALIA

### IAPSO EXECUTIVE COMMITTEE 2019 – 2023

<i>Vice-Presidents:</i>	Agatha de Boer	SWEDEN
	Hans van Haren	NETHERLANDS
<i>Members:</i>	Edmo Campos	BRAZIL
	Juliet Hermes	SOUTH AFRICA
	Yukio Masumoto	JAPAN
	Jae-Hun Park	KOREA
	Christa von Hillebrandt-Andrade	USA
	Peter Zavialov	RUSSIA

### IAPSO COMMISSIONS

#### Mean Sea Level & Tides

<i>President:</i>	Gary T. Mitchum	USA
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### JOINT COMMISSIONS & WORKING GROUPS

#### IAPSO/IASPEI/IAVCEI Joint Tsunami Commission

<i>Chair:</i>	Yuichiro Tanioka	JAPAN
<i>Vice-Chairs:</i>	Maria Ana Baptista	PORTUGAL
	Diana Greenslade	AUSTRALIA
	Alexander Rabinovich	RUSSIA
<i>Secretary:</i>	Mohammad Heidarzadeh	IRAN/UK
<i>IAPSO Representative:</i>	Efim Pelinovsky	RUSSIA

#### SCOR/IAPWS/IAPSO Joint Committee on the Properties of Seawater, JCS

<i>Chair:</i>	Rich Pawlowicz	CANADA
<i>Vice-Chairs:</i>	Rainer Feistel	GERMANY
	Steffen Seitz	GERMANY

#### IAPSO Early Career Scientists Working Group

<i>Chair:</i>	Alejandra Sanchez-Franks	UK
<i>Vice-Chair:</i>	Malin Ödalen	GERMANY

### SERVICES

#### Permanent Service for Mean Sea Level (affiliated to the World Data System of ISC)

[www.psmsl.org](http://www.psmsl.org)

<i>Director:</i>	Elizabeth Bradshaw	UK
<i>IAPSO Liaison:</i>	Philip L. Woodworth	UK

#### IAPSO Standard Seawater Service

<i>Director:</i>	Richard Williams	UK
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**PAST IAPSO PRESIDENTS**

1919-1922 S.A.S. Prince Albert 1<sup>er</sup> (Monaco)  
1924-1930 Odón de Buen (Spain)  
1930-1936 Martin Knudsen (Denmark)  
1936-1946 Bjørn Helland-Hansen (Norway)  
1946-1951 Harald U. Sverdrup (Norway)  
1951-1954 Joseph Proudman (UK)  
1954-1960 Håkon Mosby (Norway)  
1960-1963 George E.R. Deacon (UK)  
1963-1967 Roger Revelle (USA)  
1967-1970 Günter Dietrich (F.R. Germany)  
1970-1975 Henri Lacombe (France)  
1975-1979 Robert W. Stewart (Canada)  
1979-1983 Devendra Lal (India)  
1983-1987 Wolfgang M. Krauss (F.R. Germany)  
1987-1991 James J. O'Brien (USA)  
1991-1995 Robin D. Muench (USA)  
1995-1999 L.Vere Shannon (South Africa)  
1999-2003 Paola Rizzoli (Italy/USA)  
2003-2007 Shiro Imawaki (Japan)  
2007-2011 Lawrence Mysak (Canada)  
2011-2015 Eugene G. Morozov (Russia)  
2015-2019 Denise Smythe-Wright (UK)

**PAST IAPSO SECRETARIES GENERAL**

1919-1930 Giovanni Magrini (Italy)  
1930-1933 Rolf Witting (Finland)  
1933-1948 Joseph Proudman (UK)  
1948-1954 Håkon Mosby (Norway)  
1954-1957 Richard H. Fleming (USA)  
1957-1963 Börje Kullenberg (Sweden)  
1963-1967 Ilmo Hela (Finland)  
1967-1970 Arthur E. Maxwell (USA)  
1970-1987 Eugene C. LaFond (USA)  
1987-1995 Robert E. Stevenson (USA)  
1995-2007 Fred E. Camfield (USA)  
2007-2015 Johan Rodhe (Sweden)

# International Association of Seismology and Physics of the Earth's Interior (IASPEI) Association Internationale de Séismologie et de Physique de l'Intérieur de la Terre (AISPIT)

www.iaspei.org

At the Sixth International Congress of Geography (London, 1895), G. Gerland (Germany) presented E. v. Rebeur-Paschwitz' ideas on the necessity of an international cooperation in seismology. At the Seventh Congress (Berlin, 1899) a *Commission séismologique permanente* was created. The first meeting of the Commission was held in Strasbourg in 1901 under the name of *Première Conférence Séismologique Internationale*. Subsequent conferences were held in Strasbourg (1903) and Berlin (1905). During the 2<sup>nd</sup> Strasbourg meeting, an international convention had been drafted to form the *Association Internationale de Séismologie* by signatures of member states. After being signed by 18 states the convention came in power on 1 April 1904. It consisted of a permanent *Bureau* located in Strasbourg, *General Assemblies* and a *Commission Permanente*. The *Commission Permanente* was formed during the Berlin conference and met in Rome (1906), The Hague (1907), Zermatt (1910), Manchester (1911), and Strasbourg (1922). General Assemblies were held jointly in The Hague, Manchester, and Strasbourg. The Association was dissolved by the Strasbourg General Assembly. At the first IUGG General Assembly (Rome, 1922), seismology became one of the constituent Sections of the Union. It changed its name to *International Association of Seismology* at the IV IUGG General Assembly (Stockholm, 1930) and took its present name at the IX IUGG General Assembly (Bruxelles, 1951). For a detailed account of the history of the International Association of Seismology and Physics of the Earth's Interior, see: J. H. Hodgson, *Our Association, its Past as a Guide to its Future* (Comptes Rendus de l'AISPIT, n15, Première Partie, 12-28, 1967); J.-P. Rothé, *Fifty Years of the International Association of Seismology (1901-1951)* (BSSA, 71, 905–923, 1981); R. Adams, *International Seismology* (in *International Handbook of Earthquake & Engineering Seismology*, ed. by Willie Lee et al., 29-37, 2002); and J. Schweitzer & T. Lay, *IASPEI: its origins and the promotion of global seismology* (History of Geo- and Space Sciences, 10, 173-180, 2019).

## IASPEI BUREAU 2019 – 2023

<i>President:</i>	Kenji Satake	JAPAN
<i>First Vice-President:</i>	Michelle Grobbelaar	SOUTH AFRICA
<i>Second Vice-President:</i>	Li Li	CHINA
<i>Secretary General/Treasurer:</i>	Johannes Schweitzer	NORWAY

## IASPEI EXECUTIVE COMMITTEE 2019 – 2023

<i>Members:</i>	Sergio Barrientos	CHILE
	Fiona Ann Darbyshire	CANADA
	Danliela Pantosti	ITALY
	Dmitry Storchak	UK
<i>Past President:</i>	Thorne Lay	USA

## IASPEI COMMISSIONS

### Commission on Tectonophysics and Crustal Structure

<i>Co-Chairs:</i>	Uli Achauer	FRANCE
	Mian Liu	USA

### Commission on Earthquake Hazard, Risk & Strong Ground Motion (SHR)

<i>Chair:</i>	Gary Gibson	AUSTRALIA
<i>Vice-Chair:</i>	Alison Bird	CANADA

### Commission on Earth Structure & Geodynamics

<i>Co-Chairs:</i>	TBD	
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### Commission on Seismological Observation & Interpretation (CoSOI)

<i>Chair:</i>	Torsten Dahm	GERMANY
---------------	--------------	---------

### Working Group on Seismic Scattering & Heterogeneity

<i>Chair:</i>	Hisashi Nakahara	JAPAN
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### Working Group on Utilization of Global 3-D Models for Seismic Observatory Applications

<i>Chair:</i>	Steve C. Myers	USA
---------------	----------------	-----

### Working Group on Magnitude Measurements

<i>Chair:</i>	Allison Bent	CANADA
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**Working Group on New Manual of Seismological Observatory Practice**

*Chair:* Torsten Dahm GERMANY

**Working Group on Triggered and Induced Seismicity**

*Chair:* Stanislaw Lasocki POLAND

**Working Group on Historical Seismicity**

*Co-Chairs:* Paola Albini ITALY  
 Kenji Satake JAPAN

**Working Group on Reference Events for Improved Locations**

*Chair:* Kostas Lentas UK

**Working Group on IASPEI Seismic Bulletin Format**

*Chair:* James Harris UK

**Working Group on Seismic Moment Tensors**

*Chair:* Torsten Dahm GERMANY

**Commission on Earthquake Generation Process - Physics, Modelling and Monitoring for Forecast**

*Chair:* Eleftheria Papadimitriou GREECE

**Commission on Earthquake Source Mechanics**

*Chair:* Satoshi Ide JAPAN

**Joint IAG-IASPEI Sub-Commission on Seismo-Geodesy**

*Chair:* Jean-Mathieu Nocquet FRANCE  
*Vice-Chair & IASPEI* Takuya Nishimura JAPAN  
*Representative:*

**Commission on Education & Outreach**

*Co-Chairs:* Raju Sarkar BHUTAN  
 Aaron Velasco USA

**IASPEI REGIONAL COMMISSIONS**

**European Seismological Commission (ESC)**

[www.esc-web.org](http://www.esc-web.org)

*President:* María José Jiménez SPAIN  
*Vice-President:* Nicholas Voulgaris GREECE  
*Secretary General:* Stefano Parolai ITALY  
*Assistant Secretary:* Päivi Mäntyniemi FINLAND  
*Past President:* Ina Cčić SLOVENIA

**Asian Seismological Commission (ASC)**

[www.asc-iaspei.org](http://www.asc-iaspei.org)

*President:* Paramesh Banerjee SINGAPORE  
*First Vice-President:* Ruben Tatevossian RUSSIA  
*Second Vice-President:* Toshiaki Yokoi JAPAN  
*Secretary General:* Li Li CHINA  
*Past President:* Gary Gibson AUSTRALIA

**African Seismological Commission (AfSC)**

[www.afsc-web.org.za](http://www.afsc-web.org.za)

*President:* Mustapha Meghraoui ALGERIA/FRANCE  
*First Vice-President:* Paulina Amponsah GHANA  
*Second Vice-President:* Georges Mavonga Tuluka DR CONGO  
*Secretary General:* Michelle Grobbelaar SOUTH AFRICA  
*Past President:* Atalay Ayele ETHIOPIA

**Latin American and Caribbean Seismological Commission (LACSC)**

<i>President:</i>	Mario Ruiz	ECUADOR
<i>Vice-President:</i>	Marino Protti Quesada	COSTA RICA
<i>Secretary General:</i>	Marcelo Assumpção	BRAZIL
<i>Past President:</i>	Victor Huérfano	PUERTO RICO

**INTER-ASSOCIATION ACTIVITIES**

**IASPEI/IAVCEI International Heat Flow Commission (IHFC)**

<i>Chair:</i>	Massimo Verdoya	ITALY
<i>Vice-Chair:</i>	Sukanta Roy	INDIA
<i>Past Chair:</i>	Shaopeng Huang	CHINA
<i>Secretary:</i>	Andrea Förster	GERMANY
<i>Vice-Secretary:</i>	Robert N. Harris	USA

**IASPEI/IAVCEI Commission on Physics & Chemistry of Earth Materials**

<i>Chair &amp; IASPEI Representative:</i>	Jiuhua Chen	USA
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**IASPEI/IAVCEI Commission on Volcano Seismology**

<i>IASPEI Representative:</i>	Jürgen Neuberg	UK
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**IAGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes & Volcanoes (EMSEV)**

[www.emsev-iugg.org/emsev](http://www.emsev-iugg.org/emsev)

<i>Chair:</i>	Toshiyasu Nagao	JAPAN
<i>Vice-Chair:</i>	Valerio Tramutoli	ITALY
<i>IASPEI Liaison:</i>	Qinghua Huang	CHINA

**IAGA/IAPSO/IASPEI International Ocean Network (ION)**

<http://msg.whoi.edu/ION/index.html>

<i>Chair:</i>	Mairi M.R. Best	CANADA
<i>IASPEI Liaison:</i>	Johannes Schweitzer	NORWAY

**IAPSO/IASPEI/IAVCEI Joint Tsunami Commission**

<http://research.jisao.washington.edu/tsunamicommission>

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	Alexander Rabinovich	RUSSIA
<i>Secretary:</i>	Mohammad Heidarzadeh	IRAN
<i>IASPEI Liaison:</i>	Kenji Satake	JAPAN

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**International Federation of Digital Seismograph Networks (FDSN)**

[www.fdsn.org](http://www.fdsn.org)

<i>Chair:</i>	Sergio Barrientos	CHILE
<i>Secretary General</i>	Michelle Grobbelaar	SOUTH AFRICA

**IASPEI REPRESENTATIVES TO IUGG AND OTHER GROUPS**

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<i>Representative:</i>	Malcolm Sambridge	AUSTRALIA
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**IUGG Commission on Geophysical Risk and Sustainability**

<i>Representative:</i>	Mohsen Ghafory-Ashtiany	IRAN
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**IUGG Commission on Study of the Earth's Deep Interior (SEDI)**

<i>Representative:</i>	Nicholas Schmerr	USA
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**IUGG Commission on Climatic and Environmental Changes**

<i>Representative:</i>	Domenico Giardini	SWITZERLAND
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**IUGG Commission on Planetary Science**

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**IUGG Commission on Data and Information**

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**IUGG Visioning Committee**

*Representative:* Domenico Giardini SWITZERLAND

**IUGG/IUGS International Lithosphere Program (ILP)**

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**IAU/IUGG Working Group on Non-Rigid Earth Nutations**

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**ISC Executive Committee**

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**SCAR (Solid Earth Geophysical Working Group)**

*Representative:* Masaki Kanao JAPAN

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 1907-1911 Arthur Schuster (UK)  
 1911-1916 Boris Galitzin (Russia)  
 1916-1922 Georges Lecointe (Belgium)  
 1922-1930 Herbert H. Turner (UK)  
 1930-1936 Emilio Oddone (Italy)  
 1936-1940 Nicholas H. Heck (USA)  
 1940-1951 Robert Stoneley (UK)  
 1951-1954 Beno Gutenberg (USA)  
 1954-1957 Keith E. Bullen (Australia)  
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 1971-1975 Vladimir A. Magnitsky (USSR)  
 1975-1979 Hans Berckhemer (F.R. Germany)  
 1979-1983 Bruce A. Bolt (USA)  
 1983-1987 Ziro Suzuki (Japan)  
 1987-1991 Stephan Müller (Switzerland)  
 1991-1995 Alexei V. Nikolaev (Russia)  
 1995-1999 Claude Froidevaux (France)  
 1999-2003 Brian L.N. Kennett (Australia)  
 2003-2007 E. Robert Engdahl (USA)  
 2007-2011 Zhongliang Wu (China)  
 2011-2015 Domenico Giardini (Switzerland)  
 2015-2019 Thorne Lay (USA)

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 1922-1942 Edmond Rothé (France)  
 1942-1971 Jean P. Rothé (France)  
 1971-1979 Jean-Claude de Bremaecker (USA)  
 1979-1991 Robin D. Adams (UK)  
 1991-2003 E. Robert Engdahl (USA)  
 2003-2015 Peter Suhadolc (Italy)

# International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) – TO BE UPDATED

## Association Internationale de Volcanologie et de Chimie de l'Intérieur de la Terre (AIVCIT)

www.iavceivolcano.org

At the First General Assembly of IUGG (Rome, 2-10 May 1922), the *Section de Vulcanologie* became one of the constituent sections of the Union. This name was changed into *Association Internationale de Vulcanologie* at the Fourth General Assembly (Stockholm 1930). It took its present name at the Moscow General Assembly (1971).

### IAVCEI BUREAU 2015 – 2019

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<i>Editor, Bulletin of Volcanology:</i>	Andrew Harris	FRANCE
<i>Webmaster &amp; Membership Secretary:</i>	Eugenio Nicotra	ITALY

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##### Commission on Volcanic Lakes

<i>Co-Leaders:</i>	Dmitri Rouwet	ITALY
	Bruce Christenson	NEW ZEALAND

##### Commission on Volcano Geology

<i>Co-Leaders:</i>	Joan Marti	SPAIN
	Gianluca Groppelli	ITALY

##### Commission on Geochemistry

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##### IASPEI/IAVCEI Joint Commission on Physics and Chemistry of Earth Materials

<i>Co-Chairs:</i>	Ian Jackson	AUSTRALIA
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##### Commission on Collapse Calderas

<i>Co-Leaders:</i>	Shanaka de Silva	USA
	Darren Gravley	NEW ZEALAND

##### Commission on Explosive Volcanism

<i>Co-Leaders:</i>	Daniele Andronico	ITALY
	Mattia de' Michieli Vitturi	ITALY

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<i>Co-Leaders:</i>	Ingrid Ukstins Peate	USA
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**Commission on Monogenetic Volcanism**

<i>Co-Leaders:</i>	Ben van Wyk de Vries	FRANCE
	Marie-Noelle Guilbaud	MEXICO
	Jiaqi Liu	CHINA

**Commission on Submarine Volcanism**

<i>Co-Leaders:</i>	Rebecca Carey	AUSTRALIA
	Michael Perfit	USA
	Steffen Kutterolf	GERMANY

**Commission on Volcanogenic Sediments**

<i>Leader:</i>	Eric Breard	USA
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**Commission on Volcano Geoheritage and Protected Volcanic Landscapes**

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	Joan Marti	SPAIN
	Karoly Nemeth	NEW ZEALAND

**MITIGATION OF VOLCANIC DISASTERS**

**Commission on Volcanic Hazards and Risk**

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	Jo Gottsmann	UK

**Commission on Statistics in Volcanology**

<i>Co-Leaders:</i>	Patrick Whelley	USA
	Christina Magill	AUSTRALIA

**Commission on Tephra Hazard Modelling**

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	Sara Barsotti	ICELAND
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**Commission on Cities and Volcanoes**

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	Nico Fournier	NEW ZEALAND

**The International Volcanic Health Hazard Network (IVHHN)**

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**Commission on Remote Sensing**

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**Commission on Volcano Geodesy**

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<i>Co-Leaders:</i>	Alessandro Bonforte	ITALY
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www.emsev-iugg.org/emsev

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<i>Secretary:</i>	Toshiyasu Nagao	JAPAN
<i>IAVCEI Liaison:</i>	Takeshi Hashimoto	JAPAN

**Working Group on Volcano Acoustics**

<i>Leader:</i>	David Fee	USA
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**IAVCEI/IAACS Commission on Volcano-Ice Interaction**

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	Hugo Delgado Granados	MEXICO
	Thor Thordarson	ICELAND

**IASPEI/IAVCEI International Heat Flow Commission**

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<i>IAVCEI Representative:</i>	Yuichi Nishimura	JAPAN

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1927-1933	Alessandro Malladra (Italy)
1933-1936	Constantine A. Ktenas (Greece)
1936-1948	Auguste Michel-Lévy (France)
1948-1954	Berend G. Escher (Netherlands)
1954-1963	Alfred Rittmann (Switzerland/Italy)
1963-1967	Hisashi Kuno (Japan)
1967-1971	Gordon A. MacDonald (USA)
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1995-1999	Grant Heiken (USA)
1999-2003	Steve J. Sparks (UK)
2003-2007	Oded Navon (Israel)
2007-2011	Setsuya Nakada (Japan)
2011-2015	Ray Cas (Australia)

**PAST IAVCEI SECRETARIES GENERAL**

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1960-1967	Francesco Penta (Italy)
1967-1975	Pierre Evrard (Belgium)
1975-1983	Peter E. Baker (UK)
1983-1991	Hans-Ulrich Schmincke (F.R. Germany)
1991-1999	R.Wally Johnson (Australia)
1999-2007	Steve R. McNutt (USA)
2007-2015	Joan Marti (Spain)

## NATIONAL COMMITTEES, ADHERING ORGANIZATIONS, NATIONAL CORRESPONDENTS OF THE ASSOCIATIONS

### ANNUAIRE 2020 YEARBOOK

The composition of the National Committees and, in consequence, the names of the officially accredited national representatives to the Union and its eight Associations are in conformity with what was communicated to the IUGG Secretariat in 2019.

La composition des Comités Nationaux et par voie de conséquence les noms des représentants nationaux officiellement accrédités auprès de l'Union et de ses huit Associations sont conformes à ce qui a été communiqué au Secrétariat de l'UGGI en 2019.

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Sheshi Fan S. Noli  
Tirane

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<b>IASPEI:</b>	E. DUSHI	<b>IAVCEI:</b>			

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#### ADHERING ORGANIZATION

Centre de Recherche en Astronomie, Astrophysique et Géophysique (CRAAG)  
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Bouzareah, Algiers

**Contact:** A.K. YELLES-CHAOUCHE

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Instituto Geográfico Nacional  
Comité Nacional de la Unión Geodésica y Geofísica Internacional  
Cabildo 381  
1426 Buenos Aires  
**Web:** [www.ign.gob.ar](http://www.ign.gob.ar)

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Davidashen 4 massiv  
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<b>IASPEI:</b>	A. ARAKELYAN	<b>IAVCEI:</b>	S. NAZARETYAN		

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Australian Academy of Science  
Ian Potter House - Gordon Street  
GPO Box 783  
Canberra, ACT, 2601

**Contact:** A. WRIGHT  
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Austrian Geodetic Commission  
Bundesministerium für Digitales und Wirtschaftsstandort  
Abteilung I/11  
Stubenring 1  
1010 Vienna

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Istiglaliyyat Str., 10  
Baku

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**IASPEI:** G. YETIRMISHLI

**IAVCEI:** A. ISMAYIL-ZADE

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### ADHERING ORGANIZATION

The Royal Academies of Science and the Arts of Belgium (RASAB)  
Palais des Académies-Paleis der Academiën  
Hertogsstraat 1 Rue Ducale  
1000 Brussels

**Contact:** L. HANSEN

**Web:** <http://bncgg.oma.be>

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**IASPEI:** T. CAMELBEECK

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Diretoria de Geociências  
Instituto Brasileiro de Geografia e Estatística  
Avenida Brasil 15671, Bloco III-B  
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Rio de Janeiro, RJ, 21241-051  
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National Research Council of Canada  
International Affiliations Program  
International Relations Office, Bldg. M-50  
1200 Montreal Road  
Ottawa, ON K1A 0R6

**Contact:** P. GOEL

**Web:** [http://cgu-ugc.ca/cnc\\_iugg/](http://cgu-ugc.ca/cnc_iugg/)

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P. GALBRAITH

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### ADHERING ORGANIZATION

Instituto Geografico Militar  
Avenida Santa Isabel 1651  
Santiago

**Contacts:** J. NEIRA Gútierrez, S. E. HUNT

**Web:** [www.igm.cl](http://www.igm.cl)

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**IAHS:**  
**IASPEI:** D. COMTE Selman

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**IAVCEI:** J. A. NARANJO Soza

**IAGA:**  
**IAPSO:** P. CARRASCO Hellwig

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China Association for Science and Technology (CAST)  
 Institute of Atmospheric Physics (IAP)  
 Chinese Academy of Sciences (CAS)  
 Bldg. 40 Huayanli, Beichenxilu  
 Beijing, 100029

**Contact:** J. P. LI

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<b>IASPEI:</b>	Z. F. DING	<b>IAVCEI:</b>	Y. G. XU		

**CHINA - CHINE****The Academy of Sciences Located in TAIPEI****ADHERING ORGANIZATION**

Academia Sinica  
 128, Academy Road, Sec. 2  
 Taipei, Taiwan

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<b>IAHS:</b>	F. J. CHANG	<b>IAMAS:</b>	P. K. WANG	<b>IAPSO:</b>	C. T. LIU
<b>IASPEI:</b>	K. F. MA	<b>IAVCEI:</b>	S. R. SONG		

**COLOMBIA - COLUMBIE****ADHERING ORGANIZATION**

Instituto Geográfico Agustín Codazzi  
 Oficina Asesora de Planeación - Cooperación Internacional  
 Carrera 30 No. 48-51  
 Bogotá, D.C.

**Contact:** D. OVIEDO

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<b>IACS:</b>		<b>IAG:</b>	W. MARTÍNEZ-DIAZ	<b>IAGA:</b>	A. CANEVA
<b>IAHS:</b>	H. GONZALO-RIVERA	<b>IAMAS:</b>	G. MONTOYA-GAVIRIA	<b>IAPSO:</b>	J. M. SOLTAU
<b>IASPEI:</b>	C.A. VARGAS JIMENEZ	<b>IAVCEI:</b>	M. L. CALVACHE		

## D.R. CONGO - R.D. CONGO

### ADHERING ORGANIZATION

Centre de Recherche en Geophysique (CRG)  
B.P. 10336  
Kinshasa I

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**Secretary General:** K. TONDOZI

**Vice-President:** J.M. WAKU

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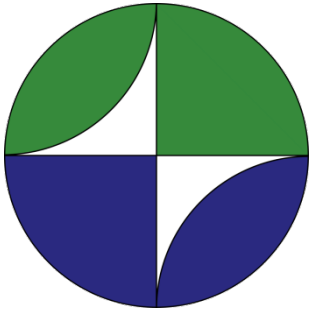
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## LIST OF ACRONYMS

AGU	American Geophysical Union
BGI	International Gravimetric Bureau
BIPM	Bureau International des Poids et Mesures
CCEC	Commission on Climatic and Environmental Change
CMG	Commission on Mathematical Geophysics
CODATA	Committee on Data for Science and Technology
COSPAR	Committee on Space Research
EMSEV	IAGA/IASPEI/IAVCEI Inter-Association Working Group on Electromagnetic Studies of Earthquakes and Volcanoes
FAGS	Federation of Astronomical and Geophysical Data Analysis Services
GGOS	Global Geodetic Observing System
GOOS	Global Ocean Observing System
GRC	Commission on Geophysical Risk and Sustainability
IACS	International Association of Cryospheric Sciences
IAG	International Association of Geodesy
IAGA	International Association of Geomagnetism and Agronomy
IAHS	International Association of Hydrological Sciences
IAMAS	International Association of Meteorology and Atmospheric Sciences
IAPSO	International Association for the Physical Sciences of the Ocean
IASPEI	International Association of Seismology and Physics of the Earth's Interior
IAU	International Astronomical Union
IAVCEI	International Association of Volcanology and Chemistry of the Earth's Interior
ICAO	International Civil Aviation Organization
ICET	International Council of Earth Tides
ICSU	International Council for Science
IGES	International Geoid Service
IHP	International Hydrological Programme
ILP	International Lithosphere Program
IOC	International Oceanographic Commission
IO3C	International Ozone Commission
ION	International Ocean Network
IPGH	Instituto Panamericano de Geografia Historia (also PAIGH)
ISC	International Science Council
ISGI	International Service of Geomagnetism Indices
IUGG	International Union of Geodesy and Geophysics
IUGS	International Union of Geological Sciences
PAIGH	PanAmerican Institute of Geography and History
SCAR	Scientific Committee on Antarctic Research
SCL	Scientific Committee on the Lithosphere
SCOR	Scientific Committee on Ocean Research
SCOSTEP	Scientific Committee on Solar-Terrestrial Physics
SEDI	Study of the Deep Interior of the Earth
UCDI	Union Commission on Data and Information
UCPS	Union Commission on Planetary Sciences
UNESCO	United Nations Educational, Scientific and Cultural Organization
URSI	Union Radio Scientifique Internationale
WCRP	World Climate Research Programme
WDC	World Data Center
WDS	ICSU World Data System
WMO	World Meteorological Organization





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