**MR3252: Tropical Meteorology**

Note-Taking Questions for Lecture Series 1

1. How does environmental humidity affect vertical growth of cumulus and cumulonimbus clouds?
2. How does the vertical profile of temperature affect vertical growth of cumulus and cumulonimbus clouds?
3. Why does more lightning occur over central Africa or South America than over the adjacent, equatorial oceans?
4. How does the sea surface temperature impact convective development? How does the wind speed near the surface do so in terms of its effect on fluxes?
5. Where are the largest annual precipitation totals on Earth generally found?
6. How does deep, moist convection stabilize the atmosphere?
7. What are the three modes in the vertical distribution of tropical convection? Why are there three modes?
8. Q1 and Q2 are not really measurable physical parameters. What do they represent, and when would you use these to interpret the atmosphere?