$$\vec{b} = \nabla V \tag{43}$$

$$\nabla V = \frac{\partial f}{\partial r}\hat{\vec{r}} + \frac{1}{r}\frac{\partial V}{\partial \vartheta}\hat{\vec{\vartheta}} + \frac{1}{r\sin\vartheta}\frac{\partial V}{\partial \varphi}\hat{\vec{\varphi}} \tag{44}$$

$$V = GM_b\left(\frac{1}{d} - \frac{1}{s} - \frac{r\cos\psi}{s^2}\right) \tag{45}$$

ψ: geocentric zenith angle

$$V = \frac{GM_b}{s} \cdot \sum_{l=2}^{\infty} \left(\frac{r}{s}\right)^l P_l(\cos\psi) \tag{46}$$

Body	r/s	$l_{\max}$
Moon	$1.6 \cdot 10^{-2}$	6
Sun	$4.5 \cdot 10^{-5}$	3
Planets		2

$$P_l(\cos\psi) = \frac{1}{2l+1}\sum_{m=0}^{l} P_{lm}(\cos\vartheta) \cdot P_{lm}(\cos\vartheta_b) \cdot \cos(m\varphi - m\varphi_b) \tag{47}$$