

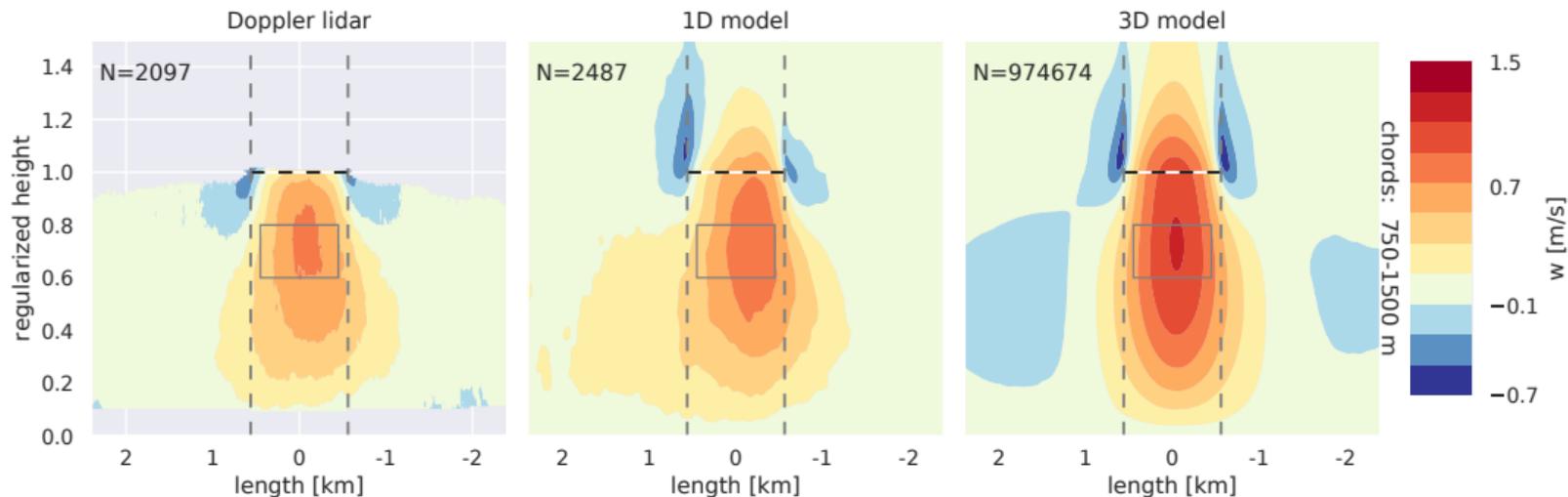
Size decompositions of observed and simulated ShCu

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Question

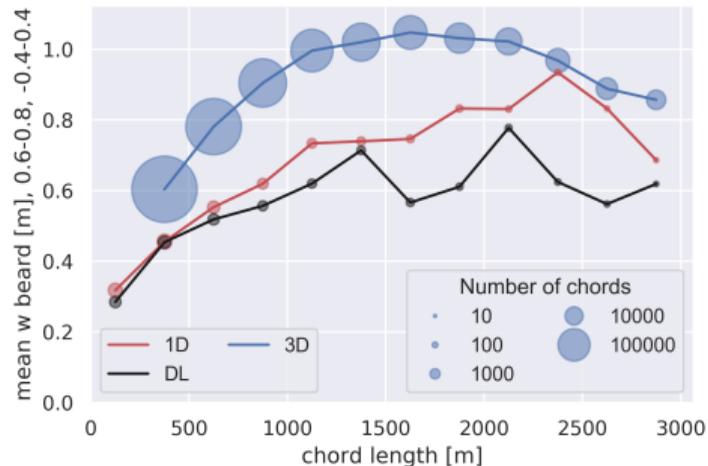
Will statistics of regularized lidar cloud chords agree with LES at the SGP site?



Size decompositions of observed and simulated ShCu

Main results

- ▶ Modelled and observed vertical velocity and moisture anomalies agree well, are size dependent.
- ▶ Temporally sampled chords (1D, lidar) have weaker updrafts and are more asymmetric.
- ▶ Full results available in ACP discussions, undergoing minor revisions.



Ongoing: Evaluating multi-plume parametrizations

- ▶ 3D plumes are clustered from LES snapshots using surface emitted tracer
- ▶ Clusters qualitatively confirm relationship of size, height, vertical velocity profiles used by $ED(MF)^n$

