



2025-20

Satellite Navigation Science and Technology for Africa

23 March - 9 April, 2009

Why the International community cares about Scintillation

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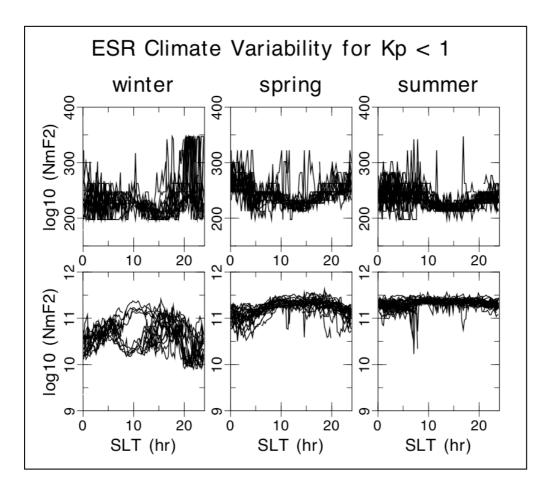


Figure 1. ESR NmF2 (lower panels) and hmF2 (upper panels) for three seasons (winter, equinox, and summer) for Kp < 1 conditions. Each panel contains a superposition of all days that met the Kp and seasonal selection criteria.

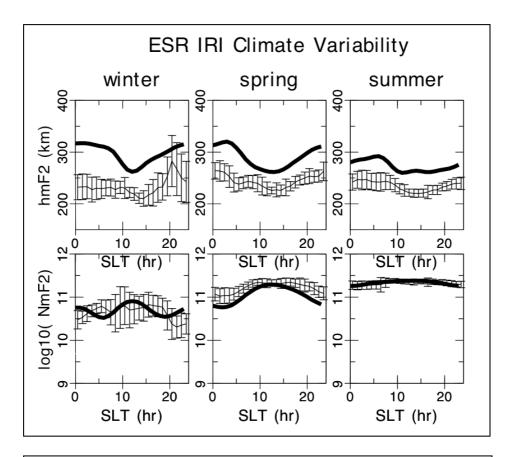


Figure 2. Comparison of IRI's NmF2 (lower panels) and hmF2 (upper panels) with the hourly averaged, Kp < 1, ESR IPY observations for the three seasons. Seasons are ordered from left to right in each row, winter, equinox, and summer.

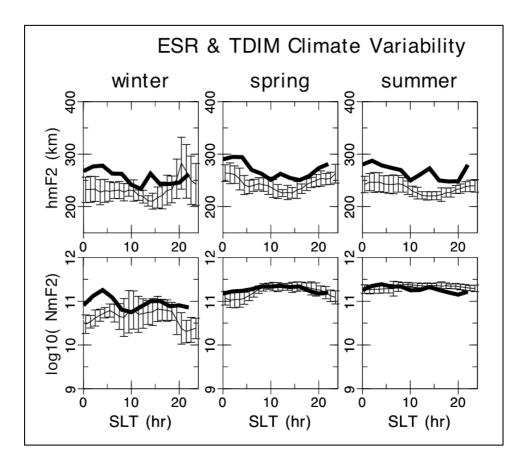
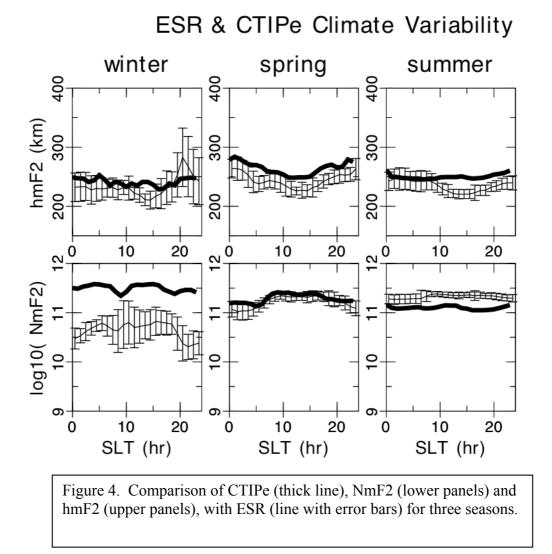
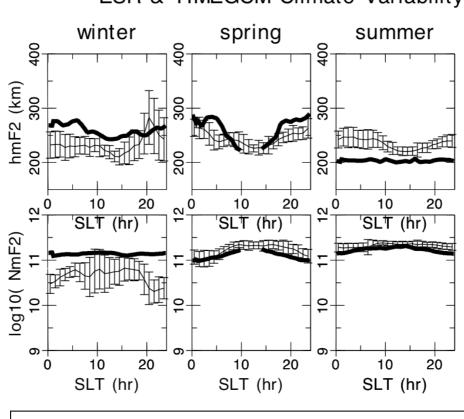


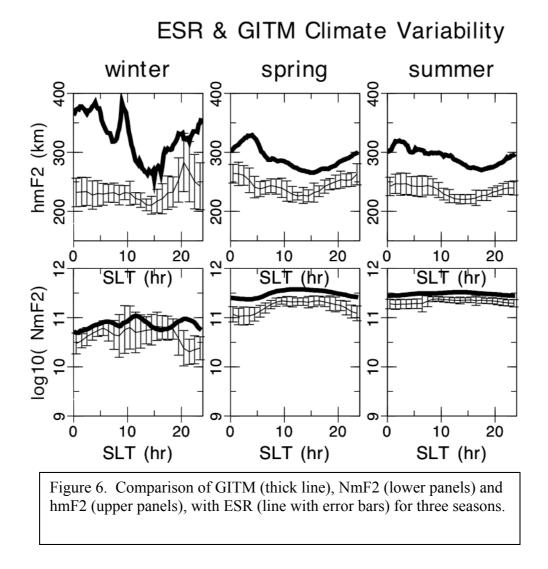
Figure 3. Comparison of TDIM (thick line), NmF2 (lower panels) and hmF2 (upper panels), with ESR (line with error bars) for three seasons.

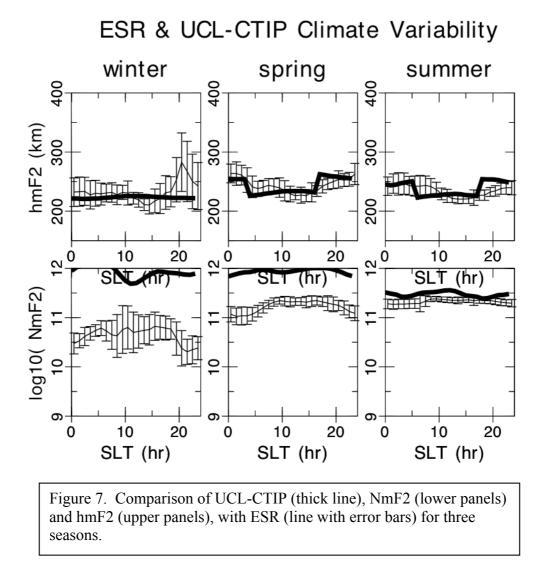


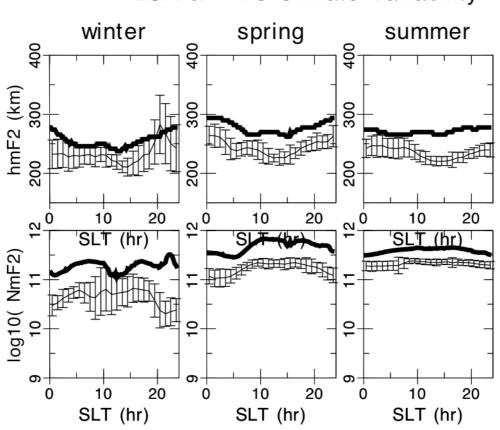


ESR & TIMEGCM Climate Variability

Figure 5. Comparison of TIMEGCM (thick line), NmF2 (lower panels) and hmF2 (upper panels), with ESR (line with error bars) for three seasons.







ESR & PRIC Climate Variability

Figure 8. Comparison of PRIC (thick line), NmF2 (lower panels) and hmF2 (upper panels), with ESR (line with error bars) for three seasons.