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Nota di contenuto	Part 1 - Gravimetry and gravity networks -- Quality assessment of the new gravity control in Poland – first estimate -- Estimability in Strapdown Airborne Vector Gravimetr -- A First Traceable Gravimetric Calibration Line in the Swiss Alps -- Airborne gravimetry for geoid and GOCE -- Testing airborne gravity data in the large-scale area of Italy and adjacent seas -- The effect of helium emissions by a superconducting gravimeter on the rubidium frequency standards of absolute gravimeters -- Part 2 - Global geopotential models and vertical datum unification -- Wavelet multi-resolution analysis of recent GOCE/GRACE GGMs -- Evaluation of GOCE-based Global Geopotential Models Versus EGM2008 and GPS/Levelling Data in Northwest of Turkey -- Precise modelling of the static gravity field from the GOCE data using the method of fundamental solutions -- Towards a Vertical Reference Frame for South America in view of the GGOS specifications Andrea Galudht Santacruz Jaramillo, Sílvio Rogério Correia De Freitas, Laura Sánchez -- Ellipsoidal effects in high accuracy quasigeoid computations: verification of the apparatus Otakar Nesvadba, Petr Holota -- Evaluation of GOCE/GRACE GGMs over Attica and Thessaloniki, Greece, and Wo determination for height system unification -- The DTU13 MSS (Mean Sea Surface) and MDT (Mean Dynamic Topography) from 20 years of satellite altimetry -- Part 3 -

Local geoid/gravity modeling -- A new gravimetric geoid model for the area of Sudan using the least squares collocation and a GOCE-based GGM -- Establishment of the Gravity Database AFRGDB V1.0 for the African Geoid -- Quasi-geoid model in the State of São Paulo -- Accurate Approximation of Vertical Gravity Gradient within the Earth’s External Gravity Field -- New geoid of Greenland, A case study of terrain and ice effects, GOCE and use of local sea level data -- Egyptian Geoid using Best Estimated Response of the Earth's Crust due to Topographic Loads -- Part 4 - Mass movements in the Earth system -- An investigation on the closure of the water budget methods over Volta Basin using multi-satellite data -- Application of Independent Component Analysis in GRACE- derived Water Storage Changes Interpretation, A case study of the Tibetan Plateau and its surrounding areas -- Mass variations in the Siberian permafrost region based on new GRACE results and auxiliary modeling -- Part 5 - Solid Earth Investigations -- Comparative study of the uniform and variable Moho density contrast in the Vening Meinesz-Moritz’s isostatic scheme for the gravimetric Moho recovery -- The New Method To Find The Anomalous Internal Structure Of Terrestrial Planets And Its Test On The Earth.

Sommario/riassunto

This volume contains the proceedings of 24 peer-reviewed papers presented at the 3rd International Gravity Field Service (IGFS) General Assembly, which was organized by the International Gravity Field Service (IGFS), Commission 2 of the International Association of Geodesy (IAG), and Shanghai Astronomical Observatory (SHAO), Chinese Academy of Sciences. The Assembly was successfully held in Shanghai, China from June 30th to July 6th, 2014 with over 130 participants from 25 countries. The focus of the Assembly is on methods for observing, estimating and interpreting the Earth gravity field as well as its applications, including 6 sessions: gravimetry and gravity networks, global geopotential models and vertical datum unification, local geoid/gravity modelling, satellite gravimetry, mass movements in the Earth system and solid Earth investigations.