

## IUGG Resolutions at the XXVII General Assembly 2019

### Resolution 1: Reducing the Carbon Foot Print by the Research Community

*The International Union of Geodesy and Geophysics*

#### Considering

The clearly established impact of human activity on climate change and biosphere degradation,

#### Acknowledging

The irreversible consequences of continuing the current trajectory of greenhouse gas emission for the ecosystems of the planet and human societies,

#### Noting

That the Intergovernmental Panel on Climate Change (IPCC), in its recent special report on the impact of global warming of 1.5°C (IPCC, 2018; <https://www.ipcc.ch/sr15/>),

- Demonstrated the dramatic differences between the consequences of warming of 1.5°C and 2.0°C above pre-industrial levels, and
- Showed that limiting the warming to 1.5°C could be obtained only by strongly reducing carbon dioxide emissions before 2030,

#### Urges

- IUGG and affiliated Scientific Associations to take carbon foot print criteria into account when choosing the venue of future meetings, and
- The participants of the 27th IUGG General Assembly, research institutions and individual researchers to contribute to an unprecedented effort to evaluate and reduce greenhouse gas emission impact on the environment.

#### Resolves

The research community, which is well aware of the origins and impact of climate change, should exhibit an exemplary attitude by modifying its professional practices in order to rapidly reduce its carbon footprint.

### Resolution 2: The International Terrestrial Reference Frame (ITRF)

*The International Union of Geodesy and Geophysics*

#### Considering

- The significant efforts of the International Association of Geodesy (IAG) in developing and maintaining fundamental geodetic products, in particular the International Terrestrial Reference Frame (ITRF), for scientific and societal benefits, and
- The importance of inter-operability of various geospatial data-sets and geo-referencing applications,

#### Acknowledging

The adoption by the IUGG of Resolution 2 in Perugia 2007 of the International Terrestrial Reference System (ITRS) as the preferred Geocentric Terrestrial Reference System (GTRS) for scientific and technical applications,

#### Noting

- That the ITRF is the numerical realization of the ITRS, developed, maintained and made available to users by the International Earth Rotation and Reference Systems Service (IERS), an IAG service, and
- That the ITRF is widely used as the standard in various geo-referencing applications,

#### Resolves

To recommend to the user community that the ITRF be the standard terrestrial reference frame for positioning, satellite navigation and Earth Science applications, as well as for the definition and alignment of national and regional reference frames.

### **Resolution 3: Thanks**

#### *The International Union of Geodesy and Geophysics*

##### **Resolves**

To record gratefully its appreciation for the organization, arrangements, and hospitality at its 27th General Assembly. On behalf of all participants the Council expresses its warm thanks to the Local Organizing Committee, the Scientific Program Committee, the Canadian Geophysical Union (CGU), the Canadian Meteorological and Oceanographic Society (CMOS) and all others for making the 27th General Assembly a success in the beautiful city of Montreal.