Deep, moist convection: Free bouyant ascent of potentially bouyant low-level air.

* Conditionally unstable environment
* Potentially bouyant (warm, moisl) low level air
* Dynamical forcing to overcome convective inhibition

A: Lifting Condensation Level (LCL)
B: Level of Free Convection (LFC)
C: Level of Neutral Bouyancy (LNB)
Climatology along the Andes

(a) OLR [W/m²]

(b) Specific humidity [g/Kg] at 600 hPa (4 km)

(c) Zonal wind [m/s] at 400 hPa

(d) Pressure (hPa)

(e) 

(f) 

(g) 

(h) 

(i) 

(j) 

(k) 

(l) 

(m) 

(n) 

(o) 

(p) 

(q) 

(r) 

(s) 

(t) 

(u) 

(v) 

(w) 

(x) 

(y) 

(z)