

Geophysical Research Abstracts,
Vol. 10, EGU2008-A-04567, 2008
SRef-ID: 1607-7962/gra/EGU2008-A-04567
EGU General Assembly 2008
© Author(s) 2008



Tropospheric zenith delay modeling with Fourier transform method

M.alaiebahsh MSc, B.vosoghi Dr

K.N.toosi uiniversity of iran, faculty of geodesy and geomatics

The atmosphere causing the delay in GPS signals. The atmosphere consists of two layer, ionosphere and troposphere. The ionosphere bias can be removed using dual frequency receivers. But troposphere bias is often modeled with standard troposphere modeling. For precise real-time applications itâEURŽs important to recover tropospheric delay estimation. In this paper, has been used Fourier transform method for real-time tropospheric bias modeling. Results indicate that the zenith delay may be modeled with accuracies at the sub-centimeter. This research is based on the tropospheric zenith delay information of five GPS reference stations in Iran. Time series interval is two hour.