

Tuning experiments with ECHAM6 T255L199 and coarser resolved reference experiments

AMIP forcing

model code: tag echam-6.0.01

Simulated / analyzed period: January 1978

/work/im0454/k202072/echam-6.0.01/experiments

Parameters	ifa0001	ifa0002	ifa0003	ifa0004	ifa0005	ifa0006	ifa0007	ifa0008	ifa0009	ifa0010	ifa0011	ifa0012	ifa0013	ifa0014
Resolution	T63L47	T127L95	T255L199	T255L199	T255L199	T255L199	T255L199	T255L199	T255L199	T255L199	T255L199	T255L199	T255L199	T255L199
Model level specific q (k = model level)	1 k=1-4 2 k=5-7 3 k=8-9 4 k>=10	1 k=1-10 2 k=11-25 3 k>=26	1 k=1-13 2 k>=14	1 k=1-13 2 k>=14	1 k=1-13 2 k=14-43 3 k>=44	1 k=1-13 2 k>=14	1 k=1-13 2 k=14-43 3 k>=44	1 k=1-13 2 k>=14	1 k=1-13 2 k>=14	1 k=1-13 2 k>=14	1 k=1-13 2 k>=14	1 k=1-13 2 k>=14	1 k=1-13 2 k>=14	1 k=1-13 2 k>=14
delta_time (sec)	600	240	90	90	90	90	90	90	90	90	90	90	90	90
cmfctop	0.21	0.205	0.35	0.2	0.2	0.2	0.2	0.19	0.205	0.195	0.21	0.21	0.21	0.21
cprcon	2.00E-04	1.30E-04	1.00E-04	8.00E-05	8.00E-05	6.00E-05	6.00E-05	6.00E-05	6.00E-05	6.00E-05	6.00E-05	6.00E-05	6.00E-05	6.00E-05
zinhom1	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.80	0.77	0.80	0.80	0.80	0.80
zinhom2	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.80	0.77	0.80	0.80	0.80	0.80
dampth (h)	7	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
dampth (h) for n=254	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.33	0.45	0.5
dampth (h) for n=255	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	0.42	0.5
dift / difvo	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2.0
142+143, Precip	2.88	2.91	2.95	2.99	3.01	2.98	2.98	3.02	2.99	2.99	2.98	2.97	3.00	2.99
142, L.S. Precip	1.02	1.23	1.27	1.41	1.44	1.59	1.57	1.60	1.61	1.59	1.59	1.60	1.59	1.59
143, Conv. Precip	1.86	1.68	1.68	1.58	1.57	1.39	1.41	1.42	1.38	1.40	1.39	1.37	1.41	1.40
150, Cloud ice	29.69	32.24	30.54	32.87	32.92	35.27	35.05	35.44	35.50	35.91	35.63	35.32	35.45	35.96
164, Cloud cover	61.84	62.16	60.27	63.95	63.54	65.60	64.14	65.29	64.74	65.63	64.78	65.21	65.05	64.78
167, 2m temp	12.31	12.28	12.38	12.45	12.46	12.43	12.49	12.47	12.48	12.55	12.49	12.38	12.51	12.62
178, TOA net SW	243.40	244.25	254.82	247.42	248.80	244.33	246.01	243.43	243.80	243.76	244.38	244.02	243.77	243.45
179, TOA net LW	-236.57	-237.51	-240.50	-238.63	-238.95	-237.07	-237.58	-237.01	-237.19	-236.91	-237.26	-237.00	-237.19	-236.99
230, Int. water vap.	24.13	24.54	24.19	24.34	24.41	24.75	24.60	24.74	24.64	24.72	24.63	24.54	24.85	24.81
231, Int. cloud w.	56.08	61.79	43.09	50.42	50.04	55.11	52.97	56.37	55.74	56.22	54.21	54.80	55.11	56.67
191, SW CRE	-51.66	-51.90	-41.09	-48.56	-47.18	-51.67	-50.02	-52.58	-52.21	-52.31	-51.68	-51.92	-52.25	-52.61
192, LW CRE	23.04	21.99	20.50	22.40	22.04	23.60	23.31	23.81	23.73	24.04	23.60	23.65	23.64	23.94
178+179, Imbalance	6.83	6.74	14.32	8.79	9.85	7.26	8.43	6.42	6.61	6.85	7.12	7.02	6.58	6.46
Labrador (60W,44W,48N,60N)														
167, 2m temp, Labrador	-1.41	-1.57	-2.01	-1.67	-1.05	-1.97	-1.68	-0.60	-2.24	-1.37	-1.16	-1.45	-0.53	-2.40
142+143, Precip, Labrador	3.49	2.96	3.54	4.37	4.64	3.13	2.93	3.08	3.47	2.98	3.14	3.35	3.82	3.49
182, Evap, Labrador	-2.79	-3.16	-3.11	-2.99	-2.41	-2.66	-2.81	-2.03	-3.19	-2.61	-2.31	-2.40	-1.93	-3.15
P-E, Labrador	0.70	-0.20	0.43	1.38	2.23	0.47	0.12	1.05	0.28	0.37	0.83	0.95	1.89	0.34
Labrador (70W,40W,50N,65N)														
167, 2m temp, Labrador	-4.50	-5.41	-6.37	-5.33	-4.84	-5.72	-5.60	-4.78	-5.73	-5.07	-5.27	-4.78	-3.89	-6.15
142+143, Precip, Labrador	2.74	2.43	2.95	3.96	4.06	3.06	2.76	2.61	3.23	2.69	3.01	3.09	3.30	3.13
182, Evap, Labrador	-2.46	-2.79	-2.89	-2.62	-2.16	-2.38	-2.61	-2.04	-2.74	-2.40	-2.21	-2.11	-1.64	-2.88
P-E, Labrador	0.28	-0.36	0.06	1.34	1.90	0.68	0.15	0.57	0.49	0.29	0.80	0.98	1.66	0.25
NNA (0E,360E,45N,90N)														
168, 2m temp, NNA	-9.48	-8.88	-8.59	-9.26	-8.88	-9.06	-9.14	-8.94	-8.51	-8.95	-8.92	-8.93	-8.79	-9.12
143+143, Precip, NNA	2.81	2.64	2.51	2.47	2.43	2.47	2.43	2.41	2.55	2.61	2.42	2.46	2.37	2.44
183, Evap, NNA	-2.01	-1.70	-1.75	-1.80	-1.74	-1.64	-1.80	-1.75	-1.79	-1.86	-1.69	-1.76	-1.70	-1.83
P-E, NNA	0.80	0.94	0.76	0.67	0.69	0.83	0.63	0.66	0.76	0.75	0.73	0.70	0.67	0.61