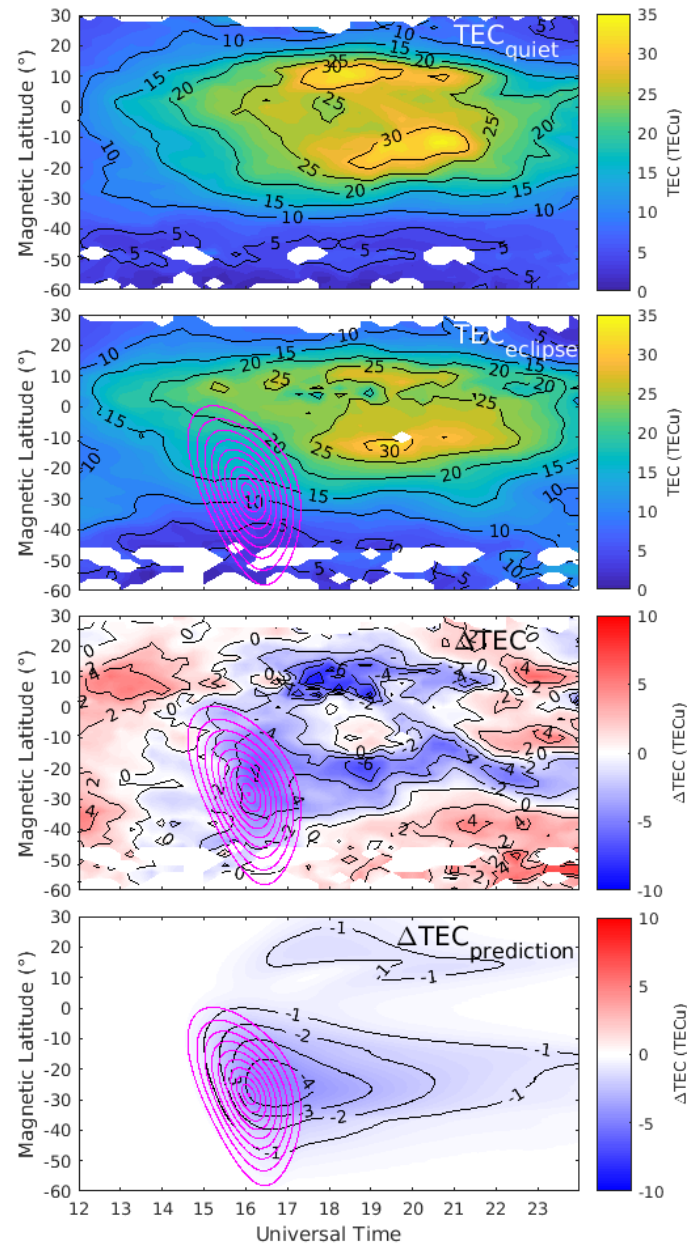
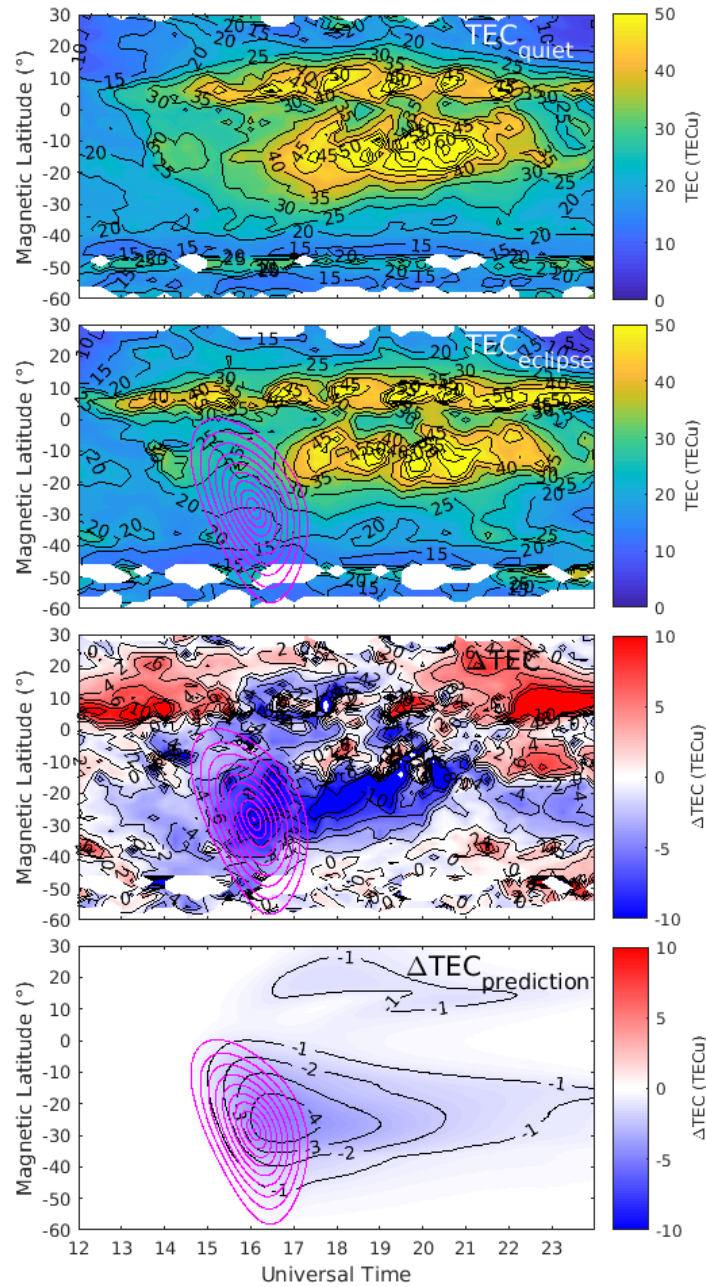


Supplementary Material

1 Supplementary Figures



Supplementary Figure 1. Total electron content response time evolution obtained with the Seemala technique for reference day (top), the December 14, 2020, solar eclipse (middle), and eclipse-modified differences of TEC (ΔTEC , third row) along the magnetic meridian of Chillán (36.6°S , 72.0°W) and the SUPIM-INPE predicted differences ($\Delta N_{\text{prediction}}$, bottom). Evolution of the eclipse obscuration mask at 300 km height each 10% obscuration (magenta lines).



Supplementary Figure 2. Total electron content response time evolution obtained with the Ciraolo technique for reference day (top), the December 14, 2020, solar eclipse (middle), and eclipse-modified differences of TEC (ΔTEC , third row) along the magnetic meridian of Chillán (36.6°S , 72.0°W) and the SUPIM-INPE predicted differences ($\Delta N_{\text{prediction}}$, bottom). Evolution of the eclipse obscuration mask at 300 km height each 10% obscuration (magenta lines).