



CSL proposal

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Request: 4/1/11-6/30/12



Production883.5 KGAU

Experiment	Model Config	# of runs	# of years	GAU / year	Total KGAU	Total Data Volume (Gb)
Hindcast	1.9°x2.5° F-case	1	40	360	14.4	
	CAM4 w/trop_mozart					
	1.9°x2.5° F-case	1	30	750	22.5	1,980
	CAM4_SD					
	w/trop_mozart					
AEROCOM	1.9°x2.5° F-case	2	10	382	76.4	
	CAM5	2	10	382	76.4	1,500
		6	10	382	229.2	
Nitrogen deposition	1.9°x2.5° F-case	3	10	360	10.8	360
	CAM4 w/trop_mozart					
Chemistry/climate in	1.9°x2.5° F-case	5	155	360	27.9	5,500
the 20 th century	CAM4 w/reduced					
	chemistry					
GeoMIP	1.9°x2.5° B-case	3	86	750	193.5	
	CAM4 w/trop_mozart	3	10	750	22.5	5,200
		3	51	750	114.75	
Decadal prediction	0.9°x1.25° B-case	1	41	3,000	123.0	1,920
_	CAM4 w/trop_mozart					
NRCM-chem	1.9°x2.5° F-case	1	10	360	3.6	
	CAM4 w/trop_mozart					
	1.9°x2.5° F-case	2	10	360	7.2	1 100
	CAM4 w/trop mozart					1,100
	WRF-	15	.25	14,400	54.0	
	chem(6kmx6km)			-		
TOTAL					883.45	17,560



Request: 4/1/11-6/30/12



Development549.5 KGAU

Experiment	Model Config	# of	# of	GAU	Total	Total Data Volume
	naddi Conng	runs	years	/ year	KGAU	(Gb)
Chemistry in CAM5	1.9°x2.5° F-case	4	10	550	22.0	
	CAM5 w/trop mozart					1.000
	1.9°x2.5° F-case	4	10	360	14.4	1,080
	CAM4 w/trop mozart					
High-resolution and	1.9°x2.5° F-case	1	20	360	7.2	
new dynamical cores	CAM4 w/trop mozart					
	0.9°x1.25° F-case	1	20	1,400	28.0	
	CAM4 w/trop_mozart					
	0.47°x0.63° F-case	1	20	5,600	11.2	
	CAM4 w/trop_mozart					
	1.9°x2.5° F-case	1	20	300	6.0	
	CAM4-HOMME					10,400
	w/trop_mozart					
	0.9°x1.25° F-case	1	20	1,120	22.4	
	CAM4-HOMME					
	w/trop_mozart	_				
	0.47°x0.63° F-case	1	5	4,480	89.6	
	CAM4-HOMME					
244 0024	w/trop_mozart		-	750	27.5	4 000
MACCM	1.9°x2.5° F-case	10	5	750	37.5	1,000
	MACCM (52L)					
CARMA	w/WACCM chemistry 1.9°x2.5° F-case	1	25	500	12.5	
CARMA	CAM4 w/CARMA	1	l	500	12.5	
	CAM4 W/CARMA	1	25 10	500	5.0	
		1	10	500	5.0	1,000
		1	20	500	10.0	
		1	10	500	5.0	
Data Assimilation	1.9°x2.5° F-case		10	300		
Data 2433mmation	CAM4 w/trop_mozart	80	1	360	28.8	960
Isoprene	1.9°x2.5° F-case	5	10	360	18.0	
	CAM4 w/trop mozart	10	1	360	3.6	1,920
		5	20	360	36.0	-,
Halogen chemistry	1.9°x2.5° F-case	20	2	500	20.0	
	CAM4 w/extended					
	trop mozart					1.760
	1.9°x2.5° F-case	20	5	360	36.0	1,760
	CAM4 w/reduced					
	chemistry					
New	1.9°x2.5° F-case	25	2	360	18.0	600
parameterizations	CAM4 w/trop_mozart	23		300	10.0	000
TOTAL					549.5	18,720





Allocation

- 77% of request was approved
 - 1,100 KGAU
 - Approx. 73 KGAU per month
- GeoMIP simulations (CCSM4) partially covered by additional computing time