Observed Plasmaspheric Ion Densities and Temperatures

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Retarding Ion Mass Spectrometer

1981-1984

Weighted Kp

$$\frac{\sum_{t=-5}^{0} Kp \cdot e^{t \text{ days}/1.5}}{\sum_{t=-5}^{0} e^{t \text{ days}/1.5}}$$

Kp & Weighted Kp Histograms

Kp & Weighted Kp 3-Day Trend Histograms

Kp & Weighted Kp 1-Day Trend Histograms
$H^+$, $He^+$, $O^+$, $He^{++}$, $O^{++}$ Densities
H⁺, He⁺, O⁺, He++, O+++ Temperatures
Density

Temperature
Density

Temperature
Density Ratios
He+/H+
He++/H+
O+/H+
O++/H+
Temperature Ratios
He+/H+
He++/H+
O+/H+
O++/H+