



## Spectral comparison of global geopotential models

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**Abstract:** Spectral behavior of Earth's gravity models is analyzed. Global geopotential models: EIGEN-CG01c, EIGEN-CHAMP03S, EIGEN-GRACE02S, GGM02C, GGM02S, EGM96 and PGM2000A are used in analysis. Different input data are used in development of each of the models: EIGEN-CG01c (CHAMP, GRACE, gravity and altimetry data), EIGEN-CHAMP03S (CHAMP data), EIGEN-GRACE02S (GRACE data), GGM02C (GRACE, gravity and altimetry data), GGM02S (GRACE data), EGM96 (satellite, gravity and altimetry data) and PGM2000A (satellite, gravity and altimetry data). They are influencing spectral development of Earth's gravity models in different ways. Contributions of different development of spherical harmonic models on spectral development of geopotential models is analyzed in discrete points and in field of raster points.