

Summary of all climate model simulations submitted to the C20C+ D&A and HAPPI Projects

See next sheet for availability of ISMIP2 bias-adjusted data from the simulations listed here.

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Institution	Model	Scenario	Simulations	Comparable scenarios with this model	Comparable against other models (see "Comparison sets" sheet)	Available output
ARCCSS	ACCESS1.3	All-Hist/est1/v1-0	5 for 1955/01/01-2013/12/31	None	All-Hist/est1 (pending classification)	Done: fx, Amon, Lmon, Limon, Aday, A3hr
CCMa	CanAM4	All-Hist/est1/v1-0	100 for 2006/01/01-2015/12/31	Plus15-Future/CMIP5-MMM-est1/v1-0 Plus20-Future/CMIP5-MMM-est1/v1-0	All-Hist/est1 (pending classification)	Done: fx, Amon, Lmon, Limon, Aday, Lday
		Plus15-Future/CMIP5-MMM-est1/v1-0	100 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0	Plus15-Future/CMIP5-MMM-est1 (pending classification)	Done: fx, Amon, Lmon, Limon, Aday, Lday
		Plus20-Future/CMIP5-MMM-est1/v1-0	100 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v1-0	Plus20-Future/CMIP5-MMM-est1 (pending classification)	Done: fx, Amon, Lmon, Limon, Aday, Lday
ETH	CAM4-2degree	All-Hist/est1/v1-0	501 for 2006/01/01-2015/12/31 21 for 1979/01/01-2015/12/31	Nat-Hist/CMIP5-est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0 Plus20-Future/CMIP5-MMM-est1/v2-0	All-Hist/est1 (Hist:GHG,AER-bu,OZO,VOL,SOL,LUC)	Done: fx, Amon, Lmon, Limon, Aday, Lday
		Nat-Hist/CMIP5-est1/v1-0	501 for 2006/01/01-2015/12/31	All-Hist/est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0 Plus20-Future/CMIP5-MMM-est1/v2-0	Nat-Hist/CMIP5-est1 (Hist:VOL,SOL,LUC,PI:GHG,AER-bu,OZO)	Done: Amon, Lmon, Limon, Aday, Lday
		Plus15-Future/CMIP5-MMM-est1/v1-0	501 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,PD/R26:GHG,R26:AER-bu,OZO,LUC)	Done: Amon, Lmon, Limon, Aday, Lday
		Plus15-Future/CMIP5-MMM-est1/v2-0	501 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0-LandHist Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP2 Plus20-Future/CMIP5-MMM-est1/v2-0	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL;R26:GHG,AER-bu,OZO,LUC)	Done: Amon, Lmon, Limon, Aday, Lday
		Plus15-Future/CMIP5-MMM-est1/v2-0-LandHist	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Nat-Hist/CMIP5-est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0 Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP2	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,LUC;R26:GHG,AER-bu,OZO)	Done: Amon, Lmon, Limon, Aday, Lday
		Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP1	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Nat-Hist/CMIP5-est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0 Plus15-Future/CMIP5-MMM-est1/v2-0-LandHist Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP2	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL;R26:GHG,AER-bu,OZO;SSP1:LUC)	Done: Amon, Lmon, Limon, Aday, Lday
		Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP2	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Nat-Hist/CMIP5-est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0 Plus15-Future/CMIP5-MMM-est1/v2-0-LandHist Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP2	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL;R26:GHG,AER-bu,OZO;SSP2:LUC)	Done: Amon, Lmon, Limon, Aday, Lday
		Plus20-Future/CMIP5-MMM-est1/v1-0	501 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Nat-Hist/CMIP5-est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0 Plus15-Future/CMIP5-MMM-est1/v2-0-LandHist Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP2	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,LUC;PD/R26:45:GHG,R26:AER-bu,OZO)	Done: Amon, Lmon, Limon, Aday, Lday
		Plus20-Future/CMIP5-MMM-est1/v2-0	501 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Nat-Hist/CMIP5-est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0 Plus15-Future/CMIP5-MMM-est1/v2-0-LandHist Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP2	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL;R26:AER-bu,OZO,LUC;R26:45:GHG)	Done: Amon, Lmon, Limon, Aday, Lday
		Plus20-Future/CMIP5-MMM-est1/v2-0-LandHist	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Nat-Hist/CMIP5-est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0 Plus15-Future/CMIP5-MMM-est1/v2-0-LandHist Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP2	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,LUC;R26:AER-bu,OZO;R26:45:GHG)	Done: Amon, Lmon, Limon, Aday, Lday
		Plus20-Future/CMIP5-MMM-est1/v2-0-LandSSP1	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Nat-Hist/CMIP5-est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0 Plus15-Future/CMIP5-MMM-est1/v2-0-LandHist Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP2	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL;R26:AER-bu,OZO;R26:45:GHG;SSP1:LUC)	Done: Amon, Lmon, Limon, Aday, Lday
		Plus20-Future/CMIP5-MMM-est1/v2-0-LandSSP2	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Nat-Hist/CMIP5-est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0 Plus15-Future/CMIP5-MMM-est1/v2-0-LandHist Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1/v2-0-LandSSP2	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL;R26:AER-bu,OZO;R26:45:GHG;SSP2:LUC)	Done: Amon, Lmon, Limon, Aday, Lday
LBNL	CAMS 1-0.25degree	All-Hist/est1/v1-0	1 for 1979/01/01-2005/12/31 4 for 1989/01/01-2009/12/31	PlusRCP85/MRI-est1/v1-0	All-Hist/est1 (Hist:GHG,OZO,SOL;PD:AER-bu;PI:LUC)	Done: fx, Amon, Lmon, Limon, Aday, A3hr, L3hr
		PlusRCP85/MRI-est1/v1-0	1 for 2079/01/01-2099/12/31 1 for 2080/01/01-2083/12/31	All-Hist/est1/v1-0	PlusRCP85/MRI-est1 (Hist:SOL;PI:LUC;R85:GHG,AER-bu,OZO)	Done: fx, Amon, Lmon, Limon, Aday, A3hr, L3hr
LBNL	CAMS 1-1degree	All-Hist/est1/v1-0	51 for 1959/01/01-2008/12/31	None	All-Hist/est1 (Hist:GHG,OZO,SOL,LUC;PD:AER-bu)	Done: fx, Amon, Lmon, Limon, Aday, Amon-WRAFF(05.2.5.10)-v4-1, Aday-WRAFF(05.2.5.10)-v4-1; Partly done: A3hr, L3hr
		All-Hist/est1/v2-0	50 for 1959/01/01-2018/12/31 50 for 1996/01/01-2012/12/31 300 for 2010/01/01-2018/02/28	Nat-Hist/CMIP5-est1/v2-0 Nat-HistCESM1-CAM5-est1/v1-0	All-Hist/est1 (Hist:GHG,AER-bu,OZO,SOL,LUC)	Done: fx, Amon, Lmon, Limon, Aday, Amon-WRAFF(05.2.5.10)-v4-1, Aday-WRAFF(05.2.5.10)-v4-1; Mostly done: A3hr, L3hr
		Nat-Hist/CMIP5-est1/v2-0	50 for 1959/01/01-2018/12/31 50 for 1996/01/01-2012/12/31 300 for 2010/01/01-2018/02/28	All-Hist/est1/v2-0	Nat-Hist/CMIP5-est1 (Hist:SOL,LUC;PI:GHG,AER-bu,OZO)	Done: Amon, Lmon, Limon, Aday, Amon-WRAFF(05.2.5.10)-v4-1, Aday-WRAFF(05.2.5.10)-v4-1; Mostly done: A3hr, L3hr
		Nat-Hist/CESM1-CAM5-est1/v1-0	10 for 1959/01/01-2018/05/31 40 for 2010/01/01-2018/05/31	All-Hist/est1/v2-0	N/A	Done: Amon, Lmon, Limon, Aday, A3hr, L3hr, Amon-WRAFF(05.2.5.10)-v4-1, Aday-WRAFF(05.2.5.10)-v4-1
LBNL	CAMS 1-2degree	All-Hist/est1/v1-1	56 for 1959/01/01-2012/12/31	NonGHG-Hist/HadCM3-p50-est1/v1-1	All-Hist/est1 (Hist:GHG,OZO,SOL,LUC;PD:AER-bu)	Mostly done: Amon, Lmon, Aday
		NonGHG-Hist/HadCM3-p50-est1/v1-1	56 for 1959/01/01-2012/12/31	All-Hist/est1/v1-1	NonGHG-Hist/HadCM3-p50-est1 (Hist:OZO,SOL,LUC;PD:AER-bu;PI:GHG)	Mostly done: Amon, Lmon, Aday
LBNL	CAMS 1.2-0.25degree	All-Hist/est1/v1-0	5 for 1996/01/01-2015/12/31	All-Hist/est1/v1-0-aero Nat-Hist/CMIP5-est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v1-0 Plus20-Future/CMIP5-MMM-est1/v1-0 Plus30-Future/CMIP5-MMM-est1/v1-0-sic-Plus20-PlusRCP85/MRI-est1/v1-0	All-Hist/est1 (Hist:GHG,AER-bu,OZO,VOL,SOL;PI:LUC)	Done: Amon, Aday, A3hr, Amon-WRAFF(05.2.5.10)-v4-1, Aday-WRAFF(05.2.5.10)-v4-1
		All-Hist/est1/v1-0-aero	4 for 1995/01/01-2005/12/31	All-Hist/est1/v1-0	All-Hist/est1 (Hist:GHG,AER-em,OZO,SOL;PI:LUC)	Done: fx, Amon, Lmon, Limon, Aday, L3hr, Amon-WRAFF(05.2.5.10)-v4-1, Aday-WRAFF(05.2.5.10)-v4-1
		Nat-Hist/CMIP5-est1/v1-0	4 for 1996/01/01-2015/12/31	All-Hist/est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v1-0 Plus20-Future/CMIP5-MMM-est1/v1-0 Plus30-Future/CMIP5-MMM-est1/v1-0-sic-Plus20	Nat-Hist/CMIP5-est1 (Hist:SOL;PI:GHG,AER-bu,OZO,LUC)	Done: Amon, Lmon, Limon, Aday, A3hr
		Plus15-Future/CMIP5-MMM-est1/v1-0	6 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v1-0 Plus20-Future/CMIP5-MMM-est1/v1-0 Plus30-Future/CMIP5-MMM-est1/v1-0-sic-Plus20	Plus15-Future/CMIP5-MMM-est1 (Hist:SOL;PI:LUC;R26:GHG,AER-bu,OZO)	Done: fx, Amon, Lmon, Limon, Aday, Amon-WRAFF(05.2.5.10)-v4-1, Aday-WRAFF(05.2.5.10)-v4-1; Mostly done: A3hr

	Plus20-Future/CMIP5-MMM-est1V1-0	6 for 2106/01/01-2115/12/31	All-Hist/est1V1-0 Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V1-0 Plus30-Future/CMIP5-MMM-est1V1-0-sic-Plus20	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL, R26:AER-bu,OZO, R2645:GHG)	Done: Amon, Lmon, Llimon, Aday, A3hr, Amon-WRAFF(01_05_2.5.10)-v4-1, Aday-WRAFF(01_05_2.5.10)-v4-1
	Plus30-Future/CMIP5-MMM-est1V1-0-sic-Plus20	5 for 2106/01/01-2115/12/31	All-Hist/est1V1-0 Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V1-0 Plus20-Future/CMIP5-MMM-est1V1-0	N/A	Done: Amon, Lmon, Llimon, Aday, Amon-WRAFF(01_05_2.5.10)-v4-1, Aday-WRAFF(01_05_2.5.10)-v4-1 Mostly done: A3hr
	PlusRCP85/MRI-est1V1-0	5 for 2106/01/01-2115/12/31	All-Hist/est1V1-0	PlusRCP85/MRI-est1 (Hist:VOL, R1:R26:GHG,AER-bu,OZO)	Done: Aday, Aday-WRAFF(01_05_2.5.10)-v4-1 Doing: A3hr
MIROC	MIROCS				
	All-Hist/est1V2-0	10 for 1950/01/01-2016/12/31 100 for 2006/01/01-2016/12/31 50 for 2010/01/01-2016/06/30	Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V1-0 Plus15-Future/CMIP5-MMM-est1V2-0-LandHist Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1V2-0 Plus20-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus30-Future/CMIP5-MMM-est1V1-0	All-Hist/est1V2-0 (Hist:GHG,AER-em,OZO,VOL,SOL,LUC)	Done: fx, Amon, Lmon, Llimon, Aday, A3hr
	Nat-Hist/CMIP5-est1V1-0	100 for 2006/01/01-2016/12/31 50 for 2010/01/01-2016/06/30	Plus15-Future/CMIP5-MMM-est1V3-0 Plus15-Future/CMIP5-MMM-est1V2-0-LandHist Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1V2-0 Plus20-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus30-Future/CMIP5-MMM-est1V1-0	Nat-Hist/CMIP5-est1 (Hist:VOL,SOL, R26:GHG,AER-em,OZO,LUC)	Done: Amon, Lmon, Llimon, Aday, A3hr
	Plus15-Future/CMIP5-MMM-est1V3-0	100 for 2106/01/01-2116/12/31	All-Hist/est1V2-0 Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V2-0-LandHist Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1V2-0 Plus20-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus30-Future/CMIP5-MMM-est1V1-0	All-Hist/est1V2-0	Done: Amon, Lmon, Llimon, Aday, A3hr
	Plus15-Future/CMIP5-MMM-est1V2-0-LandHist	20 for 2106/01/01-2115/12/31	All-Hist/est1V2-0 Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V3-0 Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus30-Future/CMIP5-MMM-est1V1-0	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,LUC, R26:GHG,AER-em,OZO)	Done: Amon, Lmon, Llimon, Aday, A3hr
	Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1	20 for 2106/01/01-2115/12/31	All-Hist/est1V2-0 Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V3-0 Plus15-Future/CMIP5-MMM-est1V2-0-LandHist Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL, R26:GHG,AER-em,OZO, SSP1:LUC)	Done: Amon, Lmon, Llimon, Aday, A3hr
	Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP2	20 for 2106/01/01-2115/12/31	All-Hist/est1V2-0 Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V3-0 Plus15-Future/CMIP5-MMM-est1V2-0-LandHist Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL, R26:GHG,AER-em,OZO, SSP2:LUC)	Done: Amon, Lmon, Llimon, Aday, A3hr
	Plus20-Future/CMIP5-MMM-est1V2-0	100 for 2106/01/01-2116/12/31	All-Hist/est1V2-0 Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V3-0 Plus20-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus30-Future/CMIP5-MMM-est1V1-0	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL, R26:AER-em,OZO,LUC, R2645:GHG)	Done: Amon, Lmon, Llimon, Aday, A3hr
	Plus20-Future/CMIP5-MMM-est1V2-0-LandHist	20 for 2106/01/01-2115/12/31	All-Hist/est1V2-0 Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V2-0-LandHist Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus20-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus30-Future/CMIP5-MMM-est1V1-0	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,LUC, R26:AER-em,OZO, R2645:GHG)	Done: Amon, Lmon, Llimon, Aday, A3hr
	Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1	20 for 2106/01/01-2115/12/31	All-Hist/est1V2-0 Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL, R26:AER-em,OZO, R2645:GHG, SSP1:LUC)	Done: Amon, Lmon, Llimon, Aday, A3hr
	Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP2	20 for 2106/01/01-2115/12/31	All-Hist/est1V2-0 Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus15-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL, R26:AER-em,OZO, R2645:GHG, SSP2:LUC)	Done: Amon, Lmon, Llimon, Aday, A3hr
	Plus30-Future/CMIP5-MMM-est1V1-0	100 for 2106/01/01-2115/12/31	All-Hist/est1V2-0 Nat-Hist/CMIP5-est1V1-0 Plus15-Future/CMIP5-MMM-est1V3-0 Plus20-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1	N/A	
MOHC	HadGEM3-A-N216				
	All-Hist/est1V1-0	15 for 1960/01/01-2013/12/30 105 for 2014/01/01-2015/12/30	Nat-Hist/CMIP5-est1V1-0 Nat-Hist/CMIP5-est1V1-0Short	All-Hist/est1 (Hist:GHG,AER-em,OZO,VOL,SOL,LUC)	Done: fx, Amon, Lmon, Aday, A3hr, Amon-WRAFF(01_05_2.5.10)-v4-1, Aday-WRAFF(01_05_2.5.10)-v4-1
	Nat-Hist/CMIP5-est1V1-0Short	15 for 1960/01/01-2013/12/30	Nat-Hist/CMIP5-est1V1-0Short	Nat-Hist/CMIP5-est1 (Hist:VOL,SOL, R26:GHG,AER-em,OZO,LUC)	Done: fx, Amon, Lmon, Aday, A3hr, Amon-WRAFF(01_05_2.5.10)-v4-1, Aday-WRAFF(01_05_2.5.10)-v4-1
	Nat-Hist/CMIP5-est1V1-0Short	105 for 2014/01/01-2015/12/30	All-Hist/est1V1-0Short		
MPI-M	ECHAM6-3-LR				
	All-Hist/est1V1-0	100 for 2006/01/01-2015/12/31	Plus15-Future/CMIP5-MMM-est1V2-0 Plus20-Future/CMIP5-MMM-est1V2-0	All-Hist/est1 (Hist:GHG,AER-bu,OZO,VOL,SOL,LUC)	Done: fx, Amon, Lmon, Aday
	All-Hist/est1V1-1	5 for 1959/01/01-2015/12/31			
	Plus15-Future/CMIP5-MMM-est1V2-0	100 for 2106/01/01-2115/12/31	All-Hist/est1V1-0 All-Hist/est1V1-1 All-Hist/est1V1-1	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL, R26:GHG,AER-bu,OZO,LUC)	Done: Amon, Lmon, Aday
	Plus20-Future/CMIP5-MMM-est1V2-0	100 for 2106/01/01-2115/12/31	Plus20-Future/CMIP5-MMM-est1V2-0 All-Hist/est1V1-0 All-Hist/est1V1-1 All-Hist/est1V1-1	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL, R26:AER-bu,OZO,LUC, R2645:GHG)	Done: Amon, Lmon, Aday
NCC	NorESM1-HAPPI				
	All-Hist/est1V1-0	10 for 1959/01/01-2016/06/30 125 for 2006/01/01-2016/06/30	Plus15-Future/CMIP5-MMM-est1V1-0 Plus20-Future/CMIP5-MMM-est1V1-0	All-Hist/est1 (Hist:GHG,AER-em,OZO,SOL,LUC)	Done: fx, Amon, Lmon, Llimon, Aday, Lday
	Plus15-Future/CMIP5-MMM-est1V1-0	125 for 2106/01/01-2116/06/30	Plus15-Future/CMIP5-MMM-est1V2-0-LandHist Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus20-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL, R26:GHG,AER-em,LUC, R26-Dec:OZO)	Done: fx, Amon, Lmon, Llimon, Aday, Lday
	Plus15-Future/CMIP5-MMM-est1V2-0	50 for 2106/01/01-2116/06/30	All-Hist/est1V1-0 All-Hist/est1V1-1 All-Hist/est1V1-1	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL, R26:GHG,AER-em,OZO,LUC)	Done: Amon, Lmon, Llimon, Aday, Lday
	Plus20-Future/CMIP5-MMM-est1V1-0	125 for 2106/01/01-2116/06/30	All-Hist/est1V1-0 All-Hist/est1V1-1 All-Hist/est1V1-1	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL, R26:AER-em,LUC, R26-Dec:OZO, R2645:GHG)	Done: fx, Amon, Lmon, Llimon, Aday, Lday
	Plus20-Future/CMIP5-MMM-est1V2-0	125 for 2106/01/01-2116/06/30	Plus15-Future/CMIP5-MMM-est1V2-0-LandHist Plus15-Future/CMIP5-MMM-est1V1-0-LandSSP1 Plus20-Future/CMIP5-MMM-est1V2-0-LandHist Plus20-Future/CMIP5-MMM-est1V1-0-LandSSP1	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL, R26:AER-em,OZO,LUC, R2645:GHG)	Done: Amon, Lmon, Llimon, Aday, Lday
NOAA-ESRLandCIRES	CAM4				
	All-Hist/est1V1-0	20 for 1979/01/01-2015/05/31	Nat-Hist/obs-trend-1880s-est1V1-0	All-Hist/est1 (Hist:GHG,AER-bu,OZO,VOL,SOL,LUC)	Done: fx, Amon
	Nat-Hist/obs-trend-1880s-est1V1-0	20 for 1979/01/01-2015/05/31	All-Hist/est1V1-0	Nat-Hist/obs-trend-1880s-est1 (Hist:VOL,SOL,LUC, R26:GHG,AER-bu,OZO)	Done: Amon

C20C+ D&A and HAPPI submitted climate simulations

NOAA-ESRLandCIRES	CAM5.1.1-1degree	All-Hist/est1/v1-0	30 for 1900/01/01-2017/04/30	Nat-Hist/obs-trend-1880s-est1/v1-0	All-Hist/est1 (Hist:GHG,AER-em,OZO,VOL,SOL,LUC)	In progress: Amon
		Nat-Hist/obs-trend-1880s-est1/v1-0	20 for 1979/01/01-2016/12/31	All-Hist/est1/v1-0	Nat-Hist/obs-trend-1880s-est1 (Hist:VOL,SOL;PI:GHG,AER-em,OZO,LUC)	In progress: Amon
NOAA-ESRLandCIRES	ECHAM5.4	All-Hist/est1/v1-0	30 for 1979/01/01-2016/04/30	Nat-Hist/obs-trend-1880s-est1/v1-0	All-Hist/est1 (Hist:GHG,OZO,VOL,LUC;PD:AER-bu)	Done: Amon
		Nat-Hist/obs-trend-1880s-est1/v1-0	10 for 1979/01/01-2012/12/31	All-Hist/est1/v1-0	Nat-Hist/obs-trend-1880s-est1 (Hist:LUC;PD:AER-bu,VOL;PI:GHG,OZO)	Done: Amon
UCBerkeley	ICS13-CESM1-3-beta10	CSes1				
		UnFo-PD/est1-1981-2000v1-0	1 for 0001/01/01-0027/08/31 1 for 0011/01/01-0012/12/31		N/A	Done: Amon, Aday In progress: Abhr, A3hr
		2xCO2-PD/est1-1981-2000v1-0	1 for 0001/01/01-0020/12/31	UnFo-PD/est1-1981-2000v1-0		Done: Amon, Aday In progress: Abhr, A3hr
UCT-CSAG	HadAM3P-N96	All-Hist/est1/v1-0	10 for 1960/01/01-2013/06/30 50 for 2008/07/01-2011/10/30	NonGHG-Hist/HadCM3-p50-est1/v1-0	All-Hist/est1 (Hist:GHG)	Partly done: Amon, Done: Aday
		All-Hist/est1/v2	10 for 1960/01/01-2013/12/30 40 for 2007/01/01-2013/12/30	Nat-Hist/CMIP5-est1/v2	All-Hist/est1 (Hist:GHG,AER-bu)	Partly done: Amon, Aday
		Nat-Hist/CMIP5-est1/v2	10 for 1960/01/01-2013/12/30 40 for 2007/01/01-2013/12/30	All-Hist/est1/v2	Nat-Hist/CMIP5-est1 (Hist:AER-bu;PI:GHG)	Partly done: Amon, Aday
		NonGHG-Hist/HadCM3-p50-est1/v1-0	10 for 2009/01/01-2013/06/30 50 for 2008/07/01-2011/10/30	All-Hist/est1/v1-0	NonGHG-Hist/HadCM3-p50-est1 (PI:GHG)	Partly done: Amon, Done: Aday

Summary of all climate simulations submitted to the C20C+ D&A and HAPPI Projects with ISIMIP2b bias-adjusted output

See previous sheet for availability of original data from the simulations listed here.

Author: Daithi Stone (dastone@runbox.com)
Updated: 2018-02-27

Institution	Model	Scenario	Simulations	Comparable scenarios with this model	Comparable against other models (see "Comparison sets" sheet)	Available output
ETH	CAM4-2degree	All-Hist/est1/v1-0	20 for 2006/01/01-2015/12/31	Plus15-Future/CMIP5-MMM-est1/v2-0 Plus20-Future/CMIP5-MMM-est1/v2-0	All-Hist/est1 (Hist:GHG,AER-bu,OZO,VOL,SOL,LUC)	Done: Aday-ISIMIP2b
		Plus15-Future/CMIP5-MMM-est1/v2-0	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Plus20-Future/CMIP5-MMM-est1/v2-0	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,R26:GHG,AER-bu,OZO,LUC)	Done: Aday-ISIMIP2b
		Plus20-Future/CMIP5-MMM-est1/v2-0	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,R26:AER-em,OZO,LUC,R2645:GHG)	Done: Aday-ISIMIP2b
MIROC	MIROC5	All-Hist/est1/v2-0	20 for 2006/01/01-2015/12/31	Plus15-Future/CMIP5-MMM-est1/v3-0 Plus20-Future/CMIP5-MMM-est1/v2-0	All-Hist/est1 (Hist:GHG,AER-em,OZO,VOL,SOL,LUC)	Done: Aday-ISIMIP2b
		Plus15-Future/CMIP5-MMM-est1/v3-0	20 for 2106/01/01-2115/12/31	All-Hist/est1/v2-0 Plus20-Future/CMIP5-MMM-est1/v2-0	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,LUC,R26:GHG,AER-bu,OZO)	Done: Aday-ISIMIP2b
		Plus20-Future/CMIP5-MMM-est1/v2-0	20 for 2106/01/01-2115/12/31	All-Hist/est1/v2-0 Plus15-Future/CMIP5-MMM-est1/v3-0	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,R26:AER-em,OZO,LUC,R2645:GHG)	Done: Aday-ISIMIP2b
MPI-M	ECHAM6-3-LR	All-Hist/est1/v1-0	20 for 2006/01/01-2015/12/31	Plus15-Future/CMIP5-MMM-est1/v2-0 Plus20-Future/CMIP5-MMM-est1/v2-0	All-Hist/est1 (Hist:GHG,AER-bu,OZO,VOL,SOL,LUC)	Done: Aday-ISIMIP2b
		Plus15-Future/CMIP5-MMM-est1/v2-0	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Plus20-Future/CMIP5-MMM-est1/v2-0	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,R26:GHG,AER-bu,OZO,LUC)	Done: Aday-ISIMIP2b
		Plus20-Future/CMIP5-MMM-est1/v2-0	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v2-0	Plus20-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,R26:AER-bu,OZO,LUC,R2645:GHG)	Done: Aday-ISIMIP2b
NCC	NorESM1-HAPPI	All-Hist/est1/v1-0	20 for 2006/01/01-2015/12/31	Plus15-Future/CMIP5-MMM-est1/v1-0 Plus20-Future/CMIP5-MMM-est1/v1-0	All-Hist/est1 (Hist:GHG,AER-em,OZO,SOL,LUC)	Done: Aday-ISIMIP2b
		Plus15-Future/CMIP5-MMM-est1/v1-0	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Plus20-Future/CMIP5-MMM-est1/v1-0	Plus15-Future/CMIP5-MMM-est1 (Hist:SOL,R26:GHG,AER-em,LUC,R26-Dec:OZO)	Done: Aday-ISIMIP2b
		Plus20-Future/CMIP5-MMM-est1/v1-0	20 for 2106/01/01-2115/12/31	All-Hist/est1/v1-0 Plus15-Future/CMIP5-MMM-est1/v1-0	Plus20-Future/CMIP5-MMM-est1 (Hist:SOL,R26:AER-em,LUC,R26-Dec:OZO,R2645:GHG)	Done: Aday-ISIMIP2b

Summary of all non-climate model simulations submitted to the C20C+ D&A Project

Author: Dáithí Stone (dstone@runbox.com)
 Updated: 2017-12-15

Institution	Model	Scenario	Simulations	Comparable scenarios with this model	Available output
LBNL	MIROC	All-Hist/est1/v1-0-CAM5-1-025degree-v1-0	4 for 1995/01/01-2005/12/31	All-Hist/est1/v1-0-CAM5-1-1degree-v2-0 PlusRCP85/MRI-est1/v1-0-CAM5-1-025degree-v1-0	Done: WW3hr
		All-Hist/est1/v1-0-CAM5-1-1degree-v2-0	1 for 1960/01/01-2012/12/31	All-Hist/est1/v1-0-CAM5-1-025degree-v1-0	Done: WW3hr
		PlusRCP85/MRI-est1/v1-0-CAM5-1-025degree-v1-0	1 for 2081/01/01-2099/12/31 1 for 2080/01/01-2083/12/31	All-Hist/est1/v1-0-CAM5-1-025degree-v1-0	Done: WW3hr

Lists of simulations with identical experiment setup

Author: Daijhi Stone (dstone@runbox.com)
 Updated: 2019-03-14

Experiment family	Comparison set	Simulations	Historical forings	Present-day forcings	Pre-industrial forcings	RCP2.6 forcings	RCP2.6 forcings (December 2100)	Interpolated RCP2.6/RCP4.5 forcings	RCP8.5 forcings	SSP1 forcings	SSP2 forcings
All-Hist-est1	All-Hist/est1 (Hist:GHG,AER-em,OZO,VOL,SOL,LUC)	MIROC/MIROCS/All-Hist/est1V2-0 MOHC/HadGEM3-A-N216/All-Hist/est1V1-0 MOHC/HadGEM3-A-N216/All-Hist/est1V1-0Short NOAA-ESRLandCIRES/CAM5.1.1-1degree/All-Hist/est1V1-0	GHG AER (emissions) OZO VOL SOL LUC								
	All-Hist/est1 (Hist:GHG,AER-bu,OZO,VOL,SOL,LUC)	ETH/CAM4-2degree/All-Hist/est1V1-0 MPI-MECHAM5-3-LR/All-Hist/est1V1-0 MPI-MECHAM5-3-LR/All-Hist/est1V1-1 NOAA-ESRLandCIRES/CAM4/All-Hist/est1V1-0	GHG AER (burdens) OZO VOL SOL LUC								
	All-Hist/est1 (Hist:GHG,AER-em,OZO,SOL,LUC)	NCC/NorESM1-HAPPI/All-Hist/est1V1-0	GHG AER (emissions) OZO VOL SOL LUC								
	All-Hist/est1 (Hist:GHG,AER-bu,OZO,SOL,LUC)	LBNL/CAM5.1-1degree/All-Hist/est1V2-0	GHG AER (burdens) OZO VOL SOL LUC								
	All-Hist/est1 (Hist:GHG,AER-em,OZO,VOL,SOL; PI:LUC)	LBNL/CAM5.1.2-0.25degree/All-Hist/est1V1-0-aero	GHG AER (emissions) OZO VOL SOL			LUC					
	All-Hist/est1 (Hist:GHG,AER-bu,OZO,SOL; PI:LUC)	LBNL/CAM5.1.2-0.25degree/All-Hist/est1V1-0	GHG AER (burdens) OZO VOL SOL			LUC					
	All-Hist/est1 (Hist:GHG,OZO,SOL,LUC; PD:AER-bu)	LBNL/CAM5.1-1degree/All-Hist/est1V1-0 LBNL/CAM5.1-2degree/All-Hist/est1V1-1	GHG OZO VOL SOL LUC	AER (burdens)							
	All-Hist/est1 (Hist:GHG,OZO,SOL; PD:AER-bu; PI:LUC)	LBNL/CAM5.1-0.25degree/All-Hist/est1V1-0	GHG OZO VOL SOL	AER (burdens)		LUC					
	All-Hist/est1 (Hist:GHG,OZO,LUC; PD:AER-bu,VOL)	NOAA-ESRLandCIRES/ECHAM5.4/All-Hist/est1V1-0	GHG OZO VOL LUC	AER (burdens)	VOL						
	All-Hist/est1 (Hist:GHG,AER-bu)	UCT-CSAG/HadAM3P-N96/All-Hist/est1V2	GHG AER (burdens)								
All-Hist/est1 (Hist:GHG)	UCT-CSAG/HadAM3P-N96/All-Hist/est1V1-0	GHG									
All-Hist/est1 (pending classification)	ARCCSS/ACCESS1.3/All-Hist/est1V1-0 CCMa/CanAM4/All-Hist/est1V1-0	?	?	?	?	?	?	?	?	?	
Nat-Hist/CMIP5-est1	Nat-Hist/CMIP5-est1 (Hist:VOL,SOL; PI:GHG,AER-em,OZO,LUC)	MIROC/MIROCS/Nat-Hist/CMIP5-est1V2-0 MOHC/HadGEM3-A-N216/Nat-Hist/CMIP5-est1V1-0 MOHC/HadGEM3-A-N216/Nat-Hist/CMIP5-est1V1-0Short	VOL SOL	GHG AER (emissions) OZO LUC							
	Nat-Hist/CMIP5-est1 (Hist:VOL,SOL,LUC; PI:GHG,AER-bu,OZO)	ETH/CAM4-2degree/Nat-Hist/CMIP5-est1V1-0	VOL SOL LUC	GHG AER (burdens) OZO LUC							
	Nat-Hist/CMIP5-est1 (Hist:SOL; PI:GHG,AER-bu,OZO,LUC)	LBNL/CAM5.1.2-0.25degree/Nat-Hist/CMIP5-est1V1-0	SOL	GHG AER (burdens) OZO LUC							
	Nat-Hist/CMIP5-est1 (Hist:SOL,LUC; PI:GHG,AER-bu,OZO)	LBNL/CAM5.1-1degree/Nat-Hist/CMIP5-est1V2-0	SOL LUC	GHG AER (burdens) OZO LUC							
	Nat-Hist/CMIP5-est1 (Hist:AER-bu; PI:GHG)	UCT-CSAG/HadAM3P-N96/Nat-Hist/CMIP5-est1V2	AER (burdens)	GHG							
Nat-Hist/obs-trend-1880s-est1	Nat-Hist/obs-trend-1880s-est1 (Hist:VOL,SOL; PI:GHG,AER-em,OZO,LUC)	NOAA-ESRLandCIRES/CAM5.1.1-1degree/Nat-Hist/obs-trend-1880s-est1V1-0	VOL SOL	GHG AER (emissions) OZO LUC							
	Nat-Hist/obs-trend-1880s-est1 (Hist:VOL,SOL,LUC; PI:GHG,AER-bu,OZO)	NOAA-ESRLandCIRES/CAM4/Nat-Hist/obs-trend-1880s-est1V1-0	VOL SOL LUC	GHG AER (burdens) OZO LUC							
	Nat-Hist/obs-trend-1880s-est1 (Hist:LUC; PD:AER-bu,VOL; PI:GHG,OZO)	NOAA-ESRLandCIRES/ECHAM5.4/Nat-Hist/obs-trend-1880s-est1V1-0	LUC	AER (burdens) VOL							
NonGHG-Hist/HadCM3-p50-est1	NonGHG-Hist/HadCM3-p50-est1 (Hist:OZO,SOL,LUC; PD:AER-bu; PI:GHG)	LBNL/CAM5.1-2degree/NonGHG-Hist/HadCM3-p50-est1V1-1	OZO VOL LUC	AER (burdens)	GHG						
	NonGHG-Hist/HadCM3-p50-est1 (PI:GHG)	UCT-CSAG/HadAM3P-N96/NonGHG-Hist/HadCM3-p50-est1V1-0			GHG						
Plus15-Future/CMIP5-MMM-est1	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL; R26:GHG,AER-em,OZO,LUC)	MIROC/MIROCS/Plus15-Future/CMIP5-MMM-est1V3-0	VOL SOL	GHG AER (emissions) OZO VOL LUC							
	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL; R26:GHG,AER-bu,OZO,LUC)	ETH/CAM4-2degree/Plus15-Future/CMIP5-MMM-est1V2-0 MPI-MECHAM5-3-LR/Plus15-Future/CMIP5-MMM-est1V2-0	VOL SOL	GHG AER (burdens) OZO VOL LUC							
	Plus15-Future/CMIP5-MMM-est1 (Hist:SOL; R26:GHG,AER-em,OZO,LUC)	NCC/NorESM1-HAPPI/Plus15-Future/CMIP5-MMM-est1V2-0	SOL	GHG AER (burdens) OZO VOL LUC							
	Plus15-Future/CMIP5-MMM-est1 (Hist:SOL; R26:GHG,AER-em,LUC; R26-Dec:OZO)	NCC/NorESM1-HAPPI/Plus15-Future/CMIP5-MMM-est1V1-0	SOL	GHG AER (emissions) VOL LUC			OZO				
	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,LUC; R26:GHG,AER-bu,OZO)	ETH/CAM4-2degree/Plus15-Future/CMIP5-MMM-est1V2-0-LandHist	VOL SOL LUC	GHG AER (burdens) OZO VOL LUC							
	Plus15-Future/CMIP5-MMM-est1 (Hist:VOL,SOL,LUC; R26:GHG,AER-em,OZO)	MIROC/MIROCS/Plus15-Future/CMIP5-MMM-est1V2-0-LandHist	VOL SOL LUC	GHG AER (emissions) OZO VOL LUC							
	Plus15-Future/CMIP5-MMM-est1 (Hist:SOL; PI:LUC; R26:GHG,AER-bu,OZO)	LBNL/CAM5.1.2-0.25degree/Plus15-Future/CMIP5-MMM-est1V1-0	SOL	GHG AER (burdens) OZO VOL LUC			LUC				

