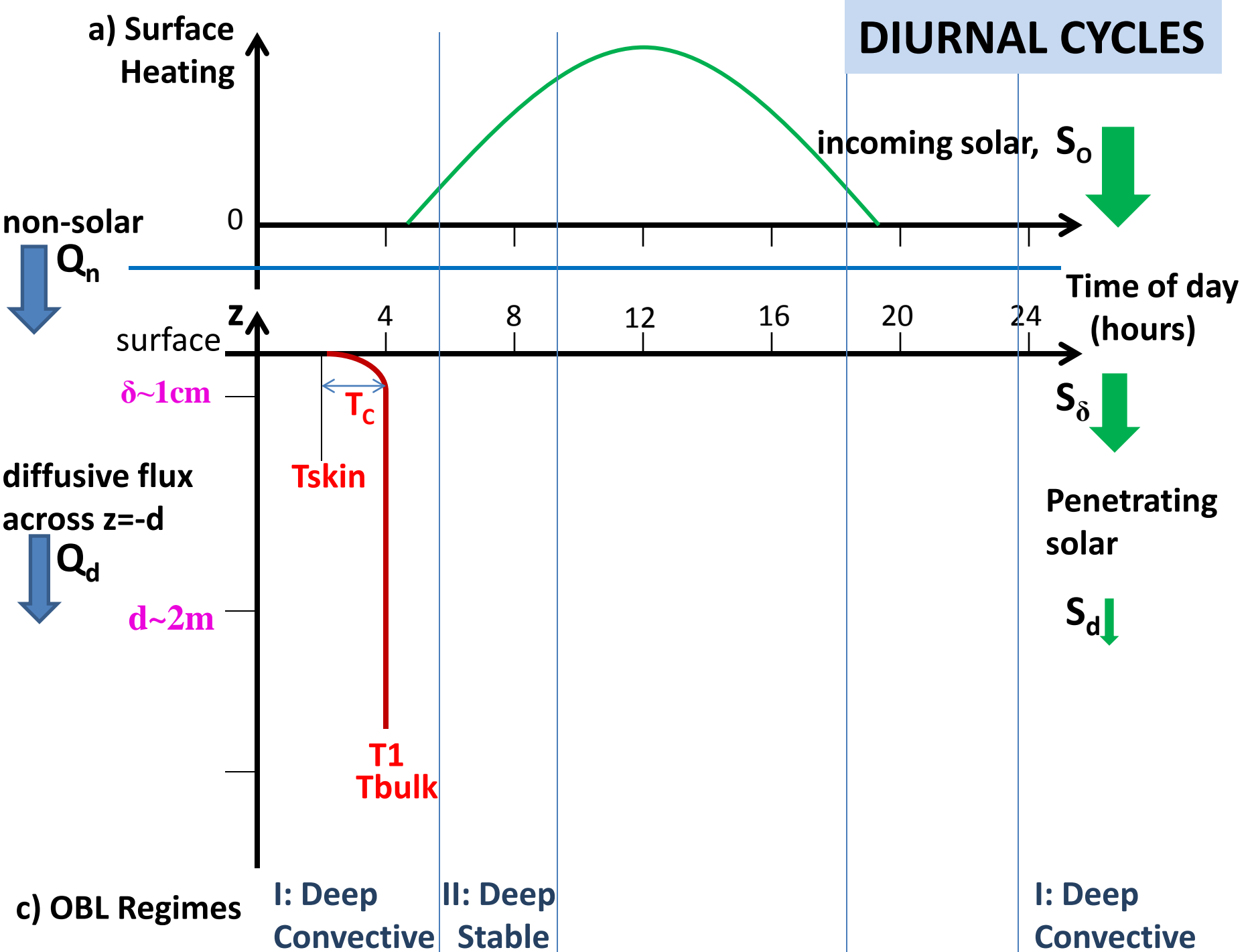


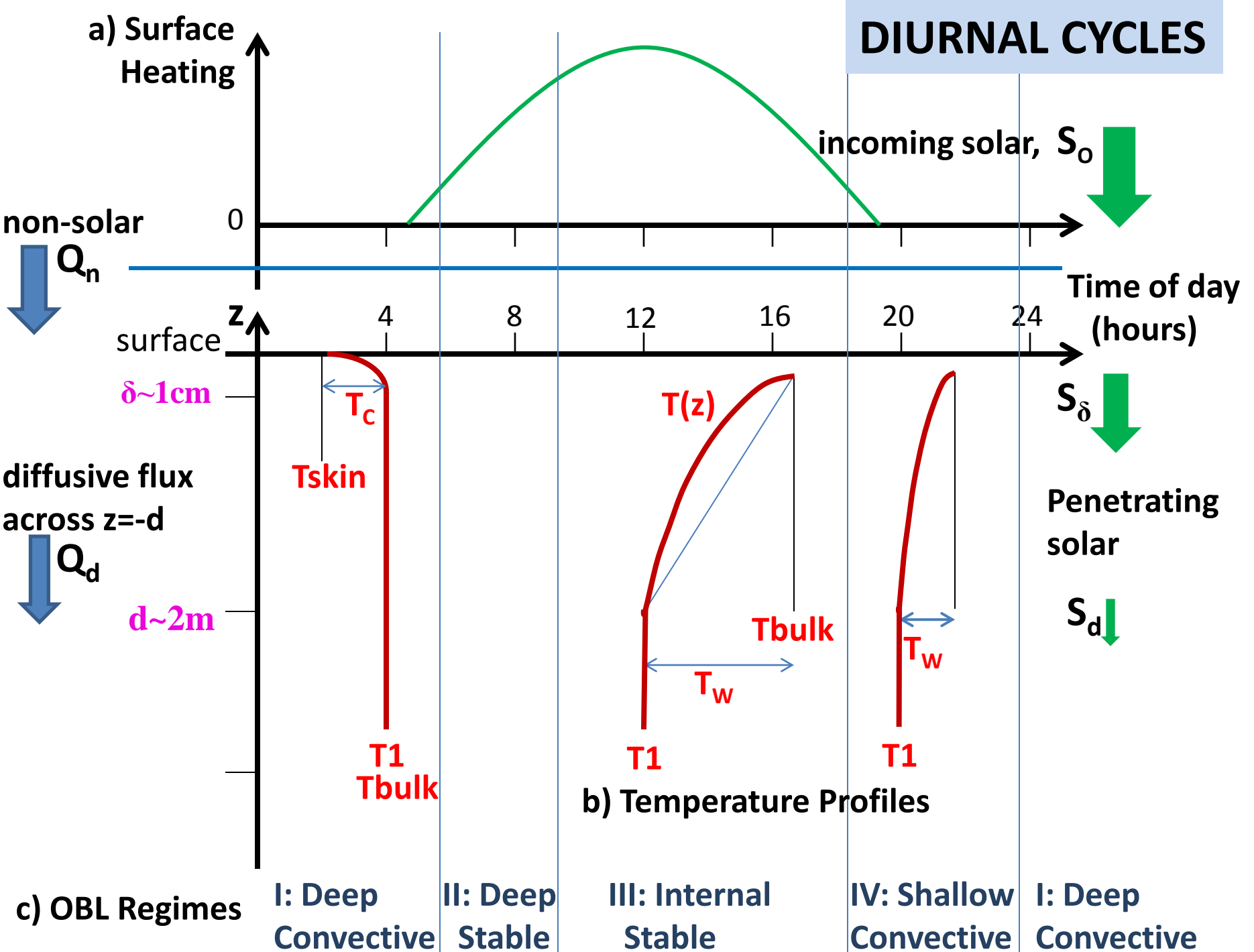
OCEAN DIRUNAL CYCLING in the Flux Coupler

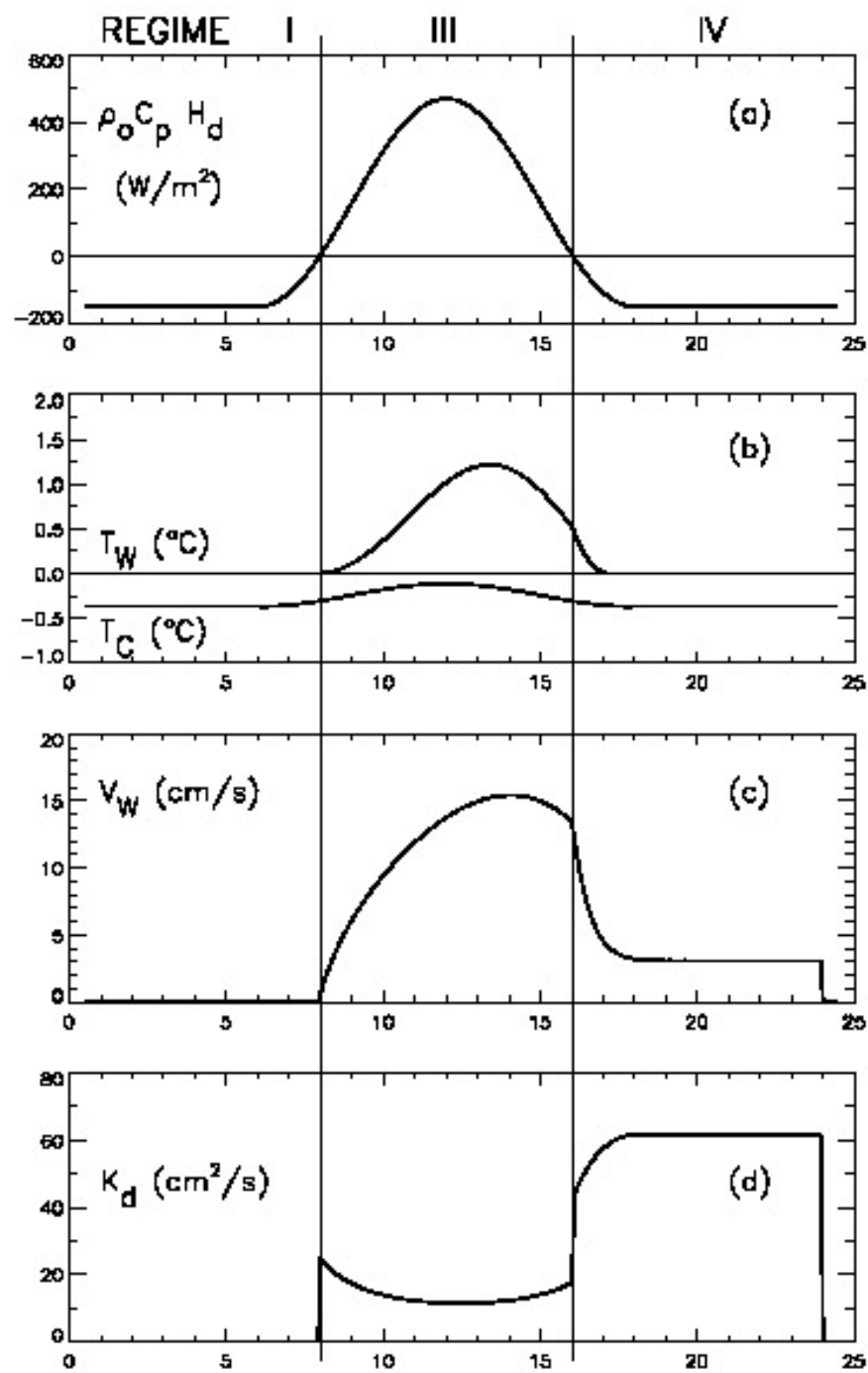
? Standard Diagnostics ?

DIURNAL CYCLES



DIURNAL CYCLES

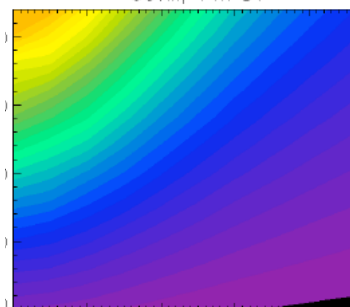




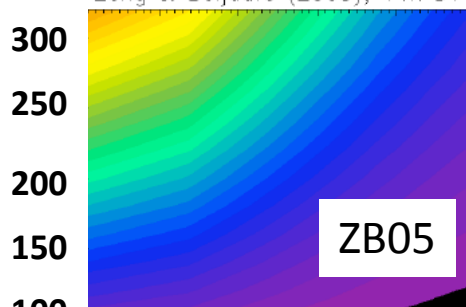
Range of model behaviours

Daily Solar (W/m^2)
Daily Solar (W/m^2)

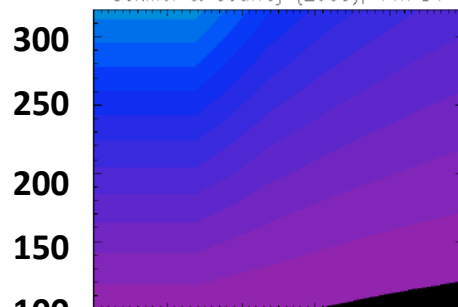
GOTM, 14h DV



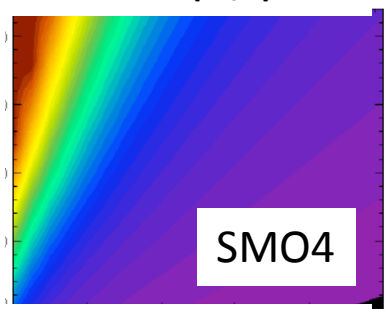
Zeng & Beljaars (2005), 14h DV



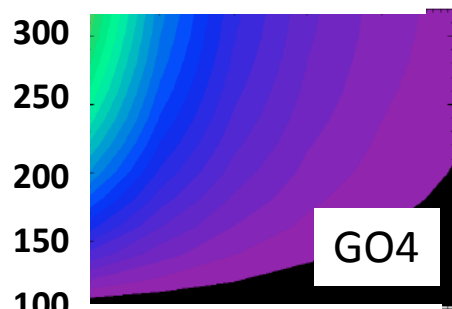
Schiller & Godfrey (2005), 14h DV



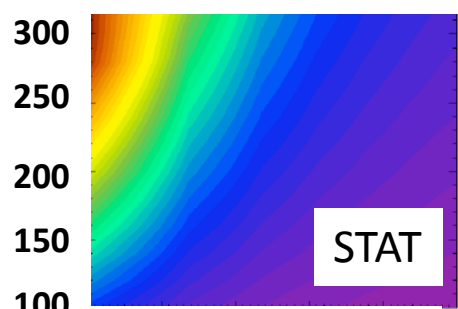
SMO4



GO4

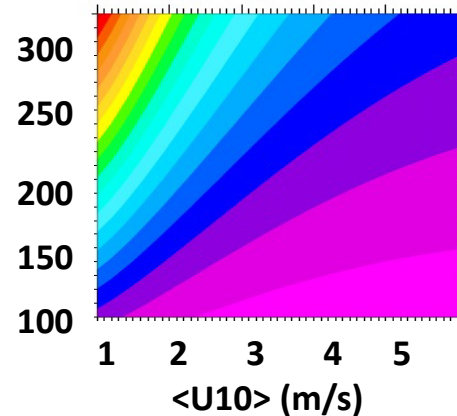
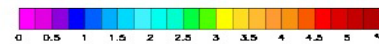


STAT



0 1 2 3 4
Maximum Daily Warming ($^{\circ}\text{C}$)

0 1 2 3 4 5



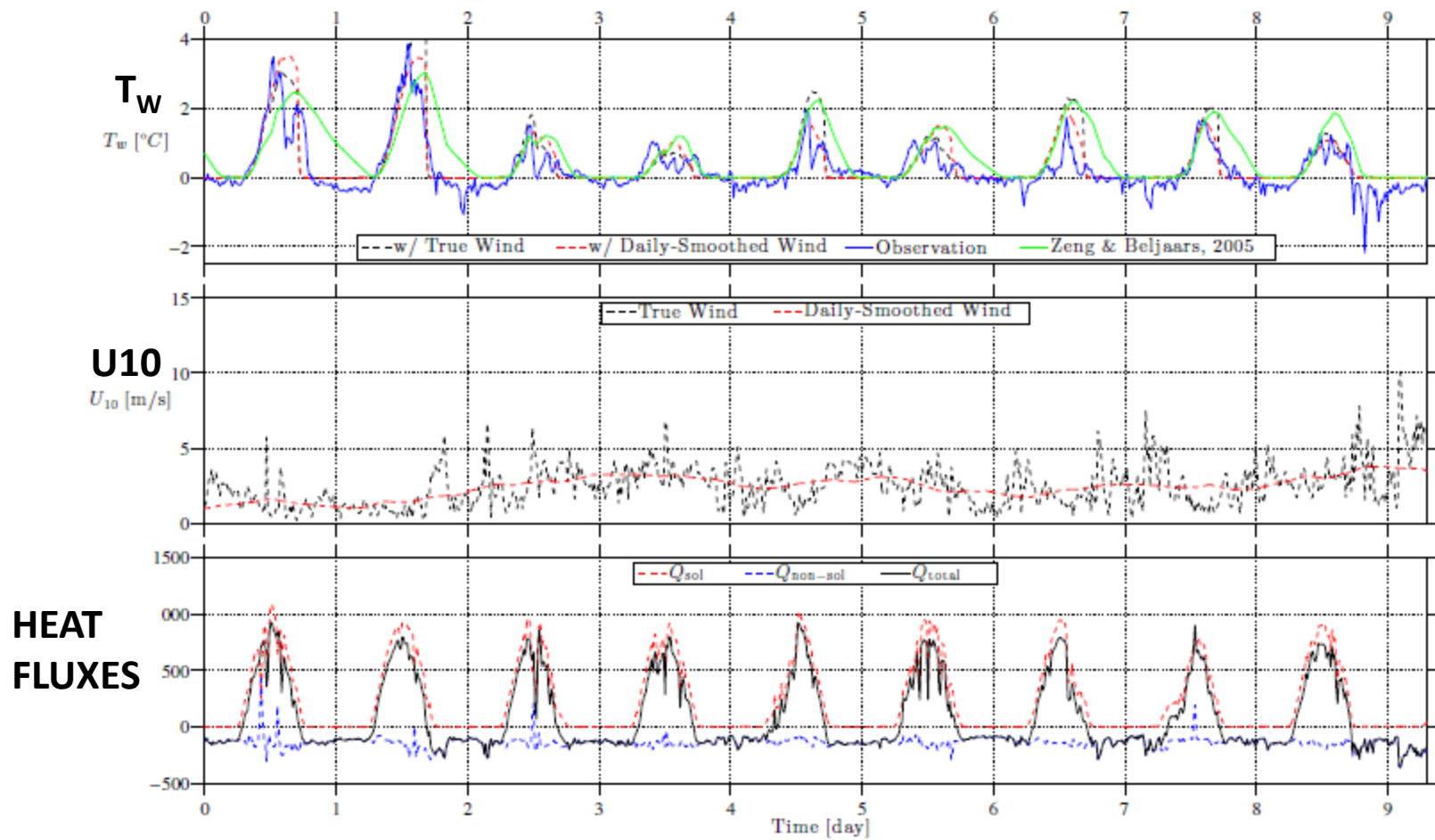
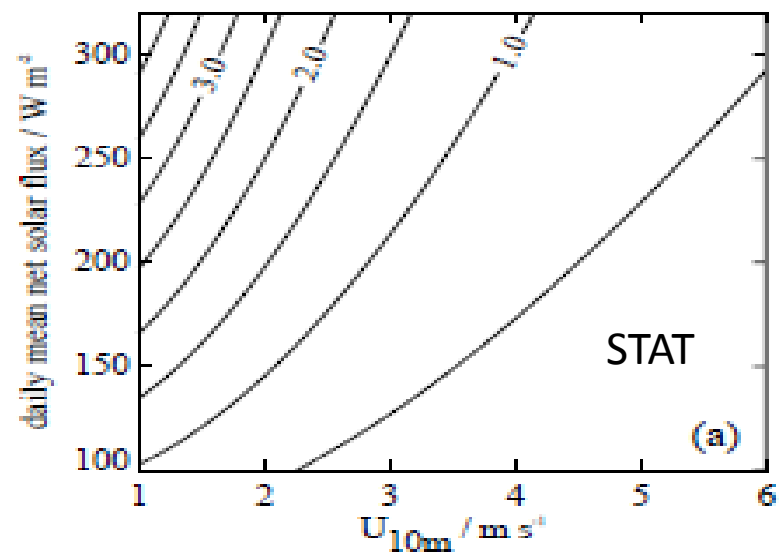
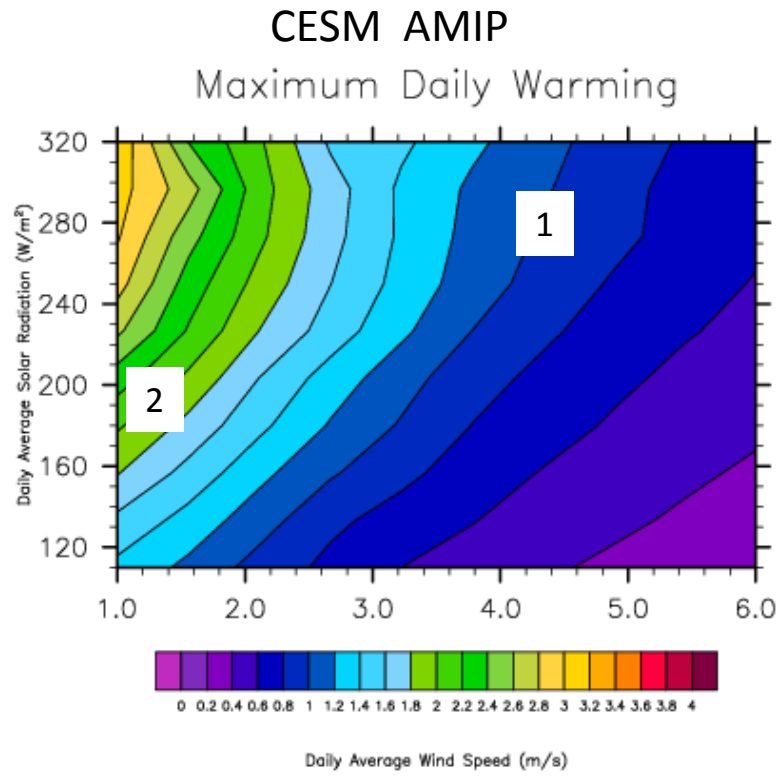


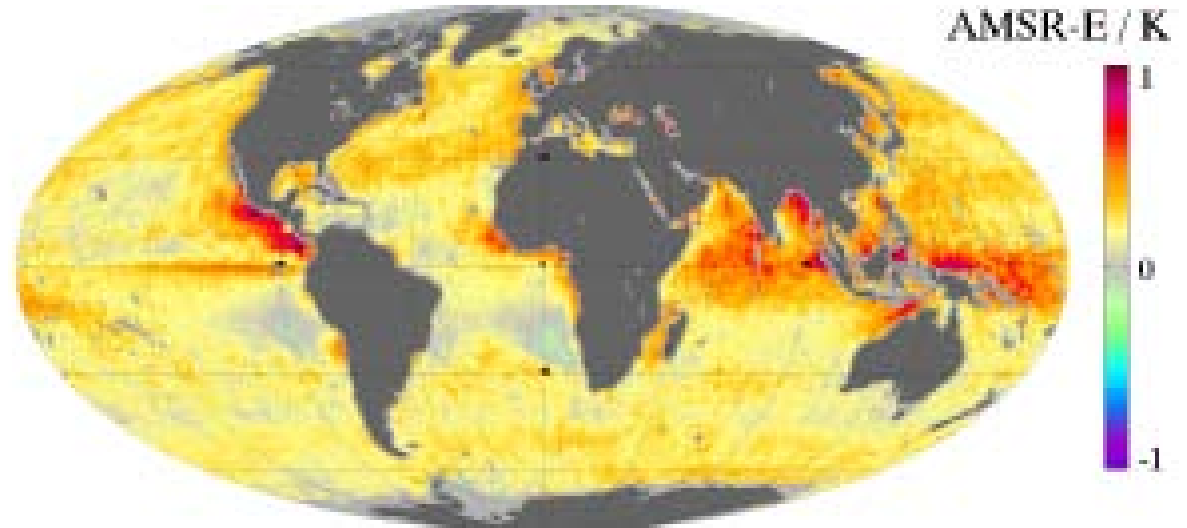
Figure 1: TOGA COARE Data, $d = 3\text{m}$

Realistic Diurnal Warming (°C)



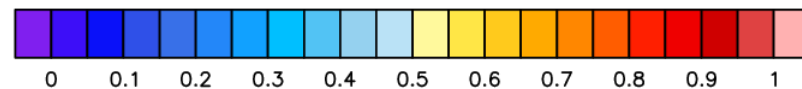
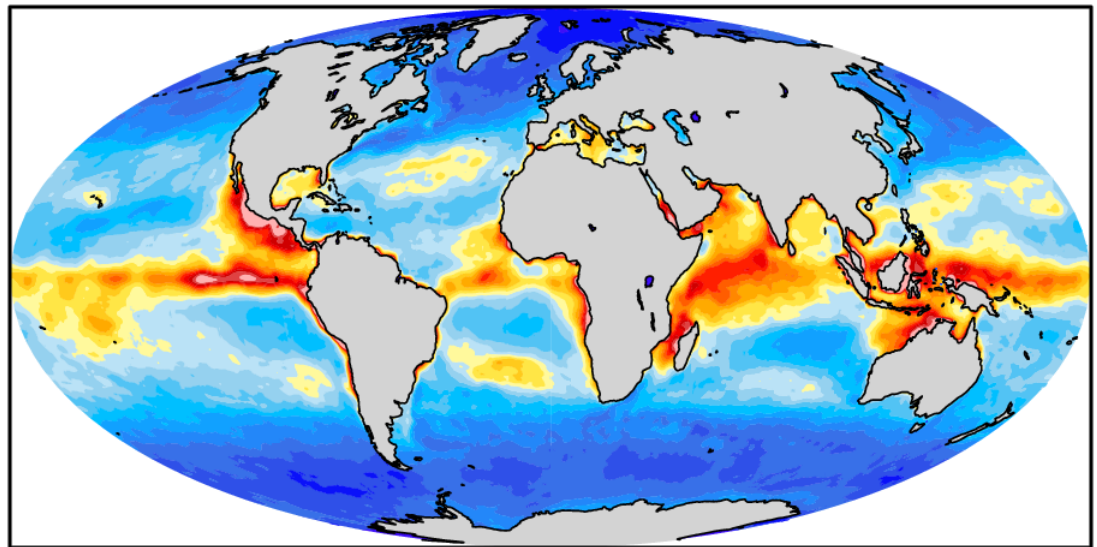
Annual Average Diurnal Warming ($^{\circ}\text{C}$)

$T_{\text{skin}}(2\text{pm}) - T_{\text{skin}}(\text{dawn})$ for 2007 Observed

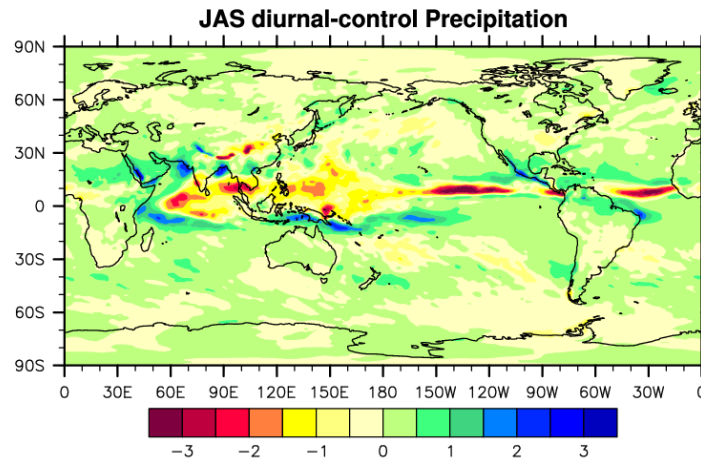
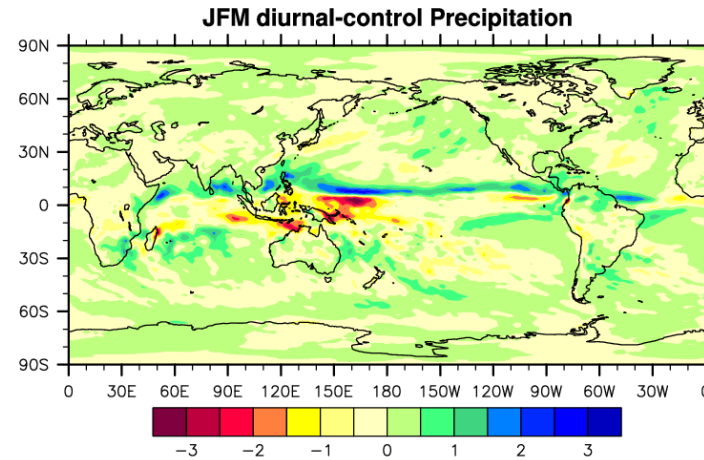


$T_{\text{skin}}(2\text{pm}) - T_{\text{skin}}(\text{midnight})$ for 2009 (A Case)

CESM data



Seasonal Precipitation (mm/day)



COUPLER DIAGNOSTICS ?

- Mean T_{skin}
- Mean T_{bulk}
- Mean $T_{\text{skin}}(14:00) - T_{\text{skin}}(0:00)$
- Mean $T_{\text{bulk}}(14:00) - T_{\text{bulk}}(0:00)$
- Mean Speeding, V_w
- Mean Salting,
- Other Statistics
- Any Instantaneous
- Flux Effects $LW(T_{\text{skin}})$; Sensible/Latent (T_{bulk})

