

Comment ID	From Page	From Line	To Page	To Line	Comment	Response
46124	0	0	0	0	Please write acronyms out in full for the first time in the FAQs, just in case people are skipping straight to them. It just helps understanding. [Amy Featherstone, United Kingdom (of Great Britain and Northern Ireland)]	Taken into account. Acronyms are avoided in FAQs.
29566	75	7	75	7	solar brightness should be changed to "solar irradiance" [Katja Matthes, Germany]	Rejected. 'solar irradiance' is too jargony for the target audience of the FAQs (lay readers).
29568	75	10	75	11	particularly in other variables such as precipitation and winds. I don't understand why natural variability particularly influences precipitation and winds. [Katja Matthes, Germany]	Taken into account. Precipitation and wind no longer mentioned in the revised FAQ.
29570	75	11	75	14	It is of course true that solar irradiance variations only have little impact on global mean temperatures, however the effect on regional pattern can be significant and the solar forcing can even modulate internal variability modes such as the NAO (Thieblemont et al., 2015), Thiéblemont, R., K. Matthes, N. Omrani, K. Kodera, and F. Hansen (2015), Solar forcing synchronizes decadal North Atlantic climate variability, Nat. Comm., 6, doi: 10.1038/ncomms9268. [Katja Matthes, Germany]	Noted. This would be to detailed to be discussed in the FAQ.
49534	79	15	79	15	FAQ. 4.1 - "another slowdown" is actually not mentioned anywhere in the text of the FAQ and wonder if the read will know what does it refer to. [Zbigniew Klimont, Austria]	editorial - yes the word 'year' was missing.
49536	79	19	79	19	FAQ. 4.1 - The statement "difficu;lt to prvide robustly" - I am not sure what is meant by robust here; is it referring to trends or quantification of these trends - I'd agree with the latter but for trends alone most of the folow-up text shows that there is high confidence in severl key indicators. FOR example: high confidence is associated with temperature trends (line 40-46), Arctic Sea-ice (line 48), and Sea level (line 49)...would not this be enough to say the trends are robust? [Zbigniew Klimont, Austria]	Taken into account - robustly removed from FAQ4.1
29572	79	19	79	19	please change "solar brightness" to "solar irradiance", here and elsewhere in the FAQs! [Katja Matthes, Germany]	Rejected. 'solar irradiance' is too jargony for the target audience of the FAQs (lay readers).
29574	79	21	79	23	It has been shown that natural internal variability can be modulated by natural external variability (e.g., Thieblemont et al., 2015). This might be important in particular for the solar cycle on decadal timescales. I would like to see cross chapter checks on this (link to chapter 10 (section 10.1.4.1.2 at least). Thiéblemont, R., K. Matthes, N. Omrani, K. Kodera, and F. Hansen (2015), Solar forcing synchronizes decadal North Atlantic climate variability, Nat. Comm., 6, doi: 10.1038/ncomms9268. [Katja Matthes, Germany]	Noted. However, FAQs must not contain any reference except callouts to other FAQs.
49538	79	44	79	44	FAQ: 4.1 I think word " years" is missing before " (high confidence)" [Zbigniew Klimont, Austria]	Editorial - yes the word 'year' was missing.
49540	81	1	81	9	FAQ:4.2 - The title says GHG but the text implications given in line 3-9 seemm to be ferrigg to CO2 only, maybe also N2O. If non-CO2 GHG, like CH4, HFCs, reductions would be included the implications might be seen earlier. Maybe the title should be referring to CO2 or long-lived GHG only? I also think that the graphical illustration and the explanation in the caption might need some more work to make it more digestible for anyone. [Zbigniew Klimont, Austria]	Taken into account in the FGD. GHG in the title was rephrased to CO2. The figure has been revised for the SOD and is, hopefully, now more digestible with it's 1-line summary.

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29564	97	7	97	8	The upper atmosphere is mentioned here, so I would highly suggest to include the stratospheric cooling trend in Fig. 1 of FAQ 2.2! [Katja Matthes, Germany]	Rejected. The upper atmosphere is only briefly mentioned but the stratosphere is not explicitly mentioned in the text. Therefore we do not see the need to include it in the figure, as we fear it would confuse the reader. (note however that FAQ1.1 is mentioning the stratosphere cooling).
29558	101	27	101	27	I recommend changing "sun's heat" into "solar variability" since it is not only the heat that is changing (solar irradiance) but also solar particles which would be included in the term "solar variability". [Katja Matthes, Germany]	Taken into account - sun's heat rephrased in the SOD.
26870	102	1			A common concern I hear about the forecasts on climate change is that since the 1980 "we have been told that oil will last only until a specific date ... and that this date has always been postponed". I would like to see a FAQ which compares the quality of previous projections relating to the availability of oil to today's quality of projections on climate change. With the oil availability forecasts in mind especially the older generation may feel that the urgency to act may not be so imminent. [Thomas Ackermann, Germany]	Rejected. Assess oil availability is beyond the mandate of WGI, which is meant to assess the physical science basis of climate change.
29560	104	30	104	30	I recommend to change "solar irradiance" here to "solar variability" as this term is much more inclusive (solar irradiance and particles), see as a reference e.g. Matthes et al. (2017), Matthes, K., Funke, B., Andersson, M. E., Barnard, L., Beer, J., Charbonneau, P., Clilverd, M. A., Dudok de Wit, T., Haberleiter, M., Hendry, A., Jackman, C. H., Kretzschmar, M., Kruschke, T., Kunze, M., Langematz, U., Marsh, D. R., Maycock, A. C., Misios, S., Rodger, C. J., Scaife, A. A., Seppälä, A., Shangguan, M., Sinnhuber, M., Tourpali, K., Usoskin, I., van de Kamp, M., Verronen, P. T., and Versick, S., 2017: Solar forcing for CMIP6 (v3.2), Geosci. Model Dev., 10, 2247-2302, https://doi.org/10.5194/gmd-10-2247-2017 . [Katja Matthes, Germany]	Noted. This comment was missed for the SOD but taken into account in the FGD, where the term 'solar irradiance' no longer features.
56152	120	48	120	49	See for instance Rhines, A., Huybers, P. (2013) Frequent summer temperature extremes reflect changes in the mean, not the variance. Proceedings of the National Academy of Sciences [Belen Martrat, Spain]	Noted. However, FAQs must not contain any reference.
57850	133	3			It is recommended to follow an order in the information useful in each region starting with the climatic structure, gather a volume of information of its historical behavior in its macro, meso and micro dimensions, locate the factors that determine the climate of the region and its geographic position in the continent where it is located to classify the type of climate system. It is necessary to have or integrate a network of meteorological and satellite stations. [Gladys Linares-Fleites, Mexico]	Noted. Unfortunately, we do not fully understand what the reviewer is suggesting and fear that this suggestion would not be compatible with a concise FAQ. Furthermore, the FAQs have to be grounded in the content of the chapters.

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57852	135	1			In the study of this urban phenomenon of the heat island, it is necessary to analyze the possibilities of the contributions of the sustainable architecture and its mitigating influence in this phenomenon. Take advantage of the experiences of specialists and organizations that, generating new currents of study and research, is moving towards the mitigation or solution of the problem. It requires the creation and application of new public policies of central and municipal governments that force us to observe new solutions in this problem. [Gladys Linares-Fleites, Mexico]	We must however remain within the mandate of working group I, which is meant to assess the physical science basis of climate change.
21360	135	3	135	5	"Tall buildings in close proximity to each other 3 'trap' heat, creating a so-called 'urban heat island'... it is not only "tall buildings" that cause UHI; written like this it is highly simplified and bi inappropriate for the level of the document and target audience [Gwenaelle GREMION, Canada]	Taken into account. Sentence rephrased to avoid implying that that buildings are the only cause for the urban heat island. Note however that the FAQs of the report are not targeting the same audience as the rest of the chapters. The FAQs are meant for a lay audience.
21362	135	14	135	16	I suggest adding sentence on the reason of high mortality during the heat wave in Paris 2003. It was floors of blocks of flats with the traditional French un-insulated metal roofs, which affected elderly people (mostly inhabiting such buildings), died of dehydration and hyperthermia... Also, please consider adding the total number of casualties of HW 2003 in EU (around 30 000) of almost half was in France (according to the French National Institute of Health 14 802 heat related death) and more than 3000 in Paris. [Gwenaelle GREMION, Canada]	Rejected- beyond the scope of WGI/the FAQ. (part 2 - accepted, casualties added in the SOD version of the FAQ).
29562	189	4	189	4	I am wondering why the stratospheric cooling trend is not indicated in this figure, it is consistent with increasing GHGs. [Katja Matthes, Germany]	Not applicable. Unfortunately, we cannot identify what this comment refers to, as there is no p189 in the FAQ compilation. If this is about FAQ2.2, note that the stratosphere is not explicitly mentioned in the text. Therefore we do not see the need to include it in the figure, as we fear it would confuse the reader. (note however that FAQ1.1 is mentioning the stratosphere cooling).
32296	1-101	1		55	In general, these FAQ's are worded very well for a non-expert. I think it'd be helpful to include hyperlinks to other sections if they want to find out more information on that topic. [Catherine Linsky, United States of America]	Taken into account. In the FGD, the FAQs are referring to the relevant FAQs in other chapters.
32298	1-101	1			Keep in mind that the average person (non-expert) will look at The Executive Summary, FAQ's and Atlas more than anything. Having links in between these different documents would help. I wanted to review the executive summary for science communication effectiveness as well, but I did not see it in the Table of Contents. Having links to both the FAQs and Atlas on the Executive Summary will help. [Catherine Linsky, United States of America]	Noted. However, both the FAQs and executive summaries are supposed to be grounded in the chapters content and target slightly different people. As a result it would be weird to refer to the FAQs in the executive summaries. Note however that our goal is to feature those element very prominently on the IPCC website, once the report is online.

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32292	1-101	3		55	I see that you have the FAQ's listed by chapter. For the highest impact, I think these FAQ's need to be listed in order of importance. The average reader will read the first few carefully and skim the rest. Why make the reader hunt for the most important info? That being said, why not list this question first: "Is climate change real?" And talk about the thousands of studies and reearchers that went into making this. I'm not sure if "Do we understand climate change better now" is the MOST important FAQ. I suggest that you re-order. At the very least, include hyperlinks to the different chapter's FAQ's. Another option would be to have the first few FAQ's be all-encompassing, most important ones followed by the chapter-specific FAQ's. [Catherine Linsky, United States of America]	Rejected. FAQs are primarily hosted by the chapter they belong to and are subsequently extracted to form a compilation of FAQs. As a result, the order has to follow the order of the chapters. In the FGD, the FAQs are referring to the relevant FAQs in other chapters.
32294	1-103	1		34	"At what point do we know it's climate change?" I suggest that you reword this question. I'm not sure that question captures what you're trying to communicate in that section. Perhaps "Can I see the climate changing where I live?" OR "How do we know these changes are occurring because of human influence and not natural cycles?" I think you're trying to answer both, and I see them as two separate quesitons. Although, the first does lead into the second. I think this mentality is what you're trying to address: "It's so cold outside today. I guess all those climate scientits must be wrong." Local weather is not global climate. [Catherine Linsky, United States of America]	Accepted. FAQ1.2 is now renamed to 'where has climate change become most apparent'