

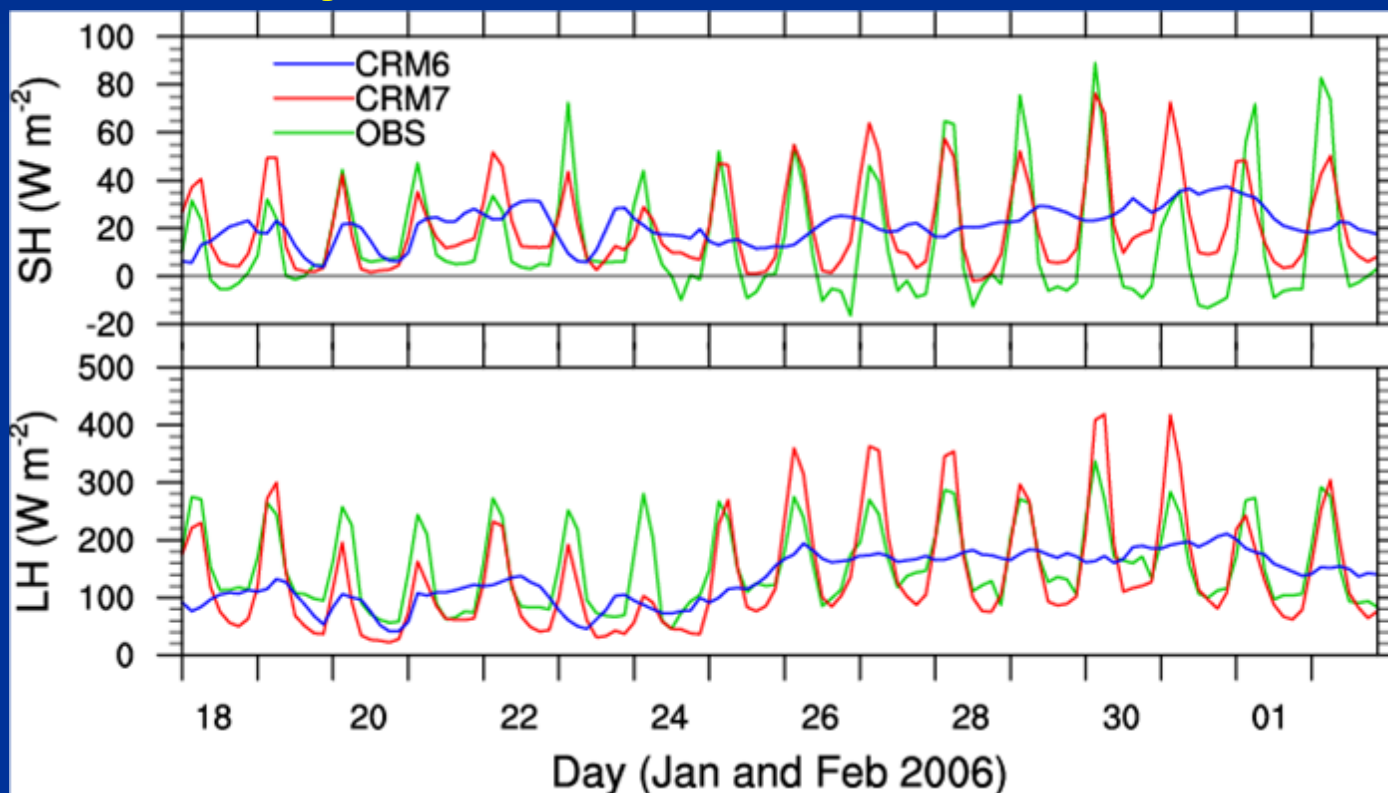


Issues in CRM simulations with the TWP-ICE forcing

Xiaoqing Wu and Sunwook Park

March 31, 2009

3-hourly sensible and latent heat fluxes

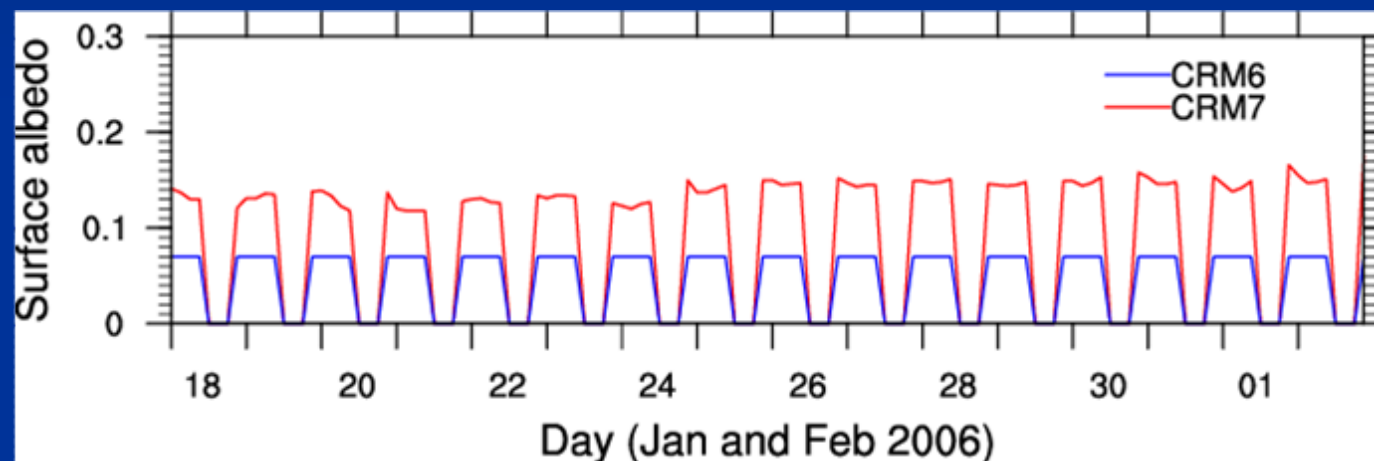


CRM6: constant SST and surface albedo

CRM7: varied SST and surface albedo



3-hourly surface albedo





16-day mean radiative fluxes

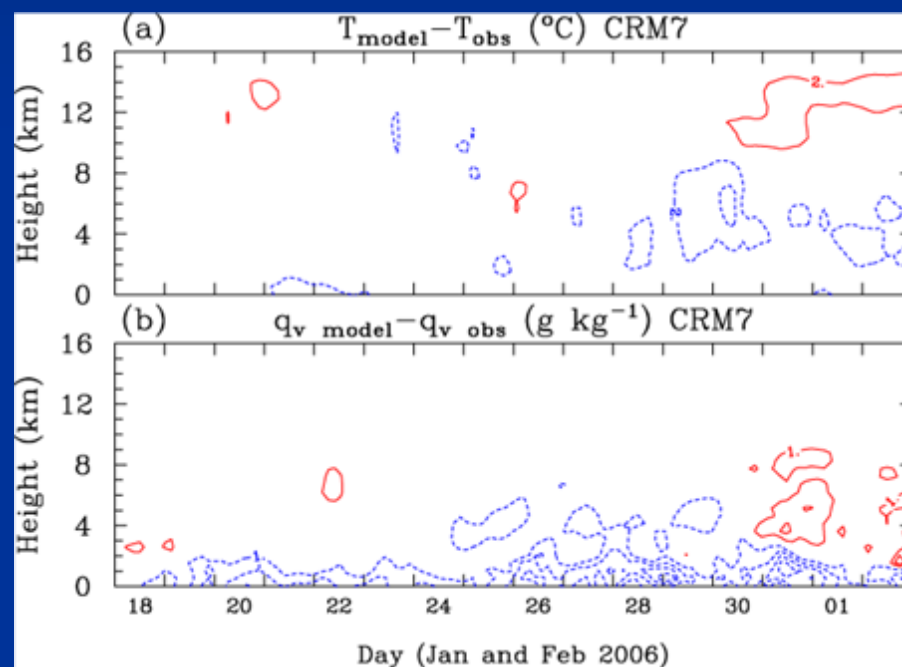
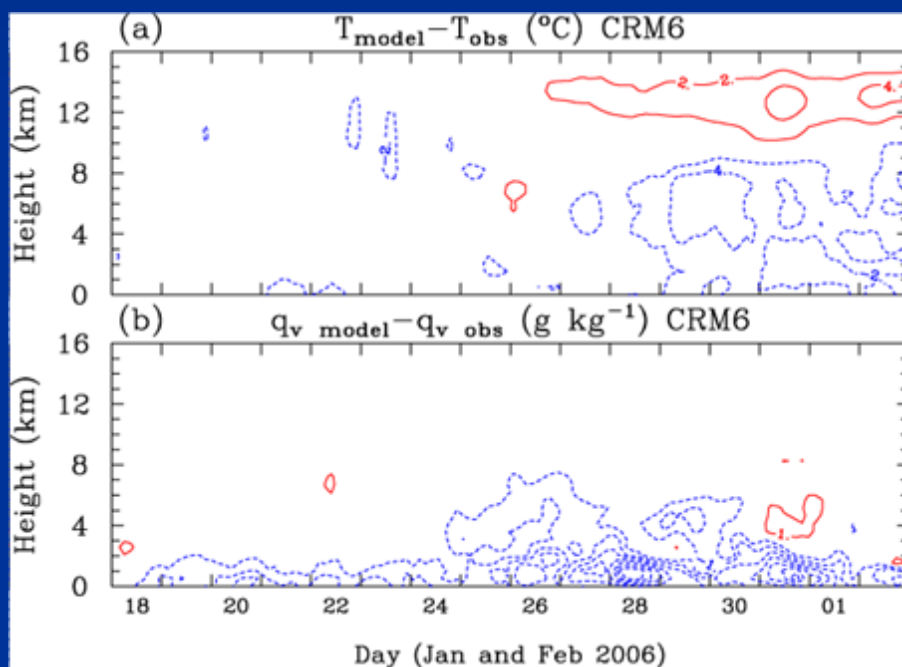
Radiative flux (Wm ⁻²)	TOA			SFC			
	SW_DN	SW_UP	LW_UP	SW_DN	SW_UP	LW_DN	LW_UP
OBS	463.7	165.9	173.1	186.7	27.8	433.8	473.0
CRM6	462.9	183.0	176.4	192.4	13.5	427.5	472.6
CRM7	462.9	196.2	179.9	189.1	26.9	432.3	474.2
ISCCP	461.5	190.1	179.3				

16-day mean net radiative fluxes

Net radiative flux (Wm ⁻²)	TOA		SFC	
	SW	LW	SW	LW
OBS	297.9	-173.1	158.9	-39.2
CRM6	279.9	-176.4	178.9	-45.1
CRM7	266.7	-179.9	162.2	-41.9
ISCCP	271.5	179.3		

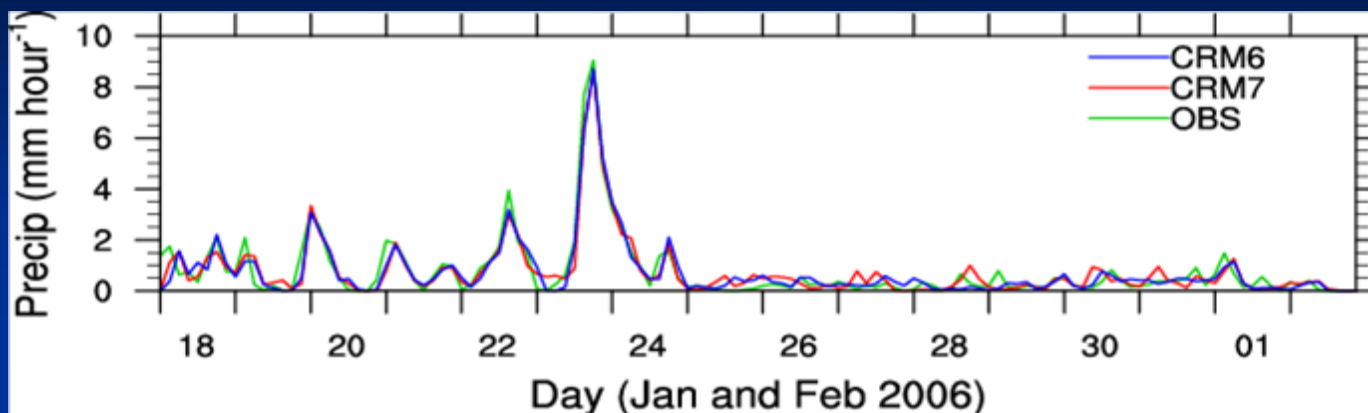


3-hourly temperature and moisture biases





3-hourly precipitation



3-hourly liquid and ice water paths

