

High intensity isolated precipitation features

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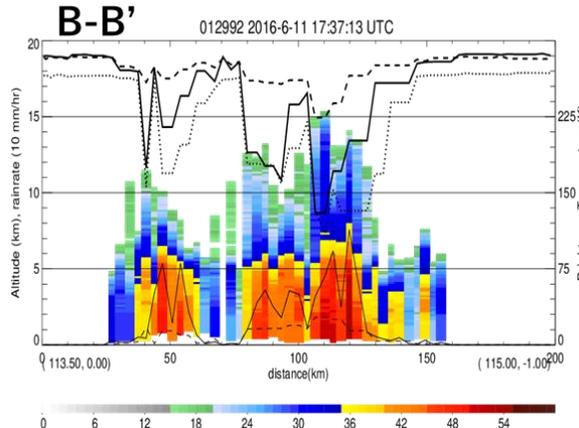
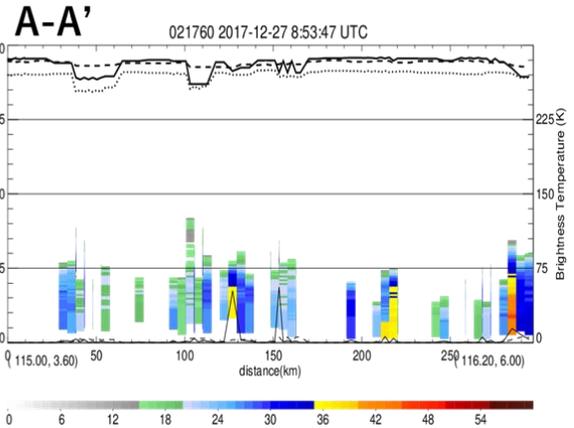
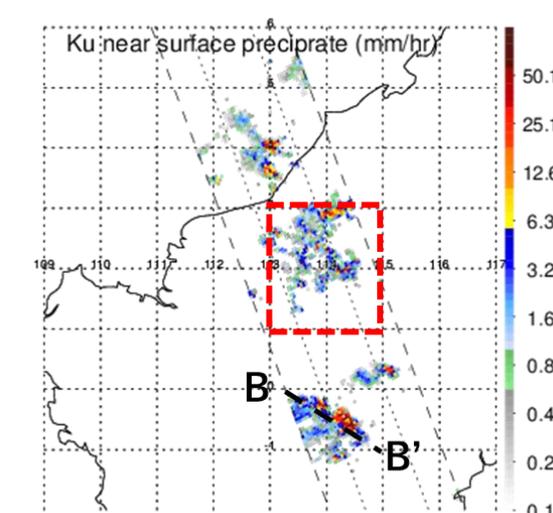
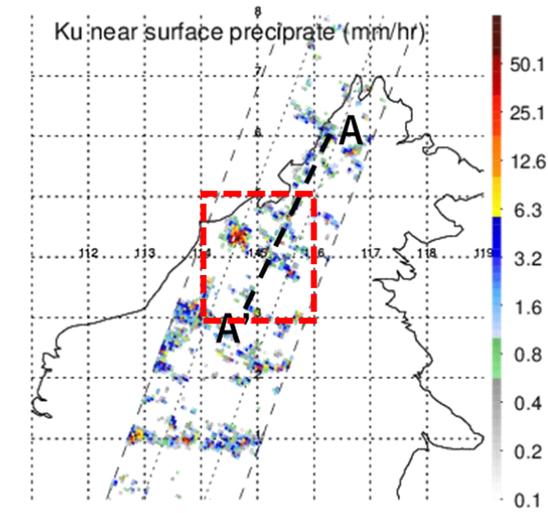
Chuntao Liu (Texas A&M University Corpus Christi)

Definition (over 2x2 degree box):

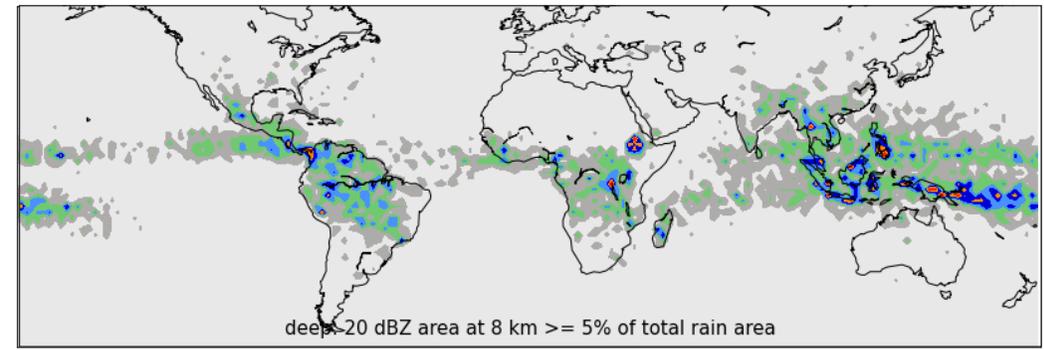
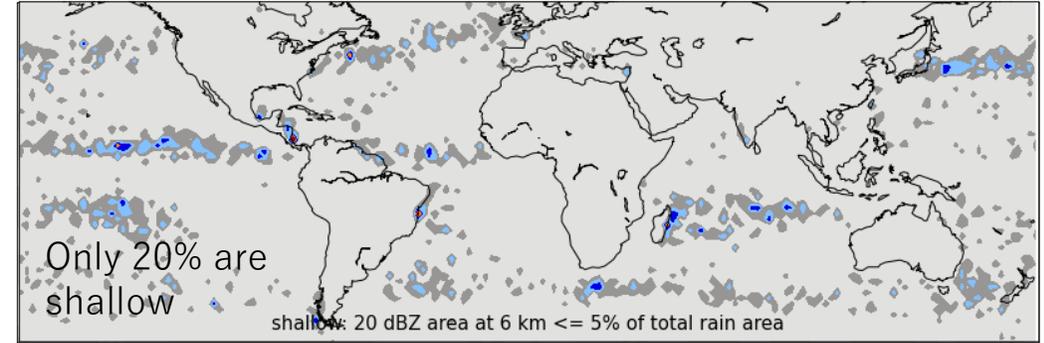
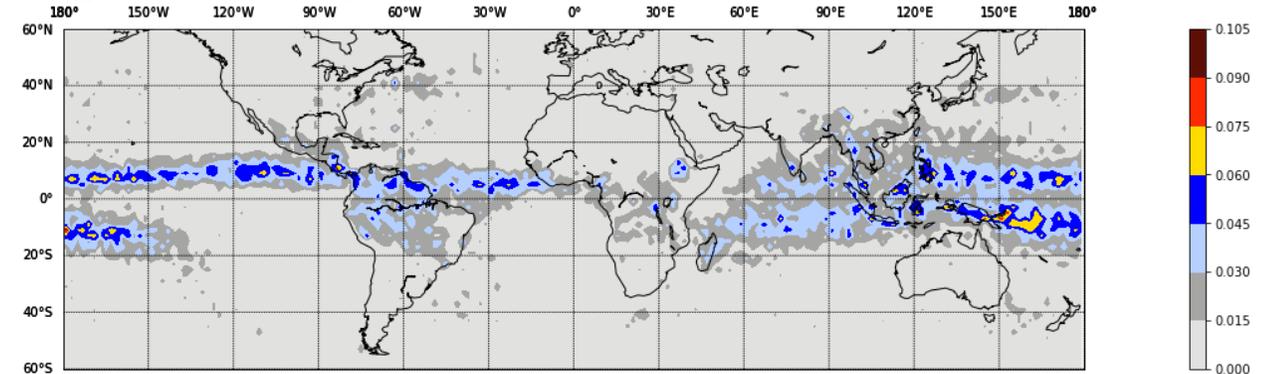
- Total Precipitation Volume $\geq 8,500$ mm/h km² (90th percentile)
- Number of PFs ≥ 5
- Largest PF ≤ 3 times the average area of PFs

Isolated (47,596 mm/hr · km²)

Organized (47,379 mm/hr · km²)



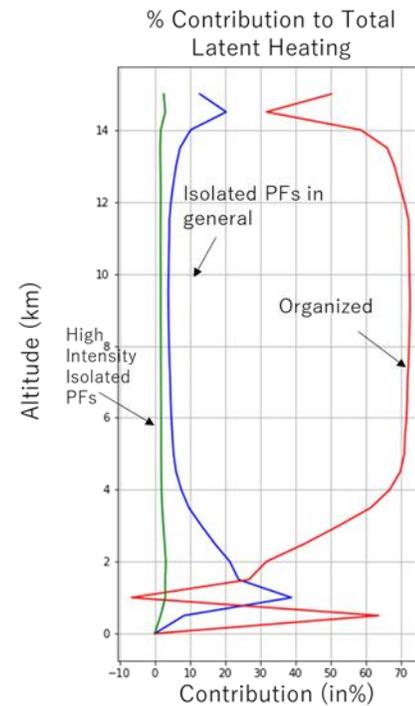
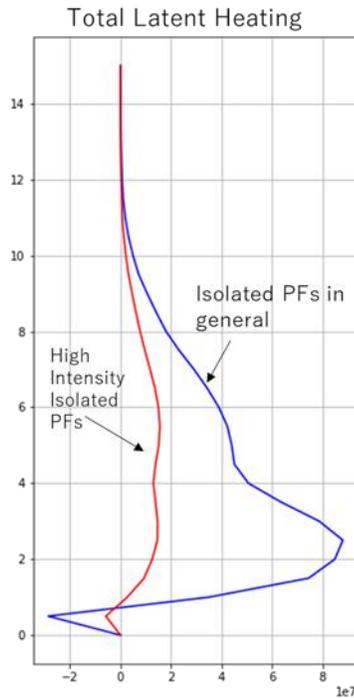
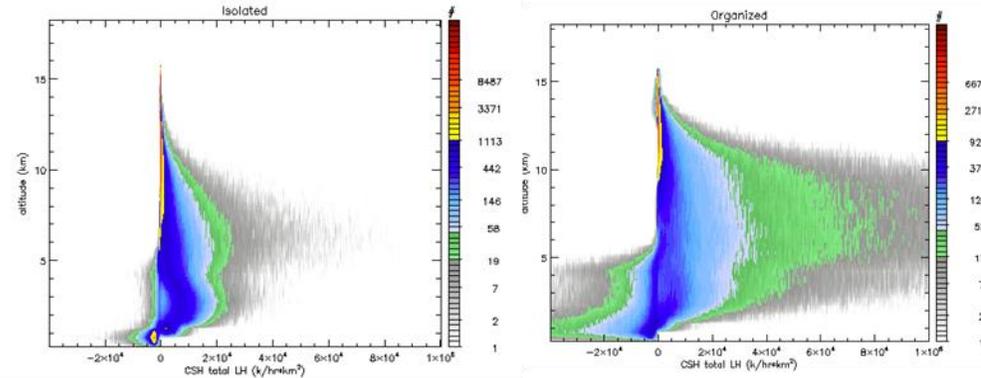
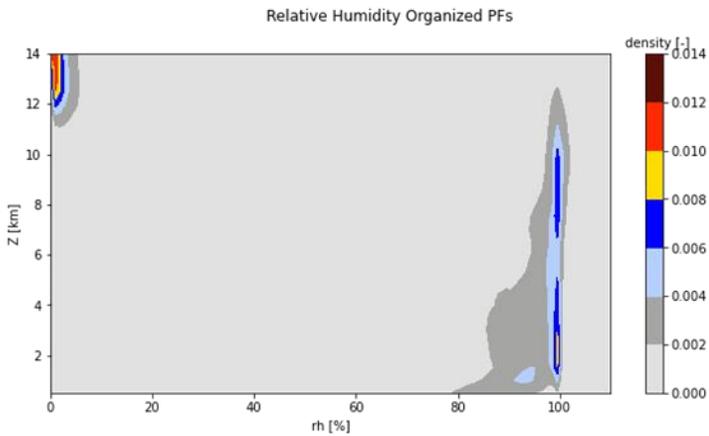
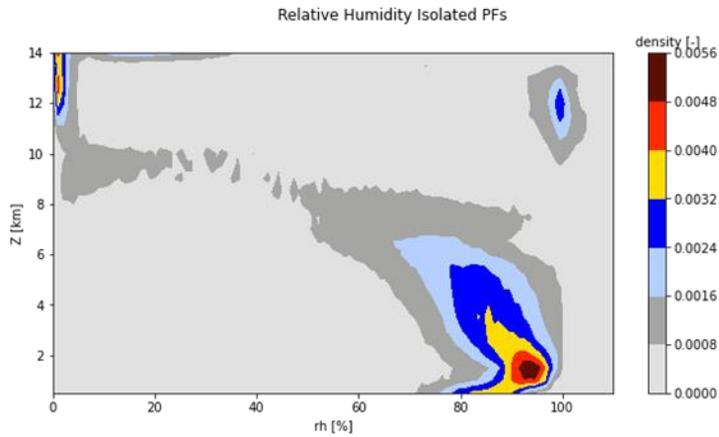
High intensity vs. broad definition of isolated PFs



What kind of environment favors the formation?

(From ERA5 Reanalysis)

Latent heating



Vertical velocity, CAPE, etc.

