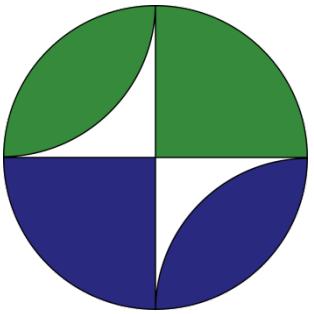


INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS
UNION GEODESIQUE ET GEOPHYSIQUE INTERNATIONALE

Yearbook 2024



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 2024, l'UGGI compte 74 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 2024, IUGG has 74 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),

Astronomique 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-Scientific 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 74 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 adhérant 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 XXIXe et se tiendra à Incheon, Rép. de Corée, en 2027. 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 seront présentés à la page 17.

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 74 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 XXIX (29th) IUGG General Assembly will be held in Incheon, Rep. of Korea, in 2027. 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 are listed on page 17.

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 cinq 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 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 five 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 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 décallage de responsabilité vers l'UGGI et l'IUGS. Depuis cette décision, l'UGGI et l'IUGS ont ratabli 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 2024 la valeur d'une unité de cotisation est de USD 2460. 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 2024 is USD 2,460. 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
CUBA	1960-1996		
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, Rep. of	1960	2	2
KOREA, DPR	1967-2000		
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
PARAGUAY	2023	A	0
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		
TÜRKİYE	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	8

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	986	4212	5198

Current Officers of IUGG

Bureau of the Union

<i>President:</i>	Chris Rizos	AUSTRALIA
<i>President-Elect:</i>	Mioara Mandea	FRANCE
<i>Secretary General:</i>	Alexander Rudloff	GERMANY
<i>Treasurer:</i>	Niels Andersen	DENMARK
<i>Members:</i>	Athena Coustenis	FRANCE
	Andrew Mackintosh	AUSTRALIA
	Virendra Tiwari	INDIA

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, Kathryn Whaler (UK)
- the Presidents of the International Associations:

<i>IACS:</i>	Liss M. Andreassen	NORWAY
<i>IAG:</i>	Richard Gross	USA
<i>IAGA:</i>	Andrew Yau	CANADA
<i>IAHS:</i>	Berit Arheimer	SWEDEN
<i>IAMAS:</i>	Andrea Flossmann	FRANCE
<i>IAPSO:</i>	Hans van Haren	NETHERLANDS
<i>IASPEI:</i>	Michelle Gubbelaar	SOUTH AFRICA
<i>IAVCEI:</i>	Costanza Bonadonna	SWITZERLAND

Finance Committee of the Union

<i>Chair:</i>	Jan Krynski	POLAND
<i>Members:</i>	Archana Bhattacharyya	INDIA
	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

<i>UNESCO International Hydrological Programme (IHP):</i>	Christophe Cudennec Liss Marie Andreassen	FRANCE NORWAY
<i>UNESCO Intergovernmental Oceanographic Commission (IOC):</i>	Denise Smythe-Wright	UK
<i>UNESCO Earth Sciences:</i>	Mari Paz Miralles Patrick Allard	USA FRANCE
<i>World Meteorological Organization (WMO):</i>	Robert Pulwarty Sara Barsotti Christophe Cudennec Minghu Ding Eugene Rozanov Jens Wickert Hua Zhang	USA ICELAND FRANCE CHINA SWITZERLAND GERMANY CHINA
<i>Intergovernmental Panel on Climate Change (IPCC):</i>	Jianping Li Franz Kuglitsch	CHINA GERMANY
<i>International Civil Aviation Organization (ICAO):</i>	David Schneider Samantha Engwell	USA UK
<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) and World Data System (WDS):</i>	Kirsten Elger Masahito Nose	GERMANY JAPAN
<i>Committee on Space Research (COSPAR):</i>	Christopher Kotsakis Simon Wing	GREECE USA
<i>Scientific Committee on Antarctic Research (SCAR):</i>	Thomas Bracegirdle Andrew Mackintosh	UK AUSTRALIA
<i>Scientific Committee on Oceanic Research (SCOR):</i>	Andrea Flossmann Hans van Haren	FRANCE NETHERLANDS
<i>Scientific Committee on Solar-Terrestrial Physics (SCOSTEP):</i>	Peter Pilewski Michael Kosch	USA SOUTH AFRICA

IUGG Representatives to other organizations

<i>Consultative Committee for Time and Frequency (CCTF):</i>	Sebastien Merlet	FRANCE
<i>Group on Earth Observations (GEO):</i>	Alexander Rudloff	GERMANY
<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

MEMBER COUNTRY	Name SURNAME
ALGERIA	Abdelkarim YELLES-CHAOUCHÉ
ARGENTINA	Sergio CIMBARO
AUSTRALIA	Ian JACKSON
AUSTRIA	Wolfgang LENHARDT
AZERBAIJAN	Ibrahim GULIYEV Gulam BABAYEV (Alternate)
BELGIUM	Philippe HUYBRECHTS
BULGARIA	tbd
CANADA	Fiona DARBYSHIRE
CHILE	Carlos PRADO Casanova
CHINA	Yi-Gang XU
CHINA-TAIPEI	Kuo-Fong MA
COLOMBIA	Gustavo Adolfo MARULANDA MORALES
COSTA RICA	Marino PROTTO
CROATIA	Mirko ORLIC
CZECH REPUBLIC	Eduard PETROVSKY
DENMARK	Aksel W. HANSEN
EGYPT	Gad Mohamed EL-QADY
ESTONIA	Piia POST
FINLAND	Jyri NÄRÄNEN
FRANCE	Pierre BRIOLE
GERMANY	Jürgen MÜLLER
GREECE	Christos ZEREFOS
HUNGARY	Szabolcs RÓZSA
ICELAND	Arni SNORRASON
INDIA	tbd
INDONESIA	Mohamad Arief SYAFII
IRELAND	tbd
ISRAEL	Colin PRICE
ITALY	Fausto GUZZETTI

MEMBER COUNTRY	Name SURNAME
JAPAN	Kenji SATAKE
KOREA, Rep. of	Sang-Mook LEE
LUXEMBOURG	Norman TEFERLE
MEXICO	Miguel Ángel SANTOYO
MOZAMBIQUE	Viriato SAMBOCO Manuel Farnela KAMPINE (Alternate)
NETHERLANDS	Ramon HANSSEN
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	Luca CARICCHI
THAILAND	Krit RAMMON Chaiwat PROMTHONG (Alternate)
TÜRKİYE	Osman ALP
UNITED KINGDOM	James HAMMOND
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)
2019-2023	Kathryn Whaler (UK)

PAST IUGG PRESIDENTS-ELECT

2019-2023	Chris Rizos (Australia)
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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 Balmino (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)

PAST IUGG BUREAU MEMBERS cont'd

- | | |
|-----------|-----------------------------------|
| 2011-2015 | Isabelle Ansorge (South Africa) |
| | Pierre Hubert (France) |
| 2015-2019 | Kenji Satake (Japan) |
| | Isabelle Ansorge (South Africa) |
| | Pierre Hubert (France) |
| | Chris Rizos (Australia) |
| 2019-2023 | Stephen McNutt (USA) |
| | Eduard Petrovsky (Czech Republic) |
| | Jun Xia (China) |

Past Officers of IUGG Finance Committee (FC)

PAST FC CHAIRS

1948-1954	John T. Wilson (Canada)
1957-1957	Arthur T. Doodson (UK)
1957-1963	K. Hilding Beij (USA)
1963-1967	M. Doporto (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)
2019-2023	Corina Risso (Argentina)

1967-1971	Stanislaw Krynski (Poland) A. Romana (Spain)
1971-1975	Stanislaw Krynski (Poland) James M. Stagg (UK) E. Walser (Switzerland)
1975-1979	Stanislaw Krynski (Poland) E. Walser (Switzerland) G. Yamamoto (Japan)
1979-1983	Stanislaw Krynski (Poland) G. Yamamoto (Japan) P.K. Das (India)
1983-1987	Josep O. Cardus (Spain) Jacub Rais (Indonesia) József Somogyi (Hungary)
1987-1991	Attia A. Ashour (Egypt) Jacub Rais (Indonesia) József Somogyi (Hungary)
1991-1995	Attia A. Ashour (Egypt) A. Fred Spilhaus (USA)
1995-1999	Mike J. Hamlin (UK) Vinod K. Gaur (India) Erwin Groten (Germany)
1999-2003	Mike J. Hamlin (UK) Vinod K. Gaur (India) Erwin Groten (Germany)
2003-2007	Brian L.N. Kennett (UK) Kiyoshi Suyehiro (Japan) Juan F. Vilas (Argentina)

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)

1995-1999	Mike J. Hamlin (UK) Vinod K. Gaur (India) Erwin Groten (Germany)
1999-2003	Mike J. Hamlin (UK) Vinod K. Gaur (India) Erwin Groten (Germany)
2003-2007	Brian L.N. Kennett (UK) Kiyoshi Suyehiro (Japan) Juan F. Vilas (Argentina)
2007-2011	David Jackson (USA) David Collins (UK) Jan Krynski (Poland)
2011-2015	Kiyoshi Suyehiro (Japan) Zoltan Hajnal (Canada) Jan Krynski (Poland)
2015-2016	David Rhoades (New Zealand) Jan Krynski (Poland) Corina Risso (Argentina)
2016-2019	Jan Krynski (Poland) Corina Risso (Argentina) Virendra Tiwari (India)
2019-2022	Virendra Tiwari (India) Nasser Abou Ashour (Egypt) József Ádám (Hungary)
2019-2023	József Ádám (Hungary) Priscilla Grew (USA)
2023	Jan Krynski (Poland)

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. Doporto (Ireland) Jack M. Rayner (Australia) A. Romana (Spain)
1963-1967	Charles A. Whitten (USA)

Union Commissions

Union Commission on Climatic and Environmental Change (CCEC):

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

<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 Rosbjerger	DENMARK
<i>Immediate Past Chair:</i>	Tom Beer	AUSTRALIA

Union Commission on Mathematical Geophysics (CMG):

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

<i>Chair:</i>	Alik Ismail-Zadeh	GERMANY
<i>Secretary:</i>	Andrew Valentine (IASPEI)	UK
<i>Vice-Chair:</i>	Enamundram Chandrasekhar	INDIA
<i>Past Chair:</i>	Yehuda Ben-Zion	USA
<i>Executive Committee Members:</i>	Roberto Carniel (IAVCEI)	ITALY
	Fabio Castelli (IAHS)	ITALY
	William Dewar (IAPSO)	USA
	Alexander Fournier (IAGA)	FRANCE
	Shin-Chan Han (IAG)	AUSTRALIA
	Sang-Mook Lee	KOREA, Rep. of
	Elisa Mantelli (IACS)	GERMANY
	Oleg Melnik	FRANCE
	Leslie M. Smith (IAMAS)	USA
<i>Advisory Committee Members:</i>	Salvatore Grimaldi	ITALY
	Ute Herzfeld	USA
	Dick Peltier	CANADA
	Annick Pouquet	USA
	Daniel Rothman	USA
	Malcolm Sambridge	AUSTRALIA
	Frederik J. Simons	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 Gusakov	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-Ashtiani	IRAN
	Kosuke Heki	JAPAN
	Michael Krautblatter	GERMANY
	Roberto Sulpizio	ITALY
	Christa von Hillebrandt-Andrade	USA
<i>Past Chair and Advisory Board Member:</i>	Joan Martí	SPAIN

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

www.sedigroup.org

<i>Chair:</i>	Mathieu Dumberry	CANADA
<i>Vice-Chair:</i>	Lauren Waszek	AUSTRALIA
<i>Secretary:</i>	Michael Bergman	USA
<i>Executive Committee Members at large:</i>	Jonathan Aurnou (Former Chair)	USA

James Badro	FRANCE
Carla Braitenberg (IAG rep.)	ITALY
Chris Davies	UK
Arwen Deus	NETHERLAND
Ed Garnero	USA
Yumei He	CHINA
George Helffrich	JAPAN
Richard Holme	UK
Catherine Johnson	CANADA
Yongxin Pan	CHINA
Sebastian Rost	UK
Hisayoshi Shimizu	JAPAN
Nicholas Schmerr (IASPEI rep.)	USA
Satoru Tanaka (Former Chair)	JAPAN
Christine Thomas (Former Chair)	GERMANY
Hrvoje Tkalcic	AUSTRALIA

Union Commission on Planetary Sciences (UCPS):

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

<i>Chair:</i>	Shuanggen Jin	CHINA
<i>Vice-Chairs:</i>	Nader Haghhighipour	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 Macias-Vasquez	MEXICO

Inter-Unions Commission

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

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

President:

Hans Thybo

TÜRKİYE

Secretary General:

Mian Liu

USA

Executive Secretary

Qin Wang

CHINA

Bureau Members (Executive):

IUGG: Alexander Rudloff

GERMANY

IUGS: John Ludden

FRANCE

Chair of National Representatives:

Alessandro Tibaldi

ITALY

Past President: Sierd Cloetingh

NETHERLANDS

Özlem Adiyaman Lopes

UNESCO

Kristine Asch

GERMANY

Atalay Ayele

ETHIOPIA

Shuwen Dong

CHINA

Cynthia Ebinger

USA

Dietmar Mueller

AUSTRALIA

Victor Ramos

ARGENTINA

Harsh Gupta

INDIA

Mary von Knorring

SWEDEN

Jörg Negendank

GERMANY

Roland Oberhänsli

GERMANY

Alan Green

SWITZERLAND

Lifetime Members:

ILP-Fellow:

Past Secretary General:

Honorary President:

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 (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)

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, Türkiye	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
IAHS	2022	Montpellier, France	592
IAVCEI	2023	Rotorua, New Zealand	1100

* With the International Association for Biological Oceanography (IABO)

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

www.cryosphericosciences.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>President Elect:</i>	Mathieu Morlighem	USA
<i>Secretary General:</i>	Richard Essery	UK
<i>Vice-Presidents:</i>	Minghu Ding	CHINA
	Regine Hock	NORWAY
	Andrew Mackintosh	AUSTRALIA

IACS DIVISIONS

Division I – Snow and Avalanches:

<i>Head:</i>	Rebecca Mott	SWITZERLAND
<i>Deputy Head:</i>	Vincent Vionnet	CANADA

Division II – Glaciers:

<i>Head:</i>	Mohd Farooq Azam	INDIA
<i>Deputy Head:</i>	Lauren Vargo	NEW ZEALAND

Division III – Ice Sheets:

<i>Head:</i>	Sophie Nowicki	USA
<i>Deputy Head:</i>	Ted Scambos	USA

Division IV – Sea Ice, Lake and River Ice:

<i>Head:</i>	Sandra Barreira	ARGENTINA
<i>Deputy Head:</i>	Alex Fraser	AUSTRALIA

Division V – Cryosphere, Atmosphere and Climate:

<i>Head:</i>	Anais Orsi	FRANCE
<i>Deputy Head:</i>		

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

<i>Head:</i>	Christine Schött Hvidberg	DENMARK
<i>Deputy Head:</i>		

IACS SERVICES

World Glacier Monitoring Service (WGMS):

<i>Director:</i>	Michael Zemp	SWITZERLAND
<i>Deputy Director:</i>		

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 2023-2027

The IAG Executive Committee consists of the Bureau, the Immediate Past President and Immediate Past Secretary General, the Commission Presidents, the Inter-commission Committees Presidents, the President 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>	Richard Gross	USA
<i>Vice-President:</i>	Peter Teunissen	NETHERLANDS
<i>Secretary General:</i>	Daniela Thaller	GERMANY

Immediate Past President:

<i>President 2019-2023:</i>	Zuheir Altamimi	FRANCE
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Immediate Past Secretary General:

<i>Secr. General 2019-2023:</i>	Markku Poutanen	FINLAND
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Commission Presidents:

<i>Commission 1:</i>	Urs Hugentobler	GERMANY
<i>Commission 2:</i>	Srinivas Bettadpur	USA
<i>Commission 3:</i>	Rebekka Steffen	SWEDEN
<i>Commission 4:</i>	Paweł Wielgosz	POLAND

President of the Inter-Commission Committee on Theory (ICCT):

Mattia Crespi	ITALY
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President of the Inter-Commission Committee for Climate Research (ICCC):

Annette Eicker	GERMANY
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President of the Inter-Commission Committee for Marine Geodesy (ICCM):

Valérie Ballu	FRANCE
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President of the Global Geodetic Observing System (GGOS):

Laura Sánchez	GERMANY
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President of the Communication and Outreach Branch:

Szabolcs Rózsa	HUNGARY
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Representatives of the IAG Services:

Riccardo Barzaghi	ITALY
Tom Herring	USA
Vincenza Luceri	ITALY

IAG Members at Large:

Masato Furuya	JAPAN
Maria Virginia Mackern	ARGENTINA

Non-voting Members:

<i>IAG Project Novel Sensors and Quantum Technology for Geodesy:</i>	Jürgen Müller	GERMANY
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<i>IAG Past Presidents:</i>	Wolfgang Torge Fernando Sansó Gerhard Beutler Michael Sideris Chris Rizos Harald Schuh	GERMANY ITALY SWITZERLAND CANADA AUSTRALIA GERMANY
<i>Past Secretaries General:</i>	Hermann Drewes	GERMANY

IAG COMMISSIONS, INTER-COMMISSION COMMITTEES and PROJECTS

Commission 1: Reference Frames

<i>President:</i>	Urs Hugentobler	GERMANY
<i>Vice-President:</i>	tba	

Commission 2: Gravity Field

<i>President:</i>	Srinivas Bettadpur	USA
<i>Vice-President:</i>	tba	

Commission 3: Earth Rotation and Geodynamics

<i>President:</i>	Rebekka Steffen	SWEDEN
<i>Vice-President:</i>	tba	

Commission 4: Positioning and Applications

<i>President:</i>	Paweł Wielgosz	POLAND
<i>Vice-President:</i>	tba	

IAG Inter-Commission Committee on Theory (ICCT)

<i>President:</i>	Mattia Crespi	ITALY
<i>Vice-President:</i>	tba	

IAG Inter-Commission Committee for Climate Research (ICCC)

<i>President:</i>	Annette Eicker	GERMANY
<i>Vice-President:</i>	tba	

IAG Inter-Commission Committee on Marine Geodesy (ICCM)

<i>President:</i>	Valérie Ballu	FRANCE
<i>Vice-President:</i>	tba	

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

<i>President:</i>	Jürgen Müller	GERMANY
<i>Vice-President:</i>	tba	

IAG SERVICES

Bureau Gravimétrique International (BGI):

<i>Director:</i>	Sylvain Bonvalot	FRANCE
<i>Chair:</i>		

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
<i>Chair:</i>		

International Digital Elevation Model Service (IDEMS):

<i>Director:</i>	Kevin M. Kelly	USA
<i>Chair:</i>		

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>	Tonie van Dam	LUXEMBOURG
<i>Director of Central Bureau:</i>	Daniela Thaller	GERMANY

International Service for the Geoid (ISG):

<i>President:</i>	Mirko Reguzzoni	ITALY
<i>Director:</i>	Daniela Carrion	ITALY

International Gravity Field Service (IGFS):

<i>Chair:</i>	Riccardo Barzaghi	ITALY
<i>Director of Central Bureau:</i>	Georgios Vergos	GREECE

International GNSS Service (IGS):

<i>Chair of Governing Board:</i>	Rolf Dach	SWITZERLAND
<i>Director of Central Bureau:</i>	Allison Craddock	USA

International Laser Ranging Service (ILRS):

<i>Chair of Governing Board:</i>	Stephen Merkowitz	USA
<i>Director of Central Bureau:</i>	Michael Pearlman	USA

International Service for Geodesy and Astrometry (IVS):

<i>Chair of Directing Board:</i>	Rüdiger Haas	SWEDEN
<i>Director of Coord. Centre:</i>	Dirk Behrend	USA

Permanent Service for Mean Sea Level (PSMSL):

<i>Head:</i>	Elizabeth Bradshaw	UK
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IAG GLOBAL GEODETIC OBSERVING SYSTEM (GGOS)

<i>President:</i>	Laura Sanchez	GERMANY
<i>Vice-Chair:</i>	Anna Riddell	AUSTRALIA

IAG OFFICE

Federal Agency of Cartography and Geodesy (BKG)

<i>Secretary General:</i>	Daniela Thaller	GERMANY
<i>Assistant:</i>	Christina Dimopoulou	GERMANY

IAG COMMUNICATION AND OUTREACH BRANCH

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

<i>President:</i>	Szabolcs Rózsa	HUNGARY
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JOURNAL OF GEODESY

<i>Editor in Chief:</i>	Peiliang Xu	JAPAN
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IAG SYMPOSIA SERIES

<i>Editor in Chief:</i>	Jeff Freymueller	USA
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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

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)
2019-2023	Markku Poutanen (Finland)

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)
2019-2023	Zuheir Altamimi (France)

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

<https://iaga-aiga.org/>

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 2023-2027

<i>President:</i>	Andrew Yau	CANADA
<i>Vice-Presidents:</i>	Kusumita Arora	INDIA
	Klaus Spitzer	GERMANY
<i>Secretary General:</i>	Monika Korte	GERMANY
<i>Treasurer:</i>	Aude Chambodut	FRANCE
<i>Past President:</i>	Mioara Mandea	FRANCE
<i>Members:</i>	Anna Kelbert	USA
	Michael Kosch	SOUTH AFRICA
	Dominika Nierzabitowska	SWEDEN, Early Career Representative
	Masahito Nosé	JAPAN
	Katia Pinheiro	BRAZIL
	Pornchai Supnithi	THAILAND
	Ricardo Trindade	BRAZIL

IAGA DIVISIONS

IAGA Division I – Internal Magnetic Fields

<i>Chair:</i>	Nicolas Gillet	FRANCE
<i>Co-Chairs:</i>	Liao Chang	CHINA
	Patrick Arneitz	AUSTRIA

Working Group FAIR-MOD

<i>Chairs:</i>	Chris Davies	UK
	Catherine Constable	USA
<i>Co-Chairs:</i>	Julien Aubert	FRANCE
	Sanja Panovska	GERMANY

IAGA Division II – Aeronomic Phenomena

<i>Chair:</i>	Petra Koucká Knízová	CZECH REPUBLIC
<i>Co-Chair:</i>	Christina Arras	GERMANY

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>	Loren Chang	CHINA-TAIPEI
<i>Co-Chair:</i>	Christina Arras	GERMANY

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

<i>Chair:</i>	Christoph Jacobi	GERMANY
<i>Co-Chairs:</i>	Luc Damé	FRANCE
	Nicholas Pedatella	USA

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

<i>Chair:</i>	Venkatesh Kavutarapu	INDIA
<i>Co-Chairs:</i>	Paulo Roberto Fangades	BRAZIL
	Alessio Pignalberi	ITALY

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

<i>Chair:</i>	Liyong Qian	USA
<i>Co-Chair:</i>	Ana G. Elias	ARGENTINA

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

<i>Chair:</i>	Irina A. Mironova	RUSSIA
<i>Co-Chair:</i>	Tamás Bozóki	HUNGARY

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

<i>IAGA Chair:</i>	Frantisek Nemec	CZECH REPUBLIC
<i>Co-Chair:</i>	Claudia Martinez-Calderon	JAPAN

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

<i>Chair:</i>	Tomoko Matsuo	USA
<i>Co-Chair:</i>	David Themens	CANADA/UK

IAGA Division III – Magnetospheric Phenomena

<i>Chair:</i>	Jay Johnson	USA
<i>Co-Chair:</i>	Jayashree Bulusu	INDIA

Working Group ULF waves

<i>Chair:</i>	Peter Chi	USA
<i>Co-Chairs:</i>	Yuki Obana	JAPAN
	Kazuhiro Yamamoto	JAPAN

IAGA Division IV – Solar Wind & Interplanetary Field

<i>Chair:</i>	Cynthia López-Portela	MEXICO
<i>Co-Chair:</i>	Laura Rodríguez García	SPAIN

IAGA Division V – Geomagnetic Observatories, Surveys & Analysis

<i>Chair:</i>	Roman Leonhardt	AUSTRIA
<i>Co-Chair:</i>	Tanja Petersen	NEW ZEALAND

Working Group V-OBS: Geomagnetic Observation

<i>Chair:</i>	Seiki Asari	JAPAN
<i>Co-Chair:</i>	Jürgen Matzka	GERMANY

Working Group V-MOD: Geomagnetic Field Modeling

<i>Chair:</i>	Ciaran Beggan	UK
<i>Co-Chair:</i>	Clemens Kloss	DENMARK

Working Group V-DAT: Geomagnetic Data and Indices

<i>Chair:</i>	Anna Willer	DENMARK
<i>Co-Chair:</i>	Ayako Matsuoka	JAPAN

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

<i>Chair:</i>	Ute Weckmann	GERMANY
<i>Co-Chair:</i>	Kiyoshi Baba	JAPAN

IAGA Inter-divisional Commissions

Inter-divisional Commission on Developing Countries

<i>Chair:</i>	Geeta Vichare	INDIA
<i>Co-Chairs:</i>	Igo Paulino	BRAZIL
	Marta M. Zossi	ARGENTINA

Inter-divisional Commission on History

<i>Chair:</i>	Nada Al-Haddad	USA
<i>Co-Chairs:</i>	Hisashi Hayakawa	JAPAN
	Veronika Barta	HUNGARY

Inter-divisional Commission on Education and Outreach

<i>Chair:</i>	Barbara Leichter	AUSTRIA
<i>Co-Chair:</i>	Ashley Smith	UK
	Sara Gasparini	NORWAY

Working Group ComNet

<i>Chair:</i>	Hannah F. Rogers	UK
<i>Co-Chair:</i>	Shivangi Sharan	UK

Inter-divisional Commission on Space Weather

<i>Chair:</i>	Laure Lefevre	BELGIUM
<i>Co-Chair:</i>	Gemma Richardson	UK

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	Egil Friis-Christensen (Denmark)
2011-2015	Kathryn Whaler (UK)
2015-2019	Eduard Petrovsky (Czech Republic)
2019-2023	Mioara Mandea (France)

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, 2023-2027

<i>President:</i>	Berit Arheimer	SWEDEN
<i>President-Elect:</i>	Salvatore Grimaldi	ITALY
<i>Secretary General:</i>	Jean-Marie Kileshye Onema	SOUTH AFRICA
<i>Vice-Presidents:</i>	Christophe Cudennec Archana Sarkar Fuqiang Tian	FRANCE INDIA 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>President-Elect:</i>	Sergey Chalov	RUSSIA
<i>Vice-Presidents:</i>	Allen Gellis Peter Molnar	USA SWITZERLAND
	Yuri Jacques A. B. da Silva	BRAZIL
<i>Secretary:</i>	Michal Habel	POLAND
<i>ECC Representative:</i>	Anatoly Tsyplenkov	NEW ZEALAND

International Commission on Coupled Land-Atmosphere Systems (ICCLAS)

<i>President:</i>	Richard Petrone	CANADA
<i>President-Elect:</i>	Christopher White	UK
<i>Vice-Presidents:</i>	Tirtha Banerjee Lindsay Beevers	USA UK
	Shanshui Yuan	CHINA
<i>Secretary:</i>	Rodolfo Nóbrega	UK
<i>ECC Representative:</i>	P. James Dennedy-Frank	USA

International Commission on Groundwater (ICGW)

<i>President:</i>	Felipe de Barros	USA
<i>President-Elect:</i>	Michelle Newcomer	USA
<i>Vice-Presidents:</i>	Makoto Kagabu Chengpeng Lu	JAPAN CHINA
	Rajendra Prasad Patury	INDIA
<i>Secretary:</i>	Antonio Zarlenga	ITALY
<i>ECC Representative:</i>	Rahim Barzegar	CANADA

International Commission on Human-Water Feedbacks (ICHWF)

<i>President:</i>	Heidi Kreibich	GERMANY
<i>Vice-Presidents:</i>	Tobias Krüger Anne van Loon	GERMANY NETHERLANDS
	Saket Pande	NETHERLANDS
<i>Secretary:</i>	Melissa Haeffner	USA
<i>ECC Representative:</i>		

International Commission on Remote Sensing (ICRS)

<i>President:</i>	Amir AghaKouchak	USA
<i>President-Elect:</i>	Maria José Polo Gómez	SPAIN
<i>Vice-Presidents:</i>	Gilles Boulet Lisa Milani	FRANCE USA
	Yanjun Shen	CHINA

<i>Secretary:</i>	Pankaj Ramji Dhote	INDIA
<i>ECC Representative:</i>	Pankaj Kumar	INDIA

International Commission on Statistical Hydrology (ICSH)

<i>President:</i>	Elena Volpi	ITALY
<i>President-Elect:</i>	Krzysztof Kochanek	POLAND
<i>Vice-Presidents:</i>	Eleonora Dallan Simon Papalexiou	ITALY CANADA
	Sahani Pathiraja	AUSTRALIA
<i>Secretary:</i>	Svenja Fischer	GERMANY
<i>ECC Representative:</i>	Jew Das	INDIA

International Commission on Snow and Ice Hydrology (ICSIH)

<i>President:</i>	Melody Sandells	UK
<i>President-Elect:</i>	James McPhee	CHILE
<i>Vice-Presidents:</i>	Vsevolod Moreydo Dhiraj Pradhananga	RUSSIA NEPAL
	McKenzie Skiles	USA
	Shiqiang Zhang	CHINA
<i>Secretary:</i>	Tim Link	USA
<i>ECC Representative:</i>	Anna-Marie Jörss	GERMANY

International Commission on Surface Water (ICSW)

<i>President:</i>	David Hannah	UK
<i>President-Elect:</i>	Alain Dezetter	FRANCE
<i>Vice-Presidents:</i>	Ernest Amoussou Elizabeth W. Boyer	BÉNIN USA
	Faiza Hallouz	ALGERIA
<i>Secretary:</i>	Yonca Cavus	TÜRKİYE
<i>ECC Representative:</i>	Moctar Dembélé	GHANA/BURKINA FASO

International Commission on Tracers (ICT)

<i>President:</i>	Zhonghe Pang	CHINA
<i>President-Elect:</i>	Maki Tsujimura	JAPAN
<i>Vice-Presidents:</i>	Søren Jessen Koichi Sakakibara	DENMARK JAPAN
	Matthias Sprenger	USA
<i>Secretary:</i>	Wei Jiang	CHINA
<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>President-Elect:</i>	Dedi Liu	CHINA
<i>Vice-Presidents:</i>	Remegio B. Confesor Ann van Griensven	NORWAY BELGIUM
	Stefan Krause	UK
<i>Secretary:</i>	Alena Bartosova	SWEDEN
<i>ECC Representative:</i>	Bertil Nlend	CAMEROON

International Commission on Water Resources Systems (ICWRS)

<i>President:</i>	Barry Croke	AUSTRALIA
<i>President-Elect:</i>	Pedro Chaffé	BRAZIL
<i>Vice-Presidents:</i>	Emmanouil Anagnostou Suxia Liu	USA CHINA
	Alberto Viglione	ITALY
<i>Secretary:</i>	Gökçen Uysal	TÜRKİYE
<i>ECC Representative:</i>	Chris Leong	JAPAN/FIJI

IAHS WORKING GROUPS

MOXXI (Measurements and Observations in the XXIst century)

<i>Chair:</i>	Salvatore Manfreda	ITALY
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CANDHY (Citizen AND Hydrology)

Chair: Wouter Buytaert UK

History of Hydrology

Chair: Keith Beven UK

UPH (Unsolved Problems in Hydrology)

Chair: Günter Blöschl AUSTRIA

IAHS Committees

Early Career Scientists

Chair: Moctar Dembélé GHANA

Africa Regional Committee

Chair: Hodson Makurira ZIMBABWE

Latin America Regional Committee

Chair: James McPhee CHILE

PAST IAHS PRESIDENTS

1922-1933	E. Wade (UK)
1933-1936	Jan Smetana (Czechoslovakia)
1936-1947	Otto Lütschg (Switzerland)
1947-1948	Gustaf Slettenmark (Sweden)
1948-1951	Merrill Bernard (USA)
1951-1957	Johannes T. Thijssse (Netherlands)
1957-1960	Harold G. Wilm (USA)
1960-1963	W. Friedrich (F.R. Germany)
1963-1967	Adriaan Volker (Netherlands)
1967-1970	Károly Szczesztay (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 Diénert (France)
1947-1948	Auguste Vibert (France)
1948-1971	Léon J. Tison (Belgium)
1971-1975	György Kovacs (Hungary)
1975-1979	Jean Rodier (France)
1979-1987	John C. Rodda (UK)
1987-1995	Henny J. Colenbrander (Netherlands)
1995-2000	Gordon J. Young (Canada)
2000-2011	Pierre Hubert (France)
2011-2023	Christophe Cudennec (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 2023-2027

<i>President:</i>	Andrea Flossmann	FRANCE
<i>Vice-Presidents:</i>	John Burrows	GERMANY
	Mary Scholes	SOUTH AFRICA
<i>Past President:</i>	Joyce E. Penner	USA
<i>Secretary General:</i>	Keith Alverson	USA
<i>Members at large:</i>	Neil Holbrook	AUSTRALIA
	Mu Mu	CHINA
	Marilyn Raphael	USA
	Tirusha Thambiran	SOUTH AFRICA
	John Turner	UK
<i>Commission presidents (ex officio):</i>	see below	see below

IAMAS COMMISSIONS

Atmospheric Chemistry and Global Pollution (ICACGP)

www.icacgp.org		
<i>President:</i>	Mary Barth	USA
<i>Vice-Presidents:</i>	Hugh Coe	UK
	Christian George	FRANCE
	Judith Hoelzemann	BRAZIL
<i>Secretary:</i>	Hiroshi Tanimoto	JAPAN

Atmospheric Electricity (ICAE)

http://www.icae-iamas.org/		
<i>President:</i>	Xiushu Qie	CHINA
<i>Secretary:</i>	Weitao Lyu	CHINA

Climate (ICCL)

www.iccl-iamas.net		
<i>President:</i>	Jianping Li	CHINA
<i>Secretary:</i>	Qizhen Yin	BELGIUM

Clouds and Precipitation (ICCP)

www.iccp-iamas.org		
<i>President:</i>	Greg McFarquhar	USA
<i>Vice-President:</i>	Heike Wex	GERMANY
<i>Secretary-Treasurer:</i>	Martina Krämer	GERMANY

ICCP - Committee on Nucleation and Atmospheric Aerosols

www.icnaa.org		
<i>Chair:</i>	Markku Kulmala	FINLAND

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/>

President: Seok Woon Son
Vice-President: Natalia Calvo

KOREA, Rep. of
SPAIN

Ozone (IO3C)

www.io3c.org

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

FRANCE
USA
USA

Planetary Atmospheres and their Evolution (ICPAE)

<http://iamas.org/icpae>

President: Ann Carine Vandaele
Vice-President:
Secretary: Yeon Joo Lee

BELGIUM
KOREA, Rep. of

Polar Meteorology (ICPM)

www.icpm-iamas.aq

President: Matthew Lazzara
Secretary: Tracy Moffat-Griffin

USA
UK

Radiation (IRC)

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

President: Peter Pilewskie
Vice-President: Manfred Wendisch
Secretary: Hajime Okamoto

USA
GERMANY
JAPAN

PAST IAMAS PRESIDENTS

1919-1930 William Napier Shaw (UK)
1930-1936 Axel Wallen (Sweden)
1936-1948 Sidney Chapman (UK)
1948-1951 Jacob Bjerknes (USA)
1951-1954 Kalpathi R. Ramanathan (India)
1954-1957 Carl-Gustaf Rossby (Sweden)
1957-1960 Jacques van Mieghem (Belgium)
1960-1963 Horace R. Byers (USA)
1963-1967 Alexei M. Oboukhov (USSR)
1967-1971 Reginald C. Sutcliffe (UK)
1971-1975 Sigmund Fritz (USA)
1975-1979 Christian Junge (F.R. Germany)
1979-1983 Warren L. Godson (Canada)
1983-1987 Hans-Jürgen Bolle (Austria)
1987-1991 G. Brian Tucker (Australia)
1991-1995 Brian J. Hoskins (UK)
1995-1999 Robert A. Duce (USA)
1999-2003 Huw C. Davies (Switzerland)
2003-2007 Michael C. MacCracken (USA)
2007-2011 Guoxiong Wu (China)
2011-2015 Athena Coustenis (France)
2015-2019 John Turner (UK)
2019-2023 Joyce E. Penner (USA)

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)
2019-2023 Steven Ackerman (USA)

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 2023-2027

<i>President:</i>	Hans van Haren	NETHERLANDS
<i>Past President:</i>	Trevor McDougall	AUSTRALIA
<i>Secretary General:</i>	Silvia Blanc	ARGENTINA
<i>Treasurer:</i>	Ken Ridgway	AUSTRALIA

IAPSO EXECUTIVE COMMITTEE 2023-2027

<i>Vice-Presidents:</i>	Agatha de Boer	SWEDEN
	Toshiyuki Hibiya	JAPAN
<i>Members:</i>	Juliet Hermes	SOUTH AFRICA
	Yukio Masumoto	JAPAN
	Malin Ödalen	GERMANY
	Jae-Hun Park	KOREA, Rep. of
	Regina Rodrigues	BRAZIL
	Joellen Russell	USA
	Alejandra Sanchez-Franks	UK
	Peter Zavialov	RUSSIA

IAPSO COMMISSIONS, JOINT COMMITTEES & WORKING GROUPS

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-Chair:</i>	Steffen Seitz	GERMANY

IAPSO Early Career Scientists Working Group

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

SERVICES

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

www.psmls.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)
1970-1975	Henri Lacombe (France)

PAST IAPSO SECRETARIES GENERAL

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

1975-1979	Robert W. Stewart (Canada)	2007-2015	Johan Rodhe (Sweden)
1979-1983	Devendra Lal (India)	2015-2023	Stefania Sparnocchia (Italy)
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)		
2019-2023	Trevor McDougall (Australia)		

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 (AISPI)

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 (Brussels, 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'AISPI, 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 2023-2027

<i>President:</i>	Michelle Grobbelaar	SOUTH AFRICA
<i>First Vice-President:</i>	Li Li	CHINA
<i>Second Vice-President:</i>	Dmitry Storchak	UK
<i>Secretary General & Treasurer:</i>	Johannes Schweitzer	NORWAY

IASPEI EXECUTIVE COMMITTEE 2023-2027

<i>Members:</i>	Sergio Barrientos	CHILE
	Fiona Ann Darbyshire	CANADA
	Christine Thomas	GERMANY
	Hrvoje Tkalcic	AUSTRALIA
<i>Past President:</i>	Kenji Satake	JAPAN

IASPEI Early Career Scientists Group

<i>Contacts:</i>	Irina Dallo	SWITZERLAND
	María del Puy Papí Isaba	AUSTRIA

IASPEI COMMISSIONS

Commission on Tectonophysics and Crustal Structure

<i>Co-Chair:</i>	Magdalena Tesauro	ITALY
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Commission on Earthquake Hazard, Risk & Strong Ground Motion (SHR)

<i>Chair:</i>	Fabrice Cotton	GERMANY
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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>Co-Chairs:</i>	Hisashi Nakahara	JAPAN
	Ulrich Wegler	GERMANY

Working Group on Utilization of Global 3-D Models for Seismic Observatory Applications

<i>Chair:</i>	István Bondár	HUNGARY
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Working Group on Magnitude Measurements

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

Chair: Torsten Dahm GERMANY

Working Group on Triggered and Induced Seismicity

Chair: Beata Orlecka-Sikora 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 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 & IAG Representative: Jean-Mathieu Nocquet FRANCE
Vice-Chair & IASPEI Representative: Masayuki Kano JAPAN
Representative:

Commission on Education & Outreach

Co-Chairs: Raju Sarkar INDIA
 Aaron Velasco USA
 Xyoli Pérez-Campos MEXICO/AUSTRIA

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: Ruben Tatevossian RUSSIA
First Vice-President: Makoto Okubo JAPAN
Second Vice-President: Sandeep Kumar Gupta INDIA
Secretary General: Li Li CHINA
Past President: Paramesh Banerjee SINGAPORE

African Seismological Commission (AfSC)

<http://www.iaspei.org/commissions/africa-seismological-commission-afsc>
President: Paulina Amponsah GHANA
First Vice-President: Mohamed El-Gabry EGYPT
Second Vice-President: Momoun Chourak MOROCCO
Secretary General: Michelle Grobbelaar SOUTH AFRICA
Past President: Mustapha Meghraoui ALGERIA/FRANCE

Latin American and Caribbean Seismological Commission (LACSC)

http://www.iaspei.org/commissions/latin-american-and-caribbean-seismological-commission		
<i>President:</i>	Esteban J. Chaves Sibaja	COSTA RICA
<i>Vice-President:</i>	Victor Huérano Moreno	PUERTO RICO
<i>Secretary General:</i>	Xyoli Pérez-Campos	MEXICO/AUSTRIA
<i>Past President:</i>	Mario Ruiz	ECUADOR

FURTHER GROUP WITH IASPEI COMMISSION STATUS

International Federation of Digital Seismograph Networks (FDSN)

www.fdsn.org		
<i>Chair:</i>	Michelle Grobbelaar	SOUTH AFRICA
<i>Secretary General</i>	Nick Ackerley	CANADA

IASPEI REPRESENTATIVES TO IUGG AND OTHER GROUPS

IUGG Commission on Mathematical Geophysics

<i>Secretary, Representative:</i>	Andrew Valentine	UK
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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>	Lauren Waszek	AUSTRALIA
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1907-1911	Arthur Schuster (UK)
1911-1916	Boris Galitzin (Russia)
1916-1922	Georges Lecointe (Belgium)
1922-1930	Herbert H. Turner (UK)
1930-1936	Emilio Oddone (Italy)
1936-1940	Nicholas H. Heck (USA)
1940-1951	Robert Stoneley (UK)
1951-1954	Beno Gutenberg (USA)
1954-1957	Keith E. Bullen (Australia)
1957-1960	Harold Jeffreys (UK)
1960-1963	Perry Byerly (USA)
1963-1967	John Hodgson (Canada)
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1971-1975	Vladimir A. Magnitsky (USSR)
1975-1979	Hans Berckhemer (F.R. Germany)
1979-1983	Bruce A. Bolt (USA)

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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)
1991-2003	E. Robert Engdahl (USA)
2003-2015	Peter Suhadolc (Italy)

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)
2019-2023	Kenji Satake (Japan)

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.

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<i>Co-Leaders:</i>	Tobias Fischer	USA
	Silvana Hidalgo	ECUADOR

Commission on Volcanic Clouds

<i>Leader:</i>	Simon Carn	USA
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Commission on Volcano Geology

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Commission on Volcanic Lakes

<i>Co-Leaders:</i>	Agnes Mazot	NEW ZEALAND
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<i>Co-Leaders:</i>	Elisabetta Del Bello	ITALY
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Danielle Charlton NEW ZEALAND
Lis Gallant USA
Sylvain Charbonnier USA
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Leader: Claire Horwell UK

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Early-Career Researchers Network (ECR-Net)

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<i>Co-Leaders:</i>	José Luis Palma Omari Graham Esline Garaebiti Bule Karen Fontijn Supriyati Andreastuti	CHILE TRINIDAD & TOBAGO VANUATU BELGIUM INDONESIA

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1927-1933	Alessandro Malladra (Italy)
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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)
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2011-2015	Ray Cas (Australia)
2015-2019	Donald B. Dingwell (Germany)
2019-2023	Patrick Allard (France)

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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)
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	Felicity McCormack (IAPSO)	AUSTRALIA
<i>IAPSO Liaison:</i>	Joellen Russell (IAPSO)	USA

IACS/IAVCEI Commission on Ice-Volcano Interactions

https://sites.google.com/view/volcano-ice/home		
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IAG/IASPEI Sub-Commission on Seismogeodesy:

<i>Chair:</i>	tba
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IAG/IAVCEI Commission on Volcano Geodesy:

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<i>Co-Leaders:</i>	Alessandro Bonforte	ITALY

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

www.emsev-iugg.org/emsev		
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<i>IASPEI Liaison:</i>	Qinghua Huang (IASPEI)	CHINA
<i>IAVCEI Liaison:</i>	Takeshi Hashimoto (IAVCEI)	JAPAN

IAPSO/IASPEI/IAVCEI Joint Tsunami Commission

https://tsunamicommission.ipma.pt/home/		
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<i>IASPEI Liaison:</i>	Kenji Satake (IASPEI)	JAPAN

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http://ihfc-iugg.org/		
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IASPEI/IAVCEI Commission on Physics & Chemistry of Earth Materials

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IASPEI/IAVCEI Commission on Volcano Seismology and Acoustics

http://volc_seis_commission.leeds.ac.uk

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ANNUAIRE 2024 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 2023.

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 2023.

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Sheshi Fan S. Noli
Tirane

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Centre de Recherche en Astronomie, Astrophysique et Géophysique (CRAAG)
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Instituto Geográfico Nacional
 Comité Nacional de la Unión Geodésica y Geofísica Internacional
 Cabildo 381
 Ciudad Autónoma de Buenos Aires
Web: www.ign.gob.ar

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Territorial Survey for Seismic Protection, MES RA
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 Yerevan
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ADHERING ORGANIZATION

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 Canberra, ACT, 2601

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

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Contact: G. BABAYEV

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National Research Council of Canada
International Affiliations Program
International Relations Office, Bldg. M50
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Ottawa, ON K1A 0R6

Contacts: T. ROMANO, D. SOCHINSKAIA

Web: http://cgu-ugc.ca/cnc_iugg/

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Avenida Santa Isabel 1651
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R. PADILLA Torres
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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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IAVCEI: Z. F. GUO

IAGA: J. K. SHI
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The Academy of Sciences Located in TAIPEI

ADHERING ORGANIZATION

Academia Sinica
 128, Academy Road, Sec. 2
 Taipei

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COLOMBIA - COLUMBIE

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Instituto Geográfico Agustín Codazzi
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 Carrera 30 No. 48-51
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Contact: X. SIERRA MÉNDEZ

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Centre de Recherche en Geophysique (CRG)
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COSTA RICA

ADHERING ORGANIZATION

Academia Nacional de Ciencias
Apartado postal: 1367-2050
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Contact: M. PROTTO	Web: www.anc.cr
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Trg Nikole Subica Zrinskog 11
10000 Zagreb

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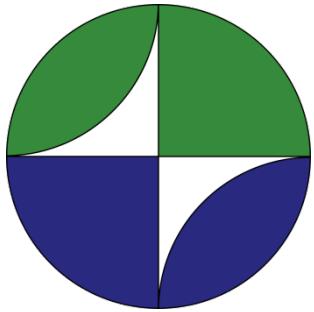
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LIST OF ACRONYMS

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 Geomagnetics 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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