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Study of the orbit accuracy improvement for the satellite SAR Mission using the currently released Geopotential Models

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The Earth's gravity acceleration is the dominant force which governs the satellite's orbital motion. The better the knowledge on the geopotential the more accurate the orbit is. Launching the gravity field dedicated missions, i.e., CHAMP and GRACE, has improved our knowledge and led to better dynamic orbits. In this article, we investigate the CHAMP and GRACE models' contribution to Envisat satellite orbit and consequently on the accuracy of the products.