

# Supporting Information for “The spatial heterogeneity of cloud phase observed by satellite”

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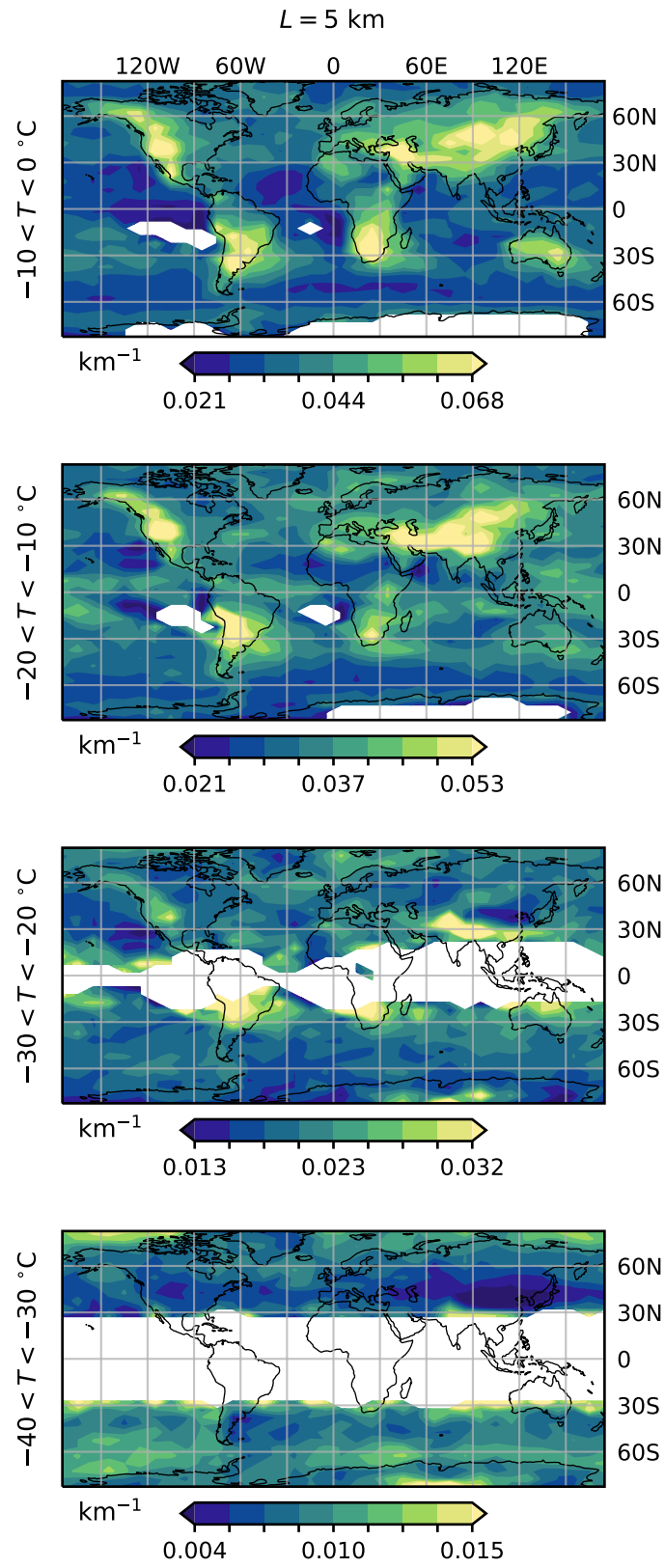
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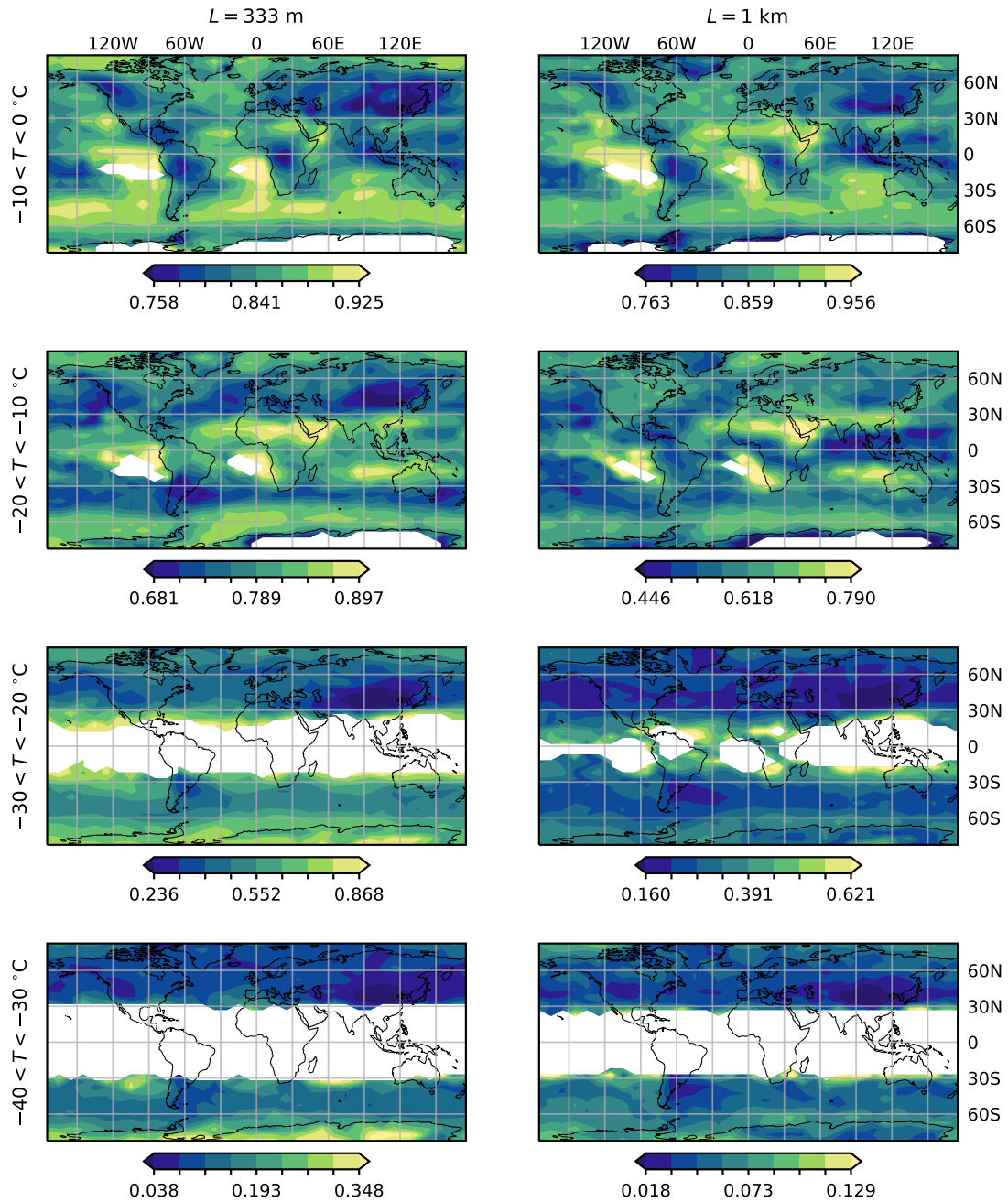
## Contents of this file

1. Figures S1 to S4

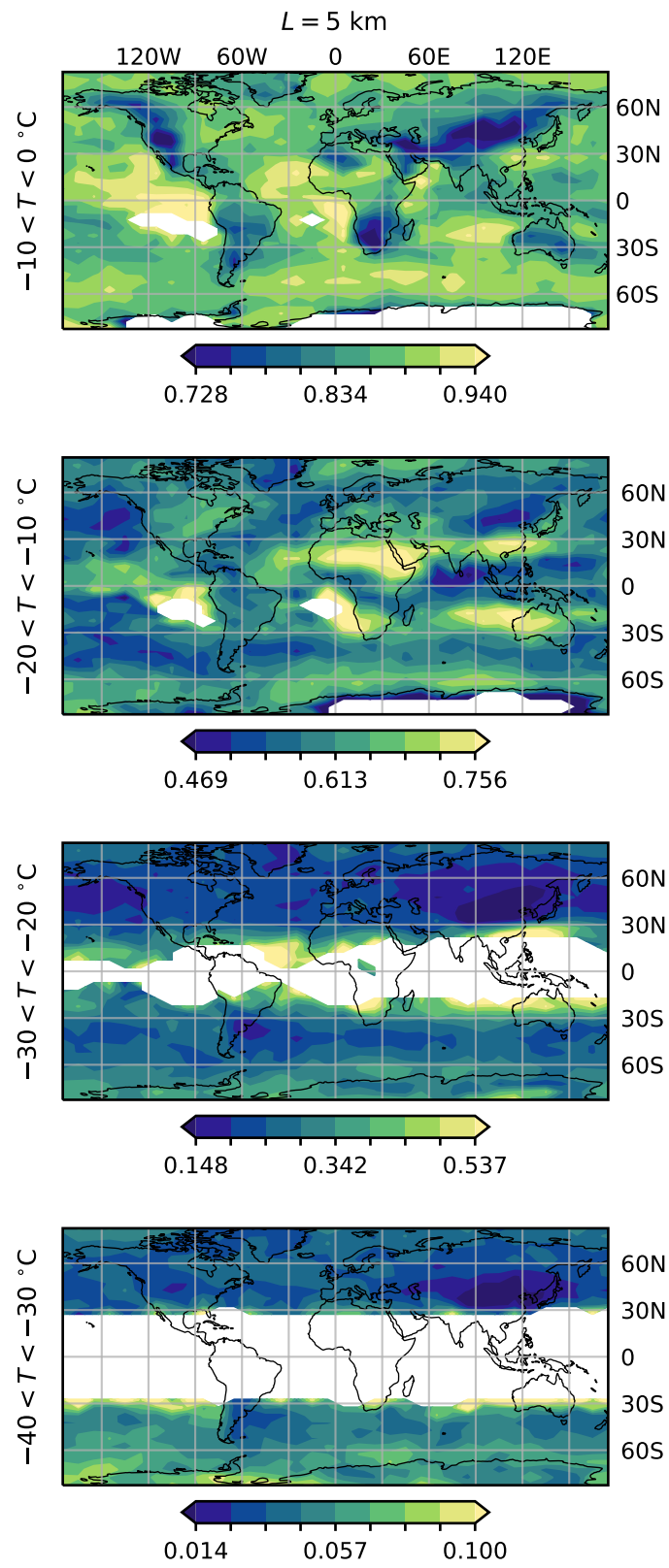
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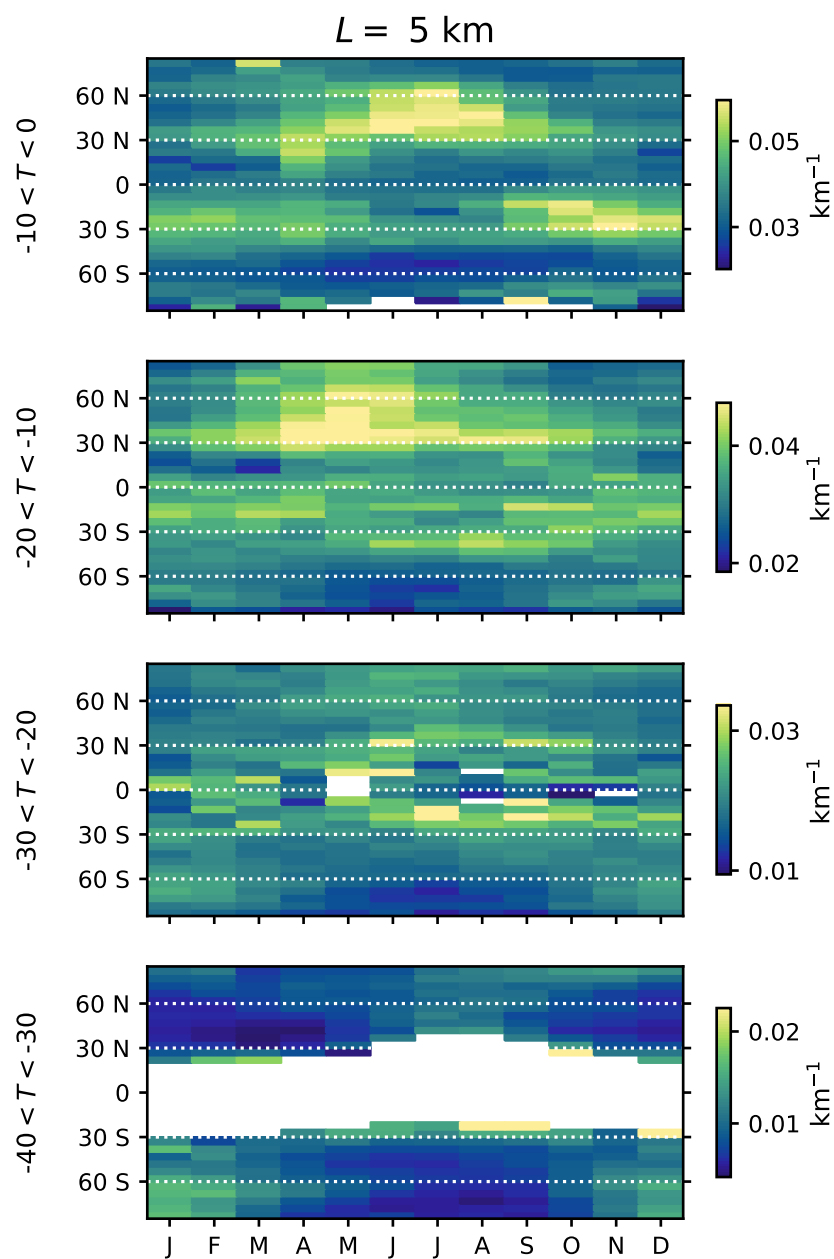
**Figure S1.** As in Figure 4 but for  $L = 5 \text{ km}$ .



**Figure S2.** Mean LCF binned by temperature (rows;  $10^\circ\text{C}$  bin width) for  $L = 333$  m (left) and  $1$  km (right). Values are only shown for grid boxes containing  $2 \times 10^4$  or more cloud phase retrievals over the 3-year study period. Color scales vary for each map to highlight spatial variability.



**Figure S3.** As in Figure S2 but for  $L = 5 \text{ km}$ .



**Figure S4.** As in Figure 5 but for  $L = 5 \text{ km}$ .