

Design of a Ground-based GPS System to Provide Near Real Time Estimates of Precipitable Water Vapor

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The size and scope of permanent, continuously operating networks of GPS receivers will soon rival the current worldwide network of ~600 radiosonde launch sites. A GIS-based system for determination of precipitable water vapor (PWV) offers the added benefit of more frequent estimates of this quantity without the expense of additional radiosonde launches. The availability of additional water vapor estimates could significantly