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thermospheric density at 400 km can increase by as much as 14.6% in under 2 hours because of the flare and takes 12 hours to settle to

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measured by heric Global?scale Observations of the Pimb and Disk (GOLD) exhibited large and long?lived depletions during weak geomagnetic activity in May and June 2019.

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ionospheric response, but the thermospheric response was ?20 min faster for the disk? center flare. Model simulations of I/T responses to an X17 flare on 28 October 2003 were consistent with measurements of TEC and neutral density changes. Page 28/43

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