

IAG/IAU SYMPOSIUM NO. 128: THE EARTH'S ROTATION AND REFERENCE FRAMES
FOR GEODESY AND GEODYNAMICS

RESOLUTIONS ADOPTED ON 1986 OCTOBER 24

RESOLUTION NO. 1 ON THE THEORY OF NUTATION

The participants in IAG/IAU Symposium No. 128, "The Earth's Rotation and Reference Frames for Geodesy and Geodynamics",

recognizing (a) the importance of a standard representation of the nutational motion of the Earth, and

(b) that observational techniques are currently capable of determining improvements in the nutational motion,

request that the Presidents of IAU Commissions 4, 7, 8, 19 and 31 and the President of the International Association of Geodesy and the International Association of Seismology and Physics of the Earth's Interior (IASPEI) form a Working Group to encourage the development, use, and testing of a new high-precision theory of the nutation of the Earth and to put forward recommendations for the adoption of such a theory.

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RESOLUTION NO. 2 ON THE USE OF MODERN TECHNIQUES

The participants in IAG/IAU Symposium No. 128, "The Earth's Rotation and Reference Frames for Geodesy and Geodynamics",

considering that (a) modern measurement techniques of unprecedented accuracy are being developed using radio and optical interferometry of celestial objects and of spacecraft, laser ranging to the Moon and to artificial satellites, optical space-based astrometry, and spacecraft ranging, and

(b) these techniques require the establishment of various reference frames which are fundamental to many disciplines such as astrometry, geodesy, geodynamics and space navigation,

recognize

(1) the necessity for several reference frames,

(2) the evolving nature of reference frames both in concept and in realization,

(3) that the various techniques are complementary to each other, and their full strength can be exploited through effective use of reference frame inter-relationships, and accordingly

recommend that (1) these evolving and new techniques be encouraged to develop to their fullest potential,

(2) intercomparison between different analyses and techniques be continued, and

(3) improved ties between the realisation of various reference frames be pursued.

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RESOLUTION NO. 3 ON THE COLOCATION OF MOBILE LASER RANGING
SYSTEMS AT VLBI SITES

The participants in IAG/IAU Symposium No. 128, "The Earth's Rotation and Reference Frames for Geodesy and Geodynamics",

recognizing (1) the importance of colocations to the establishment of the relationships between reference systems, and

(2) the importance of the IRIS observing sites in establishing a conventional Terrestrial Reference System, and

noting that, in a joint project amongst the Institute for Applied Geodesy (GFR), the U.S. Naval Observatory and the National Geodetic Survey (USA), the MTLRS will be colocated at the Richmond VLBI antenna in 1988,

recommend that NASA take steps to colocate a TLRS at Haystack Observatory during the period that the MTLRS is colocated at Richmond, thus providing a simultaneous colocation of laser and VLBI systems at the Richmond, Haystack and Wettzell observatories.

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RESOLUTION NO. 4 ON THE ARRANGEMENTS FOR THE SYMPOSIUM

The participants in IAG/IAU Symposium No. 128, "The Earth's Rotation and Reference Frames for Geodesy and Geodynamics",

considering that the arrangements for the meeting provided for

- (1) a maximum 24 hour/day required interaction among participants,
- (2) an enforced exercise program walking between cottages and the meeting center,
- (3) destruction of any weight control and reduction programs,
- (4) excellent training in night-time map reading and exploring with flashlights,
- (5) a time period without rain, and with beautiful autumn leaves, and
- (6) a beautiful, pleasant and comfortable site with all necessities for a very successful meeting,

hereby extend a unanimous vote of appreciation to Dennis McCarthy, Alice Babcock and all other members of the local organizing committee.