



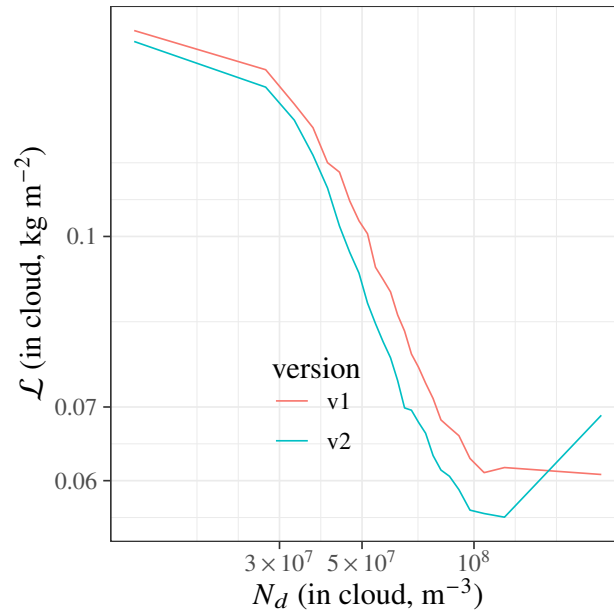
*Supplement of*

## **Can general circulation models (GCMs) represent cloud liquid water path adjustments to aerosol–cloud interactions?**

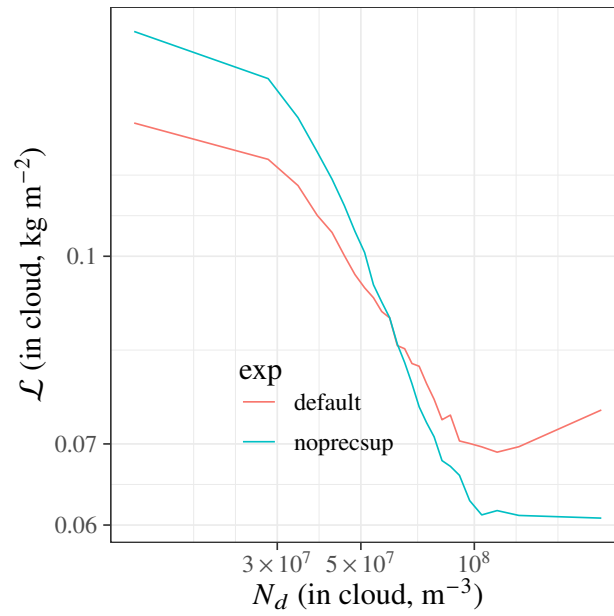
**Johannes Mülmenstädt et al.**

*Correspondence to:* Johannes Mülmenstädt ([johannes.muellenstaedt@pnnl.gov](mailto:johannes.muellenstaedt@pnnl.gov))

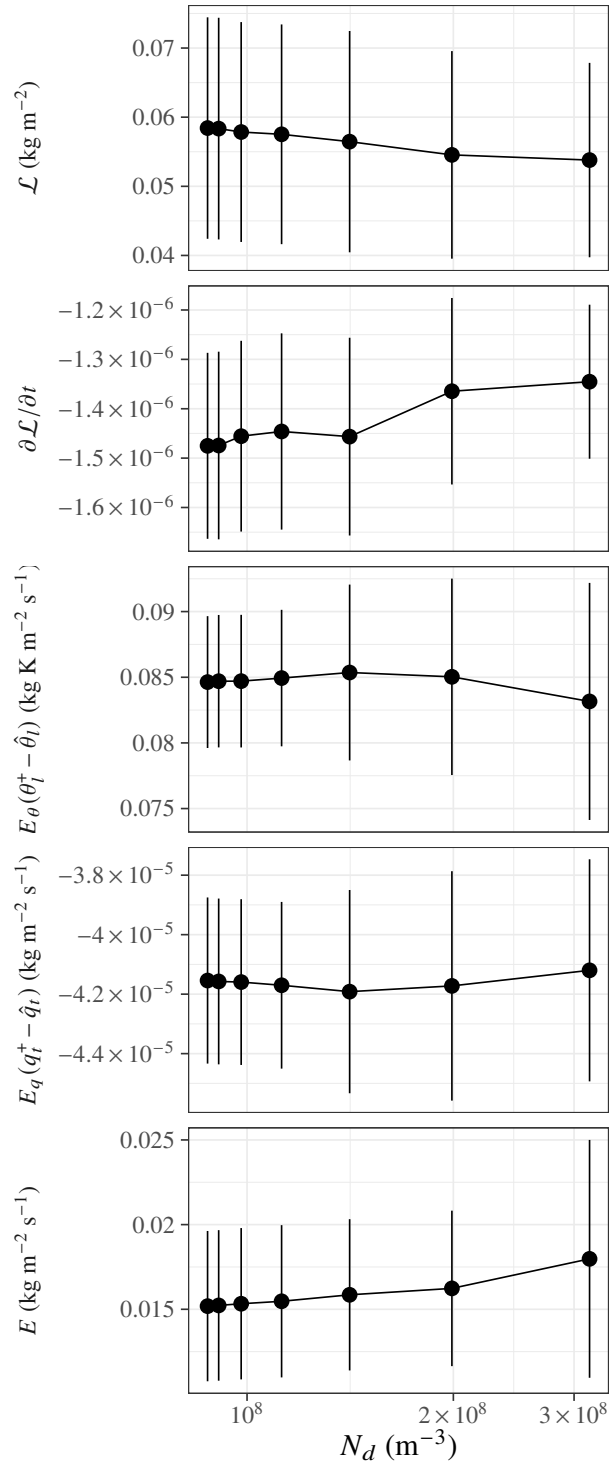
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**Figure S1.**  $N_d$ - $\mathcal{L}$  relationship (E3SMv1/v2 comparison).



**Figure S2.**  $N_d$ - $\mathcal{L}$  relationship (default/noprecsup comparison).



**Figure S3.** E3SM SCM  $N_d$  relationships. As in Fig. 6.