Comment ID	From Page	From Line	To Page	To Line	Comment	Response
					Table AIII.4 would be much easier to read in a gridded form of some kind. There	Taken into account. HighResMIP models are now
					are too many variables for each model and it is often difficult to associate which	documented in a specific table and the CMIP6 table has
99947	0				variable with the correct model. [Dan Helman, United States of America]	been reformatted to enhance readability. The address on
						github where the list of CMIP6 model can be found in a
						convenient table format has been added.
					Availability of data in ESGF could vary on time so the date to which the	Taken into account. The version of the CMIP6 control
71563	0				information reflected in the Tables should be included as reference [Sixto	vocabularies used in table AII.5 is now indicated in the
					Herrera, Spain]	legend.
					The description of CORDEX's simulations used around the different Chapters is	Taken into account. Details on the CORDEX dataset have
					more detailed in the Chapter Atlas than in this Annex, including, for example, the	been consolidated in the Technical Annex including cross-
71565	0				use of the CORDEX CORE simulations which is not referred here. In order to have	reference in the Atlas.
					a clear idea of which simulations have been used both documents should be	
					coherent. [Sixto Herrera, Spain]	
					Some chapters include figures from CMIP5 models (e.g. Chapter 12, Atlas,	Taken into account. A table listing the CMIP5 models used
					Interactive Atlas). It may be good to have information on these CMIP5 models as	to constrain CORDEX models has been added.
					a separate subsection here unless these are the same CMIP5 GCMs used in	
89573	0				downscaling by CORDEX (Table AIII.3). Furthermore, is the choice of models	
					(CMIP5, CMIP6, CORDEX) consistent across these chapters? Perhaps coordination	
					needed with the other chapters for consistency across the report. [Faye Abigail	
					Cruz, Philippines]	
					The text should note somewhere that the RCM configurations (such as	Taken into account. A table providing the characteristics of
106013	3	13	3	14	parameterizations used) likely vary from domain to domain, especially for any	CORDEX models has been added.
					community model. [William Gutowski, United States of America]	
					Table III.1:	Accepted
					For Region 12, the grid cell resolution(s) considered in MED-CORDEX should be	
					listed here. If they are in km, they could still be approximated in degrees as this is	
4259	3	23	3	27	for a region within a small latitude band. The letter (a) currently in the third	
					column can be moved to the first column right after "Mediterranean". That is,	
					"Mediterranean (a)" or "Mediterranean (a)". [Claude-Michel Nzotungicimpaye,	
					Canada]	
					Do the text about not considering interpolated domains mean that the table	Take into account. Regular interpolated grids are not used
					does not consider cases of output interpolated to non-native grids? This should	in cases where the original grid is available (to avoid
106015	2	24	2	24	be explained. [William Gutowski, United States of America]	duplication). However, there are cases where only the
100015	5	24	э	24		interpolated grid is available and those simulations are
						included. The table has been modified to include all the
						simulations, both regular and interpolated.
					Whatever the server, shouldn't the "Resolution" table cell for Med-CORDEX give	Accepted
106017	2	26	2	26	the resolution(s) used, and not refer to where the output is archived? The "(a)"	
100017	3	20	э	20	is inconsistent with the rest of Table AIII.1 [William Gutowski, United States of	
					America]	

Comment ID	From Page	From Line	To Page	To Line	Comment	Response
					It would be extremely useful to have a table that gives the forcings used in each	Taken into account. A table providing the characteristics of
					RCMs. Several recent studies have highlighted that most current RCMs do not	CORDEX models has been added. Note that comprehensive
					use time-varying anthropogenic aerosol forcing, land use, and do not simulate	documentation on the CORDEX RCMs is not always
					the physiological impact of CO2 for example. Some RCMs even do not take into	available, and only the main model characteristics have
32287	4	4	4	4	account time variations in CO2! It is crucial to have this information to	been included in order to keep the table within a
					understand inter-RCMs differences, some differences between RCMs and GCMs,	reasonable length.
					and to know whether the results of RCMs can be trusted for a particular	
					application, especially in the IPCC report, which extensively uses results from	
					RCMs. [Eric Brun, France]	
5751	4	4	4	10	Table III.2: If the table is meant to show models, then the first column should be	Accepted
			-		"models", not "institution". [Joachim Rock, Germany]	
					Giving sponsoring institutions will be a challenge, since the institutions running	Taken into account. Details on the institution running the
					the RCM listed could be many, and giving the "home" institution could be	simulations should be included in the metadata of the files,
					misleading. RegCM, for example, originates from ICTP, but it is run by many	but it is not always the case that the institution running the
106019	4	6	4	6	institutions around the world, with configurations established by the users for	simulation is properly acknowledged there.
					their purposes. I'm not sure how useful listing the sponsoring instution is, other	
					than crediting those institutions for original development of the model. [William	
					Gutowski, United States of America]	· · · · · · · · · · · · · · · · · · ·
71567	4		4		Table AllI.2 is incomplete. [Sixto Herrera, Spain]	Accepted. This has been updated considering the official
						CORDEX inventory available by 3 November 2020
100001	_				Table Alli.3 is a very nice list and the authors should be commended for the	Accepted. This table has been updated.
106021	5	1	6	1	errort in assembling it. It may need constant updating until the data deadline for	
					AR6 WG1. [William Gutowski, United States of America]	0
106022	7	10	7	11	Coupled Modeling (MGCA)" for the correct formal name. [Milliam Gutowski	Accepted
100025		10	,	11	United States of Americal	
	1				We have that this information will be available and easy to find and summarize	Taken into account. The table has been expanded to include
					in the "frozen" version of FS-DOC but to be "safe" it would be useful to have the	more specific information on the aerosols and the carbon
					information given in Table 12.1 of the AP5 report for CMIP5 models for CMIP6	
					models here is the forcing agents used in the different CMIP6 GCMs whether	cycle.
					they are calculated interactively or prescribed, whether the secondary effects of	
					are calculated interactively of prescribed, whether the secondary energy of aerosols or the physiological forcing of CO2 are taken into account or not etc.	
32289	7	28	7	28	Including new information would also be useful e.g. whether forest fires are	
					simulated or not, what kind of interactive vegetation is used etc.	
					It is increasingly clear that for some applications it is not possible to really	
					correctly interpret the results of GCMs without these information. [Fric Brun	
					Francel	
4261	7	20	7	20	By Table 8, do you mean Table III.4? [Claude-Michel Nzotungicimpaye, Canada]	Accepted. Yes, sorry for the wrong table reference.
4261	/	28	/	28		·
2953	8	1	8	2	Models countries, Taiwan is not a country. Please use "country or region". [Zong	Taken into account. The column title of this table has been
2333	0	1	Ů	4	Ci Zhao, China]	modified to say Country or Region.

Comment ID	From Page	From Line	To Page	To Line	Comment	Response
					Table III.4:	Noted. We recognized that the table was not easily
					As currently structured, the table is not easy to read for anyone interested in	readable. However, because GCMs and ESMs share many
					either GCMs or ESMs (not the two model types together). We suggest that the	characteristics, we have kept them in the same table, and
4263	8	1	19	1	table be divided into two (sub-)tables without creating a new table: first list	we have created a different table for HighResMIP high
					GCMs by alphabetical order with a clear header "GCMs"; then list ESMs by	resolution models.
					alphabetical order with a clear transition header "ESMs". [Claude-Michel	
					Nzotungicimpaye, Canada]	
					The layout of this table needs to be greatly improved. Some horizontal lines	Taken into account. The format of the table has been
09720	0	1	10	2	separating the information about different models would help, with vertical lines	improved.
96729	0	1	19	2	for the different columns. Alternating background color (white, light grey) would	
					help. [Sonya Legg, United States of America]	
14427	0	4	10	10	Table AIII.4. It is recommended check table format for facilitate reading. [Maria	Taken into account. The format of the table has been
14437	0	4	19	10	Amparo Martinez Arroyo, Mexico]	improved.
					Taiwan is a province of China, not an independent country. The current	Noted. The information in that table is consistent with the
38397	8	10	8	10	expression is seriously wrong. The term "Taiwan" in Table AIII.4 shall be changed	CMIP6 registration data.
					to "Taiwan, province of China". [Yaming LIU, China]	
54345	12		12		MPAS-Ocean uses a z* coordinate Table AIII.4 has z coordinate [Luke Van Roekel,	Accepted. Correction made.
54545	12		12		United States of America]	
					The top level for IPSL-CM6A-LR is 80,000 m rather than 40,000 m (the latter is an	Taken into account. References updated.
					error in the CMIP6 netcdf metadata). I am not sure what the N96 for LMDZ refers	
9579	14		14		to. NEMO has an enhanced resolution in the tropics. ORCHIDEE's presentation	
					paper is in preparation (Peylin et al., GMD, 2020). [Olivier Boucher, France]	
23729	14		14		ES2L: (Hajima et al., submitted) should be changed as: Hajima et al. 2020 (Accepted, reference updated.
					https://doi.org/10.5194/gmd-13-2197-2020) [Tomohiro Hajima, Japan]	
					Please clarify: ICON-ESM-LR is not an official model version. ICON-ESM in R2B4	Noted. ICON-ESM has not provided data for the CMIP6
					configuration is planed to be used for DECK experiments (pi-Ctrl, 1%CO2,4xCO2)	deck, historical simulation or ScenarioMIP before the cut-off
					with JSBACH4 as "Land surface" model (not JSBACH3.20 as indicated in the table	date, the line has be removed from the table.
		-			for "ICON-ESM-LR"). Reference should probably be: Giorgetta et al., 2018	
42049	15	0	15	0	(Giorgetta, M. A., et al., 2018: ICON-A, the atmosphere component of the ICON	
					Earth System Model. Part I: Model description, J. Adv. Model. Earth Sy., 10,	
					1613–1637,https://doi.org/10.1029/2017MS001242, 2018) [Julia Nabel,	
					Germany]	
					MDLESM, HAM door not belong to MDLM, remove it from the 'Medele' column	Accounted Correction made
					MPI-ESM_HAW does not belong to MPI-W, remove it from the Wodels column	Accepted. Correction made.
17375	15		15		2010: Togon at al. 2010) do not belong to MPI M and need to be removed here.	
					[David Noubauer, Switzerland]	
					Plesse add reference for CIESM model: Lin et al. Community Integrated Earth	Accepted reference to publiched paper added
2955	19	4	19	7	System Model (CIESM): description and evaluation Journal of Advances in	Accepted. Telefence to published paper added.
2955	15	4	15	,	Modeling Earth Systems, submitted [Zong Ci Zhao, China]	
					This reference has nublished: Hajima et al. (2020) https://doi.org/10.5194/gmd-	Accented Reference undated
23731	20	46	20	48	13-2197-2020 [Tomohiro Hajima Japan]	Accepted. Reference apuated.
	<u> </u>				2nd row, first collumn of the table in Page 14 - The name "National Institute for	Noted. The row in the table has been deleted because no
84089	191	2	14	2	Space Research" appears twice. Only one is necessaary. [Marco Tulio Cabra]	data has been provided on ESGE before the deadline to be
2.000		_		_	Brazili	used in this report.
16023	AIII-8	4	19		The references for CMIP6 models shoud be updated. [Lijuan Li. China]	Accepted. References updated.

Comment ID	From Page	From Line	To Page	To Line	Comment	Response
					Thanks for this well developed Annex III. Could it be possible to highlight novel	Thanks for these remarks which we have taken into
					datasets compared to AR5, or major changes to datasets compared to AR5, in the	account. The introduction has been expanded, and
116801					Introduction? Please also make sure that the Annex is cited in relevant chapters	references to the chapter have been added. A new section,
					(provide guidance). It would also be good if there would be links to specific	including 3 tables, has been added to document ice sheet
					chapters or elements of chapters using model results (in the introduction).	models. Regarding emulators, we feel that the information
					Finally, could all types of models be included? I have in particular in mind the ice	provided in chapter 1 is sufficient.
					sheet modelling framework (see chapter 9) (which can combine global, regional,	
					and ice sheet models) but there could also be relevance on the carbon cycle side	
					(land models). Emulators also need to be included (see chapters 4, 7, in	
					particular). [Valerie Masson-Delmotte, France]	
					Apart from a table with model documentation information, tables for model data	Noted. This information is found in another annex (Annex I
					should be added similar to Annex I for observations including data papers and	for observations and reanalyses)
5099					data citations and all additional specifications on possible subsets of cited data	
					used like specific ensemble members. [Martina Stockhause, Germany]	
					For the tables on model data used in AR6 Part 1, information from ch 1, 4 and 10	Taken into account. References to this table have been
5101	Infinitent ID From Page 116801				should be collected. Those chapter should reference the table in Annex III.	added in the corresponding chapters.
					[Martina Stockhause, Germany]	
					Adding not only a data reference table for CMIP6 but also for CMIP5 and CORDEX	Taken into account. A table listing the CMIP5 models used
5103					model data would make Annex III more complete in terms of used model data.	to constrain CORDEX models has been added, as well as a
5105					[Martina Stockhause, Germany]	table providing the characteristics of CORDEX models.
	1					