



Comparing ocean tide loading models for Nearly Diurnal Free Wobble (NDWF) analysis of tidal gravity and tilt observations recorded in southern Finland

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Gravity and tilt observations (NS & EW) have been recorded in Lohja and Metsähovi geodynamic laboratories in southern Finland during the last decades. Diurnal amplitude and phase factors from gravity and tilt observations obtained using earth tide analysis, have to be corrected using ocean tide loading modelling before NDWF analysis. Deviations between ocean tide loading models exist and they have influence on the NSWF analysis. Ocean tide loading corrections for gravity and tilt factors are small in southern Finland and therefore deviations in correcting terms may give information on the quality of ocean loading models.