

Sub-hourly CanAM4.3 and spCAM5 output over Tropical Western Pacific for June, July, August 1997

Table1: List of files and variables from spCAM5 (under directory spCAM5)

File name	Variable name	Description	Units
conv_pcp.nc	CONV_RAIN	Convective rainfall within CAM5 gridbox	mm/h
OMEGA.nc	GCM_OMEGA	Omega computed from U and V winds starting from top of the atmosphere	Pa/s
rCAPE.nc	CAPE_capefld	Convective Available Potential Energy (CAPE)	J/kg
	CAPE_dcapelse	CAPE generation in the free troposphere	J/kg/600s
RH.nc	RH	computed using qsat.pro. RH with respect to water	%

Table2: List of files and variables from CanAM4.3 (under directory CanAM4_3)

File name	Variable name	Description	Units
TWP_sa_rtm_hf2_1997_estd_gs.001.nc	ESTD	Moisture advection	1/s
TWP_sa_rtm_hf2_1997_gzhf_gs.001.nc	GZHF	Geopotential height	m
TWP_sa_rtm_hf2_1997_hlhf_gs.001.nc	HLHF	Longwave temperature forcing	K/s
TWP_sa_rtm_hf2_1997_hshf_gs.001.nc	HSHF	Shortwave temperature forcing	K/s
TWP_sa_rtm_hf2_1997_pchf_gs.001.nc	PCHF	Convective precipitation	kg/m2/s
TWP_sa_rtm_hf2_1997_phf_gs.001.nc	PHF	Atmospheric pressure	Pa
TWP_sa_rtm_hf2_1997_qhf_gs.001.nc	QHF	Specific humidity	kg/kg
TWP_sa_rtm_hf2_1997_thf_gs.001.nc	THF	Temperature	K
TWP_sa_rtm_hf2_1997_ttd_gs.001.nc	TTD	Temperature advection	K/s
TWP_sa_rtm_hf2_1997_whf_gs.001.nc	WHF	Vertical velocity	Pa/s
TWP_sa_rtm_hf2_1997_RH_gs.001.nc	RH	Relative humidity	%
TWP_sa_rtm_hf2_1997_rCAPE_gs.001.nc	rCAPE	Reversible CAPE	J/kg
TWP_sa_rtm_hf2_1997_rCAPEelse_gs.001.nc	rCAPEelse	Reversible CAPE generation due to large-scale forcings in the free troposphere	J/kg/900s

Table3: List of files and variables from CanAM4.3 ensemble (under directory CanAM4_3/ensemble)

File name	Variable name	Description	Units
TWP_sa_jcl_hf_1997_estd_gs.001.nc	ESTD	Moisture advection	1/s
TWP_sa_jcl_hf_1997_gzhf_gs.001.nc	GZHF	Geopotential height	m
TWP_sa_jcl_hf_1997_hlhf_gs.001.nc	HLHF	Longwave temperature forcing	K/s
TWP_sa_jcl_hf_1997_hshf_gs.001.nc	HSHF	Shortwave temperature forcing	K/s
TWP_sa_jcl_hf_1997_pchf_gs.001.nc	PCHF	Convective precipitation	kg/m2/s
TWP_sa_jcl_hf_1997_phf_gs.001.nc	PHF	Atmospheric pressure	Pa
TWP_sa_jcl_hf_1997_qhf_gs.001.nc	QHF	Specific humidity	kg/kg

TWP_sa_jcl_hf_1997_thf_gs.001.nc	THF	Temperature	K
TWP_sa_jcl_hf_1997_ttd_gs.001.nc	TTD	Temperature advection	K/s
TWP_sa_jcl_hf_1997_whf_gs.001.nc	WHF	Vertical velocity	Pa/s
TWP_sa_jcl_hf_1997_RH_gs.001.nc	RH	Relative humidity	%
TWP_sa_jcl_hf_1997_rCAPE_gs.001.nc	rCAPE	Reversible CAPE	J/kg
TWP_sa_jcl_hf_1997_rCAPElse_gs.001.nc	rCAPElse	Reversible CAPE generation due to large-scale forcings in the free troposphere	J/kg/900s