AR6 WGI Report – List of corrigenda to be implemented

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

CHAPTER 1 SUPPLEMENTARY MATERIAL

Document (Chapter, Annex, Supp. Mat…)	Section	Page :Line (based on the final pdf FGD version)	Detailed info on correction to make
Chapter 1.SM			Update the Data Table with omitted data citations for climate model data.
Chapter 1 SM	1.SM.1	1.SM-3:-	In Table 1.SM.1: Row 1, Column 1: "**Figure number / Table number / Chapter section (for calculations)"** replace with **"Figure number"**
Chapter 1 SM	1.SM.1	1.SM-4:-	In Table 1.SM.1: Row 5, Column 4: Add "Uncertainty +/- 1.3 ppm"
Chapter 1 SM	1.SM.1	1.SM-7:-	In Table 1.SM.1: Row 5, Column 8: "Chapter 4" replace by "Chapter 9"
Chapter 1 SM	1.SM.1	1.SM-7:-	In Table 1.SM.1: Row 6, Column 8: "Chapter 4" replace by "Chapter 9"
Chapter 1 SM	1.SM.1	1.SM-8:-	In Table 1.SM.1: Row 2, Column 4: "baseline 1961- 1990. " replace by "Referenced to 1850-1900 baseline AR6 assessed 4-dataset mean "
Chapter 1 SM	1.SM.1	1.SM-8:-	In Table 1.SM.1: Row 3, Column 8: Add "(Bereiter et al., 2015)"
Chapter 1 SM	1.SM.1	1.SM-8:-	In Table 1.SM.1: Row 4, Column 4: "co2_trend_gl.txt (??) " replace by "Uncertainty +/- 0.12 ppm"
Chapter 1 SM	1.SM.1	1.SM-8:-	In Table 1.SM.1: Row 4, Column 8: "Tans and Keeling (2019)" replace by "Tans and Keeling (2020) "
Chapter 1 SM	1.SM.1	1.SM-13:-	In Table 1.SM.1: Row 5, Column 9: Add "See Chapter 2"
Chapter 1 SM	1.SM.1	1.SM-13:-	In Table 1.SM.1: Row 6, Column 9: Add "See Cross-Chapter Box 11.1"
Chapter 1 SM	1.SM.1	1.SM-13:-	In Table 1.SM.1: Row 7, Column 7: Add "greenhousegases.science.unimelb.edu.au"
Chapter 1 SM	1.SM.1	1.SM-13:-	In Table 1.SM.1: Row 8, Column 7: Add "greenhousegases.science.unimelb.edu.au"
Chapter 1 SM	1.SM.1	1.SM-15:-	In Table 1.SM.1: Row 4, Column 7: Add "IIASA RCP database: https://tntcat.iiasa.ac.at/RcpDb/dsd?Action=htmlpage&page=welcome"
Chapter 1 SM	1.SM.1	1.SM-15:-	In Table 1.SM.1: Row 7, Column 8: Add "IPCC (2020)"
Chapter 1 SM	1.SM.1	1.SM-16:-	In Table 1.SM.1: Row 3, Column 8: Add "(Fujino et al., 2006; Smith and Wigley, 2006; Clarke et al., 2007; Riahi et al., 2007; van Vuuren et al., 2007; Hijioka et al., 2008; Wise et al., 2009)"
Chapter 1 SM	1.SM.1	1.SM-17:-	In Table 1.SM.1: Row 3, Column 8: Add "(Huppmann et al., 2019)"
Chapter 1 SM	1.SM.1	1.SM-17:-	In Table 1.SM.1: Row 9, Column 6: Delete "Will be generated by TSU"

Chapter 1: Framing, context, methods - Supplementary Material

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Table of Contents

1.SM.1 Data Table

[START TABLE 1.SM.1 HERE]

Table 1.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 1.4	CO2: Antarctic ice core	Input dataset	grl52461-sup-0003-supplementary.xls			https://agupubs.onlinelibrary.wiley.com/action/downloadSupplement?doi=10.1002%2F2014GL061957&file=grl52461-sup-0003-supplementary.xls	Lüthi et al. (2008); Bereiter et al. (2015)	
	CO2: direct air measurements	Input dataset	co2_trend_gl.txt			https://www.esrl.noaa.gov/gmd/ccgg/trends/gl_data.html	Tans and Keeling (2019)	
	Precipitation: Global Precipitation Climatology Centre (GPCC) V8	Input dataset	baseline 1961-1990 using land areas only. Latitude bands are 33ºN-66ºN and 15ºS-30ºS.			https://psl.noaa.gov/data/gridded/data.gpcc.html	Becker et al. (2013)	
	Glacier mass loss	Input dataset	Zemp_etal_results_regions_glob	Creative Commons	10.5281/zenodo.1492141	https://doi.org/10.5281/zenodo.149	Zemp et al. (2019)	

			al.zip	Attribution 4.0 International		2141		
	Surface air temperature (GMST): Hadley Centre/Climatic Research Unit Temperature (HadCRUT) 5.0	Input dataset	baseline 1961-1990.	Open Government License v3.		https://www.metoffice.gov.uk/hadobs/hadcrut5/data/current/download.html	Morice et al. (2021)	
	Sea leve change	Input dataset	Baseline 1900-1929.			https://static-content.springer.com/esm/art%3A10.1038%2Fs41558-019-0531-8/MediaObjects/41558_2019_531_MOESM2_ESM.txt	Dangendorf et al. (2019)	
	Ocean heat content	Input dataset	baseline1961-1990.			https://www.ncei.noaa.gov/access/global-ocean-heat-content/heat_global.html	Zanna et al. (2019)	
Figure 1.5, panel a	Left. CO2, air enclosed in ice measurements	Input dataset	grl52461-sup-0003-supplementary.xls			https://agupubs.onlinelibrary.wiley.com/action/downloadSupplement?doi=10.1002%2F2014GL061957&file=grl52461-sup-	Bereiter et al. (2015) AR6 Chapter 2 Table 2.1	

						0003-supplementary.xls https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014GL061957		
	Middle. CO2, direct air measurements	Input dataset	uncertainty +/- 0.12 ppm			https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014GL061957 https://www.esrl.noaa.gov/gmd/ccgg/trends/gl_data.html	Bereiter et al. (2015); Tans and Keeling (2019) (consulted on 02.12.2020)	
	Right. CO2, Projected concentration for five SSPs	Input dataset	uncertainty +/- 2ppm.	Creative Commons Attribution-ShareAlike 4.0 International License (CC BY-SA 4.0)		https://gmd.copernicus.org/articles/13/3571/2020/gmd-13-3571-2020-discussion.html	Meinshausen et al. (2020)	
Figure 1.5, panel b	Left. Global Mean Surface Air Temperature	Input dataset	Only 50% column used (Snyder, 2016) Referenced to 1850-1900 by adding +0.36°C (Hansen et al., 2013)			https://www.nature.com/articles/nature19798 (Snyder, 2016) ; https://doi.org/10.1098/rsta.2012.0294 (Hansen et al., 2013); https://science.sciencemag.org/high	Hansen et al. (2013); Snyder (2016); Westerhold et al. (2020) AR6 Chapter 2 Section 2.3.1.1; Cross-chapter Box 2.3 Table 1	

						wire/filestream/749806/field_highwire_adjunct_files/0/aba6853_Tables_S8_S34.xlsx (Westerhold et al., 2020)		
	Middle. Observed and reconstructed temperature changes since 1850, Hadley Centre/Climatic Research Unit Temperature (HadCRUT) 5.0	Input dataset	referenced to 1850-1900 baseline AR6 assessed 4-dataset mean	Open Government License v3.		https://www.metoffice.gov.uk/hadobs/hadcrut5/data/current/download.html	Morice et al. (2021)	
	Right. Projected mean and ranges of warming; **CMIP6 MODEL & EXPERIMENTS (2081-2100)**	Input dataset	CMIP6 MODEL & EXPERIMENTS (2081-2100)				AR6 Chapter 4 Table 4.5	
	Right. Projected mean and ranges of warming; **Model for the Assessment of Greenhouse**	Input dataset	(2300) simulations				AR6 Chapter 4 Table 4.9	

	Gas Induced Climate Change (MAGICC7)							
Figure 1.5, panel c	Left. Sea level reconstruction	Input dataset	https://www1.ncdc.noaa.gov/pub/data/paleo/contributions_by_author/spratt2016/spratt2016.txt. Uncertainty +/- 5m Only long time series used			https://www.ncdc.noaa.gov/paleo-search/study/19982	Spratt and Lisiecki (2016) AR6 Chapter 2 Section 2.3.3.3 and Chapter 9 Section 9.6.2	
	Middle. Sea level record over the historial period	Input dataset	first referenced to its own 1850-1900 average Sea level record from 1850 to 1900			https://www.pnas.org/content/113/11/E1434	Kopp et al. (2016)	
	Middle. Sea level record over the historial period	Input dataset	20th century sea level record referenced to 1850-1900	CC BY 3.0 licence		https://iopscience.iop.org/article/10.1088/1748-9326/abdaec	Palmer et al. (2021)	
	Right. Sea level projections based on SSPs-based simulations (2081-2100). **CMIP6 MODELS & EXPERIMENTS**	Input dataset	Relative to 1850-1900, by adding +0.16m				AR6 Chapter 4 Table 9.9 Total (2100)	
	Right. Sea level	Input dataset					AR6 Chapter 4	

	projections based on SSPs-based simulations (2281-2300).						Section 9.6.3.5	
Figure 1.6	Surface air temperature (GMST): Hadley Centre/Climatic Research Unit Temperature (HadCRUT) 5.0	Input dataset	baseline 1961-1990.	Open Government License v3.		https://www.metoffice.gov.uk/hadobs/hadcrut5/data/current/download.html	Morice et al. (2021)	see Cross-Chapter Box 2.3 and section 2.3.1.1 for details
	CO2: Antarctic ice core	Input dataset	grl52461-sup-0003-supplementary.xls			https://agupubs.onlinelibrary.wiley.com/action/downloadSupplement?doi=10.1002%2F2014GL061957&file=grl52461-sup-0003-supplementary.xls		
	CO2: direct air measurements	Input dataset	co2_trend_gl.txt (??)			https://www.esrl.noaa.gov/gmd/ccgg/trends/gl_data.html	Tans and Keeling (2019)	
Figure 1.8, panel a	Annual mean surface temperatures, 60°N to 60°S, as calculated by G.S. Callendar.	Input dataset	https://rmets.onlinelibrary.wiley.com/action/downloadSupplement?doi=10.1002%2Fqj.2178&file=qj_2178_sm_s			https://rmets.onlinelibrary.wiley.com/action/downloadSupplement?doi=10.1002%2Fqj.2178&file=qj_2178_sm_suppinforS	Callendar (1938); Hawkins and Jones (2013)	

	Transcribed by Ed Hawkins		uppinforS1.dat			1.dat		
Figure 1.8, panel b	Surface temperature, Climatic Research Unit Temperature (CRUTEM) 5	Input dataset	Processed to produce 60S-60N average	Open Government License v3.		https://www.metoffice.gov.uk/hadobs/crutem5/	Osborn et al. (2021)	
Figure 1.9	Past model projections of global temperature change	Input dataset				https://github.com/hausfath/OldModels	Hausfather et al. (2020)	
	Hadley Centre/Climatic Research Unit Temperature (HadCRUT) 5.0	Input dataset		Open Government License v3.		https://www.metoffice.gov.uk/hadobs/hadcrut5/data/current/download.html	Morice et al. (2021)	
	Anthropogenic forcing	Input dataset				https://zenodo.org/record/1323162#.X2tTzNZ7mHo	Dessler and Forster (2018)	
Figure 1.10	Temperature projection 1990-2030	Input dataset					IPCC (1990)	
	Hadley Centre/Climatic Research Unit Temperature (HadCRUT) 5.0	Input dataset		Open Government License v3.		https://www.metoffice.gov.uk/hadobs/hadcrut5/data/current/download.html	Morice et al. (2021)	
	Cowtan and Way	Input dataset				https://www-users.york.ac.uk/~	Cowtan and Way (2014)	

						kdc3/papers/coverage2013/series.html		
	NASA GISTEMP	Input dataset				https://data.giss.nasa.gov/gistemp/	GISTEMP Team, 2020: GISS Surface Temperature Analysis (GISTEMP), version 4. NASA Goddard Institute for Space Studies. https://data.giss.nasa.gov/gistemp/.	
	Berkeley Earth	Input dataset				http://berkeleyearth.org/data-new/		
	NOAAGlobalTemp	Input dataset				https://www.ncdc.noaa.gov/data-access/marineocean-data/noaa-global-surface-temperature-noaaglobaltemp		
	Projected temperature change by 2030	Input dataset					Grose et al. (2017)	
Figure 1.11	GSAT ERA-5	Input dataset	1979-2020			https://www.ecmwf.int/en/forecasts/datasets/browse-reanalysis-datasets		
	GMST Berkeley Earth (1850-2020)	Input dataset				http://berkeleyearth.org/data/		
	GMST Jones (1961-1990)	Input dataset					Jones et al. (1999)	

	GSAT, CMIP6 historical simulation (1850-2014)	Input dataset				https://doi.org/10.5281/zenodo.3951890	Nicholls et al. (2021)	The data archive grows as new CMIP6 results are added. An up-to-date full collection can be found at https://cmip6.science.unimelb.edu.au
	GSAT, CMIP6 SSP1-2.6	Input dataset				https://doi.org/10.5281/zenodo.3951890	Nicholls et al. (2021)	
Figure 1.12	Hadley Centre/Climatic Research Unit Temperature (HadCRUT) 5.0	Input dataset			Data provided by Chapter 2		Morice et al. (2021); Data provided by Chapter 2	
	Berkeley Earth	Input dataset			Data provided by Chapter 2		Data provided by Chapter 2	
	NOAAGlobalTemp	Input dataset			Data provided by Chapter 2		Data provided by Chapter 2	
	Kadow et al (2020) (updated)	Input dataset			Data provided by Chapter 2		Kadow et al. (2020); Data provided by Chapter 2	
Cross-chapter Box 1.2 , Figure 1.	Radiative forcing estimates from	Input dataset			Data provided by Chapter 7		AR6 Chapter 7.	see Cross-Chapter Box 7.1 in

	AR6 emulator							Chapter 7
Figure 1.13	Ocean heat content; Surface air t°; Ice volume: **Historical and RCP4.5 experiments**	Input dataset	MPI Large Ensemble			https://esgf-data.dkrz.de/projects/mpi-ge/	Maher et al. (2019)	
Figure 1.14, top panel	Left. Total change in t° since 1850-1900	Input dataset					Hawkins et al. (2020)	
	Right. Year to year variability	Input dataset					Hawkins et al. (2020)	
Figure 1.14, middle panel	Left. Signal-to-noise ratio	Input dataset					Hawkins et al. (2020)	
	Right. Global warming level of emergence	Input datset					Hawkins et al. (2020)	
Figure 1.14, bottom panel	Annual mean surface air temperatures: N North America, Northern Europe, East Asia, N South America, Tropical Africa, Australasia	Input dataset	Berkeley Earth air temperature over land dataset	Creative Commons BY-4.0		https://doi.org/10.5281/zenodo.3634713	Rohde and Hausfather (2020).	
Figure 1.15, left	GSAT projections (CMIP6 Model	Input dataset				https://cmip6.science.unimelb.edu.au	Nicholls et al. (2021)	

	outputs)							
Figure 1.15, middle	Northern South America temperature change projections (CMIP6 Model outputs)	Input dataset				https://cmip6.science.unimelb.edu.au	Nicholls et al. (2021)	
Figure 1.15, right	East Asia JJA rainfall change projections (CMIP6 Model outputs)	Input dataset				https://cmip6.science.unimelb.edu.au	Nicholls et al. (2021)	
Figure 1.16	GSAT projections	Input dataset	Projected changes for 2020-2090 in Chapter 4				AR6 Chapter 4	
Figure 1.24	Historical GMST	Input dataset						
	GMST projections	Input dataset						
	Historical cumulative CO2	Input dataset						
	Cumulative CO2 projections	Input dataset						
Figure 1.25	Historical global-mean surface air temperatures	Input dataset	from 1750 to 1850				PAGES 2k Consortium (2017, 2019)	
	Historical global-mean surface air temperatures	Input dataset	from 1850 to 2018			Chapter 2		

	CMIP6 temperature projections under five SSPs	Input dataset	Projections from 2020			https://doi.org/10.22033/ESGF/input4MIPs.9864 https://doi.org/10.22033/ESGF/input4MIPs.9865 https://doi.org/10.22033/ESGF/input4MIPs.9866 https://doi.org/10.22033/ESGF/input4MIPs.9861 https://doi.org/10.22033/ESGF/input4MIPs.9868		
	CMIP6.ScenarioMIP.MIROC.MIROC6	Input dataset	CMIP6.ScenarioMIP.MIROC.MIROC6					
Figure 1.26	CO2, CH4, N2O historical concentration	Input dataset				greenhousegases.science.unimelb.edu.au	Meinshausen et al. (2017)	
	Temperature proxies (PAGES 2k consortium)	Input dataset					PAGES 2k Consortium (2017, 2019)	http://www.pastglobalchanges.org/science/wg/2k-network/data/phase-2-data
	GMST Hadley Centre/Climatic Research Unit Temperature (HadCRUT) 5.0	Input dataset					Chapter 2	
	Temperature	Input dataset				cmip6.science.uni		

	projections (CMIP6 ScenarioMIP experiment examined in Chapter 4)					melb.edu.au		
Cross-chapter box 1.4, Figure 1	(left panel) temperature evolution from ScenarioMIP	Input dataset				greenhousegases.science.unimelb.edu.au	Meinshausen et al. (2020)	
Cross-chapter box 1.4, Figure 2	International Institute for Applied Systems Analysis (IIASA) SSP database	Input dataset	annual			IIASA SSP database: https://secure.iiasa.ac.at/web-apps/ene/SspDb/dsd?Action=htmlpage&page=about	(Riahi et al., 2017; Gidden et al., 2019; Rogelj et al., 2019)	
	RCP database	Input dataset						
	panel (p) and (q) CMIP6-CMIP5	Input dataset					Hoesly et al. (2018)	Figure 7 in Hoesly et al. (2018)
	Cross-chapter box 1.4, Figure 2 code	Code				https://gitlab.com/magicc/ar6-wg1/-/blob/master/notebooks/SSPSCENDAT-rcp-ssp-comparisons/100-SSPSCENDAT-rcp-ssp-comparison-plot.ipynb	Figure code	
Figure 1.28	Range of CO2 emissions from IS92	Input dataset	since 1992			https://sedac.ciesin.columbia.edu/data/set/ipcc-is92-emissions-		

						scenarios-v1-1		
	Range of CO2 emissions from SRES	Input dataset	since 2000			https://sedac.ciesin.columbia.edu/ddc/sres/		
	Range of CO2 emissions from RCP	Input dataset	since 2010			http://www.iiasa.ac.at/web-apps/tnt/RcpDb		
	Range of CO2 emissions from SSP	Input dataset				https://doi.org/10.22033/ESGF/input4MIPs.9868 https://doi.org/10.22033/ESGF/input4MIPs.9824 https://doi.org/10.22033/ESGF/input4MIPs.9861 https://doi.org/10.22033/ESGF/input4MIPs.9863 https://doi.org/10.22033/ESGF/input4MIPs.9866 https://doi.org/10.22033/ESGF/input4MIPs.9865 https://doi.org/10.22033/ESGF/input4MIPs.9864 https://doi.org/10.22033/ESGF/input4MIPs.9862 https://doi.org/10.22033/ESGF/input4MIPs.9867		
	Scenarios IPCC	Input dataset				https://data.ene.iia	Huppmann et al.	

	SR1.5					sa.ac.at/iamc-1.5c-explorer/#/login?redirect=%2Fworkspaces	(2018)	
	CO2 historical emissions	Input dataset				https://www.pik-potsdam.de/paris-reality-check/primap-hist/	Gütschow et al. (2016)	
Figure 1.29	SR1.5 scenario database	Input dataset				https://data.ene.iiasa.ac.at/iamc-1.5c-explorer		
	SSP1-1.9	Input dataset				https://doi.org/10.22033/ESGF/input4MIPs.9864	Chapter 7	
	SSP1-2.6	Input dataset				https://doi.org/10.22033/ESGF/input4MIPs.9865	Chapter 7	
	SSP2-4.5	Input dataset				https://doi.org/10.22033/ESGF/input4MIPs.9866	Chapter 7	
	SSP3-7.0	Input dataset				https://doi.org/10.22033/ESGF/input4MIPs.9861	Chapter 7	
	SSP5-8.5	Input dataset				https://doi.org/10.22033/ESGF/input4MIPs.9868	Chapter 7	
	Figure 1.29 code	Code			Will be generated by TSU	https://gitlab.com/magicc/ar6-wg1/-/tree/master/notebooks/CO2DRIVER-ghg-erf-contributions		

[END TABLE 1.SM.1 HERE]

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