Low latitude measurements

• Ground based Fabry Perot Interferometers measure zonal neutral wind \((U)\) at low latitudes, coincident with spaced receiver scintillation measurements of zonal plasma drift \((V_i)\)

\[
V_i = \frac{\int_{s1}^{s2} \sigma_p U B ds}{\int_{s1}^{s2} B \sigma_p ds}
\]

• A model based on the Pedersen conductivity \((\sigma_p)\) integrated over a magnetic flux line can predict the plasma drift