

INSENSITIVITY OF GLOBAL TEMPERATURE RESPONSE TO THE MAGNITUDE OF VOLCANIC ERUPTIONS

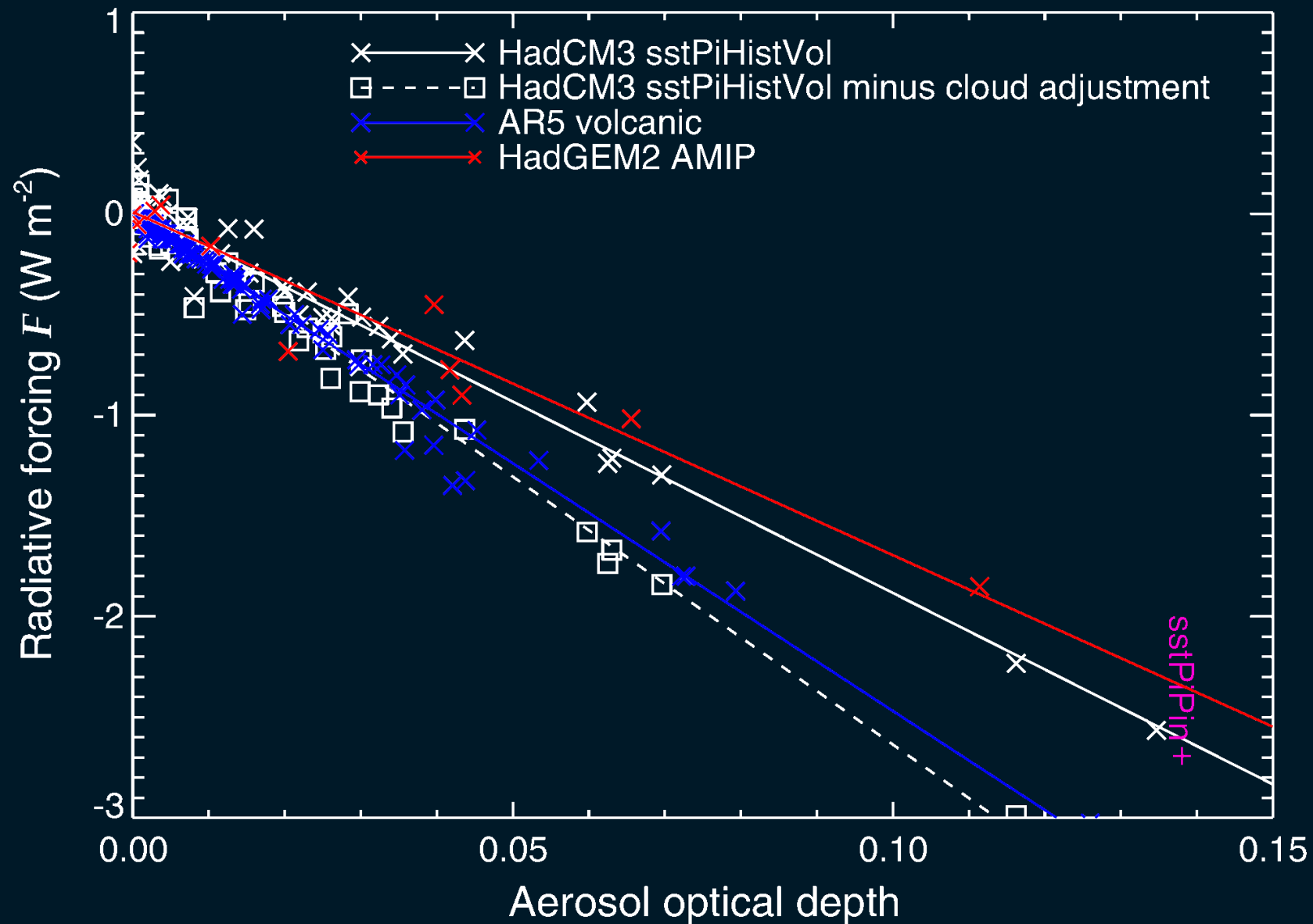
In EGU session "Understanding volcano-climate impacts and the stratospheric aerosol layer"



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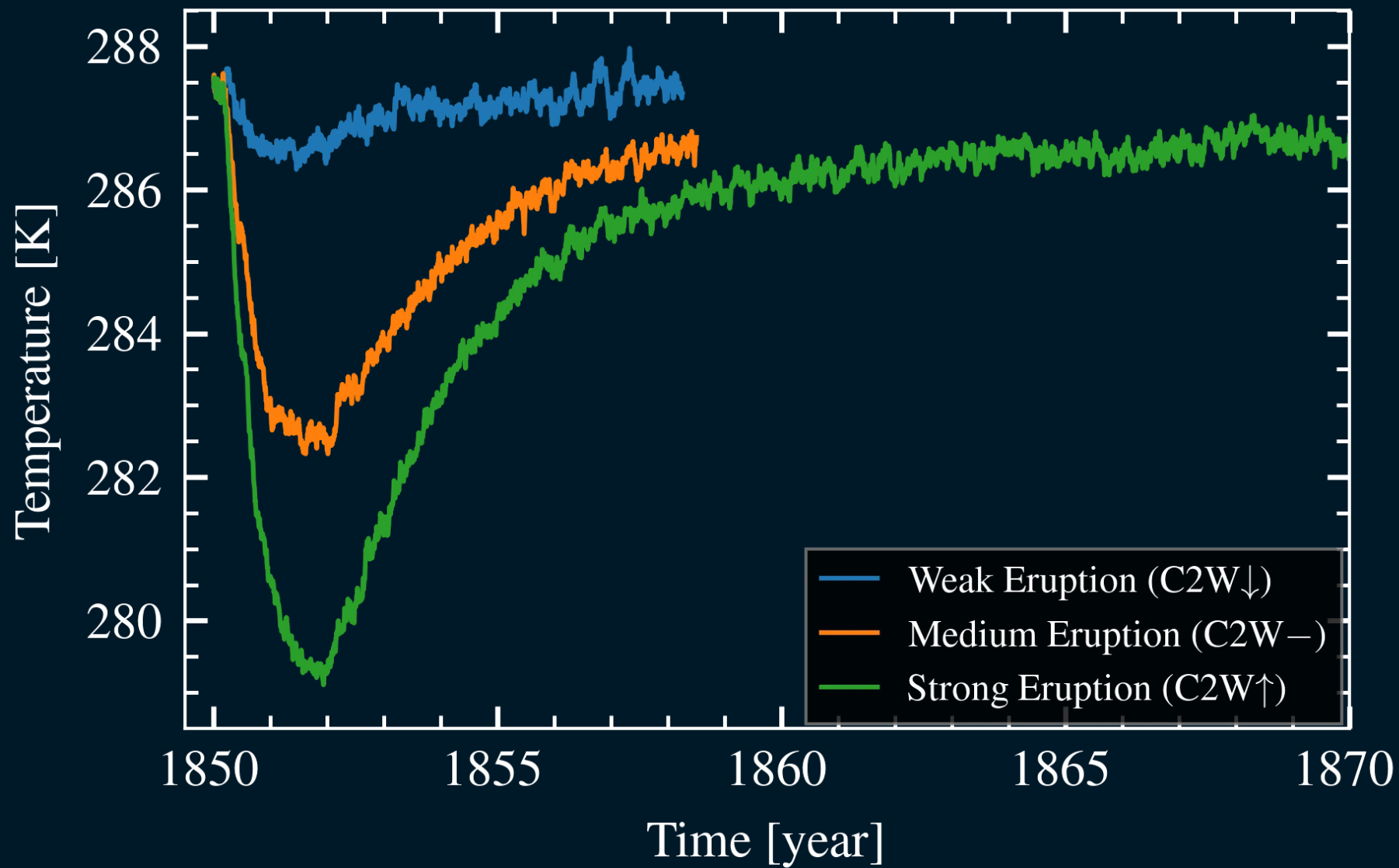


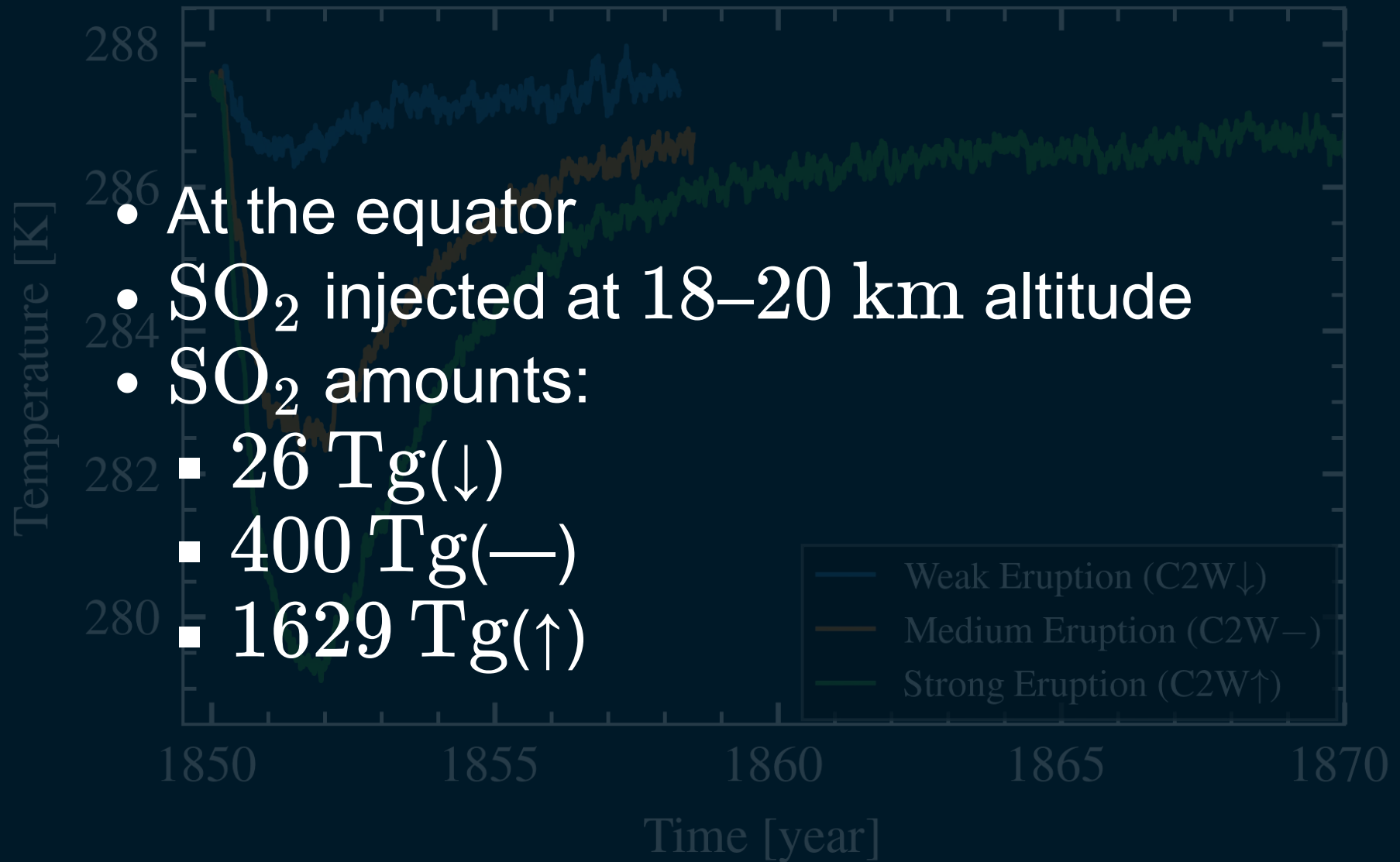
Figure from Gregory et al. (2016)

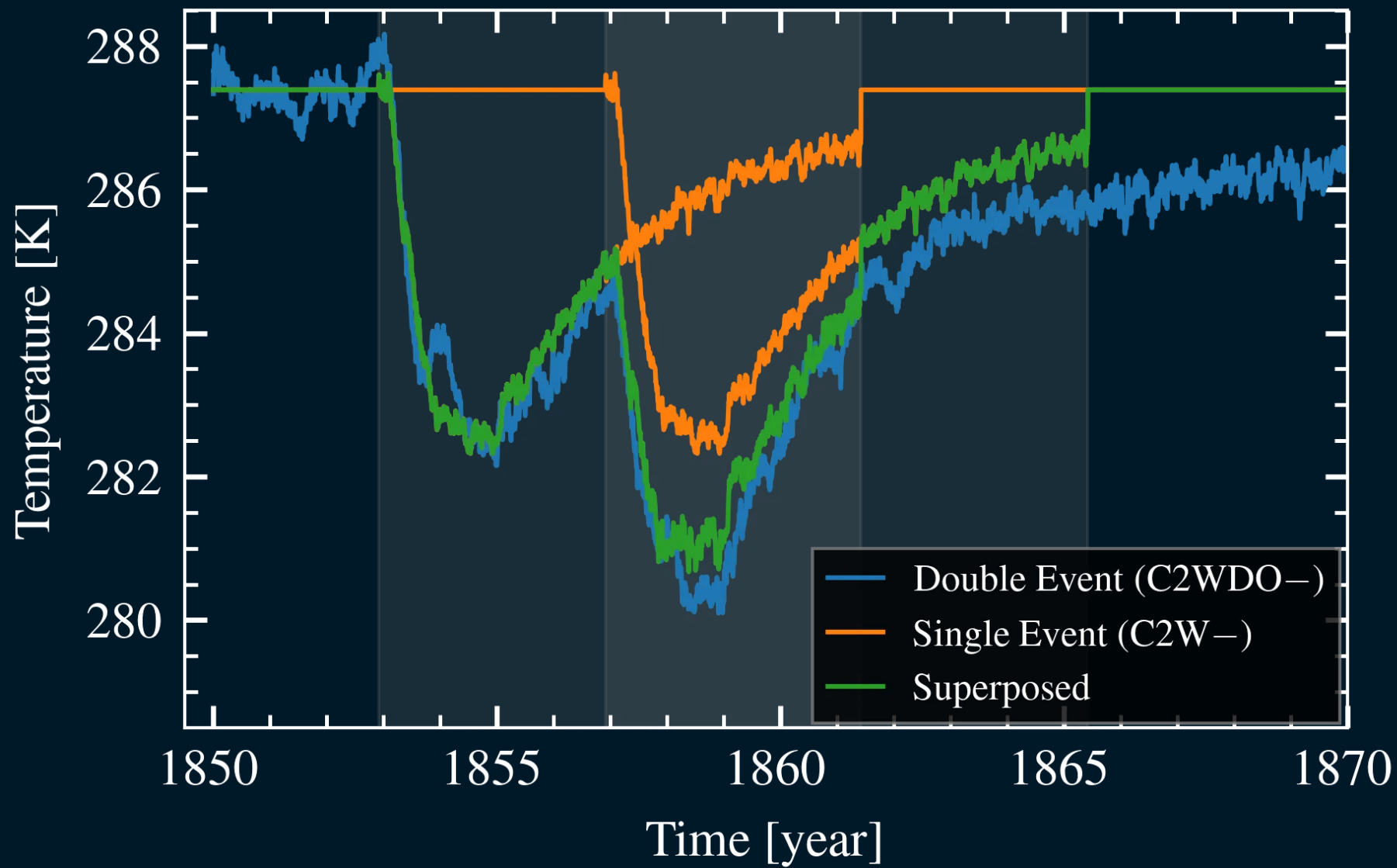


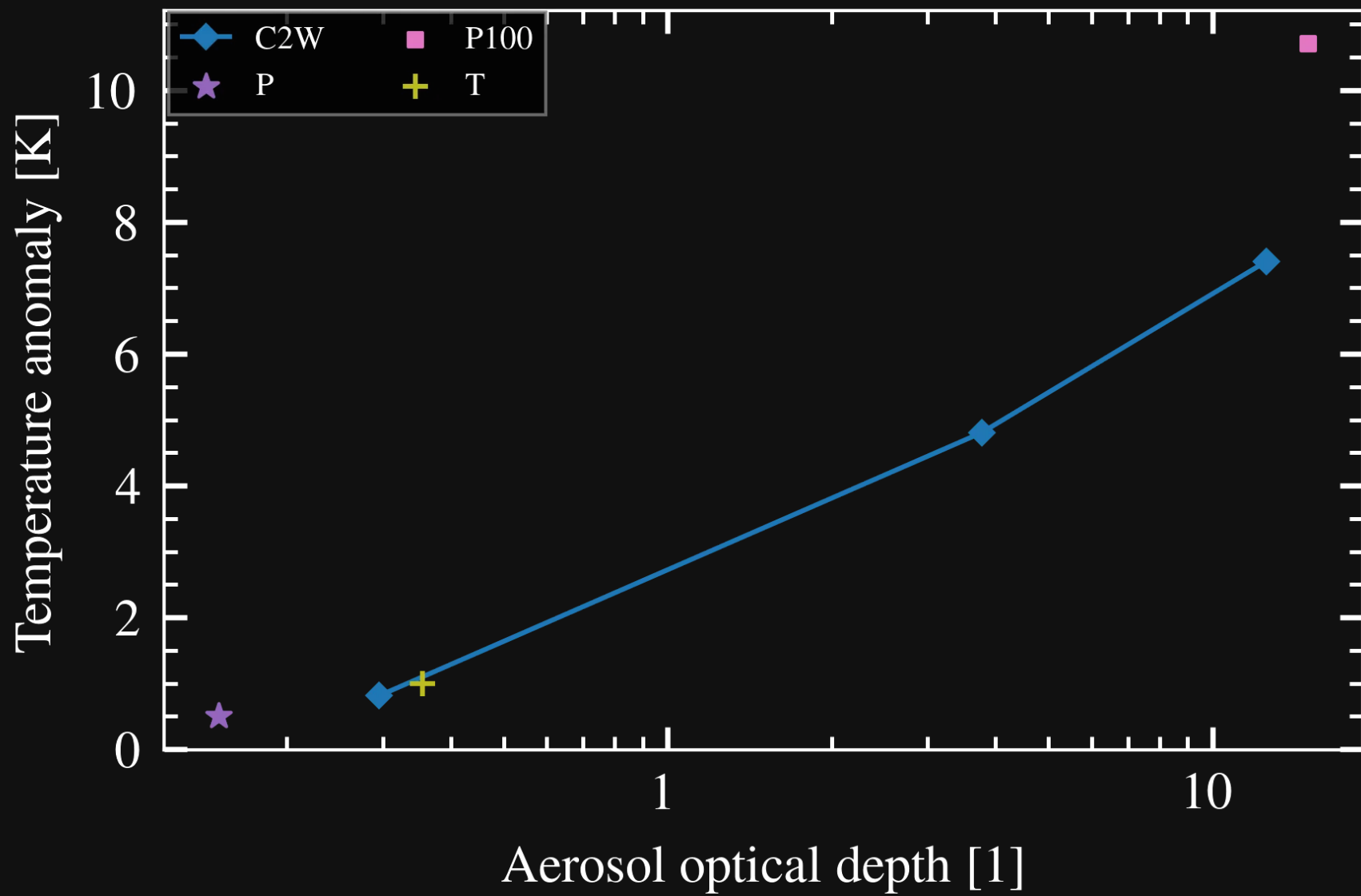
SIMULATIONS

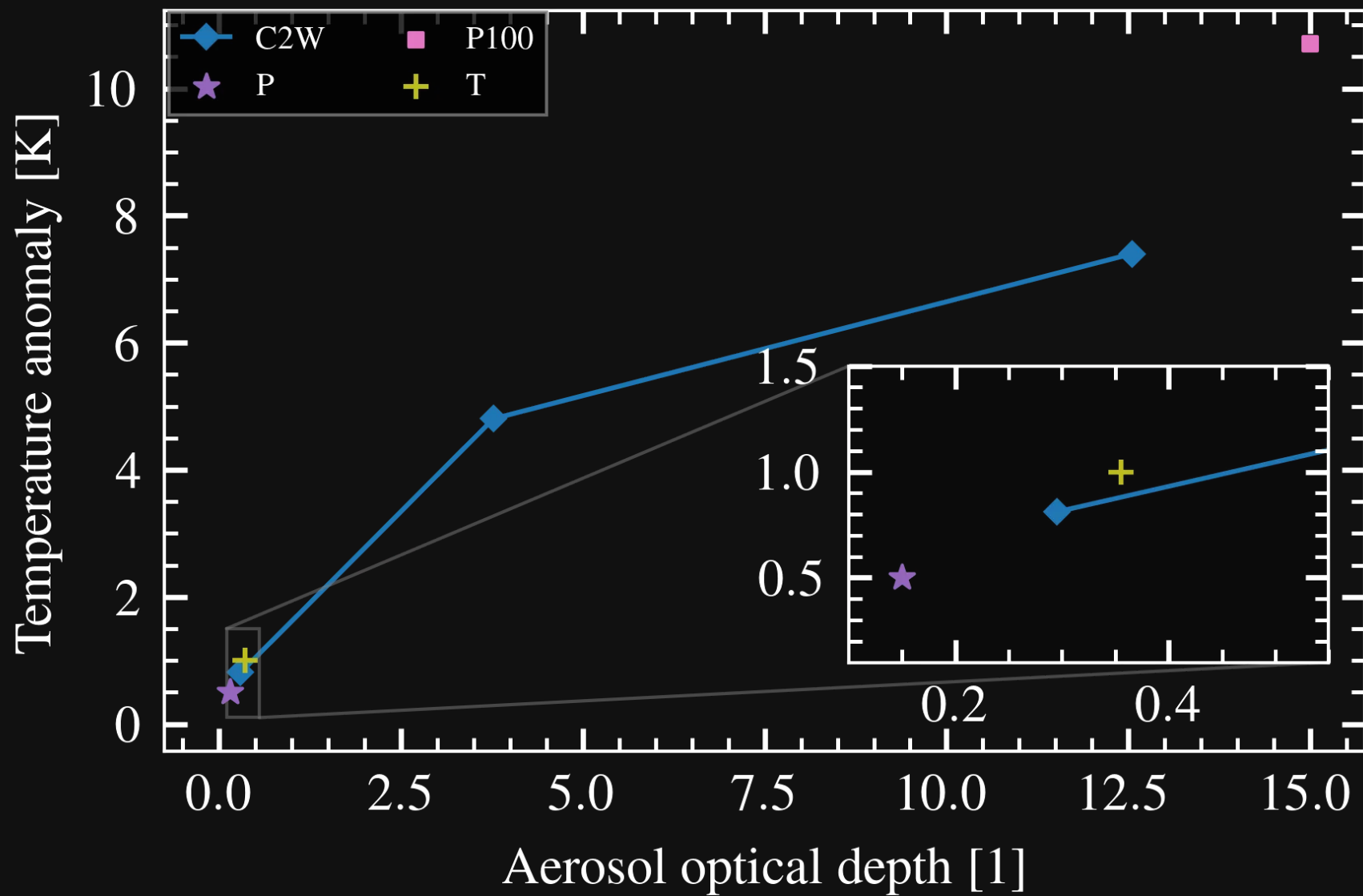
- CESM2 (Community Earth System Model, version 2.1.3)
- WACCM6 atmosphere
- Dynamic ocean and prescribed sea-surface temperature conditions (AOGCM & AGCM)

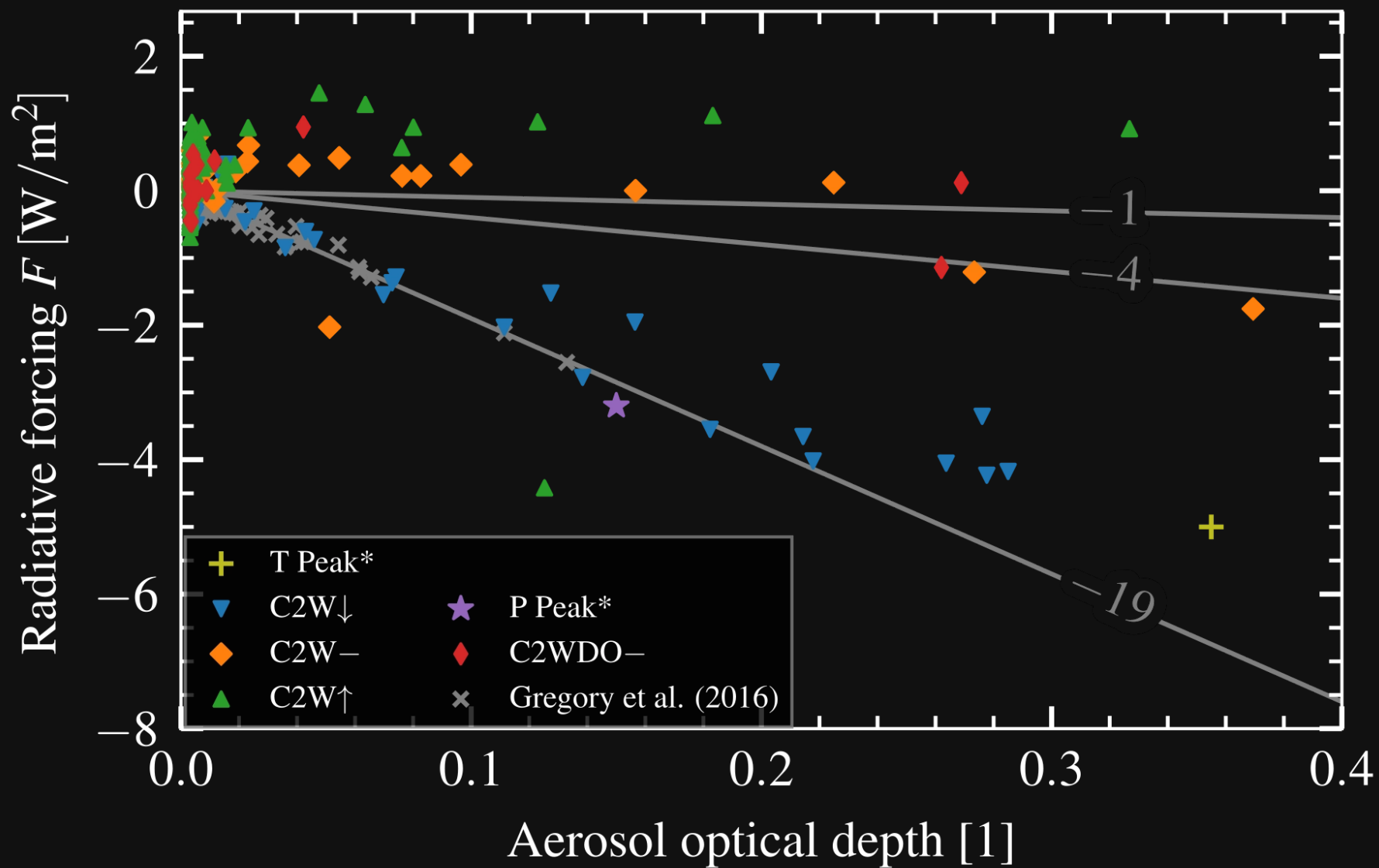


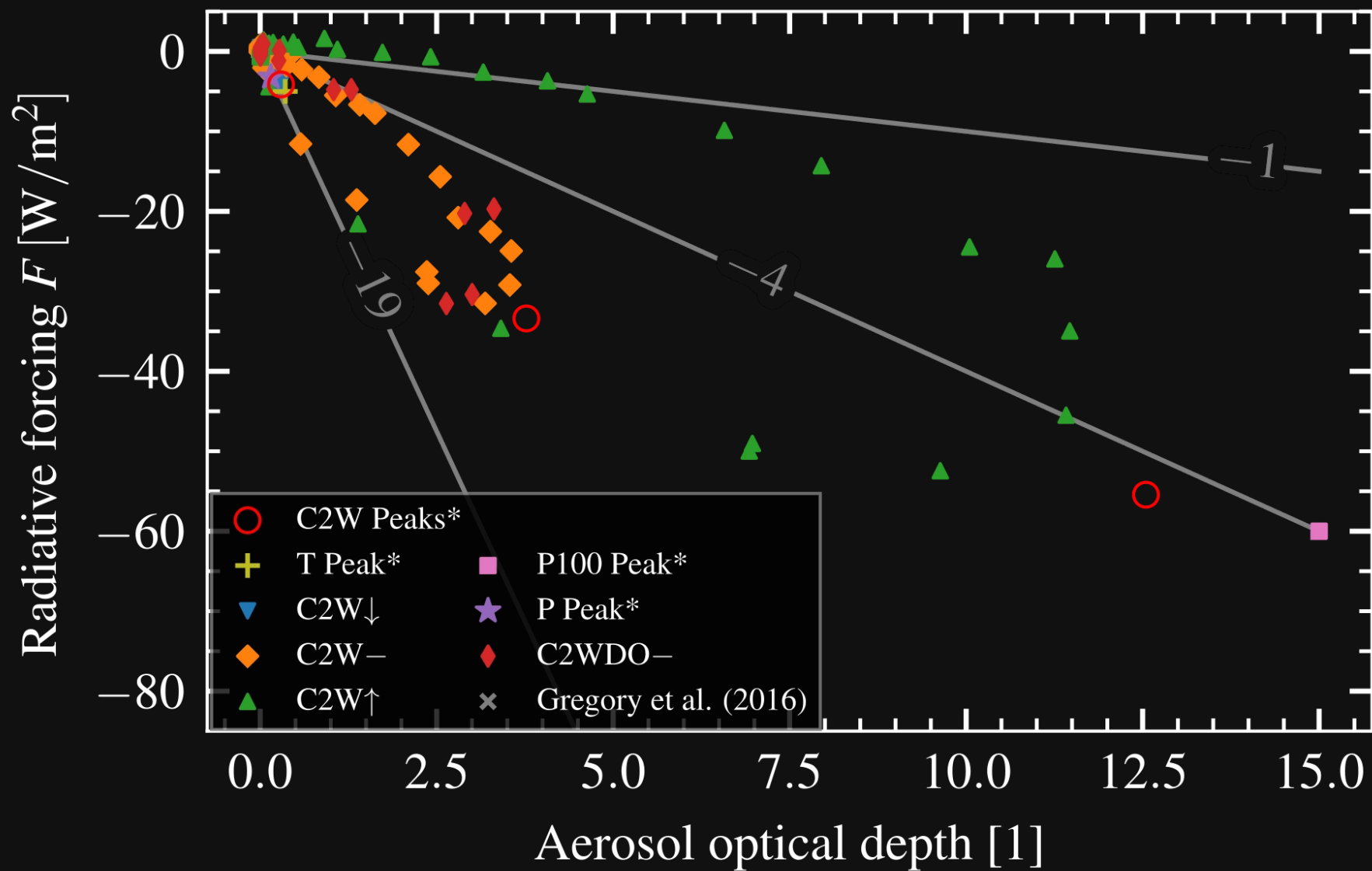












LINKS

The slides can be viewed both with ([HTML](#), [PDF](#))
and without ([HTML](#), [PDF](#)) speaker notes.

[Link](#) and QR code to the conference abstract
information:



REFERENCES

- Sukhodolov, T., J.-X. Sheng, A. Feinberg, B.-P. Luo, T. Peter, L. Revell, A. Stenke, D. K. Weisenstein, and E. Rozanov. 2018. “Stratospheric Aerosol Evolution After Pinatubo Simulated with a Coupled Size-Resolved Aerosol–Chemistry–Climate Model, SOCOL- AERv1.0.” *Geoscientific Model Development* 11 (7): 2633–47. <https://doi.org/10.5194/gmd-11-2633-2018>.
- Toohey, M., and M. Sigl. 2017. “Volcanic Stratospheric Sulfur Injections and Aerosol Optical Depth from 500 BCE to 1900 CE.” *Earth System Science Data* 9 (2): 809–31. <https://doi.org/10.5194/essd-9-809-2017>.

