

Replikation (AP5)

QA (AP4)

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ESGF CMIP6 Data Holdings https://pcmdi.llnl.gov/CMIP6/ArchiveStatistics/esgf_data_holdings

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ESGF CMIP6 data holdings as of Thursday 07 March 2019 23:55:01

The cells are shaded by how recently their latest datasets were published.

More than 28 days More than 7 days Less than 7 days

Number of 'datasets' [variables x (# of simulations)] from each model in support of each CMIP6 activity.

source_id	# of activities	AerChemMIP	C4MIP	CFMIP	CMIP	DAMIP	DCPP	GeoMIP	HighResMIP	ISMIP6	LUMIP	OMIP	PMIP	RFMIP	ScenarioMIP
# of models	36	3	1	3	14	2	1	1	2	1	1	1	1	2	3
BCC-CSM2-MR	1				1807										
BCC-ESM1	1				679										
CESM2	2			379	421										
CESM2-WACCM	1				3923										
CNRM-CM6-1	2				7086										587
CNRM-ESM2-1	4	3375	724		8648									456	
E3SM-1-0	1				17										
FGOALS-f3-L	1				1										
GFDL-AM4	1				69										
GFDL-CM4	1				356										
GISS-E2-1-G	5			166	2884	4150				166	830				
IPSL-CM6A-ATM-HR	1								253						
IPSL-CM6A-LR	11	9562		3447	38752	19628	91465	513	274			642	1628	4288	11560
MIROC6	1				538										
MRI-ESM2-0	3	39			234										312

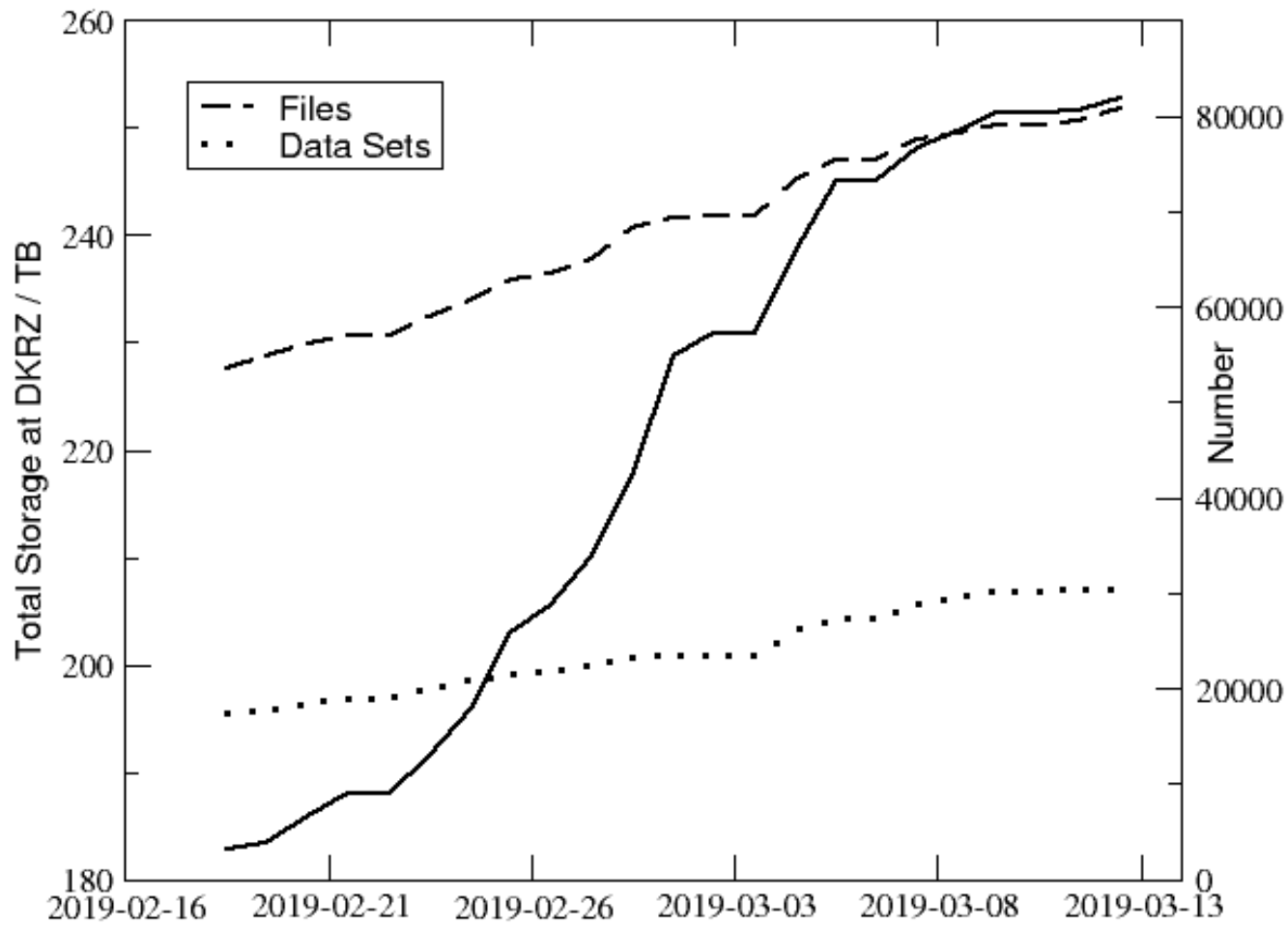
Number of 'datasets' from each model for each of DECK + historical

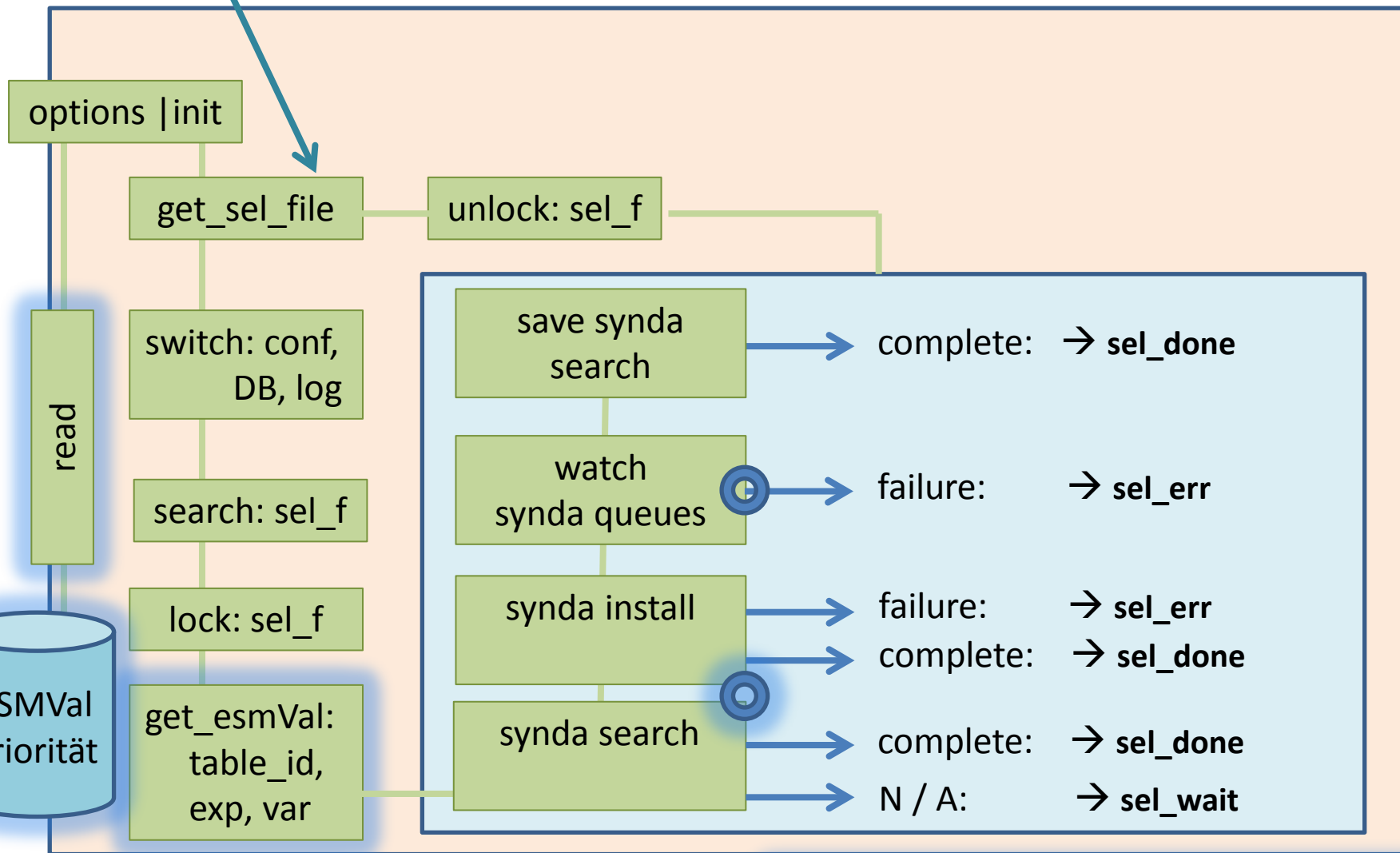
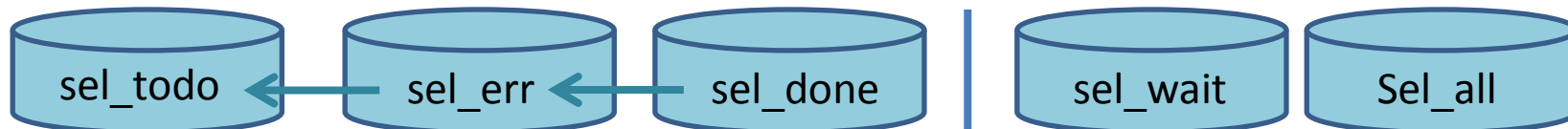
source_id	# of expts	historical	piControl	1pctCO2	amip	abrupt-4xCO2
# of models	40	9	10	6	9	6
BCC-CSM2-MR	4	578	147	148		147
BCC-ESM1	2	542	137			
CESM2	1				421	
CESM2-WACCM	2	2514			1409	
CNRM-CM6-1	5	4079	302	387	500	1818
CNRM-ESM2-1	5	2951	440	1515	564	1462
E3SM-1-0	1		17			
FGOALS-f3-L	1				1	
GFDL-AM4	1				69	
GFDL-CM4	1		356			
GISS-E2-1-G	5	1711	176	166	665	166
IPSL-CM6A-ATM-HR	0					
IPSL-CM6A-LR	5	22546	2381	723	3373	9336
MIROC6	5	260	26	26	200	26
MRI-ESM2-0	2	195	39			

AerChemMIP/CNRM-CERFACS/CNRM-ESM2-1/piClim-CH4	0.160 TB	271 /	271
C4MIP/CNRM-CERFACS/CNRM-ESM2-1/1pctCO2-bgc	1.100 TB	550 /	394
C4MIP/CNRM-CERFACS/CNRM-ESM2-1/1pctCO2-rad	1.100 TB	484 /	330
CFMIP/IPSL/IPSL-CM6A-LR/abrupt-0p5xCO2	0.811 TB	269 /	231
CFMIP/IPSL/IPSL-CM6A-LR/abrupt-2xCO2	1.100 TB	293 /	231
CFMIP/IPSL/IPSL-CM6A-LR/abrupt-solp4p	1.400 TB	464 /	410
CFMIP/NASA-GISS/GISS-E2-1-G/abrupt-2xCO2	0.187 TB	556 /	166
DAMIP/IPSL/IPSL-CM6A-LR/hist-aer	0.175 TB	92 /	100
DAMIP/IPSL/IPSL-CM6A-LR/hist-GHG	0.255 TB	102 /	100
DAMIP/IPSL/IPSL-CM6A-LR/hist-nat	0.112 TB	102 /	98
DAMIP/IPSL/IPSL-CM6A-LR/hist-stratO3	0.142 TB	98 /	100
DAMIP/IPSL/IPSL-CM6A-LR/ssp245-GHG	0.120 TB	96 /	100
DAMIP/IPSL/IPSL-CM6A-LR/ssp245-nat	0.071 TB	100 /	100
DAMIP/NASA-GISS/GISS-E2-1-G/hist-aer	0.537 TB	1867 /	781
DCPP/IPSL/IPSL-CM6A-LR/dcppC-amv-ExTrop-neg	0.030 TB	100 /	100
DCPP/IPSL/IPSL-CM6A-LR/dcppC-amv-ExTrop-pos	0.023 TB	100 /	100
GeoMIP/IPSL/IPSL-CM6A-LR/G1	1.200 TB	541 /	513
HighResMIP/IPSL/IPSL-CM6A-ATM-HR/highresSST-present	13.000 TB	996 /	253
OMIP/IPSL/IPSL-CM6A-LR/omip1	0.417 TB	125 /	100
PMIP/IPSL/IPSL-CM6A-LR/lig127k	3.900 TB	1313 /	407
PMIP/IPSL/IPSL-CM6A-LR/midHolocene	7.900 TB	2248 /	1221

		#f	/	#ds	#dif
CMIP/BCC/BCC-CSM2-MR/1pctCO2	0.374 TB	338	/	148	0
CMIP/BCC/BCC-CSM2-MR/abrupt-4xCO2	0.374 TB	337	/	147	0
CMIP/BCC/BCC-ESM1/piControl	0.341 TB	404	/	137	0
CMIP/CAS/FGOALS-f3-L/amip	0.000 TB	1	/	1	0
CMIP/CNRM-CERFACS/CNRM-CM6-1/1pctCO2	2.300 TB	636	/	387	0
CMIP/CNRM-CERFACS/CNRM-CM6-1/amip	8.700 TB	2507	/	500	0
CMIP/CNRM-CERFACS/CNRM-ESM2-1/amip	9.000 TB	2678	/	564	0
CMIP/E3SM-Project/E3SM-1-0/piControl	0.020 TB	17	/	17	0
CMIP/MIROC/MIROC6/1pctCO2	0.003 TB	52	/	26	0
CMIP/MIROC/MIROC6/abrupt-4xCO2	0.003 TB	52	/	26	0
CMIP/MIROC/MIROC6/amip	0.006 TB	200	/	200	0
CMIP/MIROC/MIROC6/historical	0.038 TB	520	/	260	0
CMIP/MIROC/MIROC6/piControl	0.018 TB	208	/	26	0
CMIP/NASA-GISS/GISS-E2-1-G/1pctCO2	0.296 TB	862	/	166	0
CMIP/NASA-GISS/GISS-E2-1-G/amip	0.172 TB	2365	/	665	0
CMIP/NASA-GISS/GISS-E2-1-G/historical	3.500 TB	8265	/	1711	0

CMIP/BCC/BCC-ESM1/historical	0.244 TB	235 /	97	-445
CMIP/BCC/BCC-CSM2-MR/esm-hist	1.700 TB	1445 /	486	N/A
CMIP/BCC/BCC-CSM2-MR/historical	0.743 TB	528 /	97	-481
CMIP/BCC/BCC-CSM2-MR/piControl	1.500 TB	958 /	146	-1
CMIP/CNRM-CERFACS/CNRM-CM6-1/abrupt-4xCO2	2.600 TB	2089 /	1823	5 ←
CMIP/CNRM-CERFACS/CNRM-CM6-1/historical	33.000 TB	11280 /	2751	-1328
CMIP/CNRM-CERFACS/CNRM-CM6-1/piControl	5.000 TB	972 /	300	-2
CMIP/CNRM-CERFACS/CNRM-ESM2-1/1pctCO2	5.600 TB	2377 /	1505	-10
CMIP/CNRM-CERFACS/CNRM-ESM2-1/abrupt-4xCO2 ..	5.500 TB	2339 /	1455	-7
CMIP/CNRM-CERFACS/CNRM-ESM2-1/historical	2.500 TB	1194 /	784	-2167
CMIP/CNRM-CERFACS/CNRM-ESM2-1/piControl	2.300 TB	1041 /	267	-173
CMIP/IPSL/IPSL-CM6A-LR/1pctCO2	3.000 TB	891 /	717	-118
CMIP/IPSL/IPSL-CM6A-LR/abrupt-4xCO2	17.000 TB	7639 /	5621	-3820
CMIP/IPSL/IPSL-CM6A-LR/historical	12.000 TB	2205 /	1995	-20653
CMIP/IPSL/IPSL-CM6A-LR/piControl	99.000 TB	11256 /	909	-1581
CMIP/NASA-GISS/GISS-E2-1-G/abrupt-4xCO2	0.119 TB	327 /	103	-63
CMIP/NASA-GISS/GISS-E2-1-G/piControl	0.828 TB	2366 /	136	-40
CMIP/NOAA-GFDL/GFDL-AM4/amip	0.067 TB	72 /	70	1 ←
CMIP/NOAA-GFDL/GFDL-CM4/piControl	1.100 TB	1273 /	138	-218





sel_f: CMIP_IPSL_IPSL-CM6A-LR_1pctCO2

table_id, experiment_id, variable(s)

QA

**Folgende Punkte müssen erfüllt sein,
damit Daten ins ESGF gelangen:**

- 1) korrekte DRS,
- 2) erfolgreicher Test der CV durch PrePARE.

Empfohlen:

- a) korrekte Koordinaten,
- b) keine Lücken zwischen zeitlich aufeinander folgenden Files ,
- c) Konsistenz zwischen aufeinander folgenden Experimenten/Files,
- d) Kompatibilität zu CF Conventions.

Das QA-DKRZ Tool befand für einige Monate fehlerhafte CV für gut.

Grund: es wurde ignoriert, dass PrePARE wegen eines Bugs ein Traceback herausgab und vorzeitig endete.

Allgemeine Erfahrung

Es ist absolut von Vorteil, wenn Modellergebnisse **cmor-isiert** werden (CDO).

Manuelle Versuche haben eine hohe Fehlerquote zur Folge
Und verzögern die Publikation im ESGF.