

Current Achievements of Reference Frame Determinations

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Terrestrial reference frames are a fundamental basis for Earth science applications, satellite navigation and practical applications in geo-information. We review the current level of achievement, including quality and accuracy assessment of reference frame determinations at global and regional scales. The review includes the activities of Commission 1 (Reference Frames) of the International Association of Geodesy (IAG) during the past four years, as well as the current status of the International Terrestrial Reference Frame (ITRF) activities and its future plans for improvement. A critical analysis is conducted with an attempt to identify limitation factors in the contributing techniques, together with their associated networks as well as their combination.