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Participating CMIP Models

CMIP Model (black = CMIP1 only red=CMIP1&CMIP2 cyan = CMIP2 only + = CMIP2+ data also accessible)*	Key References	Flux Correction	Archived Control Run Length[yr]	Control Run CO₂[ppmv]**	Solar Constant [Watts/m²]**	Comments
BCM + : documentation in progress	Furevik et al. 2003 , Deque et al. 1994 , Bleck et al. 1992	heat, water	300	353	1370	only ocean data supplied
BMRC1 : documentation	Power et al. 1993	none	105	330	1365	no standard devs. or ocean data
BMRC2 : documentation in progress	Power et al. 1998 , Colman 2001	heat,water,sfc SW radn.	80	330	1365	
CCCma1 : documentation	Flato et al. 2000 , Boer et al. 2000	heat, water	150	330	1370	
CCCma2 +: documentation in progress	Flato&Boer 2001 , Kim et al. 2002 , Kim et al. 2003	heat, water	80	330	1370	
CCSR : documentation	Emori et al. 1999	heat, water	200	345	1365	
CERFACS1 : documentation	Guilyardi & Madec 1997	none	40	353	1370	
CERFACS2 : documentation in progress	Barthelet et al. 1998a,b	none	80	353	1370	
COLA1 : documentation	Schneider et al. 1997 , Schneider & Zhu 1998	none	50	345	1365	
COLA2 : documentation	Dewitt & Schneider 1999	none	191	345	1365	long transient
CSIRO + : documentation	Gordon & O'Farrell 1997 , Hirst et al. 2000	heat, water, momentum	100	330	1367	
DOE PCM +*** : documentation in progress	Washington et al. 2000	none	300	355	1367	
ECHAM1+LSG : documentation	Cubasch et al. 1992 , von Storch et al. 1997	heat, water, momentum	960			temperature time-series data only
ECHAM3+LSG **: documentation	Cubasch et al. 1997 , Voss et al. 1998	heat, water, momentum	1000	345	1365	no flux-correction fields

ECHAM4+OPYC3+ : documentation	Roeckner et al. 1996a.b	heat, water (annual mean)	150	353	1365	
ECHAM4+HOPE-G(ECHO-G)+ : documentation	Legutke&Voss 1999, Min et al. 2004	heat, water (globally normalized to zero)	100	353	1365	
GFDL_R15_a : documentation	Manabe et al. 1991, Manabe & Stouffer 1996	heat, water	1000	300	1353.5	
GFDL_R30_c + : documentation in progress	Delworth et al. 2002, Dixon et al. 2003	heat, water	300	360	1365	
GISS (Miller) : documentation	Miller & Jiang 1996	none	89			
GISS (Russell) : documentation	Russell et al. 1995, Russell and Rind 1999	none	98	315	1367	no decadal standard deviations or barotropic stream function
IAP/LASG1 : documentation	Wu et al. 1997, Zhang et al. 2000	<i>sea sfc salinity restored to obs</i>	50	345	1367.04	
IAP/LASG2 : documentation in progress	Wu et al. 1997, Zhang et al. 2000	heat, water, momentum	80	345	1367.04	
INMCM : documentation in progress	Diansky et al. 2002, Diansky & Volodin 2002	none	80	348	1365	
LMD/IPSL1 : documentation	Braconnot et al. 1997	none	24	320	1367	no decadal standard deviations
LMD/IPSL2 : documentation in progress	Laurent et al. 1998, Leclainche et al. 2000	none	80	320	1367	
MRI1 : documentation	Tokioka et al. 1996	heat, water	100	345	1365	no ocean heat transport data available
MRI2 : documentation in progress	Tokioka et al. 1996	heat, water	80	345	1365	
MRI3 + : documentation in progress	Yukimoto et al. 2001, Yukimoto & Noda 2003	heat, water	150	345	1365	
NCAR (CSM) + : documentation	Boville & Gent 1998	none	300	355	1367	
NCAR (CCSM2) + : documentation in progress	Buja & Craig 2002	none	650	355	1367	
NRL1 : documentation	Hogan and Li 1997, Li & Hogan 1999	<i>sea ice prescribed to obs</i>	36			

NRL2 : documentation in progress	Hogan and Li 1997, Li & Hogan 1999	heat, water (annual mean)	3			perturbed run is 80 years
UKMO(HadCM2) +:documentation	Johns 1996, Johns et al. 1997	heat, water	80	322.6 (equiv.-CO ₂)	1365	
UKMO(HadCM3) + : documentation in progress	Gordon et al. 2000	none	80	289.6	1365	
YONU : documentation in progress	AMIP documentation	<i>sea ice prescribed to obs</i>	80			

* CMIP1 runs are control experiments with *seasonal-mean* climatological output data. CMIP2 runs are *paired* control and perturbed (1%-per-year increasing carbon dioxide) experiments with [annual-mean climatological output data](#). In cases that are coded **red**, essentially the same model version used to produce the CMIP1 control run also produced the paired CMIP2 runs. In other cases, a given model version produced only the CMIP1 (coded **black**) or only the CMIP2 runs (coded **cyan**). In addition, models that are participating in the [CMIP2+ initiative](#) (designated by a '+' in column 1) are making available essentially all their history tape data.

For further information on models that are coded **black** or **red**, see the CMIP Model Features Documentation (at <http://www-pcmdi.llnl.gov/modeldoc/cmip/>) or, for a particular model, the associated "documentation" link in column 2 of the above table. (Documentation of the features of the **cyan-coded** models is in progress.) The IPCC Third Assessment Report (2001) also gives further details on selected features of CMIP models.

** Note that in models with heat flux corrections, the surface temperature is influenced less by the specifications of CO₂ concentration and solar constant than is the case for models without such flux corrections. Also, the radiative forcing perturbation is determined primarily by the logarithm of the ratio of transient-to-control CO₂ concentrations, rather than by the control concentration *per se*.

*** Subproject access to full dataset requires extra permission.

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