

“Recent development of gravimeter research in China”



Professor Xu Houze

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Prof. Xu Houze, a renowned geodesist and geophysicist, was born in Anhui, China in May 1934. He graduated from Shanghai Tongji University in 1955 and finished his postgraduate study at the Institute of Geodesy and Geophysics of the Chinese Academy of Sciences in 1962. Prof. Xu was Director of Institute of Geodesy and Geophysics, President of Wuhan Branch of the Chinese Academy of Sciences, Member of Executive Committee of the International Association of Geodesy, President of Earth Tides Commission and Vice-president of Gravimetry Commission. In 1991, he was elected as Member of the Chinese Academy of Sciences.

Prof. Xu has long been engaged in the research of geodesy and gravimetry and has participated in a series of important projects, including the design and processing of national astro-gravimetric leveling surveying, the establishment of national gravity fundamental network and monitoring network of crust movement, tidal gravity observation and research, present crust movement and geodynamics and more. He has made great contribution to the approximation theory and upward continuation of earth gravity field, the fictitious single-layer density representation of external gravity field, theoretical simulation and observation experiment of earth tides and loading deformation, application of satellite altimetry in oceanic physics and simulation and inversion of gravity satellite mission. In addition, Prof. Xu, in cooperation with scientists from various countries, proposed and carried out the global geodynamic project based on superconducting gravimeter observation, and has successfully detected the mantle free oscillation and free nutation phenomenon of liquid core.