

Comment ID	From Page	From Line	To Page	To Line	Comment	Response
28856	0	0	0	0	Very useful but can it also point to how different chapters use the model data - if known! [Piers Piers Forster, United Kingdom (of Great Britain and Northern Ireland)]	Accepted (see comment 48906)
9258	0				This Annex unlikely the other annexes is currently missing the data references to the data used within the chapters of the report. Data references are often part of the terms of use of data like for CMIP5 and CMIP6 data (see CMIP6 Guide for Data Users for more information: https://pcmdi.llnl.gov/CMIP6/Guide/dataUsers.html). Therefore data references should be added to this Annex together with an information on the chapter/figure, in/for which the data was used. The analyzed data underlying key products of the report is the connection to research projects like CMIP6. Thus the focus in table AIII.4 should be on the CMIP6 data together with the valuable existing information on ES-DOC. It is not important, which models registered for CMIP6 but which models created data timely to be included in the report. Descriptions of models not contributing data to AR6 results should not be included here. Annexes I and II are also only including resources used within the report. The data sources should be extended by other model data like CMIP5, HAPPI or CORDEX. [Martina Stockhause, Germany]	Accepted. Thanks for these useful suggestions. For he FGD, we will work with the CMIP6 data curation team to ensure that the correct data references are added to the tables. The tables will be updated to include only the models actually used in the report.
6253	1	1	15	20	I presented this at a Climate Change Conference and it was well received. 16 more conferences have invited me to present this. [Dave White, United States of America]	It is unclear what text this comment applies to. No modification of the text is demanded by the reviewer.
48910	1	5	1	8	Referencing Chapter 10, section 10.3.1.2 for a description of CORDEX would be helpful to the reader. [Chaincy Kuo, United States of America]	Accepted, text revised.
48908	1		1		As an introductory section, could the chapters and sections of chapters where models are discussed be tabulated or referenced? A reader may reference the Models Annex to understand the various models used. For example, reference 1.4.3, 4.2, or merely Chapters 1,3,4,10 for detailed information on models, how and why they are developed. [Chaincy Kuo, United States of America]	Accepted. Introductory section added.
15714	4	11	4	11	It is better that there could be more columns in the table to describe RCMs. CORDEX has encouraged flagship pioneer project to develop RCM towards Regional Earth System Model as it is already known. If some RCM has earth system components or has coupled RCM with regional ocean unlike conventional atmospheric model, this should be described in the table. [YOUNG HWA BYUN, Republic of Korea]	Taken into account. Some details are added in the table.
15716	8	3	8	3	I would like to suggest to change a title into "Models participating in CMIP6 Deck, Historical run and ScenarioMIP" in order to explicitly express "Historical run", because DECK is generally referred to represent only 4 sensitivity runs, not including historical run. [YOUNG HWA BYUN, Republic of Korea]	Accepted

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35286	8	11	8	11	What does the column "Land interactive vegetation" in table AIII.4 mean? Only one model has included this. Is it meant to indicate whether land biogeography is prognostic via a dynamic vegetation model versus biogeography that is static and specified? If so, maybe reword to "dynamic vegetation model" and include a "None" or similar option for models that use specified biogeography. [Charles Koven, United States of America]	Accepted
39148	8		14		The country of TaiESM1.0 model should be China, but not Taiwan. The version number of NCC ice and land component model should be provided. The grid of FGOALS ocean model should be triangle grid, not latitude/longitude grid. [Lijuan Li, China]	Noted. 1) The address (including country) of the centers is provided directly by the teams in their registration to CMIP6. The whole table is based on this information. We have verified that the line for TaiESM1.0 is consistent with the information provided. 2) taken into account. 3) The FGOALS information has been corrected by the CAS CMIP6 scientists.
6457	12		12		References for MACv2-SP: Stevens, B., Fiedler, S., Kinne, S., Peters, K., Rast, S., Müsse, J., Smith, S. J., and Mauritsen, T.: MACv2-SP: a parameterization of anthropogenic aerosol optical properties and an associated Twomey effect for use in CMIP6, <i>Geosci. Model Dev.</i> , 10, 433-452, https://doi.org/10.5194/gmd-10-433-2017 , 2017. Fiedler, S., Stevens, B., and Mauritsen, T. (2017), On the sensitivity of anthropogenic aerosol forcing to model-internal variability and parameterizing a Twomey effect, <i>J. Adv. Model. Earth Syst.</i> , 9, 1325– 1341, doi:10.1002/2017MS000932 . [Stephanie Fiedler, Germany]	Taken into account. We have added the first reference, presenting the code to be used in CMIP6.