The file Satpos.dat contains the WGS84 coordinates of all satellites in units of km for a 15 minutes time-sampling. Two observers with the WGS coordinates $\mathbf{x_1} = (4.159425301753478 \cdot 10^6, 672934.917, 4.772423756493888 \cdot 10^6)$ and $\mathbf{x_2} = (4.159404458308991 \cdot 10^6, 672972.065, 4.77245255894603 \cdot 10^6)$. receive the pseudo ranges on the freuency f1 = 1575.42MHz. The pseudo ranges are contained in the files PR.dat, PR1.dat. The VTEC at the observers locations is VTEC=86 TECU.

Compute the ionospheric range error for both observers.

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