Data and Analysis (continued)


Transition 1: October 26
Transition times: 11:15 UTC – 18:30 UTC, 22:45 – 25 UTC, 31:15 – 35:45 UTC

October 26: Image 3a shows a period shortly before the transition begins; this would be classified as closed-cellular. Images 3b – c show an evolution of the transition. At 3b, the clouds are breaking up and there is a clear line between broken and unbroken cloud structures. At 3c, the clouds continue to break up at the southwestern half of the domain. Figure 3d shows the primarily broken clouds.


Conclusions

- The October 23 transition had more than 40 times more drizzle cells at the beginning of the transition than at the end.
- There is more and stronger drizzle in closed-cellular drizzle as compared to open-cellular periods.
- During the October 26-27 and November 13-14 transition periods cell area, cell count, and reflectivity were all positively correlated and reached their respective maxima at the same times.
- The transition on October 23 differed in that cell area and reflectivity distribution were positively correlated and had maximum values near the middle of the transition period.

Acknowledgements
I would like to thank Matthew Miller and the Clouds and Precipitation Processes and Patterns Group.