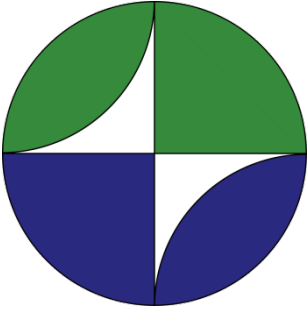


INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS
UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE

Yearbook 2023



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 2022, 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 2022, 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 5th 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), l'Année Héliophysique Internationale (2007-2008) et l'Année internationale des sciences fondamentales pour le développement (2022).

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

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), the International Heliophysical Year (2007-2008), and the International Year of Basic Sciences for Sustainable Development (2022).

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),

Astronomie Internationale (UAI), l'Association Cartographique Internationale (ACI), l'Union Géographique 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.

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 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.

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.

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:

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 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.

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.

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:

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 (Tableau 5). 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 (Table 5). 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 (ILP), 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 - Tableau 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 2023 la valeur d'une unité de cotisation est de USD 2375. Le Comité des finances utilise un algorithme pour déterminer le montant de l'unité. Le Comité des finances examine également la catégorie

Inter-Unions Commission

The International Lithosphere Program (ILP), 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 - 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 2023 is USD 2,375. The Finance Committee uses an algorithm to determine the price of a Unit. The Finance Committee also reviews the

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 ⁽¹⁾	UNITS ⁽²⁾
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	2	2
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, DPR</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 ⁽¹⁾	UNITS ⁽²⁾
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 ^(****)	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	91	240	331
IV. Stockholm	1930			
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 G. Sideris (CANADA)
- the Presidents of the International Associations:

<i>IACS:</i>	Liss M. Andreassen	NORWAY
<i>IAG:</i>	Zuheir Altamimi	FRANCE
<i>IAGA:</i>	Mioara Manda	FRANCE
<i>IAHS:</i>	Berit Arheimer	SWEDEN
<i>IAMAS:</i>	Joyce E. 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
<i>Webmaster:</i>	Jan Schubert	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):

<i>International Hydrological Programme (IHP):</i>	Christophe Cudennec Charles Fierz	FRANCE SWITZERLAND
<i>Intergovernmental Oceanographic Commission (IOC):</i>	Denise Smythe-Wright Satheesh Sheno	UK INDIA
<i>Section on Earth Sciences and Geo-Hazards Risk Reduction:</i>	Alik Ismail-Zadeh Harsh Gupta	GERMANY INDIA
<i>World Meteorological Organization (WMO):</i>	Rogert Pulwarty Christophe Cudennec Charles Fierz Arnau Folch Jens Wickert Hua Zhang	USA FRANCE SWITZERLAND SPAIN GERMANY CHINA
<i>Intergovernmental Panel on Climate Change (IPCC):</i>	Franz Kuglitsch	GERMANY
<i>International Civil Aviation Organization (ICAO):</i>	David Schneider Larry Mastin	USA USA
<i>Committee of Experts on Global Geospatial Information Management (UN-GGIM):</i>	Harald Schuh	GERMANY

IUGG Representatives on ISC Committees

<i>Committee on Data for Science and Technology (CODATA):</i>	Anatoly Solovye	RUSSIA
<i>Committee on Space Research (COSPAR):</i>	Andrew W. Yau Christopher Kotsakis	CANADA GREECE
<i>Scientific Committee on Antarctic Research (SCAR):</i>	Ian Allison John Turner	AUSTRALIA UK
<i>Scientific Committee on Oceanic Research (SCOR):</i>	Trevor McDougall Joyce Penner	AUSTRALIA USA
<i>Scientific Committee on Solar-Terrestrial Physics (SCOSTEP):</i>	Renata Lukianova Peter Pilewski	RUSSIA USA
<i>World Data System (WDS):</i>	Toshihiko Iyemori Aude Chambodut Kirsten Elger	JAPAN FRANCE GERMANY

IUGG Representatives to other organizations

<i>Consultative Committee for Time and Frequency (CCTF):</i>	Claude Boucher Felix Perosanz	FRANCE FRANCE
<i>Group on Earth Observations (GEO):</i>	Michael Sideris Chris Rizos Kathryn Whaler	CANADA AUSTRALIA UK
<i>Pan-American Institute of Geography and History (PAIGH):</i>	Laura Sanchez	GERMANY/COLOMBIA
<i>World Climate Research Programme (WCRP):</i>	Lisa Alexander	AUSTRALIA

Accredited Delegates to the Council of IUGG

IUGG Council 2023

MEMBER COUNTRY	Name SURNAME
ALGERIA	Abdelkarim YELLES-CHAOUCHE
ARGENTINA	Sergio CIMBARO Corina RISSO (Alternate)
AUSTRALIA	Matt KING
AUSTRIA	Wolfgang LENHARDT
AZERBAIJAN	Ibrahim GULIYEV Gulam BABAYEV (Alternate)
BELGIUM	Philippe HUYBRECHTS
BULGARIA	Ivan GEORGIEV
CANADA	Fiona DARBYSHIRE
CHILE	Lautaro RIVAS Reveco
CHINA	Yamin DANG
CHINA-TAIPEI	Bor-Shouh HUANG
COLOMBIA	Gustavo Adolfo MARULANDA MORALES
COSTA RICA	Marino PROTTI
CROATIA	Mirko ORLIC
CZECH REPUBLIC	Pavel NOVAK
DENMARK	Søren GREGERSEN
EGYPT	Gad Mohamed EL-QADY
ESTONIA	Rein RÕÕM
FINLAND	Jyri NÄRÄNEN
FRANCE	Pierre BRIOLE
GERMANY	Jürgen MÜLLER
GREECE	Christos ZEREFOS
HUNGARY	József ÁDÁM
ICELAND	Arni SNORRASON
INDIA	Archana BHATTACHARYYA
INDONESIA	Mohamad Arief SYAFII
IRELAND	Koen VERBRUGGEN
ISRAEL	Colin PRICE
ITALY	Fausto GUZZETTI Claudia PASQUERO (Alternate)

MEMBER COUNTRY	Name SURNAME
JAPAN	Kumiko GOTO-AZUMA
JORDAN	Awni Moh'd KASAWNEH
KOREA, Rep.	Sang-Mook LEE
LUXEMBOURG	Eric BUTTIINI
MEXICO	Miguel Ángel SANTOYO
MOZAMBIQUE	Viriato SAMBOCO Manuel Farnela KAMPINE (Alternate)
NETHERLANDS	Ramon HANSEN
NEW ZEALAND	Matt AMOS
NIGERIA	Dagogo M.J. FUBARA
NORWAY	Tormod KVAERNA
PAKISTAN	Munawar Ahmad SOLEHRIA
POLAND	Jan KRYNSKI
PORTUGAL	Conceição SANTOS
ROMANIA	Constantin S. SAVA
RUSSIA	Alexei D. GVISHIANI
SAUDI ARABIA	Tariq ALKHALIFAH
SLOVAK REPUBLIC	Jozef KRISTEK
SLOVENIA	Polona VRECA
SOUTH AFRICA	Isabelle ANSORGE
SPAIN	Lorenzo GARCÍA ASENSIO
SWEDEN	Per HOLMLUND
SWITZERLAND	Jan SEIBERT
THAILAND	Krit RAMMON Chaiwat PROMTHONG (Alternate)
TURKEY	Hurşit AĞIRCAN İbrahim NALCI (Alternate)
UNITED KINGDOM	Kate HEAL
USA	Aaron VELASCO
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 le 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)
2015-2019	Kenji Satake (Japan) 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):

<https://iugg.org/associations-commissions/commissions/cceg/>

<i>Chair:</i>	Jianping Li	CHINA
<i>Vice-Chair:</i>	Keith Alverson	CANADA
<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):

<https://iugg.org/associations-commissions/commissions/cmg/>

<i>Chair:</i>	Alik Ismail-Zadeh	GERMANY	
<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	
	Enamundram Chandrasekhar	INDIA	
	William Dewar	USA	
	Alexander Fournier	FRANCE	
	Salvatore Grimaldi	ITALY	
	Shin-Chan Han	AUSTRALIA	
	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):

<https://iugg.org/associations-commissions/commissions/grc/>

<i>Chair:</i>	John LaBrecque	USA
<i>Vice-Chairs:</i>	Vyacheslav Gusiakov	RUSSIA
	Chun-Chieh Wu	CHINA-TAIPEI
<i>Secretary and Treasurer:</i>	Yekaterina (Katia) Kontar	USA
<i>Executive Committee Members:</i>	Georgios Balasis	GREECE
	Mohsen Ghafory-Ashtiany	IRAN
	Kosuke Heki	JAPAN
	Michael Krautblatter	GERMANY
	Roberto Sulpizio	ITALY
	Christa von Hillebrandt-Andrade	USA
	<i>Past Chair and Advisory Board Member:</i>	Joan Marti

Union Commission on the Study of the Earth's Deep Interior (SEDI):

www.sedigroup.org

<i>Chair:</i>	Christine Thomas	GERMANY
<i>Vice-Chair:</i>	Mathieu Dumberry	CANADA
<i>Secretary:</i>	Michael Bergman	USA
<i>Executive Committee Members at large:</i>	Jonathan Aurnou (Past Chair)	USA
	James Badro	FRANCE
	Philippe Cardin	FRANCE
	Ulrich R. Christensen	GERMANY
	Cathy Constable	USA
	Chris Davies	UK
	Renaud Deguen	FRANCE
	Arwen Deuss	NETHERLAND
	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):

<https://iugg.org/associations-commissions/commissions/ucdi/>

<i>Chair:</i>	Satheesh Sheno	INDIA
<i>Vice-Chair:</i>	Anatoly Soloviev	RUSSIA
<i>Executive Committee Members:</i>	Michelle Guy	USA
	Maria Virgínia Mackern	ARGENTINA
	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
<i>Secretary/Treasurer:</i>	Paul Hartogh	GERMANY
	Scot Rafkin	USA
<i>Executive Committee Members:</i>	Christine Schott Hvidberg	DENMARK
	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)

<https://ilp.nju.edu.cn>

<i>President:</i>	Hans Thybo	TURKEY
<i>Secretary General:</i>	Mian Liu	USA
<i>Executive Secretary</i>	Qin Wang	CHINA
<i>Bureau Members (Executive):</i>	IUGG: Alexander Rudloff	GERMANY
	IUGS: John Ludden	FRANCE
	Chair of National Representatives:	
	Alessandro Tibaldi	ITALY
	Past President: Sierd Cloetingh	NETHERLANDS
<i>Advisory Board:</i>	Özlem Adiyaman Lopes	UNESCO
	Kristine Asch	GERMANY
	Atalay Ayele	ETHIOPIA
	Shuwen Dong	CHINA
	Cynthia Ebinger	USA
	Dietmar Mueller	AUSTRALIA
	Victor Ramos	ARGENTINA
<i>Lifetime Members:</i>	Harsh Gupta	INDIA
	Mary von Knorring	SWEDEN
<i>ILP-Fellow:</i>	Jörg Negendank	GERMANY
<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	GERMANY
<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

Nominating Committee for the XXVIII General Assembly

<i>Chair:</i>	Harsh Gupta	INDIA
<i>Members:</i>	Anny Cazenave	FRANCE
	Hugo Delgado Granados	MEXICO
	Alberto Montanari	ITALY

Resolution Committee for the XXVIII General Assembly

<i>Chair:</i>	Michael G. Sideris	CANADA
<i>Members:</i>	Atalay Ayele	ETHIOPIA
	Athena Coustenis	FRANCE
	Masahito Nosé	JAPAN
	Denise Smythe-Wright	UK

Site Comparison Committee for the XXIX General Assembly

<i>Chair:</i>	Fiona Darbyshire	CANADA
<i>Members:</i>	Isabelle Ansgorge	SOUTH AFRICA
	Kosuke Heki	JAPAN
	Andrew Mackintosh	AUSTRALIA
	Stefania Sparnocchia	ITALY
	Eduard Petrovsky	CZECH REPUBLIC

IUGG Award Committees**Gold Medal Committee**

<i>Chair:</i>	Tom Beer	AUSTRALIA
<i>Members:</i>	Zuheir Altamimi	FRANCE
	Günter Blöschl	AUSTRIA
	Kumiko Goto-Azuma	JAPAN
	Emma Hill	SINGAPORE
	Catherine Johnson	CANADA
	Jan Marie Lindsay	NEW ZEALAND
	Hans van Haren	NETHERLANDS
	Alexander Rudloff	GERMANY

IUGG Fellow Selection Committee

<i>Chair:</i>	Andrew Yau	CANADA
<i>Members:</i>	Agatha de Boer	SWEDEN
	Georg Kaser	AUSTRIA
	Allison Kealy	AUSTRALIA
	Barbara Romanowicz	USA/FRANCE
	Dan Rosbjerg	DENMARK
	Mary Scholes	SOUTH AFRICA
	Roberto Sulpizio	ITALY
	Steve McNutt	USA

Early Career Scientist Award Committee

<i>Chair:</i>	Katrin Schröder	ITALY
<i>Members:</i>	Keith Alverson	JAPAN
	Marie Dumont	FRANCE
	Julia Eychenne	FRANCE
	Michelle Grobbelaar	SOUTH AFRICA
	Paolo Passalacqua	USA
	Prasanta Patro	INDIA
	Peiliang Xu	JAPAN/CHINA
	Thorsten Wagener	GERMANY

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
IACS/IAMAS/IAPSO Seminar	2021	Online	200
IAG	2021	Beijing, China and Online	1200
IAGA/IASPEI	2021	Online	850

* 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 XXIVth IUGG General Assembly in Perugia, Italy, the IUGG Council decided to launch the International Association of Cryospheric Sciences (IACS) as the 8th 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 2021-2025

<i>President:</i>	Liss M. Andreassen	NORWAY
<i>Immediate Past President:</i>	Regine Hock	NORWAY / USA
<i>Secretary General:</i>	Richard Essery	UK
<i>Vice-Presidents:</i>	Minghu Ding	CHINA
	Stanislav Kutuzov	RUSSIA
	Andrew Mackintosh	AUSTRALIA

IACS DIVISIONS

Division I – Snow and Avalanches:

<i>Head:</i>	Charles Fierz	SWITZERLAND
<i>Deputy Head:</i>	Marie Dumont	FRANCE

Division II – Glaciers:

<i>Head:</i>	Gwenn Flowers	CANADA
<i>Deputy Head:</i>	Lauren Vargo	NEW ZEALAND

Division III – Ice Sheets:

<i>Head:</i>	Sophie Nowicki	USA
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Division IV – Sea Ice, Lake and River Ice:

<i>Head:</i>	Takenobu Toyota	JAPAN
<i>Deputy Head:</i>	Alex Fraser	AUSTRALIA

Division V – Cryosphere, Atmosphere and Climate:

<i>Head:</i>	Anais Orsi	FRANCE
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Division VI – Planetary and other Ices of the Solar System:

<i>Head:</i>	Christine Schøtt Hvidberg	DENMARK
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IACS SERVICES

World Glacier Monitoring Service (WGMS):

<i>Director:</i>	Michael Zemp	SWITZERLAND
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PAST IACS PRESIDENTS

2007-2009	Georg Kaser (Austria)
2009-2013	Ian Allison (Australia)
2013-2017	Charles Fierz (Switzerland)
2017-2021	Regine Hock (Norway/USA)

PAST IACS SECRETARIES GENERAL

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

International Association of Geodesy (IAG) 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 2019-2023

The IAG Executive Committee consists of the Bureau, the Immediate Past President and Immediate Past Secretary General, 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>	Zuheir Altamimi	FRANCE
<i>Vice-President:</i>	Richard Gross	USA
<i>Secretary General:</i>	Markku Poutanen	FINLAND

Immediate Past President:

<i>President 2015-2019:</i>	Harald Schuh	GERMANY
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Immediate Past Secretary General:

<i>Secr. General 2007-2019:</i>	Hermann Drewes	GERMANY
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Commission Presidents:

<i>Commission 1:</i>	Christopher Kotsakis	GREECE
<i>Commission 2:</i>	Adrian Jäggi	SWITZERLAND
<i>Commission 3:</i>	Janusz Bogusz	POLAND
<i>Commission 4:</i>	Allison Kealy	AUSTRALIA

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):

Basara Miyahara	JAPAN
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President of the Communication and Outreach Branch:

Szabolcs Rózsa	HUNGARY
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Representatives of the IAG Services:

Johannes Böhm	AUSTRIA
Tom Herring	USA
Toshimichi Otsubo	JAPAN

IAG Members at Large:

Sonia Maria Alves Costa	BRAZIL
Yamin Dang	CHINA

Non-voting Members:

<i>IAG Inter-Commission Committee for Climate Research (ICCC):</i>	Annette Eicker	GERMANY
<i>IAG Inter-Commission Committee for Marine Geodesy (ICCM):</i>	Valérie Ballu	FRANCE
<i>IAG Project Novel Sensors and Quantum Technology for Geodesy:</i>	Jürgen Müller	GERMANY

<i>IAG Past Presidents:</i>	Ivan I. Mueller	USA
	Wolfgang Torge	GERMANY
	Fernando Sansó	ITALY
	Gerhard Beutler	SWITZERLAND
	Michael Sideris	CANADA
	Chris Rizos	AUSTRALIA
<i>Past Secretaries General:</i>	Claude Boucher	FRANCE

IAG COMMISSIONS, INTER-COMMISSION COMMITTEES and PROJECTS

Commission 1: Reference Frames

<i>President:</i>	Christopher Kotsakis	GREECE
<i>Vice-President</i>	Jean-Paul Boy	FRANCE

Commission 2: Gravity Field

<i>President:</i>	Adrian Jäggi	SWITZERLAND
<i>Vice-President</i>	Mirko Reguzzoni	ITALY

Commission 3: Earth Rotation and Geodynamics

<i>President:</i>	Janusz Bogusz	POLAND
<i>Vice-President:</i>	Cheng-Li Huang	CHINA

Commission 4: Positioning and Applications

<i>President:</i>	Allison Kealy	AUSTRALIA
<i>Vice-President:</i>	Vassilis Gikas	GREECE

IAG Inter-Commission Committee on Theory (ICCT)

<i>President:</i>	Pavel Novák	CZECH REPUBLIC
<i>Vice-President:</i>	Mattia Crespi	ITALY

IAG Inter-Commission Committee for Climate Research (ICCC)

<i>President:</i>	Annette Eicker	GERMANY
<i>Vice-President:</i>	Carmen Böning	USA

IAG Inter-Commission Committee on Marine Geodesy (ICCM)

<i>President:</i>	Valérie Ballu	FRANCE
<i>Vice-President:</i>	Heidrun Kopp	GERMANY

IAG Project Novel Sensors and Quantum Technology for Geodesy (QuGe)

<i>President:</i>	Jürgen Müller	GERMANY
<i>Vice-President:</i>	Marcelo Santos	CANADA

IAG SERVICES

Bureau Gravimétrique International (BGI):

<i>Director:</i>	Sylvain Bonvalot	FRANCE
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International Geodynamics and Earth Tide Service (IGETS)

<i>Chair:</i>	Hartmut Wziontek	GERMANY
<i>Director Central Bureau:</i>	Jean-Paul Boy	FRANCE

International Centre for Global Earth Models (ICGEM):

<i>Director:</i>	Elmas Sinem Ince	GERMANY
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International Digital Elevation Model Service (IDEMS):

<i>Director:</i>	Kevin M. Kelly	USA
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International DORIS Service (IDS):

<i>Chair Governing Board:</i>	Frank Lemoine	USA
<i>Director Central Bureau:</i>	Laurent Soudarin	FRANCE

International Earth Rotation and Reference Systems Service (IERS):

<i>Chair of Directing Board:</i>	Brian Luzum	USA
<i>Director of Central Bureau:</i>	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: Felix Perosanz FRANCE
Director of Central Bureau: Allison Craddock USA

International Laser Ranging Service (ILRS):

Chair of Governing Board: Toshimichi Otsubo JAPAN
Director of Central Bureau: Michael Pearlman USA

International Service for Geodesy and Astrometry (IVS):

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

Permanent Service for Mean Sea Level (PSMSL):

Head: Elizabeth Bradshaw UK

IAG GLOBAL GEODETIC OBSERVING SYSTEM (GGOS)

Chair: Basara Miyahara JAPAN
Vice-Chair: Laura Sanchez GERMANY

IAG OFFICE

Finnish Geospatial Research Institute (FGI)

Secretary General: Markku Poutanen FINLAND
Assistant Treasurer: Päivi Koponen FINLAND

IAG COMMUNICATION AND OUTREACH BRANCH

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

President: 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)

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)
 2007-2019 Hermann Drewes (Germany)

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)
2015-2019	Harald Schuh (Germany)

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

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	CHINA-TAIPEI, 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-Chairs:</i>	Michael Pezzopane	ITALY
	Venkatesh Kavutarapu	INDIA

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

Joint Division II / Division III Working Group Geospace Data Assimilation (GeoDAWG)

Chair: Tomoko Matsuo USA
Co-Chair: Claudia Borries GERMANY

IAGA Division III – Magnetospheric Phenomena

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

Working Group ULF waves

Chair: Jayashree Bulusu INDIA
Co-Chair: Peter Chi USA

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

Working Group Social Media

Chair: Tereza Kameniková CZECH REPUBLIC
Co-Chairs: Hannah F. Rogers UNITED KINGDOM
 Anita di Chiara ITALY
 Shivangi Sharan FRANCE

Inter-divisional Commission on Space Weather

Chair: Stefan Lotz
Co-Chair: Laure Lefevre

SOUTH AFRICA
BELGIUM

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) 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, 2021-2025

<i>President:</i>	Berit Arheimer	SWEDEN
<i>Past President:</i>	Günter Blöschl	AUSTRIA
<i>Secretary General:</i>	Christophe Cudennec	FRANCE
<i>Honorary President:</i>	Dan Rosbjerg	DENMARK
<i>Vice-Presidents:</i>	Salvatore Grimaldi	ITALY
	Paola Passalacqua	ITALY/USA
	Zongxue Xu	CHINA
<i>Treasurer:</i>	Kate Heal	UK
<i>HSJ Editor-in-Chief</i>	Attilio Castellarin	ITALY
<i>Executive Secretary:</i>	Claire Lupton	UK

IAHS INTERNATIONAL COMMISSIONS

International Commission on Continental Erosion (ICCE)

<i>President:</i>	Paolo Porto	ITALY
<i>Past-President:</i>	Adrian Collins	UK
<i>Vice-Presidents:</i>	Yuri Jacques A. B. da Silva	BRAZIL
	Xudong Fu	CHINA
	Allen Gellis	USA
<i>Secretary:</i>	Sergey Chalov	RUSSIA
<i>ECC Representative:</i>	Anatoly Tsyplenkov	RUSSIA

International Commission on Coupled Land-Atmosphere Systems (ICCLAS)

<i>President:</i>	Richard Petrone	CANADA
<i>Past-President:</i>	Harald Kunstmann	GERMANY
<i>Vice-Presidents:</i>	Monica Garcia	SPAIN/USA
	Kaniska Mallick	INDIA/LUXEMBOURG
	Fuqiang Tian	CHINA
<i>Secretary:</i>	Chris White	UK
<i>ECC Representative:</i>	P. James Dennedy-Frank	USA

International Commission on Groundwater (ICGW)

<i>President:</i>	Felipe de Barros	BRAZIL/USA
<i>Past-President:</i>	Aldo Fiori	ITALY
<i>Vice-Presidents:</i>	Roseanna Neupauer	USA
	Daniele Pedretti	ITALY/FINLAND
	Alraune Zech	GERMANY
<i>Secretary:</i>	Antonio Zarlenga	ITALY
<i>ECC Representative:</i>	Rahim Barzegar	CANADA/IRAN

International Commission on Remote Sensing (ICRS)

<i>President:</i>	Amir AghaKouchak	IRAN/USA
<i>Past-President:</i>	Yangbo Chen	CHINA
<i>Vice-Presidents:</i>	Yaning Chen	CHINA
	Chris Hopkinson	CANADA
	María José Polo Gómez	SPAIN
<i>Secretary:</i>	Gilles Boulet	FRANCE
<i>ECC Representative:</i>	Pankaj Kumar	INDIA

International Commission on Statistical Hydrology (ICSH)

<i>President:</i>	Elena Volpi	ITALY
<i>Past-President:</i>	Ashish Sharma	AUSTRALIA
<i>Vice-Presidents:</i>	Yuanfang Chen	CHINA

	Svenja Fischer	GERMANY
	Krzysztof Kochanek	POLAND
<i>Secretary:</i>	Ilaria Prosdocimi	ITALY
<i>ECC Representative:</i>	Jew Das	INDIA

International Commission on Snow and Ice Hydrology (ICSIH)

<i>President:</i>	Melody Sandells	UK
<i>Past-President:</i>	Tobias Jonas	SWITZERLAND
<i>Vice-Presidents:</i>	Tim Link	USA
	James McPhee	USA/CHILE
	S. McKenzie Skiles	USA
<i>Secretary:</i>	Vsevolod Moreydo	RUSSIA
<i>ECC Representative:</i>	Anna-Marie Jörss	GERMANY

International Commission on Surface Water (ICSW)

<i>President:</i>	David Hannah	UK
<i>Past-President:</i>	Gil Mahé	FRANCE
<i>Vice-Presidents:</i>	Ernest Amoussou	BÉNIN
	Alain Dezetter	FRANCE
	Guoqing Wang	CHINA
<i>Secretary:</i>	Yonca Cavus	TURKEY
<i>ECC Representative:</i>	Moctar Dembélé	GHANA/BURKINA FASO

International Commission on Tracers (ICT)

<i>President:</i>	Zhonghe Pang	CHINA
<i>Past-President:</i>	Christine Stumpp	GERMANY/AUSTRIA
<i>Vice-Presidents:</i>	Søren Jessen	DENMARK
	Tricia Stadnyk	CANADA
	Maki Tsujimura	JAPAN
<i>Secretary:</i>	Przemyslaw Wachniew	POLAND
<i>ECC Representative:</i>	Ravindra Dwivedi	INDIA/USA

International Commission on Water Quality (ICWQ)

<i>Co-President 2021-23:</i>	Elango Lakshmanan	INDIA
<i>Co-President 2023-25:</i>	Xiaohong Chen	CHINA
<i>Co-President-Elect:</i>	Wouter Buytaert	UK
<i>Vice-Presidents:</i>	Alena Bartosova	CZECH REP./SWEDEN
	Stefan Krause	GERMANY/UK
	Hong-yi Li	CHINA/USA
<i>Secretary:</i>	Geneviève Ali	CANADA
<i>ECC Representative:</i>	Bertil Nlend	CAMEROON

International Commission on Water Resources Systems (ICWRS)

<i>President:</i>	Barry Croke	AUSTRALIA
<i>Past-President:</i>	Andreas Schumann	GERMANY
<i>Vice-Presidents:</i>	Jennifer Adam	USA
	Jean-Marie Kileshye Onema	DR CONGO / ZIMBABWE
	Marloes Mul	NETHERLANDS
<i>Secretary:</i>	Alberto Viglione	ITALY
<i>ECC Representative:</i>	Chris Leong	JAPAN/FIJI

IAHS WORKING GROUPS

“Panta Rhei – Everything Flows” - Change in Hydrology and Society

<i>Chair:</i>	Heidi Kreibich	GERMANY
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MOXXI (Measurements and Observations in the XXIst century)

<i>Chair:</i>	Flavia Tauro	ITALY
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CANDHY (Citizen AND Hydrology)

<i>Chair:</i>	Fernando Nardi	ITALY
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Early Career Scientists

Chair:

Michelle Newcomer

USA

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. Thijsse (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)
2017-2021 Günter Blöschl (Austria)

PAST IAHS SECRETARIES GENERAL

1922-1933 Giovanni Magrini (Italy)
1933-1947 Frédéric Diéner (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) Association Internationale de Météorologie et des Sciences de l'Atmosphère (AIMSA)

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 2019-2023

<i>President:</i>	Joyce E. Penner	USA
<i>Vice-Presidents:</i>	John Burrows	GERMANY
	Mary Scholes	SOUTH AFRICA
<i>Past President:</i>	John Turner	UK
<i>Secretary General:</i>	Steven Ackerman	USA
<i>Members at large:</i>	Lisa Alexander	AUSTRALIA
	Keith Alverson	USA / JAPAN
	Iracema Cavalcanti	BRAZIL
	Mu MU	CHINA
	Michiel R. van den Broeke	NETHERLANDS
<i>Commission presidents (ex officio):</i>	see below	see below

IAMAS COMMISSIONS

Atmospheric Chemistry and Global Pollution (ICACGP)

www.icacgp.org

<i>President:</i>	Melita Keywood	AUSTRALIA
<i>Vice-Presidents:</i>	Mary Barth	USA
	Christian George	FRANCE
	Stuart Piketh	SOUTH AFRICA
<i>Secretary:</i>	Tong Zhu	CHINA

Atmospheric Electricity (ICAE)

<http://www.icae-iamas.org/>

<i>President:</i>	Ziushu Qie	CHINA
<i>Secretary:</i>	Weitao Lyu	CHINA

Climate (ICCL)

www.iccl-iamas.net

<i>President:</i>	Jianping Li	CHINA
<i>Secretary:</i>	Qiuzhen Yin	BELGIUM

Clouds and Precipitation (ICCP)

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

<i>Chair:</i>	Markku Kulmala	FINLAND
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Dynamic Meteorology (ICDM)

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

<i>President:</i>	Thomas Spengler	NORWAY
<i>Secretary:</i>	Craig Bishop	AUSTRALIA

Middle Atmosphere (ICMA)

<https://www.iamas.org/icma/>

<i>President:</i>	Bernd Funke Elisa Manzini	SPAIN
<i>Vice-President:</i>	Natalia Calvo	SPAIN

Ozone (IO3C)

www.io3c.org

<i>President:</i>	Sophie Godin-Beekmann	FRANCE
<i>Vice-President:</i>	Paul A. Newman	USA
<i>Secretary:</i>	Irina Petropavlovskikh	USA

Planetary Atmospheres and their Evolution (ICPAE)

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

<i>President:</i>	Feng Tian	CHINA
<i>Vice-President:</i>	Ann Carine Vandaele	BELGIUM
<i>Secretary:</i>	Christina Plainaki	ITALY

Polar Meteorology (ICPM)

www.icpm-iamas.aq

<i>President:</i>	Matthew Lazzara	USA
<i>Secretary:</i>	Tracy Moffat-Griffin	UK

Radiation (IRC)

<https://www.iamas.org/irc/>

<i>President:</i>	Byung-Ju Sohn	KOREA
<i>Vice-President:</i>	Peter Pilewskie	USA
<i>Secretary:</i>	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 Coustensis (France)
2015-2019	John Turner (UK)

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)
2015-2019	Teruyuki Nakajima (Japan)

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

<https://iapso-ocean.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
	Alejandra Sanchez-Franks	UK
	Joellen Russell	USA
	Christa von Hillebrandt-Andrade	USA
	Peter Zavialov	RUSSIA

IAPSO COMMISSIONS, JOINT COMMITTEES & WORKING GROUPS

Mean Sea Level & Tides

<i>President:</i>	Gary T. Mitchum	USA
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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	USA

SERVICES

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

www.psmsl.org

<i>Head:</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 ^{er} (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)

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)

1970-1975	Henri Lacombe (France)	1995-2007	Fred E. Camfield (USA)
1975-1979	Robert W. Stewart (Canada)	2007-2015	Johan Rodhe (Sweden)
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)		

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 2nd 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
	Daniela 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>Co-Chairs:</i>	Alison Bird	CANADA
	Raju Sarkar	BHUTAN

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
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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
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Working Group on Magnitude Measurements

Chair: Allison Bent CANADA

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: Ryan J. Gallacher UK

Working Group on IASPEI Seismic Bulletin Format

Chair: James Harris UK

Working Group on Automatic and routine Moment tensors: benchmark and verification platform

Chair: Simone Cesca GERMANY

Working Group on Review "classification of seismic events" (jointly with FDSN)

Chair: Dmitry Storchak UK

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
 Xyoli Pérez-Campos MEXICO

IASPEI REGIONAL COMMISSIONS

European Seismological Commission (ESC)

www.esc-web.org

President: Dmitry Storchak UK
Vice-President: Nicholas Voulgaris GREECE
Secretary General: Adrien Oth LUXEMBOURG
Assistant Secretary: Olga-Joan Ktenidou GREECE
Past President: María José Jiménez SPAIN

Asian Seismological Commission (ASC)

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)

<http://www.iaspei.org/commissions/africa-seismological-commission-afsc>

<i>President:</i>	Paulina Amponsah	GHANA
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International Federation of Digital Seismograph Networks (FDSN)

www.fdsn.org

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<i>Secretary General</i>	TBD	

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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

<i>Representative:</i>	Philippe Lognonné	FRANCE
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IUGG Commission on Data and Information

<i>Representative:</i>	Michelle Guy	USA
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IUGG Visioning Committee

<i>Representative:</i>	Domenico Giardini	SWITZERLAND
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IUGG/IUGS International Lithosphere Program (ILP)

<i>Representative</i>	Kevin Furlong	USA
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IAU/IUGG Working Group on Non-Rigid Earth Nutations

<i>Representative:</i>	Bruce A. Buffett	USA
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ISC Executive Committee

<i>Representative:</i>	IASPEI Secretary-General (Johannes Schweitzer)	NORWAY
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SCAR (Solid Earth Geophysical Working Group)

<i>Representative:</i>	Masaki Kanao	JAPAN
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1905-1907	Luigi Palazzo (Italy)
1907-1911	Arthur Schuster (UK)
1911-1916	Boris Galitzin (Russia)
1916-1922	Georges Lecointe (Belgium)
1922-1930	Herbert H. Turner (UK)

PAST IASPEI SECRETARIES GENERAL

1905-1922	Radó de Kovesligethy (Hungary)
1922-1942	Edmond Rothé (France)
1942-1971	Jean P. Rothé (France)
1971-1979	Jean-Claude de Bremaecker (USA)
1979-1991	Robin D. Adams (UK)

1930-1936	Emilio Oddone (Italy)	1991-2003	E. Robert Engdahl (USA)
1936-1940	Nicholas H. Heck (USA)	2003-2015	Peter Suhadolc (Italy)
1940-1951	Robert Stoneley (UK)		
1951-1954	Beno Gutenberg (USA)		
1954-1957	Keith E. Bullen (Australia)		
1957-1960	Harold Jeffreys (UK)		
1960-1963	Perry Byerly (USA)		
1963-1967	John Hodgson (Canada)		
1967-1971	Kiyoo Wadati (Japan)		
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)		

International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) 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 IUGG General Assembly (Stockholm 1930). The present name of IAVCEI was adopted at the Moscow General Assembly in 1971.

IAVCEI BUREAU 2019-2023

<i>President:</i>	Patrick Allard	FRANCE
<i>Vice-Presidents:</i>	Masato Iguchi	JAPAN
	Jan Lindsay	NEW ZEALAND
<i>Secretary General:</i>	Roberto Sulpizio	ITALY
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<i>Editor, Bulletin of Volcanology:</i>	Andrew Harris	FRANCE / UK
<i>Webmaster & Membership Secretary:</i>	Eugenio Nicotra	ITALY

IAVCEI COMMISSIONS

CHEMISTRY OF THE EARTH

Commission on Volcanic Gases

<i>Co-Leaders:</i>	Franco Tassi	ITALY
	Santiago Arellano	SWEDEN
	Silvana Hidalgo	ECUADOR

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

<i>Leaders:</i>	Ben Andrews	USA
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IASPEI/IAVCEI Joint Commission on Physics and Chemistry of Earth Materials

<i>Co-Chairs:</i>	Jiuhua Chen	USA
	Anne Pommier	USA

VOLCANIC PROVINCES AND PROCESSES

Commission on Collapse Calderas

<i>Co-Leaders:</i>	Guido Giordano	ITALY
	Darren Gravley	NEW ZEALAND

Commission on Explosive Volcanism

Co-Leaders: Daniele Andronico ITALY
 Mattia de' Michieli Vitturi ITALY

Commission on Large Igneous Provinces

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Co-Leaders: Simon Jowitt USA
 Ingrid Ukstins Peate USA
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Commission on Monogenetic Volcanism

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 Jiaqi Liu CHINA

Commission on Submarine Volcanism

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Commission on Volcanogenic Sediments

Leader: Eric Breard USA
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Commission on Volcano Geoheritage and Protected Volcanic Landscapes

Co-Leaders: Tom Casadevall USA
 Joan Marti SPAIN
 Karoly Nemeth NEW ZEALAND

MITIGATION OF VOLCANIC DISASTERS

Commission on Volcanic Hazards and Risk

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Co-Leader: Shinji Takarada JAPAN

Commission on Statistics in Volcanology

Co-Leaders: Patrick Whelley USA
 Christina Magill AUSTRALIA

Commission on Tephra Hazard Modelling

Co-Leaders: Marco Pistolesi ITALY
 Sara Barsotti ICELAND
 Alexa Van Eaton USA

Commission on Cities and Volcanoes

Leader: Carolyn Driedger USA
Co-Leaders: Carina Fearnley UK
 Graham Leonard NEW ZEALAND

World Organization of Volcano Observatories (WOVO)

Co-Chairs: Gill Jolly NEW ZEALAND
 Armando Saballos NICARAGUA

The International Volcanic Health Hazard Network (IVHHN)

Leader: Claire Horwell UK
Co-Leaders: Carol Stewart NEW ZEALAND
 David Damby USA

VOLCANO GEOPHYSICS AND REMOTE SENSING

Commission on Remote Sensing

Chair: Fred Prata NORWAY
Secretary: Simon Carn USA

Commission on Volcano Geodesy

Leader: Emily Montgomery-Brown USA
Co-Leaders: Alessandro Bonforte ITALY
Jose Fernandez SPAIN

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1922-1927 Alfred Lacroix (France)
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)
1971-1975 Georgii S. Gorshkov (USSR)
1975-1979 Robert W. Decker (USA)
1979-1983 Sergei A. Fedotov (USSR)
1983-1987 Ian G. Gass (UK)
1987-1991 Shigeo Aramaki (Japan)
1991-1995 Paolo Gasparini (Italy)
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)
2015-2019 Donald B. Dingwell (Germany)

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1936-1960 Francesco Signore (Italy)
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)

Inter-Association Activities Activités Inter-Associations

IACS/IAG Commission on Cryospheric Deformation:

<i>Co-Chairs:</i>	Jeffrey Freymueller (IAG)	USA
	Bert Wouters (IACS)	NETHERLANDS
<i>Vice-Chair:</i>	Natalya Gomez (IACS)	CANADA

IACS/IAPSO Joint Commission on Ice-Ocean Interactions:

<i>Co-Chairs:</i>	Isabel Nias (IACS)	UK
	Felicity McCormack (IAPSO)	AUSTRALIA

IACS/IAVCEI Commission on Ice-Volcano Interactions

<https://sites.google.com/view/volcano-ice/home>

<i>Co-Chairs:</i>	Rosie Cole (IAVCEI)	NEW ZEALAND
	Shaun Eaves (IACS)	NEW ZEALAND
<i>Vice-Chairs:</i>	Chris Conway (IAVCEI)	JAPAN
	Rodrigo Soteres (IACS)	CHILE
<i>Secretary:</i>	Erin Fitch (IAVCEI)	USA

IGA/IASPEI/IAVCEI Working Group on Electromagnetic Studies of Earthquakes & Volcanoes (EMSEV)

www.emsev-iugg.org/emsev

<i>Chair:</i>	Toshiyasu Nagao (IASPEI)	JAPAN
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<i>IAVCEI Liaison:</i>	Takeshi Hashimoto (IAVCEI)	JAPAN

IAPSO/IASPEI/IAVCEI Joint Tsunami Commission

<https://tsunamicommission.ipma.pt/home/>

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	Diana Greenslade (IAPSO)	AUSTRALIA
	Alexander Rabinovich (IASPEI)	RUSSIA / CANADA
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<i>IAPSO Representative:</i>	Efim Pelinovsky (IAPSO)	RUSSIA
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<http://ihfc-iugg.org/>

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<i>Vice-Secretary:</i>	Robert N. Harris (IASPEI)	USA

IASPEI/IAVCEI Commission on Physics & Chemistry of Earth Materials

<i>Co-Leaders:</i>	Ian Jackson (IASPEI)	AUSTRALIA
	Anne Pommier (IASPEI)	USA
	Jiuhua Chen (IASPEI)	USA

IASPEI/IAVCEI Commission on Volcano Seismology and Acoustics

http://volc_seis_commission.leeds.ac.uk

<i>Chair and IASPEI Representative:</i>	Jürgen Neuberg (IASPEI)	UK
<i>Co-Chairs:</i>	Jeffrey B. Johnson (IAVCEI)	USA
	David Fee (IAVCEI)	USA

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ANNUAIRE 2023 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 2022.

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 2022.

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Sheshi Fan S. Noli
Tirane

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IASPEI:	E. DUSHI	IAVCEI:			

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ADHERING ORGANIZATION

Centre de Recherche en Astronomie, Astrophysique et Géophysique (CRAAG)
Route de l'Observatoire B.P. 63
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Contact: A.K. YELLES-CHAOUCHE

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IASPEI:	A.K. YELLES-CHAOUCHE	IAVCEI:	N. ABELLAH		

ARGENTINA - ARGENTINE

ADHERING ORGANIZATION

Instituto Geográfico Nacional
Comité Nacional de la Unión Geodésica y Geofísica Internacional
Cabildo 381
1426 Buenos Aires
Web: www.ign.gob.ar

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ARMENIA - ARMENIE

ADHERING ORGANIZATION

Territorial Survey for Seismic Protection, MES RA
Davidashen 4 massiv
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Web: www.mes.am

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AUSTRALIA - AUSTRALIE

ADHERING ORGANIZATION

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Ian Potter House – 9 Gordon Street
GPO Box 783
Canberra, ACT, 2601

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Österreichische Geodätische Kommission
Austrian Geodetic Commission
Bundesministerium für Digitales und Wirtschaftsstandort
Abteilung I/11
Stubenring 1
1010 Vienna

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Azerbaijan National Academy of Sciences (ANAS)
Istiglaliyyat Str., 30
Baku

Contact: G. BABAYEV

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IASPEI: G. YETIRMISHLI

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BELGIUM - BELGIQUE

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

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BOSNIA & HERZEGOVINA - BOSNIE & HERZEGOVINE**ADHERING ORGANIZATION**

Union of Associations of Geodetic Professionals in Bosnia and Herzegovina
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BRAZIL - BRESIL**ADHERING ORGANIZATION**

Diretoria de Geociências
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Bulgarian Academy of Sciences
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National Research Council of Canada
International Affiliations Program
International Relations Office, International Innovation Office, Bldg. M50
1200 Montreal Road
Ottawa, ON K1A 0R6

Contacts: T. ROMANO, D. SOCHINSKAIA**Web:** http://cgu-ugc.ca/cnc_iugg/**NATIONAL COMMITTEE****President:** J. LOWMAN**Chairperson:** F. DARBYSHIRE**National Correspondents of the Associations**

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R. SCHARIEN
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CHILE - CHILI**ADHERING ORGANIZATION**

Instituto Geografico Militar
Avenida Santa Isabel 1651
Santiago

Contacts: A. ZAPATA Arias, S. E. HUNT Wallis**Web:** www.igm.cl**NATIONAL COMMITTEE****President:** L. RIVAS Reveco**National Correspondents of the Associations**

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IAHS:
IASPEI: D. COMTE Selman

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IAMAS: R. GUTIERREZ Cisterna
R. PADILLA Torres
IAVCEI: J. A. NARANJO Soza

IAGA:
IAPSO: P. CARRASCO Hellwig

CHINA - CHINE**ADHERING ORGANIZATION**

China Association for Science and Technology (CAST)
 Chinese Academy of Surveying and Mapping (CASM)
 28 Lianhuachi West Road
 Beijing, 100036

Contact: Y. M. DANG

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Past President: Y. X. YANG

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Secretary General: Y. M. DANG

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IAHS: Z. Y. LIU
IASPEI: Z. F. DING

IAG: Y. M. DANG
IAMAS: M. MU
IIVCEI: Z. F. GUO

IAGA: J. K. SHI
IAPSO: X. E. CHEN

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

Academia Sinica
 128, Academy Road, Sec. 2
 Taipei

NATIONAL COMMITTEE

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Executive Secretary: K. F. MA

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IAHS: F. J. CHANG
IASPEI: K. F. MA

IAG: M. YANG
IAMAS: P. K. WANG
IIVCEI: S. R. SONG

IAGA: C. H. LIN
IAPSO: C. T. LIU

COLOMBIA - COLUMBIE**ADHERING ORGANIZATION**

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

Contact: X. SIERRA MÉNDEZ

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ADHERING ORGANIZATION

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

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IAMAS: D. KAMUNGA MUSUNGAY

IAVCEI: G. M. TULUKA

IAGA:

F.M. MOSHI

IAPSO:

COSTA RICA

ADHERING ORGANIZATION

Academia Nacional de Ciencias
Apartado postal: 1367-2050
San Pedro

Contact: M. PROTTI

Web: www.anc.cr

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Secretary General: W. FERNANDEZ

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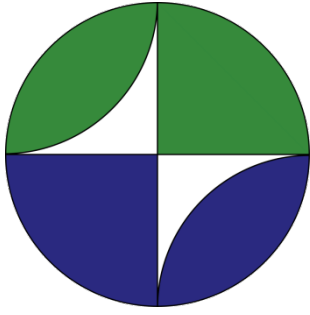
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LIST OF ACRONYMS

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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