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extreme ultraviolet (EUV) irradiance now allow models to be driven at higher temporal resolution and with better accuracy than with proxy-based models. Using solar irradiance measurements from the Solar EUV Experiment (SEE) instrument to drive the Global Ionosphere-Thermosphere Model, the global thermospheric response to the 28 October 2003 and 6 November 2004 solar flares is presented.

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...

Experiment (SEE) instrument to drive the Global Ionosphere-Thermosphere Model, the global thermospheric response to the 28 October 2003 and 6

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November 2004 solar flares is presented. The model indicates that the 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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The model indicates that the thermospheric density at 400 km can increase by as much as 14.6% in under 2

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hours because of the flare and takes 12 hours to settle to close to a nominal state. Intense dayside heating launches nightward propagating gravity waves that transport energy efficiently to the nightside at velocities near the local sound speed plus the bulk wind velocity.

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We conduct observational and modeling studies of thermospheric composition responses to weak geomagnetic activity (nongeomagnetic storms). We found that the thermospheric O and N₂ column density ratio ($\Sigma O/N_2$) in part of the Northern

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

~~The Two-Dimensional Evolution of Thermospheric $\Sigma O/N_2$...~~

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. Citation: Qian, L., A. G.

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~~Flare location on the solar disk: Modeling the ...~~

To simulate the response, a coupled thermosphere ionosphere model was driven by an empirical substorm model designed to follow the various phases of the substorms. By tuning the magnitude of the energy injection and, in one case, rotating the spatial distribution of the sources, both the wave features on the day and nightside, and the neutral density holes were reproduced.

~~Modeling thermospheric neutral density waves and holes in ...~~

Thermospheric response to ion heating Our aim is to use the model described above to reproduce the

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neutral density enhancements observed by Lühr et al. (2004) . An issue of key importance is how to introduce the heating necessary to cause thermospheric upwelling.

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Modeling the Ecological Response of a Temporarily Summer-Stratified Lake to Extreme Heatwaves . by Weiyu Chen 1,2,*, Anders Nielsen 2, Tobias Kuhlmann Andersen 2,3, Fenjuan Hu 2, Qingchuan Chou 2,4,5, Martin Søndergaard 2, Erik Jeppesen 2,3 and Dennis Trolle 2,3. 1.

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Here we address this question by exploring theoretically the processes that determine the MLT wind response to storms at middle latitudes. During

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the early phase of the storm, the middle-latitude upper thermospheric wind changes are greater and occur earlier than those in the MLT region.

~~A Modeling Study of the Responses of Mesosphere and Lower ...~~

Published by the American Geophysical Union as part of the Geophysical Monograph Series, Volume 201. Modeling the Ionosphere-Thermosphere System brings together for the first time a detailed description of the physics of the IT system in conjunction with numerical techniques to solve the complex system of equations that describe the system, as well as issues of current interest.

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Only recently have studies been performed to quantify the thermospheric response to flares using

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observations and modeling [e.g., Sutton et al., 2006; Liu et al., 2007; Pawlowski and Ridley, 2008 ...

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