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Microphysical properties of various precipitation systems worldwide classified via objective methods based on dual-frequency precipitation radar observations

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Media

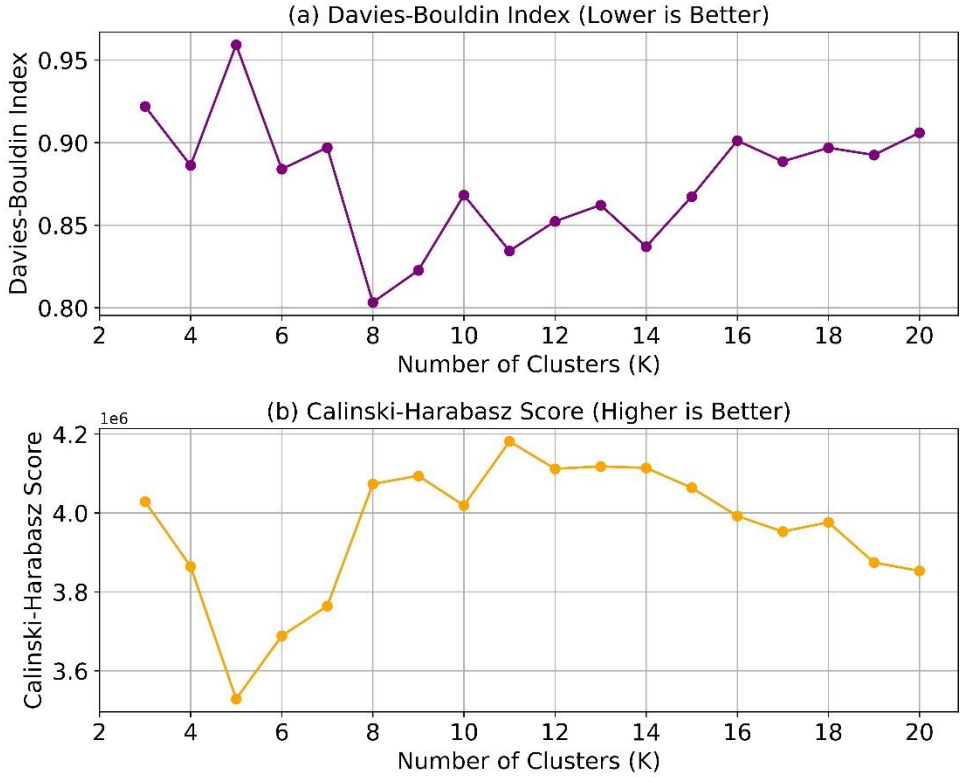

Fig. S1. Changes in DB index and CH sorce with the number of clusters from 2 to 20.

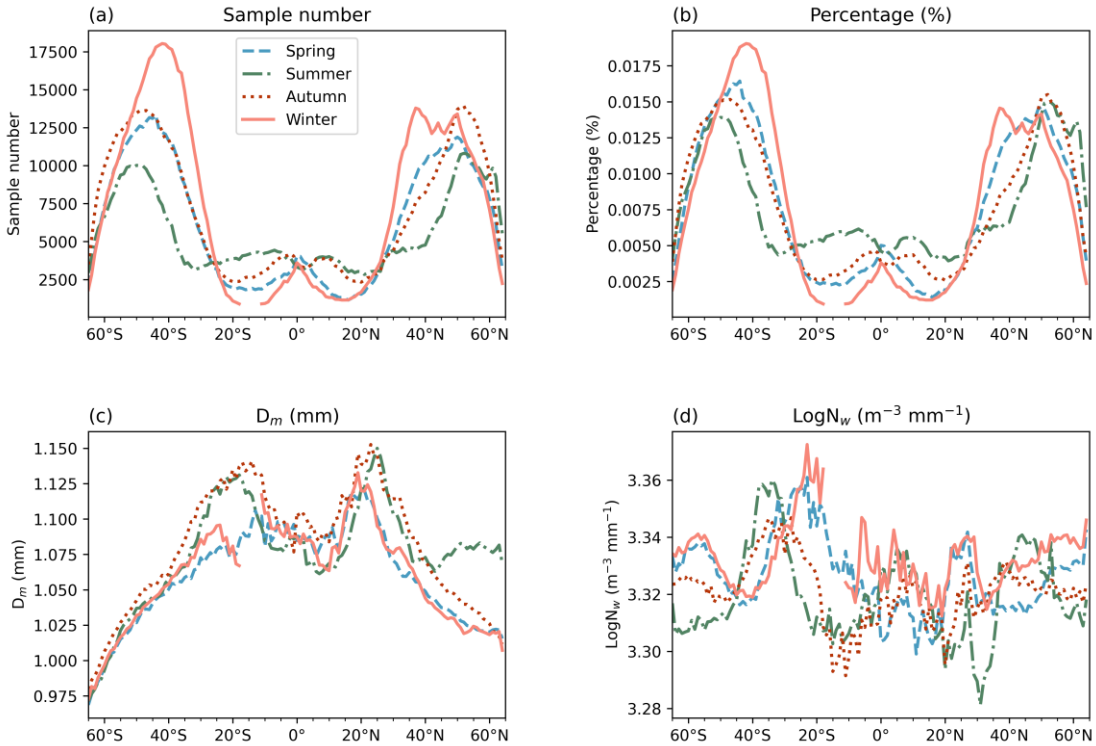

Fig. S2. Changes in (a) the number of samples, (b) percentage of precipitation systems reaching 2.5 km in echo top height, (c) the mass-weighted mean diameter (D_m), and (d) the normalized intercept parameter (N_w) with latitude for High-latitude shallow PS. (Latitudes will be excluded if their sample size does not reach 0.002 of the total sample sizes.)

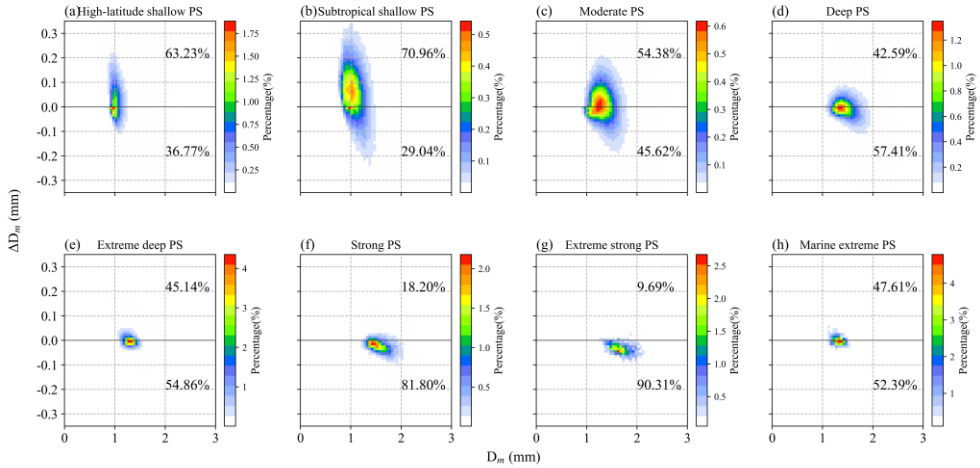

Fig. S3. Two-dimensional probability density functions of D_m at 3 km and ΔD_m between 2 km and 3 km for the different PSs.