Chapter 4: Future global climate: scenario-based projections and near-term information - Supplementary Material

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4.SM.1 Data Table

[START TABLE 4.SM.1 HERE]

Table 4.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**	**Notes** [Can add info on data processing, e.g., reference period conversion]
Figure 4.2d	Global mean sea-level (GMSL) change	Input dataset	Annual GMSL time series, 1950-2100					Emulator-based time series from Chapter 9
Figure 4.5	AMOC change	Input dataset					(Sigmond et al., 2018)	
Figure 4.28	ECMWF ERA-Interim Reanalysis	Input dataset	Daily, DJF, 1986-2005, zg 500hPa	CC BY-SA 4.0		http://apps.ecmwf.int/datasets/data/interim-full-moda/	(Dee et al., 2011)	
	NCEP/NCAR Reanalysis	Input dataset	Daily, DJF, 1986-2005, zg 500hPa	CC BY-SA 4.0		https://psl.noaa.gov/data	(Kalnay et al., 1996)	
	JRA55 Reanalysis	Input dataset	Daily, DJF, 1986-2005, zg 500hPa	CC BY-SA 4.0		https://jra.kishou.go.jp/JRA-55/index_en.html	(Kobayashi et al., 2015)	
Figure 4.35	GSAT data : MAGICC AR6-WG1 calibration SSP and RCP experiments (including 2300 extension)	Code				https://gitlab.com/magicc/wg1-ar6-plots/-/blob/master/notebooks/010-magicc-runs/110_ssps_and_rcps.ipynb	(Meinshausen et al., 2009, 2011, 2020)	Cross-chapter Box 7.1
	ERF data	Code		MIT (as part of Chris Smith's		https://github.com/chrisroadmap/		Chapter 7.SM.1.4

				AR6 repository)		ar6/blob/main/notebooks/070_chapter7_fig7.4.ipynb		
Figure 4-39	Zero Emissions Commitment from CO2	Input dataset				http://terra.seos.uvic.ca/ZEC/Data/	(MacDougall et al., 2020)	
	CMIP6 CMIP and C4MIP simulation	Input dataset	CMIP6.CMIP.NOAA-GFDL.GFDL-ESM4.1pctCO2.r1i1p1f1.Amon.tas.gr1.v20180701	CC BY-SA 4.0		https://esgf-node.llnl.gov/search/cmip6/		
			CMIP6.C4MIP.NOAA-GFDL.GFDL-ESM4.esm-1pct-brch-1000PgC.r1i1p1f1.Amon.co2.gr1.v20180701					
			CMIP6.C4MIP.NOAA-GFDL.GFDL-ESM4.esm-1pct-brch-1000PgC.r1i1p1f1.Amon.tas.gr1.v20180701					
Figure 4-40	MAGICC AR6-WG1 calibration SSP and RCP experiments (including 2300 extension)	Code				https://gitlab.com/magicc/wg1-ar6-plots/-/blob/master/notebooks/010-magicc-runs/110_ssps_and_rcps.ipynb	Meinshausen et al., 2009, 2011, 2020)	Cross-chapter Box 7.1
Box Figure 4.1	HadCRUT5	Input dataset		CC BY-SA 4.0		https://crudata.uea.ac.uk/cru/data/temperature/#datdow	(Morice et al., 2021)	
Cross-Chapter Box Figure 4.1	Volcanic ERF and annual mean GSAT	Input dataset	Cross Chapter Box Fig 4.1_ERF data Cross Chapter Box Fig			DMS	(Bethke et al., 2017)	

			4.1_GMSTvolc data Cross Chapter Box Fig 4.1_GMSTzero data					
	Re-plotting Figure 2 from Bethke et al. 2017	Code	Cross Chapter Box Fig 4.1_code.m			DMS		

[END TABLE 4.SM.1 HERE]

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