

AR6 WGI Report – List of corrigenda to be implemented

The corrigenda listed below will be implemented in the Supplementary Material during copy-editing.

CHAPTER 8 SUPPLEMENTARY MATERIAL

Document (Chapter, Annex, Supp. Mat...)	Section	Page :Line (based on the final pdf FGD version)	Detailed info on correction to make
8SM	8.SM.1	3	In Table 8.SM.1: Row 1, Column 1: “Figure number / Table number / Chapter section (for calculations)” replace with “Figure / Table number”
8SM	8.SM.1	4	In Table 8.SM.1: Row 3 moved to row 4, “Figure 8.4” replace by “Figure 8.5”
8SM	8.SM.1	4	In Table 8.SM.1: Row 4 (now became new row 3), “Figure 8.5” replace with “Figure 8.4”
8SM	8.SM.1	16	In Table 8.SM.1: Row 11, Column 7: “https://github.com/senesis/some_chap8_figures” replace with “https://github.com/IPCC-WG1/Chapter-8”
8SM	8.SM.1	16	In Table 8.SM.1: Row 11, Column 8: Delete “CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)”
8SM	8.SM.1	19	In Table 8.SM.1: Row 4, Column 7: “https://github.com/senesis/some_chap8_figures” replace with “https://github.com/IPCC-WG1/Chapter-8”
8SM	8.SM.1	19	In Table 8.SM.1: Row 4, Column 8: Delete “CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)”
8SM	8.SM.1	21	In Table 8.SM.1: Row 15, Column 7: “https://github.com/senesis/some_chap8_figures” replace with “https://github.com/IPCC-WG1/Chapter-8”
8SM	8.SM.1	21	In Table 8.SM.1: Row 15, Column 8: Delete “CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)”
8SM	8.SM.1	25	In Table 8.SM.1: Row 3, Column 7: “https://github.com/senesis/some_chap8_figures” replace with “https://github.com/IPCC-WG1/Chapter-8”
8SM	8.SM.1	26	In Table 8.SM.1: Row 3, Column 8: Delete “CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)”
8SM	8.SM.1	28	In Table 8.SM.1: Row 1, Column 7: “https://github.com/senesis/some_chap8_figures” replace with “https://github.com/IPCC-WG1/Chapter-8”
8SM	8.SM.1	28	In Table 8.SM.1: Row 1, Column 8: Delete “CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)”
8SM	8.SM.1	32	In Table 8.SM.1: Row 2, Column 7: “https://github.com/senesis/some_chap8_figures” replace with “https://github.com/IPCC-WG1/Chapter-8”
8SM	8.SM.1	32	In Table 8.SM.1: Row 2, Column 8: Delete “CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)”
8SM	8.SM.1	34	In Table 8.SM.1: Row 12, Column 7: “https://github.com/senesis/some_chap8_figures” replace with “https://github.com/IPCC-WG1/Chapter-8”
8SM	8.SM.1	34	In Table 8.SM.1: Row 12, Column 8: Delete “CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)”
8SM	8.SM.1	38	In Table 8.SM.1: Row 9, Column 7: “https://github.com/senesis/some_chap8_figures” replace with “https://github.com/IPCC-WG1/Chapter-8”
8SM	8.SM.1	38	In Table 8.SM.1: Row 9, Column 8: Delete “CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)”

8SM	8.SM.1	39	In Table 8.SM.1: Row 3, Column 7: “ https://github.com/senesis/some_chap8_figures ” replaced with “ https://github.com/IPCC-WG1/Chapter-8 ”
8SM	8.SM.1	39	In Table 8.SM.1: Row 3, Column 8: Deleted “CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)”
8SM	8.SM.1	39	In Table 8.SM.1: Row 4, Column 7: “ https://github.com/senesis/some_chap8_figures ” replaced with “ https://github.com/IPCC-WG1/Chapter-8 ”
8SM	8.SM.1	39	In Table 8.SM.1: Row 4, Column 8: Deleted “CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)”
8SM			Update the Data Table with omitted data citations for climate model data.

Chapter 8: Water cycle changes - Supplementary Material

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This document is subject to copy-editing, corrigenda and trickle backs.

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SUBJECT TO FINAL EDITING

8.SM.1 Data Table**[START TABLE 8.SM.1 HERE]****Table 8.SM.1:** Input Data Table. Input datasets and code used to create chapter figures.

Figure number / Table number / Chapter section (for calculations)	Dataset / Code name	Type	Filename / Specificities	License type	Dataset / Code citation	Dataset / Code URL	Related publications / Software used
Figure 8.1		Schematic : Depiction of the water cycle based on previous assessments					(Trenberth et al., 2011; Rodell et al., 2015; Abbott et al., 2019) with minor adjustments for groundwater flows (Kwon et al., 2014; Zhou et al., 2019; Luijendijk et al., 2020), seasonal snow (Pulliainen et al., 2020) and ocean precipitation and evaporation (Stephens et al., 2012; Allan et al., 2020; Gutenstein et al., 2020)

Figure 8.2		Schematic of the chapter structure and quick guide to the chapter content.					
Figure 8.3		Schematic representation of fast and slow responses of the atmospheric energy balance and global precipitation to radiative forcing					adapted from (Allan et al., 2020, Chapter 7 Figure 7.2 and Figure 8.1).
Figure 8.4	Historical (1995–2014) and SSP2-4.5 (2081–2100) CMIP6 simulations.						
Figure 8.5	GPCP/HadCRUTv4.6 High resolution models including regional climate models (RCM) and cloud resolving models (CRMs)						GCM experiments (Fläschner et al., 2016; Richardson et al., 2018; Samset et al., 2018; Pendergrass, 2020; Rehfeld et al., 2020) (GPCP/HadCRUTv

						4.6) (Adler et al., 2017; Allan et al., 2020). GCMs and a observationally constrained estimate (O’Gorman, 2012; Fischer and Knutti, 2015; Bao et al., 2017; Borodina et al., 2017) and estimates from observed changes (Westra et al., 2013; Fischer and Knutti, 2015; Donat et al., 2016; Borodina et al., 2017; Sun et al., 2020; Zeder and Fischer, 2020) and for hourly and sub-hourly extremes based on observed changes (Westra and Sisson, 2011; Westra et al., 2013; Barbero et al., 2017; Guerreiro et al., 2018) and high resolution models including regional climate models (RCM) and cloud resolving models
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							(CRMs) (Ban et al., 2015; Chan et al., 2016; Prein et al., 2017; Haerter and Schlemmer, 2018; Lenderink et al., 2019).
Figure 8.6		Schematic: Climatic drivers of drought					
Figure 8.7	GPCP GPCC CMIP6/DAMIP					https://psl.noaa.gov/data/gridded/data.gpcp.html https://psl.noaa.gov/data/gridded/data.gpcc.html https://esgf-node.llnl.gov/search/cmip6/	NCL
CMIP6 model data							
ACCESS-ESM1-5: historical, hist-GHG, hist-aer, hist-nat	Input dataset				(Ziehn et al., 2019a, 2020a, 2020c, 2020b)		
BCC-CSM2-MR: historical, hist-GHG, hist-aer, hist-nat	Input dataset				(Wu et al., 2018a, 2019b, 2019a, 2019c)		
CNRM-CM6-1: historical, hist-GHG, hist-aer, hist-nat	Input dataset				(Voldoire, 2018a, 2019f, 2019e, 2019g)		
CanESM5: historical, hist-GHG, hist-aer, hist-nat	Input dataset				(Swart et al., 2019k, 2019j, 2019l, 2019h)		

	FGOALS-g3: hist-GHG, hist-aer, hist-nat, historical	Input dataset			(Li, 2020b, 2020d, 2020a, 2020c)		
	HadGEM3-GC31-LL: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Jones, 2019a, 2019b, 2019c; Ridley et al., 2019a)		
	IPSL-CM6A-LR: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Boucher et al., 2018f, 2018d, 2018e, 2018b)		
	MIROC6: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Tatebe and Watanabe, 2018b; Shiogama, 2019a, 2019b, 2019c)		
	MRI-ESM2-0: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Yukimoto et al., 2019b, 2019f, 2019d, 2019e)		
Figure 8.8	GLDAS CMIP6/DAMIP					https://disc.gsfc.nasa.gov/datasets?keywords=GLDAS https://esgf-node.llnl.gov/search/cmip6/	NCL
CMIP6 model data							
	ACCESS-ESM1-5: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Ziehn et al., 2019a, 2020a, 2020c, 2020b)		
	BCC-CSM2-MR: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Wu et al., 2018a, 2019b, 2019a, 2019c)		
	CNRM-CM6-1: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Voldoire, 2018a, 2019f, 2019e, 2019g)		
	CanESM5: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Swart et al., 2019k, 2019j, 2019l, 2019h)		

	FGOALS-g3: hist-GHG, hist-aer, hist-nat, historical	Input dataset			(Li, 2020b, 2020d, 2020a, 2020c)		
	HadGEM3-GC31-LL: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Jones, 2019a, 2019b, 2019c; Ridley et al., 2019a)		
	IPSL-CM6A-LR: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Boucher et al., 2018f, 2018d, 2018e, 2018b)		
	MIROC6: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Tatebe and Watanabe, 2018b; Shiogama, 2019a, 2019b, 2019c)		
	MRI-ESM2-0: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Yukimoto et al., 2019b, 2019f, 2019d, 2019e)		
Figure 8.9	CMIP6/DAMIP						(Bonfils et al., 2020).
Figure 8.10	GRACE Satellite observations						Rodell et al. (2018).
Figure 8.11	GPCP GPCC APHRO_MA_050deg_V1101 APHRO_MA_050deg_V1901 CMIP6/DAMIP	Regional shape file				https://psl.noaa.gov/data/gridded/data.gpcp.html https://psl.noaa.gov/data/gridded/data.gpcc.html https://climatedataguide.ucar.edu/climate-data/aphrodite-asian-precipitation-highly-resolved-observational-data-integration-towards	NCL

					https://esgf-node.llnl.gov/search/cmip6/	
CMIP6 model data						
	ACCESS-ESM1-5: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Ziehn et al., 2019a, 2020a, 2020c, 2020b)	
	BCC-CSM2-MR: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Wu et al., 2018a, 2019b, 2019a, 2019c)	
	CNRM-CM6-1: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Voldoire, 2018a, 2019f, 2019e, 2019g)	
	CanESM5: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Swart et al., 2019k, 2019j, 2019l, 2019h)	
	FGOALS-g3: hist-GHG, hist-aer, hist-nat, historical	Input dataset			(Li, 2020b, 2020d, 2020a, 2020c)	
	HadGEM3-GC31-LL: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Jones, 2019a, 2019b, 2019c; Ridley et al., 2019a)	
	IPSL-CM6A-LR: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Boucher et al., 2018f, 2018d, 2018e, 2018b)	
	MIROC6: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Tatebe and Watanabe, 2018b; Shiogama, 2019a, 2019b, 2019c)	
	MRI-ESM2-0: historical, hist-GHG, hist-aer, hist-nat	Input dataset			(Yukimoto et al., 2019b, 2019f, 2019d, 2019e)	
Figure 8.12	CFSR, ERA5, JRA55, ERA-I, MERRA2					(Tilinina et al., submitted).

Figure 8.13	ACCESS-CM2: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Dix et al., 2019d, 2019a, 2019e, 2019b, 2019c)		
	ACCESS-ESM1-5: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Ziehn et al., 2019a, 2019e, 2019d, 2019b, 2019c)		
	AWI-CM-1-1-MR: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Semmler et al., 2018c, 2018d, 2018a, 2018b, 2019)		
	BCC-CSM2-MR: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Wu et al., 2018a, 2018b, Xin et al., 2019a, 2019c, 2019b)		
	BCC-ESM1: piControl	Input dataset			(Zhang et al., 2018)		
	CAMS-CSM1-0: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Rong, 2019d, 2019e, 2019b, 2019f, 2019c)		
	CAS-ESM2-0: piControl	Input dataset			(Chai, 2020)		
	CESM2: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Danabasoglu, 2019j, 2019m, 2019l, 2019k; Danabasoglu et al., 2019)		
	CESM2-FV2: piControl	Input dataset			(Danabasoglu, 2019a)		
	CESM2-WACCM: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Danabasoglu, 2019d, 2019e, 2019f, 2019h, 2019g)		
	CESM2-WACCM-FV2: piControl	Input dataset			(Danabasoglu, 2019b)		
	CIesm: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Huang, 2019a, 2019c, 2019b, 2020b, 2020a)		
	CMCC-CM2-SR5: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Lovato and Peano, 2020b, 2020c, 2020a, 2020d, 2020e)		

	CNRM-CM6-1: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Voldoire, 2018b, 2018a, 2019j, 2019i, 2019h)		
	CNRM-CM6-1-HR: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Voldoire, 2019a, 2019d, 2019b, 2019c, 2020)		
	CNRM-ESM2-1: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Seferian, 2018b, 2018c, Voldoire, 2019m, 2019l, 2019k)		
	CanESM5: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Swart et al., 2019n, 2019i, 2019o, 2019m, 2019h)		
	CanESM5-CanOE: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Swart et al., 2019f, 2019e, 2019d, 2019c, 2019b)		
	E3SM-1-0: piControl	Input dataset			(Bader et al., 2018)		
	EC-Earth3: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(EC-Earth Consortium (EC-Earth), 2019g, 2019j, 2019h, 2019k, 2019i)		
	EC-Earth3-AerChem: piControl	Input dataset			(EC-Earth Consortium (EC-Earth), 2020a)		
	EC-Earth3-LR: piControl	Input dataset			(EC-Earth Consortium (EC-Earth), 2019a)		
	EC-Earth3-Veg: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(EC-Earth Consortium (EC-Earth), 2019e, 2019c, 2019f, 2019d, 2019b)		
	EC-Earth3-Veg-LR: piControl	Input dataset			(EC-Earth Consortium (EC-Earth), 2020c)		
	FGOALS-f3-L: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Yu, 2019e, 2019c, 2019a, 2019d, 2019b)		
	FGOALS-g3: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Li, 2019f, 2019e, 2019b, 2019c, 2019d)		

	FIO-ESM-2-0: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Song et al., 2019e, 2019b, 2019d, 2019c, 2019a)		
	GFDL-CM4: historical, piControl, ssp245, ssp585	Input dataset			(Guo et al., 2018e, 2018d, 2018b, 2018c)		
	GFDL-ESM4: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(John et al., 2018a, 2018b, 2018c, Krasting et al., 2018b, 2018c)		
	GISS-E2-1-G: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(NASA Goddard Institute for Space Studies (NASA/GISS), 2018c, 2018b, 2020a, 2020c, 2020b)		
	GISS-E2-1-H: piControl	Input dataset			(NASA Goddard Institute for Space Studies (NASA/GISS), 2018d)		
	HadGEM3-GC31-LL: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Ridley et al., 2018, 2019a, Good, 2019, 2020a, 2020b)		
	HadGEM3-GC31-MM: historical, piControl, ssp126, ssp585	Input dataset			(Ridley et al., 2019c, 2019b, Jackson, 2020b, 2020a)		
	INM-CM4-8: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Volodin et al., 2019d, 2019b, 2019c, 2019f, 2019e)		
	INM-CM5-0: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Volodin et al., 2019j, 2019k, 2019i, 2019h, 2019l)		
	IPSL-CM5A2-INCA: historical, ssp126	Input dataset			(Boucher et al., 2020a, 2020b)		
	IPSL-CM6A-LR: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Boucher et al., 2018c, 2018b, 2019a, 2019b, 2019c)		
	KACE-1-0-G: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Byun et al., 2019b, 2019f, 2019c, 2019e, 2019a)		

	MCM-UA-1-0: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Stouffer, 2019f, 2019b, 2019c, 2019e, 2019d)		
	MIROC-ES2L: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Hajima et al., 2019b, 2019c, Tachiiri et al., 2019b, 2019c, 2019a)		
	MIROC6: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Tatebe and Watanabe, 2018b, 2018c, Shiogama et al., 2019c, 2019a, 2019b)		
	MPI-ESM-1-2-HAM: piControl	Input dataset			(Neubauer et al., 2019)		
	MPI-ESM1-2-HR: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Jungclaus et al., 2019b, 2019a, Schupfner et al., 2019a, 2019b, 2019c)		
	MPI-ESM1-2-LR: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Wieners et al., 2019b, 2019a, 2019c, 2019d, 2019e)		
	MPI-ESM2-0: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Yukimoto et al., 2019c, 2019g, 2019b, 2019h, 2019i)		
	NESM3: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Cao, 2019b, 2019c, 2019a, Cao and Wang, 2019c, 2019b)		
	NorCPM1: piControl	Input dataset			(Bethke et al., 2019)		
	NorESM1-F: piControl	Input dataset			(Guo et al., 2019)		
	NorESM2-LM: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Seland et al., 2019d, 2019e, 2019c, 2019b, 2019a)		
	NorESM2-MM: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Bentsen et al., 2019b, 2019c, 2019a, 2019e, 2019d)		

	SAM0-UNICON: piControl	Input dataset			(Park and Shin, 2019)		
	TaiESM1: historical, piControl, ssp585	Input dataset			(Lee and Liang, 2020b, 2020a, 2020c)		
	UKESM1-0-LL: historical, piControl, ssp126, ssp245, ssp585	Input dataset			(Good et al., 2019a, 2019c, 2019b, Tang et al., 2019b, 2019c)		
	Figure 8.13 Code	Code	Fig8-13.sh (compute and plot)			https://github.com/ senesis/some_chap 8_figures	CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)
Figure 8.14	CMIP6 model data						
	ACCESS-CM2: historical, ssp245	Input dataset			(Dix et al., 2019d, 2019a)		
	ACCESS-ESM1-5: historical, ssp245	Input dataset			(Ziehn et al., 2019a, 2019d)		
	AWI-CM-1-1-MR: historical, ssp245	Input dataset			(Semmler et al., 2018d, 2018a)		
	BCC-CSM2-MR: historical, ssp245	Input dataset			(Wu et al., 2018a; Xin et al., 2019b)		
	CAMS-CSM1-0: historical, ssp245	Input dataset			(Rong, 2019e, 2019b)		
	CESM2: historical, ssp245	Input dataset			(Danabasoglu, 2019j, 2019l)		
	CESM2-WACCM: historical, ssp245	Input dataset			(Danabasoglu, 2019d, 2019g)		
	CIESM: historical, ssp245	Input dataset			(Huang, 2019a, 2020a)		
	CMCC-CM2-SR5: historical, ssp245	Input dataset			(Lovato and Peano, 2020a, 2020d)		
	CNRM-CM6-1: historical, ssp245	Input dataset			(Voldoire, 2018a, 2019i)		
	CNRM-CM6-1-HR: historical, ssp245	Input dataset			(Voldoire, 2019a, 2019c)		

CNRM-ESM2-1: historical, ssp245	Input dataset			(Seferian, 2018b; Voldoire, 2019l)		
CanESM5: historical, ssp245	Input dataset			(Swart et al., 2019n, 2019h)		
CanESM5-CanOE: historical, ssp245	Input dataset			(Swart et al., 2019e, 2019b)		
EC-Earth3: historical, ssp245	Input dataset			(EC-Earth Consortium (EC-Earth), 2019g, 2019j)		
EC-Earth3-Veg: historical, ssp245	Input dataset			(EC-Earth Consortium (EC-Earth), 2019e, 2019b)		
FGOALS-f3-L: historical, ssp245	Input dataset			(Yu, 2019a, 2019d)		
FGOALS-g3: historical, ssp245	Input dataset			(Li, 2019e, 2019b)		
FIO-ESM-2-0: historical, ssp245	Input dataset			(Song et al., 2019d, 2019a)		
GFDL-CM4: historical, ssp245	Input dataset			(Guo et al., 2018d, 2018b)		
GFDL-ESM4: historical, ssp245	Input dataset			(John et al., 2018b; Krasting et al., 2018b)		
GISS-E2-1-G: historical, ssp245	Input dataset			(NASA Goddard Institute for Space Studies (NASA/GISS), 2018b, 2020b)		
HadGEM3-GC31-LL: historical, ssp245	Input dataset			(Good, 2019; Ridley et al., 2019a)		
IITM-ESM: historical, ssp245	Input dataset			(Raghavan and Panickal, 2019; Panickal and Narayanasetti, 2020b)		
INM-CM4-8: historical, ssp245	Input dataset			(Volodin et al., 2019b, 2019e)		
INM-CM5-0: historical, ssp245	Input dataset			(Volodin et al., 2019k, 2019h)		
IPSL-CM6A-LR: historical, ssp245	Input dataset			(Boucher et al., 2018b, 2019b)		
KACE-1-0-G: historical, ssp245	Input dataset			(Byun et al., 2019b, 2019e)		

	MCM-UA-1-0: historical, ssp245	Input dataset		(Stouffer, 2019b, 2019e)		
	MIROC-ES2L: historical, ssp245	Input dataset		(Hajima et al., 2019b; Tachiiri et al., 2019b)		
	MIROC6: historical, ssp245	Input dataset		(Tatebe and Watanabe, 2018b; Shiogama et al., 2019b)		
	MPI-ESM1-2-HR: historical, ssp245	Input dataset		(Jungclaus et al., 2019a; Schupfner et al., 2019b)		
	MPI-ESM1-2-LR: historical, ssp245	Input dataset		(Wieners et al., 2019a, 2019d)		
	MRI-ESM2-0: historical, ssp245	Input dataset		(Yukimoto et al., 2019b, 2019h)		
	NESM3: historical, ssp245	Input dataset		(Cao, 2019b; Cao and Wang, 2019b)		
	NorESM2-LM: historical, ssp245	Input dataset		(Seland et al., 2019d, 2019a)		
	NorESM2-MM: historical, ssp245	Input dataset		(Bentsen et al., 2019a, 2019d)		
	UKESM1-0-LL: historical, ssp245	Input dataset		(Good et al., 2019b; Tang et al., 2019b)		
	Figure 8.14 Code	Code	Fig8-14.sh (compute and plot)		https://github.com/senesis/some_chap_8_figures	CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)
Figure 8.15	CMIP6 model data					
	ACCESS-CM2: historical, ssp126, ssp245, ssp585	Input dataset		(Dix et al., 2019d, 2019a, 2019e, 2019c)		
	ACCESS-ESM1-5: historical, ssp126, ssp245, ssp585	Input dataset		(Ziehn et al., 2019a, 2019e, 2019d, 2019c)		
	BCC-CSM2-MR: historical, ssp126, ssp245, ssp585	Input dataset		(Wu et al., 2018a; Xin et al., 2019a, 2019c, 2019b)		

CAMS-CSM1-0: historical, ssp126, ssp245, ssp585	Input dataset			(Rong, 2019d, 2019e, 2019b, 2019f)		
CESM2-WACCM: historical, ssp126, ssp245, ssp585	Input dataset			(Danabasoglu, 2019d, 2019f, 2019h, 2019g)		
CMCC-CM2-SR5: historical, ssp126, ssp245, ssp585	Input dataset			(Lovato and Peano, 2020c, 2020a, 2020d, 2020e)		
CNRM-CM6-1-HR: historical, ssp126, ssp585	Input dataset			(Voldoire, 2018a, 2019j, 2019i, 2019h)		
				(Voldoire, 2019a, 2019d, 2020)		
CNRM-ESM2-1: historical, ssp126, ssp245, ssp585	Input dataset Input dataset			(Seferian, 2018b; Voldoire, 2019m, 2019l, 2019k)		
CanESM5: historical, ssp126, ssp245, ssp585	Input dataset			(Swart et al., 2019n, 2019o, 2019m, 2019h)		
EC-Earth3: historical, ssp126, ssp245, ssp585	Input dataset			(EC-Earth Consortium (EC-Earth), 2019g, 2019j, 2019k, 2019i)		
EC-Earth3-Veg: historical, ssp126, ssp245, ssp585	Input dataset			(EC-Earth Consortium (EC-Earth), 2019e, 2019f, 2019d, 2019b)		
FGOALS-g3: historical, ssp126, ssp245, ssp585	Input dataset			(Li, 2019f, 2019e, 2019b, 2019d)		
GFDL-CM4: historical, ssp245, ssp585	Input dataset			(Guo et al., 2018e, 2018d, 2018b)		
GFDL-ESM4: historical, ssp126, ssp245	Input dataset			(John et al., 2018a, 2018b; Krasting et al., 2018b)		
HadGEM3-GC31-LL: historical, ssp126, ssp245, ssp585	Input dataset			(Good, 2019, 2020a, 2020b; Ridley et al., 2019a)		
HadGEM3-GC31-MM: historical, ssp126, ssp585	Input dataset			(Ridley et al., 2019b; Jackson, 2020b, 2020a)		

IITM-ESM: historical, ssp126, ssp245, ssp585	Input dataset			(Raghavan and Panickal, 2019; Panickal and Narayanasetti, 2020b, 2020a, 2020c)		
INM-CM4-8: historical, ssp126, ssp245, ssp585	Input dataset			(Volodin et al., 2019d, 2019b, 2019f, 2019e)		
INM-CM5-0: historical, ssp126, ssp245, ssp585	Input dataset			(Volodin et al., 2019j, 2019k, 2019h, 2019l)		
IPSL-CM5A2-INCA: historical, ssp126	Input dataset			(Boucher et al., 2020a, 2020b)		
IPSL-CM6A-LR: historical, ssp126, ssp245, ssp585	Input dataset			(Boucher et al., 2018b, 2019a, 2019b, 2019c)		
KACE-1-0-G: historical, ssp126, ssp245, ssp585	Input dataset			(Byun et al., 2019b, 2019c, 2019e, 2019a)		
MIROC-ES2L: historical, ssp126, ssp245, ssp585	Input dataset			(Hajima et al., 2019b; Tachiiri et al., 2019b, 2019c, 2019a)		
MIROC6: historical, ssp126, ssp245, ssp585	Input dataset			(Tatebe and Watanabe, 2018b; Shiogama et al., 2019c, 2019a, 2019b)		
MPI-ESM1-2-HR: historical, ssp126, ssp245, ssp585	Input dataset			(Jungclaus et al., 2019a; Schupfner et al., 2019a, 2019b, 2019c)		
MPI-ESM1-2-LR: historical, ssp126, ssp245, ssp585	Input dataset			(Wieners et al., 2019a, 2019c, 2019d, 2019e)		
MRI-ESM2-0: historical, ssp126, ssp245, ssp585	Input dataset			(Yukimoto et al., 2019g, 2019b, 2019h, 2019i)		
NESM3: historical, ssp126, ssp245, ssp585	Input dataset			(Cao, 2019b, 2019c, 2019a; Cao and Wang, 2019b)		
NorESM2-LM: historical, ssp126, ssp245, ssp585	Input dataset			(Seland et al., 2019d, 2019e, 2019c, 2019a)		

	NorESM2-MM: historical, ssp126, ssp245, ssp585	Input dataset			(Bentsen et al., 2019c, 2019a, 2019e, 2019d)		
	TaiESM1: historical, ssp585	Input dataset			(Lee and Liang, 2020a, 2020c)		
	UKESM1-0-LL: historical, ssp126, ssp245, ssp585	Input dataset			(Good et al., 2019a, 2019c, 2019b; Tang et al., 2019b)		
	Figure 8.15 Code	Code	Fig8-15.sh (compute) Fig8-15_figure.sh (plot)			https://github.com/senesis/some_chap_8_figures	CAMMAC : (Sénési, 2020) CliMAF : (Sénési et al., 2021)
Figure 8.16	CMIP6 model data						
	ACCESS-CM2: historical, ssp585	Input dataset			(Dix et al., 2019a, 2019e)		
	ACCESS-ESM1-5: historical, ssp585	Input dataset			(Ziehn et al., 2019a, 2019e)		
	AWI-CM-1-1-MR: historical, ssp585	Input dataset			(Semmler et al., 2018a, 2019)		
	BCC-CSM2-MR: historical, ssp585	Input dataset			(Wu et al., 2018a; Xin et al., 2019c)		
	CAMS-CSM1-0: historical, ssp585	Input dataset			(Rong, 2019b, 2019f)		
	CESM2: historical, ssp585	Input dataset			(Danabasoglu, 2019j, 2019m)		
	CESM2-WACCM: historical, ssp585	Input dataset			(Danabasoglu, 2019d, 2019h)		
	CIESM: historical, ssp585	Input dataset			(Huang, 2019a, 2020b)		
	CMCC-CM2-SR5: historical, ssp585	Input dataset			(Lovato and Peano, 2020a, 2020e)		
	CNRM-CM6-1: historical, ssp585	Input dataset			(Voldoire, 2018a, 2019j)		

CNRM-ESM2-1: historical, ssp585	Input dataset			(Voldoire, 2019a, 2019d)		
				(Seferian, 2018b; Voldoire, 2019m)		
CanESM5: historical, ssp585	Input dataset	Input dataset		(Swart et al., 2019o, 2019h)		
CanESM5-CanOE: historical, ssp585	Input dataset			(Swart et al., 2019f, 2019b)		
EC-Earth3: historical, ssp585	Input dataset			(EC-Earth Consortium (EC-Earth), 2019g, 2019k)		
EC-Earth3-Veg: historical, ssp585	Input dataset			(EC-Earth Consortium (EC-Earth), 2019f, 2019b)		
EC-Earth3-Veg-LR: historical, ssp585	Input dataset			(EC-Earth Consortium (EC-Earth), 2020d, 2020b)		
FGOALS-f3-L: historical, ssp585	Input dataset			(Yu, 2019e, 2019a)		
FGOALS-g3: historical, ssp585	Input dataset			(Li, 2019f, 2019b)		
FIO-ESM-2-0: historical, ssp585	Input dataset			(Song et al., 2019e, 2019a)		
GFDL-CM4: historical, ssp585	Input dataset			(Guo et al., 2018e, 2018b)		
GFDL-ESM4: historical, ssp585	Input dataset			(John et al., 2018c; Krasting et al., 2018b)		
GISS-E2-1-G: historical, ssp585	Input dataset			(NASA Goddard Institute for Space Studies (NASA/GISS), 2018b, 2020c)		
HadGEM3-GC31-LL: historical, ssp585	Input dataset			(Ridley et al., 2019a; Good, 2020b)		
HadGEM3-GC31-MM: historical, ssp585	Input dataset			(Ridley et al., 2019b; Jackson, 2020b)		
IITM-ESM: historical, ssp585	Input dataset			(Raghavan and Panickal, 2019; Panickal and Narayanasetti, 2020c)		
INM-CM4-8: historical, ssp585	Input dataset			(Volodin et al., 2019b, 2019f)		

Final Government Distribution			8.SM	IPCC AR6 WGI
INM-CM5-0: historical, ssp585	Input dataset		(Volodin et al., 2019h, 2019l)	
IPSL-CM6A-LR: historical, ssp585	Input dataset		(Boucher et al., 2018b, 2019c)	
KACE-1-0-G: historical, ssp585	Input dataset		(Byun et al., 2019c, 2019e)	
MCM-UA-1-0: historical, ssp585	Input dataset		(Stouffer, 2019f, 2019b)	
MIROC-ES2L: historical, ssp585	Input dataset		(Hajima et al., 2019b; Tachiiri et al., 2019c)	
MIROC6: historical, ssp585	Input dataset		(Tatebe and Watanabe, 2018b; Shiogama et al., 2019c)	
MPI-ESM1-2-HR: historical, ssp585	Input dataset		(Jungclaus et al., 2019a; Schupfner et al., 2019c)	
MPI-ESM1-2-LR: historical, ssp585	Input dataset		(Wieners et al., 2019a, 2019e)	
MRI-ESM2-0: historical, ssp585	Input dataset		(Yukimoto et al., 2019b, 2019i)	
NorESM3: historical, ssp585	Input dataset		(Cao, 2019c; Cao and Wang, 2019b)	
NorESM2-LM: historical, ssp585	Input dataset		(Seland et al., 2019e, 2019a)	
NorESM2-MM: historical, ssp585	Input dataset		(Bentsen et al., 2019a, 2019e)	
TaiESM1: historical, ssp585	Input dataset		(Lee and Liang, 2020a, 2020c)	
UKESM1-0-LL: historical, ssp585	Input dataset		(Good et al., 2019c; Tang et al., 2019b)	
Figure 8.16 Code	Code	Fig8-16.sh (compute and plot)		https://github.com/senesis/some_chap_8_figures
CMIP6 model data				CAMMAC : (Sénési, 2020) CliMAF : (Sénési et al., 2021)

Final Government Distribution		8.SM		IPCC AR6 WGI	
Figure 8.17	ACCESS-CM2: historical, ssp126, ssp245, ssp585	Input dataset		(Dix et al., 2019d, 2019a, 2019e, 2019c)	
	ACCESS-ESM1-5: historical, ssp126, ssp245, ssp585	Input dataset		(Ziehn et al., 2019a, 2019e, 2019d, 2019c)	
	AWI-CM-1-1-MR: historical, ssp126, ssp245, ssp585	Input dataset		(Semmler et al., 2018c, 2018d, 2018a, 2019)	
	BCC-CSM2-MR: historical, ssp126, ssp245, ssp585	Input dataset		(Wu et al., 2018a; Xin et al., 2019a, 2019c, 2019b)	
	CAMS-CSM1-0: historical, ssp126, ssp245, ssp585	Input dataset		(Rong, 2019d, 2019e, 2019b, 2019f)	
	CESM2: historical, ssp126, ssp245, ssp585	Input dataset		(Danabasoglu, 2019j, 2019m, 2019l, 2019k)	
	CESM2-WACCM: historical, ssp126, ssp245, ssp585	Input dataset		(Danabasoglu, 2019d, 2019f, 2019h, 2019g)	
	CMCC-CM2-SR5: historical, ssp126, ssp245, ssp585	Input dataset		(Lovato and Peano, 2020c, 2020a, 2020d, 2020e)	
	CNRM-CM6-1: historical, ssp126, ssp245, ssp585	Input dataset		(Voldoire, 2018a, 2019j, 2019i, 2019h)	
	CNRM-CM6-1-HR: historical, ssp126, ssp245, ssp585	Input dataset		(Voldoire, 2019a, 2019d, 2019c, 2020)	
	CNRM-ESM2-1: historical, ssp126, ssp245, ssp585	Input dataset		(Seferian, 2018b; Voldoire, 2019m, 2019l, 2019k)	
	CanESM5: historical, ssp126, ssp245, ssp585	Input dataset		(Swart et al., 2019n, 2019o, 2019m, 2019h)	

CanESM5-CanOE: historical, ssp126, ssp245, ssp585	Input dataset		(Swart et al., 2019f, 2019e, 2019d, 2019b)		
EC-Earth3: historical, ssp126, ssp245, ssp585	Input dataset		(EC-Earth Consortium (EC-Earth), 2019g, 2019j, 2019k, 2019i)		
EC-Earth3-Veg: historical, ssp126, ssp245, ssp585	Input dataset		(EC-Earth Consortium (EC-Earth), 2019e, 2019f, 2019d, 2019b)		
FGOALS-f3-L: historical, ssp126, ssp245, ssp585	Input dataset		(Yu, 2019e, 2019c, 2019a, 2019d)		
FGOALS-g3: historical, ssp126, ssp245, ssp585	Input dataset		(Li, 2019f, 2019e, 2019b, 2019d)		
FIO-ESM-2-0: historical, ssp126, ssp245, ssp585	Input dataset		(Song et al., 2019e, 2019d, 2019c, 2019a)		
GFDL-CM4: historical, ssp245, ssp585	Input dataset		(Guo et al., 2018e, 2018d, 2018b)		
GFDL-ESM4: historical, ssp126, ssp245, ssp585	Input dataset		(John et al., 2018a, 2018b, 2018c; Krasting et al., 2018b)		
GISS-E2-1-G: historical, ssp126, ssp245, ssp585	Input dataset		(NASA Goddard Institute for Space Studies (NASA/GISS), 2018b, 2020a, 2020c, 2020b)		
HadGEM3-GC31-LL: historical, ssp126, ssp245, ssp585	Input dataset		(Good, 2019, 2020a, 2020b; Ridley et al., 2019a)		
HadGEM3-GC31-MM: historical, ssp126, ssp585	Input dataset		(Ridley et al., 2019b; Jackson, 2020b, 2020a)		
IITM-ESM: historical, ssp126, ssp245, ssp585	Input dataset		(Raghavan and Panickal, 2019; Panickal and Narayanasetti, 2020b, 2020a, 2020c)		
INM-CM4-8: historical, ssp126, ssp245, ssp585	Input dataset		(Volodin et al., 2019d, 2019b, 2019f, 2019e)		

	INM-CM5-0: historical, ssp126, ssp245, ssp585	Input dataset		(Volodin et al., 2019j, 2019k, 2019h, 2019l)		
	IPSL-CM5A2-INCA: historical, ssp126	Input dataset		(Boucher et al., 2020a, 2020b)		
	IPSL-CM6A-LR: historical, ssp126, ssp245, ssp585	Input dataset		(Boucher et al., 2018b, 2019a, 2019b, 2019c)		
	KACE-1-0-G: historical, ssp126, ssp245, ssp585	Input dataset		(Byun et al., 2019b, 2019c, 2019e, 2019a)		
	MCM-UA-1-0: historical, ssp126, ssp245, ssp585	Input dataset		(Stouffer, 2019f, 2019b, 2019e, 2019d)		
	MIROC-ES2L: historical, ssp126, ssp245, ssp585	Input dataset		(Hajima et al., 2019b; Tachiiri et al., 2019b, 2019c, 2019a)		
	MIROC6: historical, ssp126, ssp245, ssp585	Input dataset		(Tatebe and Watanabe, 2018b; Shiogama et al., 2019c, 2019a, 2019b)		
	MPI-ESM1-2-HR: historical, ssp126, ssp245, ssp585	Input dataset		(Jungclaus et al., 2019a; Schupfner et al., 2019a, 2019b, 2019c)		
	MPI-ESM1-2-LR: historical, ssp126, ssp245, ssp585	Input dataset		(Wieners et al., 2019a, 2019c, 2019d, 2019e)		
	MRI-ESM2-0: historical, ssp126, ssp245, ssp585	Input dataset		(Yukimoto et al., 2019g, 2019b, 2019h, 2019i)		
	NESM3: historical, ssp126, ssp245, ssp585	Input dataset		(Cao, 2019b, 2019c, 2019a; Cao and Wang, 2019b)		
	NorESM2-LM: historical, ssp126, ssp245, ssp585	Input dataset		(Seland et al., 2019d, 2019e, 2019c, 2019a)		
	NorESM2-MM: historical, ssp126, ssp245, ssp585	Input dataset		(Bentsen et al., 2019c, 2019a, 2019e, 2019d)		

	TaiESM1: historical, ssp585	Input dataset			(Lee and Liang, 2020a, 2020c)		
	UKESM1-0-LL: historical, ssp126, ssp245, ssp585	Input dataset			(Good et al., 2019a, 2019c, 2019b; Tang et al., 2019b)		
	Figure 8.17 Code	Code	Fig8-17.sh (compute and plot)			https://github.com/senesis/some_chap8_figures	CAMMAC : (Sénési, 2020) CliMAF : (Sénési et al., 2021)
Figure 8.18	CMIP6 model data						
	ACCESS-CM2: historical, ssp126, ssp245, ssp585	Input dataset			(Dix et al., 2019d, 2019a, 2019e, 2019c)		
	ACCESS-ESM1-5: historical, ssp126, ssp245, ssp585	Input dataset			(Ziehn et al., 2019a, 2019e, 2019d, 2019c)		
	BCC-CSM2-MR: historical, ssp126, ssp245, ssp585	Input dataset			(Wu et al., 2018a; Xin et al., 2019a, 2019c, 2019b)		
	CAMS-CSM1-0: historical, ssp126, ssp245, ssp585	Input dataset			(Rong, 2019d, 2019e, 2019b, 2019f)		
	CESM2: historical, ssp126, ssp245, ssp585	Input dataset			(Danabasoglu, 2019j, 2019m, 2019l, 2019k)		
	CESM2-WACCM: historical, ssp126, ssp245, ssp585	Input dataset			(Danabasoglu, 2019d, 2019f, 2019h, 2019g)		
	CIesm: historical, ssp126, ssp245, ssp585	Input dataset			(Huang, 2019a, 2019c, 2020b, 2020a)		
	CMCC-CM2-SR5: historical, ssp126, ssp245, ssp585	Input dataset			(Lovato and Peano, 2020c, 2020a, 2020d, 2020e)		
	CNRM-CM6-1: historical, ssp126, ssp245, ssp585	Input dataset			(Voldoire, 2018a, 2019j, 2019i, 2019h)		

CNRM-CM6-1-HR: historical, ssp126, ssp245, ssp585	Input dataset			(Voldoire, 2019a, 2019d, 2019c, 2020)		
CNRM-ESM2-1: historical, ssp126, ssp245, ssp585	Input dataset			(Seferian, 2018b; Voldoire, 2019m, 2019l, 2019k)		
CanESM5: historical, ssp126, ssp245, ssp585	Input dataset			(Swart et al., 2019n, 2019o, 2019m, 2019h)		
CanESM5-CanOE: historical, ssp126, ssp245, ssp585	Input dataset			(Swart et al., 2019f, 2019e, 2019d, 2019b)		
EC-Earth3: historical, ssp126, ssp245, ssp585	Input dataset			(EC-Earth Consortium (EC-Earth), 2019g, 2019j, 2019k, 2019i)		
EC-Earth3-Veg: historical, ssp126, ssp245, ssp585	Input dataset			(EC-Earth Consortium (EC-Earth), 2019e, 2019f, 2019d, 2019b)		
FGOALS-f3-L: historical, ssp126, ssp245, ssp585	Input dataset Input dataset Input dataset			(Yu, 2019e, 2019c, 2019a, 2019d)		
FGOALS-g3: historical, ssp126, ssp245, ssp585	Input dataset			(Li, 2019f, 2019e, 2019b, 2019d)		
FIO-ESM-2-0: historical, ssp126, ssp245, ssp585	Input dataset			(Song et al., 2019e, 2019d, 2019c, 2019a)		
GFDL-CM4: historical, ssp245, ssp585	Input dataset			(Guo et al., 2018e, 2018d, 2018b)		
GISS-E2-1-G: historical, ssp126, ssp245, ssp585	Input dataset			(NASA Goddard Institute for Space Studies (NASA/GISS), 2018b, 2020a, 2020c, 2020b)		
HadGEM3-GC31-LL: historical, ssp126, ssp245, ssp585	Input dataset			(Good, 2019, 2020a, 2020b; Ridley et al., 2019a)		

HadGEM3-GC31-MM: historical, ssp126, ssp585	Input dataset		(Ridley et al., 2019b; Jackson, 2020b, 2020a)		
INM-CM4-8: historical, ssp126, ssp245, ssp585	Input dataset		(Volodin et al., 2019d, 2019b, 2019f, 2019e)		
INM-CM5-0: historical, ssp126, ssp245, ssp585	Input dataset		(Volodin et al., 2019j, 2019k, 2019h, 2019l)		
IPSL-CM6A-LR: historical, ssp126, ssp245, ssp585	Input dataset		(Boucher et al., 2020a, 2020b)		
			(Boucher et al., 2018b, 2019a, 2019b, 2019c)		
KACE-1-0-G: historical, ssp126, ssp245, ssp585	Input dataset		(Byun et al., 2019b, 2019c, 2019e, 2019a)		
MCM-UA-1-0: historical, ssp126, ssp245, ssp585	Input dataset		(Stouffer, 2019f, 2019b, 2019e, 2019d)		
MIROC-ES2L: historical, ssp126, ssp245, ssp585	Input dataset		(Hajima et al., 2019b; Tachiiri et al., 2019b, 2019c, 2019a)		
MIROC6: historical, ssp126, ssp245, ssp585	Input dataset		(Tatebe and Watanabe, 2018b; Shiogama et al., 2019c, 2019a, 2019b)		
MPI-ESM1-2-HR: historical, ssp126, ssp245, ssp585	Input dataset		(Jungclaus et al., 2019a; Schupfner et al., 2019a, 2019b, 2019c)		
MPI-ESM1-2-LR: historical, ssp126, ssp245, ssp585	Input dataset		(Wieners et al., 2019a, 2019c, 2019d, 2019e)		
MRI-ESM2-0: historical, ssp126, ssp245, ssp585	Input dataset		(Yukimoto et al., 2019g, 2019b, 2019h, 2019i)		
UKESM1-0-LL: historical, ssp126, ssp245, ssp585	Input dataset		(Good et al., 2019a, 2019c, 2019b; Tang et al., 2019b)		

	Figure 8.18 Code	Code	Fig8-18.sh (compute and plot)			https://github.com/ senesis/some_chap 8_figures	CAMMAC :(Sénési, 2020) CliMAF : (Sénési et al., 2021)
Figure 8.19	CMIP6 / SSP1.2-6 SSP2-4.5 SSP5-8.5					https://esgf- node.llnl.gov/sear ch/cmip6/	
Figure 8.20	Tree-ring reconstructed Palmer Drought Severity Index & NCAR CESM Last Millennium Ensemble from CMIP5						Morales et al., 2020; Palmer et al., 2015), Pederson et al., 2014; Hessel et al., 2018)
Figure 8.21	Schematic						
	CMIP6 model data						
	BCC-CSM2-MR: historical, piControl, ssp585	Input dataset			(Wu et al., 2018a, 2018b, Xin et al., 2018, 2019c)		
	CAMS-CSM1-0: historical, piControl, ssp585	Input dataset			(Rong, 2019b, 2019f, 2019a, 2019c)		
	CESM2: historical, piControl, ssp585	Input dataset			(Danabasoglu, 2019i, 2019j, 2019m; Danabasoglu et al., 2019)		
	CESM2-WACCM: historical, piControl, ssp585	Input dataset			(Danabasoglu, 2019d, 2019e, 2019h, 2019c)		
	CNRM-ESM2-1: historical, piControl, ssp585	Input dataset			(Seferian, 2018a, 2018b, 2018c; Voldoire, 2019m)		
	CanESM5: historical, piControl, ssp585	Input dataset			(Swart et al., 2019i, 2019o, 2019g, 2019h)		
	CanESM5-CanOE: historical, piControl, ssp585	Input dataset			(Swart et al., 2019f, 2019a, 2019c, 2019b)		

	FGOALS-g3: historical, piControl, ssp585	Input dataset		(Yu, 2018, 2019e, 2019a, 2019b)		
	GFDL-CM4: historical, piControl, ssp585			(Li, 2019f, 2019b, 2019a, 2019c)		
				(Guo et al., 2018e, 2018a, 2018b, 2018c)		
	GFDL-ESM4: historical, piControl, ssp585	Input dataset Input dataset Input dataset		(John et al., 2018c; Krasting et al., 2018b, 2018a, 2018c)		
	GISS-E2-1-G: historical, piControl, ssp585	Input dataset		(NASA Goddard Institute for Space Studies (NASA/GISS), 2018c, 2018a, 2018b, 2020c)		
	INM-CM4-8: historical, piControl, ssp585	Input dataset		(Volodin et al., 2019b, 2019c, 2019a, 2019f)		
	INM-CM5-0: historical, piControl, ssp585	Input dataset		(Volodin et al., 2019g, 2019i, 2019h, 2019l)		
	IPSL-CM6A-LR: historical, piControl, ssp585	Input dataset		(Boucher et al., 2018a, 2018c, 2018b, 2019c)		
	KACE-1-0-G: historical, piControl, ssp585	Input dataset		(Byun et al., 2019f, 2019c, 2019e, 2019d)		
	MCM-UA-1-0: historical, piControl, ssp585	Input dataset		(Stouffer, 2019f, 2019b, 2019a, 2019c)		
	MIROC-ES2L: historical, piControl, ssp585	Input dataset		(Hajima et al., 2019a, 2019b, 2019c; Tachiiri et al., 2019c)		
	MPI-ESM1-2-HR: historical, piControl, ssp585	Input dataset		(Tatebe and Watanabe, 2018b, 2018a, 2018c; Shiogama et al., 2019c)		
	MRI-ESM2-0: historical, piControl, ssp585			(Jungclaus et al., 2019b, 2019c, 2019a; Schupfner et al., 2019c)		

				(Yukimoto et al., 2019c, 2019a, 2019b, 2019i)		
	NESM3: historical, piControl, ssp585	Input dataset Input dataset		(Cao, 2019c; Cao and Wang, 2019c, 2019a, 2019b)		
	UKESM1-0-LL: historical, piControl, ssp585	Input dataset		(Good et al., 2019c; Tang et al., 2019b, 2019c, 2019a)		
Figure 8.22	CMIP6 / SSP1.2-6 SSP2-4.5 SSP5-8.5				https://esgf-node.llnl.gov/search/cmip6/	
Figure 8.23	CMIP6 SSP1-2.6, SSP2-4.5, SSP3-7.0, SSP5-8.5				https://esgf-node.llnl.gov/search/cmip6/	(Lehner et al., 2020).
Figure 8.24	CESM1					(Deser et al., 2017)
Figure 8.25	ACCESS-CM2: historical, ssp585	Input dataset		(Dix et al., 2019a, 2019e)		
	ACCESS-ESM1-5: historical, ssp585	Input dataset		(Ziehn et al., 2019a, 2019e)		
	AWI-CM-1-1-MR: historical, ssp585	Input dataset		(Semmler et al., 2018a, 2019)		
	CESM2: historical, ssp585	Input dataset		(Danabasoglu, 2019j, 2019m)		
	CESM2-WACCM: historical, ssp585	Input dataset		(Danabasoglu, 2019d, 2019h)		
	CIESM: historical, ssp585	Input dataset		(Huang, 2019a, 2020b)		
	CMCC-CM2-SR5: historical, ssp585	Input dataset		(Lovato and Peano, 2020a, 2020e)		
	CNRM-CM6-1: historical, ssp585	Input dataset		(Voldoire, 2018a, 2019j)		

CNRM-CM6-1-HR: historical, ssp585	Input dataset		(Voldoire, 2019a, 2019d)	
CNRM-ESM2-1: historical, ssp585	Input dataset		(Seferian, 2018b; Voldoire, 2019m)	
CanESM5: historical, ssp585	Input dataset		(Swart et al., 2019o, 2019h)	
CanESM5-CanOE: historical, ssp585	Input dataset		(Swart et al., 2019f, 2019b)	
EC-Earth3: historical, ssp585	Input dataset		(EC-Earth Consortium (EC-Earth), 2019g, 2019k)	
EC-Earth3-Veg: historical, ssp585	Input dataset		(EC-Earth Consortium (EC-Earth), 2019f, 2019b)	
FGOALS-f3-L: historical, ssp585	Input dataset		(Yu, 2019e, 2019a)	
FIO-ESM-2-0: historical, ssp585	Input dataset		(Song et al., 2019e, 2019a)	
GFDL-CM4: historical, ssp585	Input dataset		(Guo et al., 2018e, 2018b)	
HadGEM3-GC31-LL: historical, ssp585	Input dataset		(Ridley et al., 2019a; Good, 2020b)	
HadGEM3-GC31-MM: historical, ssp585	Input dataset		(Ridley et al., 2019b; Jackson, 2020b)	
IPSL-CM6A-LR: historical, ssp585	Input dataset		(Boucher et al., 2018b, 2019c)	
KACE-1-0-G: historical, ssp585	Input dataset		(Byun et al., 2019c, 2019e)	
MCM-UA-1-0: historical, ssp585	Input dataset		(Stouffer, 2019f, 2019b)	
MRI-ESM2-0: historical, ssp585	Input dataset		(Yukimoto et al., 2019b, 2019i)	
NESM3: historical, ssp585	Input dataset		(Cao, 2019c; Cao and Wang, 2019b)	
TaiESM1: historical, ssp585	Input dataset		(Lee and Liang, 2020a, 2020c)	

	UKESM1-0-LL: historical, ssp585	Input dataset			(Good et al., 2019c; Tang et al., 2019b)		
Figure 8.25	Figure 8.25 Code	Code	Fig8-25.sh (compute and plot)			https://github.com/senesis/some_chap_8_figures	CAMMAC : (Sénési, 2020) CliMAF : (Sénési et al., 2021)
Figure 8.26	CMIP6 model data						
	ACCESS-CM2: historical, ssp126, ssp245, ssp585	Input dataset			(Dix et al., 2019d, 2019a, 2019e, 2019c)		
	ACCESS-ESM1-5: historical, ssp126, ssp245, ssp585	Input dataset			(Ziehn et al., 2019a, 2019e, 2019d, 2019c)		
	BCC-CSM2-MR: historical, ssp126, ssp245, ssp585	Input dataset			(Wu et al., 2018a; Xin et al., 2019a, 2019c, 2019b)		
	CAMS-CSM1-0: historical, ssp126, ssp245, ssp585	Input dataset			(Rong, 2019d, 2019e, 2019b, 2019f)		
	CESM2: historical, ssp126, ssp245, ssp585	Input dataset			(Danabasoglu, 2019j, 2019m, 2019l, 2019k)		
	CESM2-WACCM: historical, ssp126, ssp245, ssp585	Input dataset			(Danabasoglu, 2019d, 2019f, 2019h, 2019g)		
	CIesm: historical, ssp126, ssp245, ssp585	Input dataset			(Huang, 2019a, 2019c, 2020b, 2020a)		
	CMCC-CM2-SR5: historical, ssp126, ssp245, ssp585	Input dataset			(Lovato and Peano, 2020c, 2020a, 2020d, 2020e)		
	CNRM-CM6-1: historical, ssp126, ssp245, ssp585	Input dataset			(Voldoire, 2018a, 2019j, 2019i, 2019h)		
	CNRM-CM6-1-HR: historical, ssp126, ssp245, ssp585	Input dataset			(Voldoire, 2019a, 2019d, 2019c, 2020)		

CNRM-ESM2-1: historical, ssp126, ssp245, ssp585	Input dataset		(Seferian, 2018b; Voldoire, 2019m, 2019l, 2019k)		
CanESM5: historical, ssp126, ssp245, ssp585	Input dataset		(Swart et al., 2019n, 2019o, 2019m, 2019h)		
CanESM5-CanOE: historical, ssp126, ssp245, ssp585	Input dataset		(Swart et al., 2019f, 2019e, 2019d, 2019b)		
EC-Earth3: historical, ssp126, ssp245, ssp585	Input dataset		(EC-Earth Consortium (EC-Earth), 2019g, 2019j, 2019k, 2019i)		
EC-Earth3-Veg: historical, ssp126, ssp245, ssp585	Input dataset		(EC-Earth Consortium (EC-Earth), 2019e, 2019f, 2019d, 2019b)		
FGOALS-f3-L: historical, ssp126, ssp245, ssp585	Input dataset		(Yu, 2019e, 2019c, 2019a, 2019d)		
FGOALS-g3: historical, ssp126, ssp245, ssp585	Input dataset		(Li, 2019f, 2019e, 2019b, 2019d)		
FIO-ESM-2-0: historical, ssp126, ssp245, ssp585	Input dataset		(Song et al., 2019e, 2019d, 2019c, 2019a)		
GFDL-CM4: historical, ssp245, ssp585	Input dataset		(Guo et al., 2018e, 2018d, 2018b)		
GISS-E2-1-G: historical, ssp126, ssp245, ssp585	Input dataset		(NASA Goddard Institute for Space Studies (NASA/GISS), 2018b, 2020a, 2020c, 2020b)		
HadGEM3-GC31-LL: historical, ssp126, ssp245, ssp585	Input dataset		(Good, 2019, 2020a, 2020b; Ridley et al., 2019a)		
HadGEM3-GC31-MM: historical, ssp126, ssp585	Input dataset		(Ridley et al., 2019b; Jackson, 2020b, 2020a)		
INM-CM4-8: historical, ssp126, ssp245, ssp585	Input dataset		(Volodin et al., 2019d, 2019b, 2019f, 2019e)		

	INM-CM5-0: historical, ssp126, ssp245, ssp585	Input dataset		(Volodin et al., 2019j, 2019k, 2019h, 2019l)		
	IPSL-CM5A2-INCA: historical, ssp126	Input dataset		(Boucher et al., 2020a, 2020b)		
	IPSL-CM6A-LR: historical, ssp126, ssp245, ssp585	Input dataset		(Boucher et al., 2018b, 2019a, 2019b, 2019c)		
	KACE-1-0-G: historical, ssp126, ssp245, ssp585	Input dataset		(Byun et al., 2019b, 2019c, 2019e, 2019a)		
	MCM-UA-1-0: historical, ssp126, ssp245, ssp585	Input dataset		(Stouffer, 2019f, 2019b, 2019e, 2019d)		
	MIROC-ES2L: historical, ssp126, ssp245, ssp585	Input dataset		(Hajima et al., 2019b; Tachiiri et al., 2019b, 2019c, 2019a)		
	MIROC6: historical, ssp126, ssp245, ssp585	Input dataset		(Tatebe and Watanabe, 2018b; Shiogama et al., 2019c, 2019a, 2019b)		
	MPI-ESM1-2-HR: historical, ssp126, ssp245, ssp585	Input dataset		(Jungclaus et al., 2019a; Schupfner et al., 2019a, 2019b, 2019c)		
	MPI-ESM1-2-LR: historical, ssp126, ssp245, ssp585	Input dataset		(Wieners et al., 2019a, 2019c, 2019d, 2019e)		
	MRI-ESM2-0: historical, ssp126, ssp245, ssp585	Input dataset		(Yukimoto et al., 2019g, 2019b, 2019h, 2019i)		
	UKESM1-0-LL: historical, ssp126, ssp245, ssp585	Input dataset		(Good et al., 2019a, 2019c, 2019b; Tang et al., 2019b)		
	Figure 8.26 Code	Code	Fig8-28.sh (compute and plot)		https://github.com/senesis/some_chap_8_figures	CAMMAC : (Sénési, 2020) CliMAF : (Sénési et al., 2021)
Figure 8.27	TraCE paleoclimate simulation, paleoclimate					(Liu et al., 2009)), (Liu et al., 2017b)).

	proxy & doubling of CO ₂ experiment						
Figure Box8-1	CMIP6 DAMIP GPCC, CRU GEBA					https://esgf-node.llnl.gov/search/obs4mips/ https://psl.noaa.gov/data/gridded/data.gpcp.html https://crudata.uea.ac.uk/cru/data/hrg/cru_ts_4.04/ge/	(Huffman et al., 1997, 2009, Adler et al., 2003, 2016) (Harris et al., 2014) Storelvmo et al (2018)
Figure Box8-2	Schematic						(Wang et al., 2013)
Figure Box8-2-f1	CMIP6 model data						
	ACCESS-CM2: historical, ssp126, ssp245, ssp585	Input dataset			(Dix et al., 2019d, 2019a, 2019e, 2019c)		
	ACCESS-ESM1-5: historical, ssp126, ssp245, ssp585	Input dataset			(Ziehn et al., 2019a, 2019e, 2019d, 2019c)		
	AWI-CM-1-1-MR: historical, ssp126, ssp245, ssp585	Input dataset			(Semmler et al., 2018c, 2018d, 2018a, 2019)		
	BCC-CSM2-MR: historical, ssp126, ssp245, ssp585	Input dataset			(Wu et al., 2018a; Xin et al., 2019a, 2019c, 2019b)		
	CAMS-CSM1-0: historical, ssp126, ssp245, ssp585	Input dataset			(Rong, 2019d, 2019e, 2019b, 2019f)		
	CESM2: historical, ssp126, ssp245, ssp585	Input dataset			(Danabasoglu, 2019j, 2019m, 2019l, 2019k)		
	CESM2-WACCM: historical, ssp126, ssp245, ssp585	Input dataset			(Danabasoglu, 2019d, 2019f, 2019h, 2019g)		

CIESM: historical, ssp126, ssp245, ssp585	Input dataset			(Huang, 2019a, 2019c, 2020b, 2020a)		
CMCC-CM2-SR5: historical, ssp126, ssp245, ssp585	Input dataset			(Lovato and Peano, 2020c, 2020a, 2020d, 2020e)		
CNRM-CM6-1: historical, ssp126, ssp245, ssp585	Input dataset			(Voldoire, 2018a, 2019j, 2019i, 2019h)		
CNRM-CM6-1-HR: historical, ssp126, ssp245, ssp585	Input dataset			(Voldoire, 2019a, 2019d, 2019c, 2020)		
CNRM-ESM2-1: historical, ssp126, ssp245, ssp585	Input dataset			(Seferian, 2018b; Voldoire, 2019m, 2019l, 2019k)		
CanESM5: historical, ssp126, ssp245, ssp585	Input dataset			(Swart et al., 2019n, 2019o, 2019m, 2019h)		
CanESM5-CanOE: historical, ssp126, ssp245, ssp585	Input dataset			(Swart et al., 2019f, 2019e, 2019d, 2019b)		
EC-Earth3: historical, ssp126, ssp245, ssp585	Input dataset			(EC-Earth Consortium (EC-Earth), 2019g, 2019j, 2019k, 2019i)		
EC-Earth3-Veg: historical, ssp126, ssp245, ssp585	Input dataset			(EC-Earth Consortium (EC-Earth), 2019e, 2019f, 2019d, 2019b)		
FGOALS-f3-L: historical, ssp126, ssp245, ssp585	Input dataset			(Yu, 2019e, 2019c, 2019a, 2019d)		
FGOALS-g3: historical, ssp126, ssp245, ssp585	Input dataset			(Li, 2019f, 2019e, 2019b, 2019d)		
FIO-ESM-2-0: historical, ssp126, ssp245, ssp585	Input dataset			(Song et al., 2019e, 2019d, 2019c, 2019a)		
GFDL-CM4: historical, ssp245, ssp585	Input dataset			(Guo et al., 2018e, 2018d, 2018b)		

GFDL-ESM4: historical, ssp126, ssp245, ssp585	Input dataset		(John et al., 2018a, 2018b, 2018c; Krasting et al., 2018b)		
GISS-E2-1-G: historical, ssp126, ssp245, ssp585	Input dataset		(NASA Goddard Institute for Space Studies (NASA/GISS), 2018b, 2020a, 2020c, 2020b)		
HadGEM3-GC31-LL: historical, ssp126, ssp245, ssp585	Input dataset		(Good, 2019, 2020a, 2020b; Ridley et al., 2019a)		
HadGEM3-GC31-MM: historical, ssp126, ssp585	Input dataset		(Ridley et al., 2019b; Jackson, 2020b, 2020a)		
IITM-ESM: historical, ssp126, ssp245, ssp585	Input dataset		(Raghavan and Panickal, 2019; Panickal and Narayanasetti, 2020b, 2020a, 2020c)		
INM-CM4-8: historical, ssp126, ssp245, ssp585	Input dataset		(Volodin et al., 2019d, 2019b, 2019f, 2019e)		
INM-CM5-0: historical, ssp126, ssp245, ssp585	Input dataset		(Volodin et al., 2019j, 2019k, 2019h, 2019l)		
IPSL-CM5A2-INCA: historical, ssp126	Input dataset		(Boucher et al., 2020a, 2020b)		
IPSL-CM6A-LR: historical, ssp126, ssp245, ssp585	Input dataset		(Boucher et al., 2018b, 2019a, 2019b, 2019c)		
KACE-1-0-G: historical, ssp126, ssp245, ssp585	Input dataset		(Byun et al., 2019b, 2019c, 2019e, 2019a)		
MCM-UA-1-0: historical, ssp126, ssp245, ssp585	Input dataset		(Stouffer, 2019f, 2019b, 2019e, 2019d)		
MIROC-ES2L: historical, ssp126, ssp245, ssp585	Input dataset		(Hajima et al., 2019b; Tachiiri et al., 2019b, 2019c, 2019a)		
MIROC6: historical, ssp126, ssp245, ssp585	Input dataset		(Tatebe and Watanabe, 2018b; Shiogama et al., 2019c, 2019a, 2019b)		

	MPI-ESM1-2-HR: historical, ssp126, ssp245, ssp585	Input dataset		(Jungclaus et al., 2019a; Schupfner et al., 2019a, 2019b, 2019c)		
	MPI-ESM1-2-LR: historical, ssp126, ssp245, ssp585	Input dataset		(Wieners et al., 2019a, 2019c, 2019d, 2019e)		
	MRI-ESM2-0: historical, ssp126, ssp245, ssp585	Input dataset		(Yukimoto et al., 2019g, 2019b, 2019h, 2019i)		
	NESM3: historical, ssp126, ssp245, ssp585	Input dataset		(Cao, 2019b, 2019c, 2019a; Cao and Wang, 2019b)		
	NorESM2-LM: historical, ssp245	Input dataset		(Seland et al., 2019d, 2019a)		
	NorESM2-MM: historical, ssp126, ssp245, ssp585	Input dataset		(Bentsen et al., 2019c, 2019a, 2019e, 2019d)		
	TaiESM1: historical, ssp585	Input dataset		(Lee and Liang, 2020a, 2020c)		
	UKESM1-0-LL: historical, ssp126, ssp245, ssp585	Input dataset		(Good et al., 2019a, 2019c, 2019b; Tang et al., 2019b)		
	Figure Box8-2-f1 Code	Code	FigBox8-2-f1.sh (compute and plot)		https://github.com/senesis/some_chap8_figures	CAMMAC : (Sénési, 2020) CliMAF : (Sénési et al., 2021)
FAQ8.1, Figure 1:	Schematic		Schematic summarizing the influence of land cover and land use change on regional water cycle			

FAQ8.2, Figure 1:	Schematic		Schematic illustrating factors important in determining changes in heavy precipitation and flooding.				
FAQ8.3, Figure 1:	Schematic		Drought				
Table 8.1	Table 8.1 code	Code	Table8.1.sh			https://github.com/senesis/some_chapter8_figures	CAMMAC : (Sénési, 2020) CliMAF : (Sénési et al., 2021)
Table 8.2	Table 8.2 code	Code	Table8.2.sh			https://github.com/senesis/some_chapter8_figures	CAMMAC : (Sénési, 2020) CliMAF : (Sénési et al., 2021)

[END TABLE 8.SM.1 HERE]

References

- Abbott, B. W., Bishop, K., Zarnetske, J. P., Minaudo, C., Chapin, F. S., Krause, S., et al. (2019). Human domination of the global water cycle absent from depictions and perceptions. *Nat. Geosci.* 12, 533–540. doi:10.1038/s41561-019-0374-y.
- Adler, R. F., Gu, G., Sapiiano, M., Wang, J.-J., and Huffman, G. J. (2017). Global Precipitation: Means, Variations and Trends During the Satellite Era (1979–2014). *Surv. Geophys.* 38, 679–699. doi:10.1007/s10712-017-9416-4.
- Adler, R. F., Huffman, G. J., Chang, A., Ferraro, R., Xie, P.-P., Janowiak, J., et al. (2003). The Version-2 Global Precipitation Climatology Project (GPCP) Monthly Precipitation Analysis (1979–Present). *J. Hydrometeorol.* 4, 1147–1167. doi:10.1175/1525-7541(2003)004<1147:TVGPCP>2.0.CO;2.
- Adler, R., Sapiiano, M., Huffman, G., Bolvin, D., Gu, G., Wang, J., et al. (2016). The new version 2.3 of the Global Precipitation Climatology Project (GPCP) monthly analysis product. *Univ. Maryland, April*, 1072–1084.
- Allan, R. P., Barlow, M., Byrne, M. P., Cherchi, A., Douville, H., Fowler, H. J., et al. (2020). Advances in understanding large-scale responses of the water cycle to climate change. *Ann. N. Y. Acad. Sci.*, 1–27. doi:10.1111/nyas.14337.
- Bader, D. C., Leung, R., Taylor, M., and McCoy, R. B. (2018). E3SM-Project E3SM1.0 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.4499.
- Ban, N., Schmidli, J., and Schär, C. (2015). Heavy precipitation in a changing climate: Does short-term summer precipitation increase faster? *Geophys. Res. Lett.* 42, 1165–1172. doi:10.1002/2014GL062588.
- Bao, J., Sherwood, S. C., Alexander, L. V., and Evans, J. P. (2017). Future increases in extreme precipitation exceed observed scaling rates. *Nat. Clim. Chang.* 7, 128–132. doi:10.1038/nclimate3201.
- Barbero, R., Fowler, H. J., Lenderink, G., and Blenkinsop, S. (2017). Is the intensification of precipitation extremes with global warming better detected at hourly than daily resolutions? *Geophys. Res. Lett.* 44, 974–983. doi:10.1002/2016GL071917.
- Bentsen, M., Olivie, D. J. L., Seland, Ø., Toniazzo, T., Gjermundsen, A., Graff, L. S., et al. (2019a). NCC NorESM2-MM model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.8040.
- Bentsen, M., Olivie, D. J. L., Seland, Ø., Toniazzo, T., Gjermundsen, A., Graff, L. S., et al. (2019b). NCC NorESM2-MM model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.8221.
- Bentsen, M., Olivie, D. J. L., Seland, Ø., Toniazzo, T., Gjermundsen, A., Graff, L. S., et al. (2019c). NCC NorESM2-MM model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.8250.
- Bentsen, M., Olivie, D. J. L., Seland, Ø., Toniazzo, T., Gjermundsen, A., Graff, L. S., et al. (2019d). NCC NorESM2-MM model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.8255.
- Bentsen, M., Olivie, D. J. L., Seland, Ø., Toniazzo, T., Gjermundsen, A., Graff, L. S., et al. (2019e). NCC NorESM2-MM model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.8321.
- Bethke, I., Wang, Y., Counillon, F., Kimmritz, M., Fransner, F., Samuelsen, A., et al. (2019). NCC NorCPM1 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.10896.
- Bonfils, C. J. W. W., Santer, B. D., Fyfe, J. C., Marvel, K., Phillips, T. J., and Zimmerman, S. R. H. H. (2020). Human influence on joint changes in temperature, rainfall and continental aridity. *Nat. Clim. Chang.* 10, 1–6. doi:10.1038/s41558-020-0821-1.
- Borodina, A., Fischer, E. M., and Knutti, R. (2017). Models are likely to underestimate increase in heavy rainfall in the extratropical regions with high rainfall intensity. *Geophys. Res. Lett.* 44, 7401–7409. doi:10.1002/2017GL074530.
- Boucher, O., Denvil, S., Levavasseur, G., Cozic, A., Caubel, A., Foujols, M.-A., et al. (2018a). IPSL IPSL-CM6A-LR model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1534.
- Boucher, O., Denvil, S., Levavasseur, G., Cozic, A., Caubel, A., Foujols, M.-A., et al. (2018b). IPSL IPSL-CM6A-LR model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.5195.
- Boucher, O., Denvil, S., Levavasseur, G., Cozic, A., Caubel, A., Foujols, M.-A., et al. (2018c). IPSL IPSL-CM6A-LR model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.5251.
- Boucher, O., Denvil, S., Levavasseur, G., Cozic, A., Caubel, A., Foujols, M.-A., et al. (2018d). IPSL IPSL-CM6A-LR model output prepared for CMIP6 DAMIP hist-aer. doi:10.22033/ESGF/CMIP6.13827.
- Boucher, O., Denvil, S., Levavasseur, G., Cozic, A., Caubel, A., Foujols, M.-A., et al. (2018e). IPSL IPSL-CM6A-LR model output prepared for CMIP6 DAMIP hist-GHG. doi:10.22033/ESGF/CMIP6.13825.
- Boucher, O., Denvil, S., Levavasseur, G., Cozic, A., Caubel, A., Foujols, M.-A., et al. (2018f). IPSL IPSL-CM6A-LR model output prepared for CMIP6 DAMIP hist-nat. doi:10.22033/ESGF/CMIP6.13831.
- Boucher, O., Denvil, S., Levavasseur, G., Cozic, A., Caubel, A., Foujols, M.-A., et al. (2019a). IPSL IPSL-CM6A-LR model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.5262.
- Boucher, O., Denvil, S., Levavasseur, G., Cozic, A., Caubel, A., Foujols, M.-A., et al. (2019b). IPSL IPSL-CM6A-LR model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.5264.
- Boucher, O., Denvil, S., Levavasseur, G., Cozic, A., Caubel, A., Foujols, M.-A., et al. (2019c). IPSL IPSL-CM6A-LR model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.5271.

- Boucher, O., Denvil, S., Levavasseur, G., Cozic, A., Caubel, A., Foujols, M.-A., et al. (2020a). IPSL IPSL-CM5A2-INCA model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.13661.
- Boucher, O., Denvil, S., Levavasseur, G., Cozic, A., Caubel, A., Foujols, M.-A., et al. (2020b). IPSL IPSL-CM5A2-INCA model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.15711.
- Byun, Y.-H., Lim, Y.-J., Shim, S., Sung, H. M., Sun, M., Kim, J., et al. (2019a). NIMS-KMA KACE1.0-G model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.8432.
- Byun, Y.-H., Lim, Y.-J., Shim, S., Sung, H. M., Sun, M., Kim, J., et al. (2019b). NIMS-KMA KACE1.0-G model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.8435.
- Byun, Y.-H., Lim, Y.-J., Shim, S., Sung, H. M., Sun, M., Kim, J., et al. (2019c). NIMS-KMA KACE1.0-G model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.8456.
- Byun, Y.-H., Lim, Y.-J., Sung, H. M., Kim, J., Sun, M., and Kim, B.-H. (2019d). NIMS-KMA KACE1.0-G model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.2241.
- Byun, Y.-H., Lim, Y.-J., Sung, H. M., Kim, J., Sun, M., and Kim, B.-H. (2019e). NIMS-KMA KACE1.0-G model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.8378.
- Byun, Y.-H., Lim, Y.-J., Sung, H. M., Kim, J., Sun, M., and Kim, B.-H. (2019f). NIMS-KMA KACE1.0-G model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.8425.
- Cao, J. (2019a). NUIST NESMv3 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.8780.
- Cao, J. (2019b). NUIST NESMv3 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.8781.
- Cao, J. (2019c). NUIST NESMv3 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.8790.
- Cao, J., and Wang, B. (2019a). NUIST NESMv3 model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.2021.
- Cao, J., and Wang, B. (2019b). NUIST NESMv3 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.8769.
- Cao, J., and Wang, B. (2019c). NUIST NESMv3 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.8776.
- Chai, Z. (2020). CAS CAS-ESM1.0 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.3445.
- Chan, S. C., Kendon, E. J., Roberts, N. M., Fowler, H. J., and Blenkinsop, S. (2016). Downturn in scaling of UK extreme rainfall with temperature for future hottest days. *Nat. Geosci.* 9, 24–28. doi:10.1038/ngeo2596.
- Danabasoglu, G. (2019a). NCAR CESM2-FV2 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.11301.
- Danabasoglu, G. (2019b). NCAR CESM2-WACCM-FV2 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.11302.
- Danabasoglu, G. (2019c). NCAR CESM2-WACCM model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.10024.
- Danabasoglu, G. (2019d). NCAR CESM2-WACCM model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.10071.
- Danabasoglu, G. (2019e). NCAR CESM2-WACCM model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.10094.
- Danabasoglu, G. (2019f). NCAR CESM2-WACCM model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.10100.
- Danabasoglu, G. (2019g). NCAR CESM2-WACCM model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.10101.
- Danabasoglu, G. (2019h). NCAR CESM2-WACCM model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.10115.
- Danabasoglu, G. (2019i). NCAR CESM2 model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.2185.
- Danabasoglu, G. (2019j). NCAR CESM2 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.7627.
- Danabasoglu, G. (2019k). NCAR CESM2 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.7746.
- Danabasoglu, G. (2019l). NCAR CESM2 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.7748.
- Danabasoglu, G. (2019m). NCAR CESM2 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.7768.
- Danabasoglu, G., Lawrence, D., Lindsay, K., Lipscomb, W., and Strand, G. (2019). NCAR CESM2 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.7733.
- Deser, C., Hurrell, J. W., and Phillips, A. S. (2017). The role of the North Atlantic Oscillation in European climate projections. *Clim. Dyn.* 49, 3141–3157. doi:10.1007/s00382-016-3502-z.

- 1 Dix, M., Bi, D., Dobrohotoff, P., Fiedler, R., Harman, I., Law, R., et al. (2019a). CSIRO-ARCCSS ACCESS-CM2
2 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.4271.
- 3 Dix, M., Bi, D., Dobrohotoff, P., Fiedler, R., Harman, I., Law, R., et al. (2019b). CSIRO-ARCCSS ACCESS-CM2
4 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.4311.
- 5 Dix, M., Bi, D., Dobrohotoff, P., Fiedler, R., Harman, I., Law, R., et al. (2019c). CSIRO-ARCCSS ACCESS-CM2
6 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.4319.
- 7 Dix, M., Bi, D., Dobrohotoff, P., Fiedler, R., Harman, I., Law, R., et al. (2019d). CSIRO-ARCCSS ACCESS-CM2
8 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.4321.
- 9 Dix, M., Bi, D., Dobrohotoff, P., Fiedler, R., Harman, I., Law, R., et al. (2019e). CSIRO-ARCCSS ACCESS-CM2
10 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.4332.
- 11 Donat, M. G., Lowry, A. L., Alexander, L. V., O’Gorman, P. A., and Maher, N. (2016). More extreme precipitation in
12 the world’s dry and wet regions. *Nat. Clim. Chang.* 6, 508–513. doi:10.1038/nclimate2941.
- 13 EC-Earth Consortium (EC-Earth) (2019a). EC-Earth-Consortium EC-Earth3-LR model output prepared for CMIP6
14 CMIP piControl. doi:10.22033/ESGF/CMIP6.4847.
- 15 EC-Earth Consortium (EC-Earth) (2019b). EC-Earth-Consortium EC-Earth3-Veg model output prepared for CMIP6
16 CMIP historical. doi:10.22033/ESGF/CMIP6.4706.
- 17 EC-Earth Consortium (EC-Earth) (2019c). EC-Earth-Consortium EC-Earth3-Veg model output prepared for CMIP6
18 CMIP piControl. doi:10.22033/ESGF/CMIP6.4848.
- 19 EC-Earth Consortium (EC-Earth) (2019d). EC-Earth-Consortium EC-Earth3-Veg model output prepared for CMIP6
20 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.4876.
- 21 EC-Earth Consortium (EC-Earth) (2019e). EC-Earth-Consortium EC-Earth3-Veg model output prepared for CMIP6
22 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.4882.
- 23 EC-Earth Consortium (EC-Earth) (2019f). EC-Earth-Consortium EC-Earth3-Veg model output prepared for CMIP6
24 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.4914.
- 25 EC-Earth Consortium (EC-Earth) (2019g). EC-Earth-Consortium EC-Earth3 model output prepared for CMIP6 CMIP
26 historical. doi:10.22033/ESGF/CMIP6.4700.
- 27 EC-Earth Consortium (EC-Earth) (2019h). EC-Earth-Consortium EC-Earth3 model output prepared for CMIP6 CMIP
28 piControl. doi:10.22033/ESGF/CMIP6.4842.
- 29 EC-Earth Consortium (EC-Earth) (2019i). EC-Earth-Consortium EC-Earth3 model output prepared for CMIP6
30 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.4874.
- 31 EC-Earth Consortium (EC-Earth) (2019j). EC-Earth-Consortium EC-Earth3 model output prepared for CMIP6
32 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.4880.
- 33 EC-Earth Consortium (EC-Earth) (2019k). EC-Earth-Consortium EC-Earth3 model output prepared for CMIP6
34 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.4912.
- 35 EC-Earth Consortium (EC-Earth) (2020a). EC-Earth-Consortium EC-Earth3-AerChem model output prepared for
36 CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.4843.
- 37 EC-Earth Consortium (EC-Earth) (2020b). EC-Earth-Consortium EC-Earth3-Veg-LR model output prepared for
38 CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.4707.
- 39 EC-Earth Consortium (EC-Earth) (2020c). EC-Earth-Consortium EC-Earth3-Veg-LR model output prepared for
40 CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.4849.
- 41 EC-Earth Consortium (EC-Earth) (2020d). EC-Earth-Consortium EC-Earth3-Veg-LR model output prepared for
42 CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.4915.
- 43 Fischer, E. M., and Knutti, R. (2015). Anthropogenic contribution to global occurrence of heavy-precipitation and high-
44 temperature extremes. *Nat. Clim. Chang.* 5, 560–564. doi:10.1038/nclimate2617.
- 45 Fläschner, D., Mauritsen, T., and Stevens, B. (2016). Understanding the intermodel spread in global-mean hydrological
46 sensitivity. *J. Clim.* 29, 801–817. doi:10.1175/JCLI-D-15-0351.1.
- 47 Good, P. (2019). MOHC HadGEM3-GC31-LL model output prepared for CMIP6 ScenarioMIP ssp245.
48 doi:10.22033/ESGF/CMIP6.10851.
- 49 Good, P. (2020a). MOHC HadGEM3-GC31-LL model output prepared for CMIP6 ScenarioMIP ssp126.
50 doi:10.22033/ESGF/CMIP6.10849.
- 51 Good, P. (2020b). MOHC HadGEM3-GC31-LL model output prepared for CMIP6 ScenarioMIP ssp585.
52 doi:10.22033/ESGF/CMIP6.10901.
- 53 Good, P., Sellar, A., Tang, Y., Rumbold, S., Ellis, R., Kelley, D., et al. (2019a). MOHC UKESM1.0-LL model output
54 prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.6333.
- 55 Good, P., Sellar, A., Tang, Y., Rumbold, S., Ellis, R., Kelley, D., et al. (2019b). MOHC UKESM1.0-LL model output
56 prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.6339.
- 57 Good, P., Sellar, A., Tang, Y., Rumbold, S., Ellis, R., Kelley, D., et al. (2019c). MOHC UKESM1.0-LL model output
58 prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.6405.
- 59 Guerreiro, S. B., Fowler, H. J., Barbero, R., Westra, S., Lenderink, G., Blenkinsop, S., et al. (2018). Detection of
60 continental-scale intensification of hourly rainfall extremes. *Nat. Clim. Chang.* 8, 803–807. doi:10.1038/s41558-
61 018-0245-3.

- 1 Guo, C., Bentsen, M., Bethke, I., Ilicak, M., Tjiputra, J., Toniazzo, T., et al. (2019). NCC NorESM1-F model output
2 prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.11595.
- 3 Guo, H., John, J. G., Blanton, C., McHugh, C., Nikonov, S., Radhakrishnan, A., et al. (2018a). NOAA-GFDL GFDL-
4 CM4 model output. doi:10.22033/ESGF/CMIP6.1402.
- 5 Guo, H., John, J. G., Blanton, C., McHugh, C., Nikonov, S., Radhakrishnan, A., et al. (2018b). NOAA-GFDL GFDL-
6 CM4 model output historical. doi:10.22033/ESGF/CMIP6.8594.
- 7 Guo, H., John, J. G., Blanton, C., McHugh, C., Nikonov, S., Radhakrishnan, A., et al. (2018c). NOAA-GFDL GFDL-
8 CM4 model output piControl. doi:10.22033/ESGF/CMIP6.8666.
- 9 Guo, H., John, J. G., Blanton, C., McHugh, C., Nikonov, S., Radhakrishnan, A., et al. (2018d). NOAA-GFDL GFDL-
10 CM4 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.9263.
- 11 Guo, H., John, J. G., Blanton, C., McHugh, C., Nikonov, S., Radhakrishnan, A., et al. (2018e). NOAA-GFDL GFDL-
12 CM4 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.9268.
- 13 Gutenstein, M., Fennig, K., Schröder, M., Trent, T., Bakan, S., Roberts, J. B., et al. (2020). Intercomparison of
14 freshwater fluxes over ocean and investigations into water budget closure. *Hydrol. Earth Syst. Sci. Discuss.* 2020,
15 1–35. doi:10.5194/hess-2020-317.
- 16 Haerter, J. O., and Schlemmer, L. (2018). Intensified Cold Pool Dynamics Under Stronger Surface Heating. *Geophys.*
17 *Res. Lett.* 45, 6299–6310. doi:10.1029/2017GL076874.
- 18 Hajima, T., Abe, M., Arakawa, O., Suzuki, T., Komuro, Y., Ogura, T., et al. (2019a). MIROC MIROC-ES2L model
19 output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.902.
- 20 Hajima, T., Abe, M., Arakawa, O., Suzuki, T., Komuro, Y., Ogura, T., et al. (2019b). MIROC MIROC-ES2L model
21 output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.5602.
- 22 Hajima, T., Abe, M., Arakawa, O., Suzuki, T., Komuro, Y., Ogura, T., et al. (2019c). MIROC MIROC-ES2L model
23 output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.5710.
- 24 Harris, I., Jones, P. D., Osborn, T. J., and Lister, D. H. (2014). Updated high-resolution grids of monthly climatic
25 observations – the CRU TS3.10 Dataset. *Int. J. Climatol.* 34, 623–642. doi:10.1002/joc.3711.
- 26 Hessel, A. E., Anchukaitis, K. J., Jelsema, C., Cook, B., Byambasuren, O., Leland, C., et al. (2018). Past and future
27 drought in Mongolia. *Sci. Adv.* 4, e1701832.
- 28 Huang, W. (2019a). THU CIESM model output prepared for CMIP6 CMIP historical.
29 doi:10.22033/ESGF/CMIP6.8843.
- 30 Huang, W. (2019b). THU CIESM model output prepared for CMIP6 CMIP piControl.
31 doi:10.22033/ESGF/CMIP6.8849.
- 32 Huang, W. (2019c). THU CIESM model output prepared for CMIP6 ScenarioMIP ssp126.
33 doi:10.22033/ESGF/CMIP6.8857.
- 34 Huang, W. (2020a). THU CIESM model output prepared for CMIP6 ScenarioMIP ssp245.
35 doi:10.22033/ESGF/CMIP6.8858.
- 36 Huang, W. (2020b). THU CIESM model output prepared for CMIP6 ScenarioMIP ssp585.
37 doi:10.22033/ESGF/CMIP6.8863.
- 38 Huffman, G. J., Adler, R. F., Arkin, P., Chang, A., Ferraro, R., Gruber, A., et al. (1997). The Global Precipitation
39 Climatology Project (GPCP) Combined Precipitation Dataset. *Bull. Am. Meteorol. Soc.* doi:10.1175/1520-
40 0477(1997)078<0005:TGPCPG>2.0.CO;2.
- 41 Huffman, G. J., Adler, R. F., Bolvin, D. T., and Gu, G. (2009). Improving the global precipitation record: GPCP
42 Version 2.1. *Geophys. Res. Lett.* 36. doi:https://doi.org/10.1029/2009GL040000.
- 43 Jackson, L. (2020a). MOHC HadGEM3-GC31-MM model output prepared for CMIP6 ScenarioMIP ssp126.
44 doi:10.22033/ESGF/CMIP6.10850.
- 45 Jackson, L. (2020b). MOHC HadGEM3-GC31-MM model output prepared for CMIP6 ScenarioMIP ssp585.
46 doi:10.22033/ESGF/CMIP6.10902.
- 47 John, J. G., Blanton, C., McHugh, C., Radhakrishnan, A., Rand, K., Vahlenkamp, H., et al. (2018a). NOAA-GFDL
48 GFDL-ESM4 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.8684.
- 49 John, J. G., Blanton, C., McHugh, C., Radhakrishnan, A., Rand, K., Vahlenkamp, H., et al. (2018b). NOAA-GFDL
50 GFDL-ESM4 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.8686.
- 51 John, J. G., Blanton, C., McHugh, C., Radhakrishnan, A., Rand, K., Vahlenkamp, H., et al. (2018c). NOAA-GFDL
52 GFDL-ESM4 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.8706.
- 53 Jones, G. (2019a). MOHC HadGEM3-GC31-LL model output prepared for CMIP6 DAMIP hist-aer.
54 doi:10.22033/ESGF/CMIP6.6052.
- 55 Jones, G. (2019b). MOHC HadGEM3-GC31-LL model output prepared for CMIP6 DAMIP hist-GHG.
56 doi:10.22033/ESGF/CMIP6.6051.
- 57 Jones, G. (2019c). MOHC HadGEM3-GC31-LL model output prepared for CMIP6 DAMIP hist-nat.
58 doi:10.22033/ESGF/CMIP6.6059.
- 59 Jungclaus, J., Bittner, M., Wieners, K.-H., Wachsmann, F., Schupfner, M., Legutke, S., et al. (2019a). MPI-M MPI-
60 ESM1.2-HR model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.6594.
- 61 Jungclaus, J., Bittner, M., Wieners, K.-H., Wachsmann, F., Schupfner, M., Legutke, S., et al. (2019b). MPI-M MPI-

- 1 ESM1.2-HR model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.6674.
- 2 Jungclaus, J., Bittner, M., Wieners, K.-H., Wachsmann, F., Schupfner, M., Legutke, S., et al. (2019c). MPI-M
- 3 MPIESM1.2-HR model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.741.
- 4 Krasting, J. P., John, J. G., Blanton, C., McHugh, C., Nikonov, S., Radhakrishnan, A., et al. (2018a). NOAA-GFDL
- 5 GFDL-ESM4 model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1407.
- 6 Krasting, J. P., John, J. G., Blanton, C., McHugh, C., Nikonov, S., Radhakrishnan, A., et al. (2018b). NOAA-GFDL
- 7 GFDL-ESM4 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.8597.
- 8 Krasting, J. P., John, J. G., Blanton, C., McHugh, C., Nikonov, S., Radhakrishnan, A., et al. (2018c). NOAA-GFDL
- 9 GFDL-ESM4 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.8669.
- 10 Kwon, E. Y., Kim, G., Primeau, F., Moore, W. S., Cho, H.-M., DeVries, T., et al. (2014). Global estimate of submarine
- 11 groundwater discharge based on an observationally constrained radium isotope model. *Geophys. Res. Lett.* 41,
- 12 8438–8444. doi:10.1002/2014GL061574.
- 13 Lee, W.-L., and Liang, H.-C. (2020a). AS-RCEC TaiESM1.0 model output prepared for CMIP6 CMIP historical.
- 14 doi:10.22033/ESGF/CMIP6.9755.
- 15 Lee, W.-L., and Liang, H.-C. (2020b). AS-RCEC TaiESM1.0 model output prepared for CMIP6 CMIP piControl.
- 16 doi:10.22033/ESGF/CMIP6.9798.
- 17 Lee, W.-L., and Liang, H.-C. (2020c). AS-RCEC TaiESM1.0 model output prepared for CMIP6 ScenarioMIP ssp585.
- 18 doi:10.22033/ESGF/CMIP6.9823.
- 19 Lehner, F., Deser, C., Maher, N., Marotzke, J., Fischer, E. M., Brunner, L., et al. (2020). Partitioning climate projection
- 20 uncertainty with multiple Large Ensembles and CMIP5/6. *Earth Syst. Dyn.* 11, 1–28. doi:10.5194/esd-11-491-
- 21 2020.
- 22 Lenderink, G., Belušić, D., Fowler, H. J., Kjellström, E., Lind, P., van Meijgaard, E., et al. (2019). Systematic increases
- 23 in the thermodynamic response of hourly precipitation extremes in an idealized warming experiment with a
- 24 convection-permitting climate model. *Environ. Res. Lett.* 14, 074012. doi:10.1088/1748-9326/ab214a.
- 25 Li, L. (2019a). CAS FGOALS-g3 model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1783.
- 26 Li, L. (2019b). CAS FGOALS-g3 model output prepared for CMIP6 CMIP historical.
- 27 doi:10.22033/ESGF/CMIP6.3356.
- 28 Li, L. (2019c). CAS FGOALS-g3 model output prepared for CMIP6 CMIP piControl.
- 29 doi:10.22033/ESGF/CMIP6.3448.
- 30 Li, L. (2019d). CAS FGOALS-g3 model output prepared for CMIP6 ScenarioMIP ssp126.
- 31 doi:10.22033/ESGF/CMIP6.3465.
- 32 Li, L. (2019e). CAS FGOALS-g3 model output prepared for CMIP6 ScenarioMIP ssp245.
- 33 doi:10.22033/ESGF/CMIP6.3469.
- 34 Li, L. (2019f). CAS FGOALS-g3 model output prepared for CMIP6 ScenarioMIP ssp585.
- 35 doi:10.22033/ESGF/CMIP6.3503.
- 36 Li, L. (2020a). CAS FGOALS-g3 model output prepared for CMIP6 DAMIP. doi:10.22033/ESGF/CMIP6.2048.
- 37 Li, L. (2020b). CAS FGOALS-g3 model output prepared for CMIP6 DAMIP hist-aer.
- 38 doi:10.22033/ESGF/CMIP6.3323.
- 39 Li, L. (2020c). CAS FGOALS-g3 model output prepared for CMIP6 DAMIP hist-GHG.
- 40 doi:10.22033/ESGF/CMIP6.3321.
- 41 Li, L. (2020d). CAS FGOALS-g3 model output prepared for CMIP6 DAMIP hist-nat.
- 42 doi:10.22033/ESGF/CMIP6.3330.
- 43 Liu, W., Xie, S. P., Liu, Z., and Zhu, J. (2017). Overlooked possibility of a collapsed atlantic meridional overturning
- 44 circulation in warming climate. *Sci. Adv.* doi:10.1126/sciadv.1601666.
- 45 Liu, Z., Otto-Bliesner, B. L., He, F., Brady, E. C., Tomas, R., Clark, P. U., et al. (2009). Transient simulation of last
- 46 deglaciation with a new mechanism for bolling-allerod warming. *Science (80-.)*. doi:10.1126/science.1171041.
- 47 Lovato, T., and Peano, D. (2020a). CMCC CMCC-CM2-SR5 model output prepared for CMIP6 CMIP historical.
- 48 doi:10.22033/ESGF/CMIP6.3825.
- 49 Lovato, T., and Peano, D. (2020b). CMCC CMCC-CM2-SR5 model output prepared for CMIP6 CMIP piControl.
- 50 doi:10.22033/ESGF/CMIP6.3874.
- 51 Lovato, T., and Peano, D. (2020c). CMCC CMCC-CM2-SR5 model output prepared for CMIP6 ScenarioMIP ssp126.
- 52 doi:10.22033/ESGF/CMIP6.3887.
- 53 Lovato, T., and Peano, D. (2020d). CMCC CMCC-CM2-SR5 model output prepared for CMIP6 ScenarioMIP ssp245.
- 54 doi:10.22033/ESGF/CMIP6.3889.
- 55 Lovato, T., and Peano, D. (2020e). CMCC CMCC-CM2-SR5 model output prepared for CMIP6 ScenarioMIP ssp585.
- 56 doi:10.22033/ESGF/CMIP6.3896.
- 57 Luijendijk, E., Gleeson, T., and Moosdorf, N. (2020). Fresh groundwater discharge insignificant for the world's oceans
- 58 but important for coastal ecosystems. *Nat. Commun.* 11, 1260. doi:10.1038/s41467-020-15064-8.
- 59 NASA Goddard Institute for Space Studies (NASA/GISS) (2018a). NASA-GISS GISS-E2.1G model output prepared
- 60 for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1400.
- 61 NASA Goddard Institute for Space Studies (NASA/GISS) (2018b). NASA-GISS GISS-E2.1G model output prepared

- for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.7127.
- NASA Goddard Institute for Space Studies (NASA/GISS) (2018c). NASA-GISS GISS-E2.1G model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.7380.
- NASA Goddard Institute for Space Studies (NASA/GISS) (2018d). NASA-GISS GISS-E2.1H model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.7381.
- NASA Goddard Institute for Space Studies (NASA/GISS) (2020a). NASA-GISS GISS-E2.1G model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.7410.
- NASA Goddard Institute for Space Studies (NASA/GISS) (2020b). NASA-GISS GISS-E2.1G model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.7415.
- NASA Goddard Institute for Space Studies (NASA/GISS) (2020c). NASA-GISS GISS-E2.1G model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.7460.
- Neubauer, D., Ferrachat, S., Siegenthaler-Le Drian, C., Stoll, J., Folini, D. S., Tegen, I., et al. (2019). HAMMOZ-Consortium MPI-ESM1.2-HAM model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.5037.
- O’Gorman, P. A. (2012). Sensitivity of tropical precipitation extremes to climate change. *Nat. Geosci.* 5, 697–700. doi:10.1038/ngeo1568.
- Palmer, J. G., Cook, E. R., Turney, C. S. M., Allen, K., Fenwick, P., Cook, B. I., et al. (2015). Drought variability in the eastern Australia and New Zealand summer drought atlas (ANZDA, CE 1500–2012) modulated by the Interdecadal Pacific Oscillation. *Environ. Res. Lett.* doi:10.1088/1748-9326/10/12/124002.
- Panickal, S., and Narayanasetti, S. (2020a). CCCR-IITM IITM-ESM model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.14747.
- Panickal, S., and Narayanasetti, S. (2020b). CCCR-IITM IITM-ESM model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.14748.
- Panickal, S., and Narayanasetti, S. (2020c). CCCR-IITM IITM-ESM model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.14753.
- Park, S., and Shin, J. (2019). SNU SAM0-UNICON model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.7791.
- Pederson, N., Hessel, A. E., Baatarbileg, N., Anchukaitis, K. J., and Di Cosmo, N. (2014). Pluvials, droughts, the Mongol Empire, and modern Mongolia. *Proc. Natl. Acad. Sci.* doi:10.1073/pnas.1318677111.
- Pendergrass, A. G. (2020). The global-mean precipitation response to CO₂-induced warming in CMIP6 models. *Geophysical Res. Lett.* 47, e2020GL089964. doi:10.1029/2020GL089964.
- Prein, A. F., Rasmussen, R. M., Ikeda, K., Liu, C., Clark, M. P., and Holland, G. J. (2017). The future intensification of hourly precipitation extremes. *Nat. Clim. Chang.* 7, 48–52. doi:10.1038/nclimate3168.
- Pulliainen, J., Luojus, K., Derksen, C., Mudryk, L., Lemmetyinen, J., Salminen, M., et al. (2020). Patterns and trends of Northern Hemisphere snow mass from 1980 to 2018. *Nature* 581, 294–298. doi:10.1038/s41586-020-2258-0.
- Raghavan, K., and Panickal, S. (2019). CCCR-IITM IITM-ESM model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.3708.
- Rehfeld, K., Hébert, R., Lora, J., Lofverstrom, M., and Brierley, C. (2020). Variability of surface climate in simulations of past and future. *Earth Syst. Dyn. Discuss.* 11, 1–30. doi:10.5194/esd-2019-92.
- Richardson, T. B., Forster, P. M. P., Andrews, T., Boucher, O., Faluvegi, G., Fläschner, D., et al. (2018). Drivers of precipitation change: An energetic understanding. *J. Clim.* 31, 9641–9657. doi:10.1175/JCLI-D-17-0240.1.
- Ridley, J., Menary, M., Kuhlbrodt, T., Andrews, M., and Andrews, T. (2018). MOHC HadGEM3-GC31-LL model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.6294.
- Ridley, J., Menary, M., Kuhlbrodt, T., Andrews, M., and Andrews, T. (2019a). MOHC HadGEM3-GC31-LL model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.6109.
- Ridley, J., Menary, M., Kuhlbrodt, T., Andrews, M., and Andrews, T. (2019b). MOHC HadGEM3-GC31-MM model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.6112.
- Ridley, J., Menary, M., Kuhlbrodt, T., Andrews, M., and Andrews, T. (2019c). MOHC HadGEM3-GC31-MM model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.6297.
- Rodell, M., Beaudoin, H. K., L’Ecuyer, T. S., Olson, W. S., Famiglietti, J. S., Houser, P. R., et al. (2015). The observed state of the water cycle in the early twenty-first century. *J. Clim.* 28, 8289–8318. doi:10.1175/JCLI-D-14-00555.1.
- Rodell, M., Famiglietti, J. S., Wiese, D. N., Reager, J. T., Beaudoin, H. K., Landerer, F. W., et al. (2018). Emerging trends in global freshwater availability. *Nature* 557, 651–659. doi:10.1038/s41586-018-0123-1.
- Rong, X. (2019a). CAMS CAMS_CSM1.0 model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1399.
- Rong, X. (2019b). CAMS CAMS_CSM1.0 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.9754.
- Rong, X. (2019c). CAMS CAMS_CSM1.0 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.9797.
- Rong, X. (2019d). CAMS CAMS_CSM1.0 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.11046.

- Rong, X. (2019e). CAMS CAMS-CSM1.0 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.11047.
- Rong, X. (2019f). CAMS CAMS-CSM1.0 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.11052.
- Samset, B. H., Myhre, G., Forster, P. M., Hodnebrog, Ø., Andrews, T., Boucher, O., et al. (2018). Weak hydrological sensitivity to temperature change over land, independent of climate forcing. *npj Clim. Atmos. Sci.* 1, 3. doi:10.1038/s41612-017-0005-5.
- Schupfner, M., Wieners, K.-H., Wachsmann, F., Steger, C., Bittner, M., Jungclaus, J., et al. (2019a). DKRZ MPI-ESM1.2-HR model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.4397.
- Schupfner, M., Wieners, K.-H., Wachsmann, F., Steger, C., Bittner, M., Jungclaus, J., et al. (2019b). DKRZ MPI-ESM1.2-HR model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.4398.
- Schupfner, M., Wieners, K.-H., Wachsmann, F., Steger, C., Bittner, M., Jungclaus, J., et al. (2019c). DKRZ MPI-ESM1.2-HR model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.4403.
- Seferian, R. (2018a). CNRM-CERFACS CNRM-ESM2-1 model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1391.
- Seferian, R. (2018b). CNRM-CERFACS CNRM-ESM2-1 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.4068.
- Seferian, R. (2018c). CNRM-CERFACS CNRM-ESM2-1 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.4165.
- Seland, Ø., Bentsen, M., Olivieri, D. J. L., Toniazzi, T., Gjermundsen, A., Graff, L. S., et al. (2019a). NCC NorESM2-LM model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.8036.
- Seland, Ø., Bentsen, M., Olivieri, D. J. L., Toniazzi, T., Gjermundsen, A., Graff, L. S., et al. (2019b). NCC NorESM2-LM model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.8217.
- Seland, Ø., Bentsen, M., Olivieri, D. J. L., Toniazzi, T., Gjermundsen, A., Graff, L. S., et al. (2019c). NCC NorESM2-LM model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.8248.
- Seland, Ø., Bentsen, M., Olivieri, D. J. L., Toniazzi, T., Gjermundsen, A., Graff, L. S., et al. (2019d). NCC NorESM2-LM model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.8253.
- Seland, Ø., Bentsen, M., Olivieri, D. J. L., Toniazzi, T., Gjermundsen, A., Graff, L. S., et al. (2019e). NCC NorESM2-LM model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.8319.
- Semmler, T., Danilov, S., Rackow, T., Sidorenko, D., Barbi, D., Hegewald, J., et al. (2018a). AWI AWI-CM1.1MR model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.2686.
- Semmler, T., Danilov, S., Rackow, T., Sidorenko, D., Barbi, D., Hegewald, J., et al. (2018b). AWI AWI-CM1.1MR model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.2777.
- Semmler, T., Danilov, S., Rackow, T., Sidorenko, D., Barbi, D., Hegewald, J., et al. (2018c). AWI AWI-CM1.1MR model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.2796.
- Semmler, T., Danilov, S., Rackow, T., Sidorenko, D., Barbi, D., Hegewald, J., et al. (2018d). AWI AWI-CM1.1MR model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.2800.
- Semmler, T., Danilov, S., Rackow, T., Sidorenko, D., Barbi, D., Hegewald, J., et al. (2019). AWI AWI-CM1.1MR model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.2817.
- Sénési, S. (2020). CAMMAC - Climate Change Analysis using Multi-Model outputs and CliMAF. doi:10.5281/zenodo.4061814.
- Sénési, S., Servonnat, J., Rigoudy, G., and Vignon, L. (2021). CliMAF V2.0.1 pre-release. doi:10.5281/zenodo.4681071.
- Shiogama, H. (2019a). MIROC MIROC6 model output prepared for CMIP6 DAMIP hist-aer. doi:10.22033/ESGF/CMIP6.5579.
- Shiogama, H. (2019b). MIROC MIROC6 model output prepared for CMIP6 DAMIP hist-GHG. doi:10.22033/ESGF/CMIP6.5578.
- Shiogama, H. (2019c). MIROC MIROC6 model output prepared for CMIP6 DAMIP hist-nat. doi:10.22033/ESGF/CMIP6.5583.
- Shiogama, H., Abe, M., and Tatebe, H. (2019a). MIROC MIROC6 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.5743.
- Shiogama, H., Abe, M., and Tatebe, H. (2019b). MIROC MIROC6 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.5746.
- Shiogama, H., Abe, M., and Tatebe, H. (2019c). MIROC MIROC6 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.5771.
- Song, Z., Qiao, F., Bao, Y., Shu, Q., Song, Y., and Yang, X. (2019a). FIO-QLNM FIO-ESM2.0 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.9199.
- Song, Z., Qiao, F., Bao, Y., Shu, Q., Song, Y., and Yang, X. (2019b). FIO-QLNM FIO-ESM2.0 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.9205.
- Song, Z., Qiao, F., Bao, Y., Shu, Q., Song, Y., and Yang, X. (2019c). FIO-QLNM FIO-ESM2.0 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.9208.

- 1 Song, Z., Qiao, F., Bao, Y., Shu, Q., Song, Y., and Yang, X. (2019d). FIO-QLNM FIO-ESM2.0 model output prepared
2 for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.9209.
- 3 Song, Z., Qiao, F., Bao, Y., Shu, Q., Song, Y., and Yang, X. (2019e). FIO-QLNM FIO-ESM2.0 model output prepared
4 for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.9214.
- 5 Stephens, G. L., Li, J., Wild, M., Clayson, C. A., Loeb, N., Kato, S., et al. (2012). An update on Earth's energy balance
6 in light of the latest global observations. *Nat. Geosci.* 5, 691–696. doi:10.1038/ngeo1580.
- 7 Stouffer, R. (2019a). U of Arizona MCM-UA-1-0 model output prepared for CMIP6 CMIP.
8 doi:10.22033/ESGF/CMIP6.2421.
- 9 Stouffer, R. (2019b). UA MCM-UA-1-0 model output prepared for CMIP6 CMIP historical.
10 doi:10.22033/ESGF/CMIP6.8888.
- 11 Stouffer, R. (2019c). UA MCM-UA-1-0 model output prepared for CMIP6 CMIP piControl.
12 doi:10.22033/ESGF/CMIP6.8890.
- 13 Stouffer, R. (2019d). UA MCM-UA-1-0 model output prepared for CMIP6 ScenarioMIP ssp126.
14 doi:10.22033/ESGF/CMIP6.13895.
- 15 Stouffer, R. (2019e). UA MCM-UA-1-0 model output prepared for CMIP6 ScenarioMIP ssp245.
16 doi:10.22033/ESGF/CMIP6.13896.
- 17 Stouffer, R. (2019f). UA MCM-UA-1-0 model output prepared for CMIP6 ScenarioMIP ssp585.
18 doi:10.22033/ESGF/CMIP6.13901.
- 19 Sun, Q., Zhang, X., Zwiers, F., Westra, S., and Alexander, L. V. (2020). A global, continental and regional analysis of
20 changes in extreme precipitation. *J. Clim.*, 1–52. doi:10.1175/jcli-d-19-0892.1.
- 21 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019a). CCCma CanESM5-
22 CanOE model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.10205.
- 23 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019b). CCCma CanESM5-
24 CanOE model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.10260.
- 25 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019c). CCCma CanESM5-
26 CanOE model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.10266.
- 27 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019d). CCCma CanESM5-
28 CanOE model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.10269.
- 29 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019e). CCCma CanESM5-
30 CanOE model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.10270.
- 31 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019f). CCCma CanESM5-
32 CanOE model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.10276.
- 33 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019g). CCCma CanESM5
34 model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1303.
- 35 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019h). CCCma CanESM5
36 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.3610.
- 37 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019i). CCCma CanESM5
38 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.3673.
- 39 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019j). CCCma CanESM5
40 model output prepared for CMIP6 DAMIP hist-aer. doi:10.22033/ESGF/CMIP6.3597.
- 41 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019k). CCCma CanESM5
42 model output prepared for CMIP6 DAMIP hist-GHG. doi:10.22033/ESGF/CMIP6.3596.
- 43 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019l). CCCma CanESM5
44 model output prepared for CMIP6 DAMIP hist-nat. doi:10.22033/ESGF/CMIP6.3601.
- 45 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019m). CCCma CanESM5
46 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.3683.
- 47 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019n). CCCma CanESM5
48 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.3685.
- 49 Swart, N. C., Cole, J. N. S., Kharin, V. V., Lazare, M., Scinocca, J. F., Gillett, N. P., et al. (2019o). CCCma CanESM5
50 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.3696.
- 51 Tachiiri, K., Abe, M., Hajima, T., Arakawa, O., Suzuki, T., Komuro, Y., et al. (2019a). MIROC MIROC-ES2L model
52 output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.5742.
- 53 Tachiiri, K., Abe, M., Hajima, T., Arakawa, O., Suzuki, T., Komuro, Y., et al. (2019b). MIROC MIROC-ES2L model
54 output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.5745.
- 55 Tachiiri, K., Abe, M., Hajima, T., Arakawa, O., Suzuki, T., Komuro, Y., et al. (2019c). MIROC MIROC-ES2L model
56 output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.5770.
- 57 Tang, Y., Rumbold, S., Ellis, R., Kelley, D., Mulcahy, J., Sellar, A., et al. (2019a). MOHC UKESM1.0-LL model
58 output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1569.
- 59 Tang, Y., Rumbold, S., Ellis, R., Kelley, D., Mulcahy, J., Sellar, A., et al. (2019b). MOHC UKESM1.0-LL model
60 output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.6113.
- 61 Tang, Y., Rumbold, S., Ellis, R., Kelley, D., Mulcahy, J., Sellar, A., et al. (2019c). MOHC UKESM1.0-LL model

- output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.6298.
- Tatebe, H., and Watanabe, M. (2018a). MIROC MIROC6 model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.881.
- Tatebe, H., and Watanabe, M. (2018b). MIROC MIROC6 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.5603.
- Tatebe, H., and Watanabe, M. (2018c). MIROC MIROC6 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.5711.
- Tilina, N., Gulev, S. K., Rudeva, I., and Koltermann, P. (2013). Comparing cyclone life cycle characteristics and their interannual variability in different reanalyses. *J. Clim.* 26, 6419–6438. doi:10.1175/JCLI-D-12-00777.1.
- Trenberth, K. E., Fasullo, J. T., and Mackaro, J. (2011). Atmospheric moisture transports from ocean to land and global energy flows in reanalyses. *J. Clim.* 24, 4907–4924. doi:10.1175/2011JCLI4171.1.
- Volodre, A. (2018a). CMIP6 simulations of the CNRM-CERFACS based on CNRM-CM6-1 model for CMIP experiment historical. doi:10.22033/ESGF/CMIP6.4066.
- Volodre, A. (2018b). CMIP6 simulations of the CNRM-CERFACS based on CNRM-CM6-1 model for CMIP experiment piControl. doi:10.22033/ESGF/CMIP6.4163.
- Volodre, A. (2019a). CNRM-CERFACS CNRM-CM6-1-HR model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.4067.
- Volodre, A. (2019b). CNRM-CERFACS CNRM-CM6-1-HR model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.4164.
- Volodre, A. (2019c). CNRM-CERFACS CNRM-CM6-1-HR model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.4190.
- Volodre, A. (2019d). CNRM-CERFACS CNRM-CM6-1-HR model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.4225.
- Volodre, A. (2019e). CNRM-CERFACS CNRM-CM6-1 model output prepared for CMIP6 DAMIP hist-aer. doi:10.22033/ESGF/CMIP6.4044.
- Volodre, A. (2019f). CNRM-CERFACS CNRM-CM6-1 model output prepared for CMIP6 DAMIP hist-GHG. doi:10.22033/ESGF/CMIP6.4043.
- Volodre, A. (2019g). CNRM-CERFACS CNRM-CM6-1 model output prepared for CMIP6 DAMIP hist-nat. doi:10.22033/ESGF/CMIP6.4048.
- Volodre, A. (2019h). CNRM-CERFACS CNRM-CM6-1 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.4184.
- Volodre, A. (2019i). CNRM-CERFACS CNRM-CM6-1 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.4189.
- Volodre, A. (2019j). CNRM-CERFACS CNRM-CM6-1 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.4224.
- Volodre, A. (2019k). CNRM-CERFACS CNRM-ESM2-1 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.4186.
- Volodre, A. (2019l). CNRM-CERFACS CNRM-ESM2-1 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.4191.
- Volodre, A. (2019m). CNRM-CERFACS CNRM-ESM2-1 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.4226.
- Volodre, A. (2020). CNRM-CERFACS CNRM-CM6-1-HR model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.4185.
- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019a). INM INM-CM4-8 model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1422.
- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019b). INM INM-CM4-8 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.5069.
- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019c). INM INM-CM4-8 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.5080.
- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019d). INM INM-CM4-8 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.12325.
- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019e). INM INM-CM4-8 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.12327.
- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019f). INM INM-CM4-8 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.12337.
- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019g). INM INM-CM5-0 model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1423.
- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019h). INM INM-CM5-0 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.5070.
- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019i). INM INM-CM5-0 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.5081.

- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019j). INM INM-CM5-0 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.12326.
- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019k). INM INM-CM5-0 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.12328.
- Volodin, E., Mortikov, E., Gritsun, A., Lykossov, V., Galin, V., Diansky, N., et al. (2019l). INM INM-CM5-0 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.12338.
- Wang, T., Wang, H. J., Otterå, O. H., Gao, Y. Q., Suo, L. L., Furevik, T., et al. (2013). Anthropogenic agent implicated as a prime driver of shift in precipitation in eastern China in the late 1970s. *Atmos. Chem. Phys.* 13, 12433–12450. doi:10.5194/acp-13-12433-2013.
- Westra, S., Alexander, L. V., and Zwiers, F. W. (2013). Global increasing trends in annual maximum daily precipitation. *J. Clim.* doi:10.1175/JCLI-D-12-00502.1.
- Westra, S., and Sisson, S. A. (2011). Detection of non-stationarity in precipitation extremes using a max-stable process model. *J. Hydrol.* 406, 119–128. doi:10.1016/j.jhydrol.2011.06.014.
- Wieners, K.-H., Giorgetta, M., Jungclaus, J., Reick, C., Esch, M., Bittner, M., et al. (2019a). MPI-M MPI-ESM1.2-LR model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.6595.
- Wieners, K.-H., Giorgetta, M., Jungclaus, J., Reick, C., Esch, M., Bittner, M., et al. (2019b). MPI-M MPI-ESM1.2-LR model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.6675.
- Wieners, K.-H., Giorgetta, M., Jungclaus, J., Reick, C., Esch, M., Bittner, M., et al. (2019c). MPI-M MPI-ESM1.2-LR model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.6690.
- Wieners, K.-H., Giorgetta, M., Jungclaus, J., Reick, C., Esch, M., Bittner, M., et al. (2019d). MPI-M MPI-ESM1.2-LR model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.6693.
- Wieners, K.-H., Giorgetta, M., Jungclaus, J., Reick, C., Esch, M., Bittner, M., et al. (2019e). MPI-M MPI-ESM1.2-LR model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.6705.
- Wu, T., Chu, M., Dong, M., Fang, Y., Jie, W., Li, J., et al. (2018a). BCC BCC-CSM2MR model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.2948.
- Wu, T., Chu, M., Dong, M., Fang, Y., Jie, W., Li, J., et al. (2018b). BCC BCC-CSM2MR model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.3016.
- Wu, T., Chu, M., Dong, M., Fang, Y., Jie, W., Li, J., et al. (2019a). BCC BCC-CSM2MR model output prepared for CMIP6 DAMIP hist-aer. doi:10.22033/ESGF/CMIP6.2925.
- Wu, T., Chu, M., Dong, M., Fang, Y., Jie, W., Li, J., et al. (2019b). BCC BCC-CSM2MR model output prepared for CMIP6 DAMIP hist-GHG. doi:10.22033/ESGF/CMIP6.2924.
- Wu, T., Chu, M., Dong, M., Fang, Y., Jie, W., Li, J., et al. (2019c). BCC BCC-CSM2MR model output prepared for CMIP6 DAMIP hist-nat. doi:10.22033/ESGF/CMIP6.2929.
- Xin, X., Wu, T., Shi, X., Zhang, F., Li, J., Chu, M., et al. (2019a). BCC BCC-CSM2MR model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.3028.
- Xin, X., Wu, T., Shi, X., Zhang, F., Li, J., Chu, M., et al. (2019b). BCC BCC-CSM2MR model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.3030.
- Xin, X., Wu, T., Shi, X., Zhang, F., Li, J., Chu, M., et al. (2019c). BCC BCC-CSM2MR model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.3050.
- Xin, X., Zhang, J., Zhang, F., Wu, T., Shi, X., Li, J., et al. (2018). BCC BCC-CSM2MR model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1725.
- Yu, Y. (2018). CAS FGOALS-f3-L model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.1782.
- Yu, Y. (2019a). CAS FGOALS-f3-L model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.3355.
- Yu, Y. (2019b). CAS FGOALS-f3-L model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.3447.
- Yu, Y. (2019c). CAS FGOALS-f3-L model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.3464.
- Yu, Y. (2019d). CAS FGOALS-f3-L model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.3468.
- Yu, Y. (2019e). CAS FGOALS-f3-L model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.3502.
- Yukimoto, S., Koshiro, T., Kawai, H., Oshima, N., Yoshida, K., Urakawa, S., et al. (2019a). MRI MRI-ESM2.0 model output prepared for CMIP6 CMIP. doi:10.22033/ESGF/CMIP6.621.
- Yukimoto, S., Koshiro, T., Kawai, H., Oshima, N., Yoshida, K., Urakawa, S., et al. (2019b). MRI MRI-ESM2.0 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.6842.
- Yukimoto, S., Koshiro, T., Kawai, H., Oshima, N., Yoshida, K., Urakawa, S., et al. (2019c). MRI MRI-ESM2.0 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.6900.
- Yukimoto, S., Koshiro, T., Kawai, H., Oshima, N., Yoshida, K., Urakawa, S., et al. (2019d). MRI MRI-ESM2.0 model output prepared for CMIP6 DAMIP hist-aer. doi:10.22033/ESGF/CMIP6.6821.
- Yukimoto, S., Koshiro, T., Kawai, H., Oshima, N., Yoshida, K., Urakawa, S., et al. (2019e). MRI MRI-ESM2.0 model

- output prepared for CMIP6 DAMIP hist-GHG. doi:10.22033/ESGF/CMIP6.6820.
- Yukimoto, S., Koshiro, T., Kawai, H., Oshima, N., Yoshida, K., Urakawa, S., et al. (2019f). MRI MRI-ESM2.0 model output prepared for CMIP6 DAMIP hist-nat. doi:10.22033/ESGF/CMIP6.6825.
- Yukimoto, S., Koshiro, T., Kawai, H., Oshima, N., Yoshida, K., Urakawa, S., et al. (2019g). MRI MRI-ESM2.0 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.6909.
- Yukimoto, S., Koshiro, T., Kawai, H., Oshima, N., Yoshida, K., Urakawa, S., et al. (2019h). MRI MRI-ESM2.0 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.6910.
- Yukimoto, S., Koshiro, T., Kawai, H., Oshima, N., Yoshida, K., Urakawa, S., et al. (2019i). MRI MRI-ESM2.0 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.6929.
- Zeder, J., and Fischer, E. M. (2020). Observed extreme precipitation trends and scaling in Central Europe. *Weather Clim. Extrem.* 29, 100266. doi:10.1016/j.wace.2020.100266.
- Zhang, J., Wu, T., Shi, X., Zhang, F., Li, J., Chu, M., et al. (2018). BCC BCC-ESM1 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.3017.
- Zhou, Y., Sawyer, A. H., David, C. H., and Famiglietti, J. S. (2019). Fresh submarine groundwater discharge to the near-global coast. *Geophys. Res. Lett.*, 2019GL082749. doi:10.1029/2019GL082749.
- Ziehn, T., Chamberlain, M., Lenton, A., Law, R., Bodman, R., Dix, M., et al. (2019a). CSIRO ACCESS-ESM1.5 model output prepared for CMIP6 CMIP historical. doi:10.22033/ESGF/CMIP6.4272.
- Ziehn, T., Chamberlain, M., Lenton, A., Law, R., Bodman, R., Dix, M., et al. (2019b). CSIRO ACCESS-ESM1.5 model output prepared for CMIP6 CMIP piControl. doi:10.22033/ESGF/CMIP6.4312.
- Ziehn, T., Chamberlain, M., Lenton, A., Law, R., Bodman, R., Dix, M., et al. (2019c). CSIRO ACCESS-ESM1.5 model output prepared for CMIP6 ScenarioMIP ssp126. doi:10.22033/ESGF/CMIP6.4320.
- Ziehn, T., Chamberlain, M., Lenton, A., Law, R., Bodman, R., Dix, M., et al. (2019d). CSIRO ACCESS-ESM1.5 model output prepared for CMIP6 ScenarioMIP ssp245. doi:10.22033/ESGF/CMIP6.4322.
- Ziehn, T., Chamberlain, M., Lenton, A., Law, R., Bodman, R., Dix, M., et al. (2019e). CSIRO ACCESS-ESM1.5 model output prepared for CMIP6 ScenarioMIP ssp585. doi:10.22033/ESGF/CMIP6.4333.
- Ziehn, T., Dix, M., Mackallah, C., Chamberlain, M., Lenton, A., Law, R., et al. (2020a). CSIRO ACCESS-ESM1.5 model output prepared for CMIP6 DAMIP hist-aer. doi:10.22033/ESGF/CMIP6.14370.
- Ziehn, T., Dix, M., Mackallah, C., Chamberlain, M., Lenton, A., Law, R., et al. (2020b). CSIRO ACCESS-ESM1.5 model output prepared for CMIP6 DAMIP hist-GHG. doi:10.22033/ESGF/CMIP6.14366.
- Ziehn, T., Dix, M., Mackallah, C., Chamberlain, M., Lenton, A., Law, R., et al. (2020c). CSIRO ACCESS-ESM1.5 model output prepared for CMIP6 DAMIP hist-nat. doi:10.22033/ESGF/CMIP6.14378.