

RESOLUTIONS
Of the 15th International Symposium on Earth Tides
On behalf of the Earth Tide sub-Commission (EtsC)
Commission 3 of IAG

1. **Considering** that earth tides phenomena must now be included in all fields of geodynamics, **recognizing** the success of the sessions dedicated to space geodetic techniques and planetary studies and **wishing** to attract scientists from all fields of geodynamics, the EtsC **recommends** that the next symposium be organised in collaboration with the other sub-commissions within Commission 3 (including inter-commission committees) and that the title of the symposium better fits the new developments of Earth tidal research within Commission 3 “Earth Rotation and Geodynamics”.
2. **Considering** the potential interest of the Global Geodynamics Project (GGP) database for several fields of geodesy and geophysics besides Earth tidal studies and **considering** that a rapid access to the data is now of primary importance in scientific research, the EtsC **recommends** that greater publicity should be given to the data base and that new products should be developed and made available in widely used formats.
3. One of the tasks of the International Centre on Earth Tides (ICET) is to provide software for tidal prediction. Several software programs have been developed for precise evaluation of the astronomical tides. However, the computation of tidal effects on the real Earth is much more complex and, in the absence of in situ tidal observations, requires the use of models of the Earth’s response to tidal forces and a precise evaluation of the oceanic loading effects. Therefore the EtsC **recommends** the formation of a *Working Group on Precise Tidal Predictions*.
This working group should evaluate existing software for tidal prediction (ETERNA, BAYTAP-G, VAV03 and others) and provide synthetic tidal parameters at a global scale on the basis of existing models of the Earth’s response and of tidal loading.
4. **Considering** the importance of ground based observations in quantifying climate change, the EtsC **recommends** including our geodetic observations into the Global Geodetic Observing System (GGOS) project.
5. **Realising** the importance of Earth tides in space geodesy, the EtsC **recommends** the creation, jointly with Commission 1, of a new *Inter-commission Study Group on Earth Tides in Space Geodetic Techniques*, replacing the former working group 3.1.2 and reporting to Commission 3. The chairman of this study group will be Rüdiger Haas (Onsala Space Observatory).

6. **Recognising** the increasing importance of modelling environmental effects in the evaluation of tidal records and **acknowledging** the successful efforts of the working group on Environmental effects, the EtsC **recommends** to continue the activities of this group as a
Study Group on Environmental Effects in Tidal Records,
chaired by Corinna Kroner.
7. **Realising** the continuing importance of the resolutions made at ETS2000, the EtsC **recommends** to continue following the ETS2000 resolutions, namely: Res (1) concerning the comparison of ground based and space based observations; Res (3) regarding the participation of the tidal community in lunar and planetary geodesy; Res (4) to include sessions on planetary tides in future meetings; Res (9) concerning the computation of noise spectra. The resolutions are published in BIM 134, Dec. 2001, p. 10529-10530.
8. **Recognising** the uniqueness of the 10 years time series of the GGP station Syowa, the EtsC **appreciates** the distribution of the raw data on CDs to the participants of the ETS2004, with special thanks to the GGP-Japan group and Prof. Kazuo Shibuya.
9. On behalf of all participants of the 15th International Symposium on Earth Tides, the EtsC **thanks** the Canadian Universities, namely York University (Toronto, ON), University of Western Ontario (London, ON) and University of Saskatchewan (Saskatoon, SK), as well as the Federal Department of Natural Resources Canada (NRCan) for sponsoring the conference.
10. The EtsC **thanks** the Local Organising Committee, especially Spiros Pagiatakis (York U, Chairman) and the committee members Tony Lambert, Joe Henton and Jacques Liard (NRCan), Lalu Mansinha (UWO), Jim Merriam (UofS), Doug Smylie (York U) and Margaret-Anne Stroh (Conference Concept Inc.) for their welcome and many efforts that made the 15th International Symposium on Earth Tides a great scientific success.