Expert Reviewer: GRAY

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#	Chapter	Page	Line	Page	Line	CLICK in the appropriate spreadsheet comment cell before pasting your comment.
						Only ONE comment per row, please.
	0	0		0		There needs to be part of the "Introduction", or even a separate section, discussing the problems and
						ambiguities that have been caused by the definition of "Climate Change" in the Framework Convention on
						Climate Change 1992. The definition is "a change of climate which is attributed directly or indirectly to human
						activity that alters the composition of the global atmosphere and which is in addition to natural climate
1						variability observed over a comparable time period"
	0	0		0		.This definition has the following unfortunate consequences. 1. It gives the impression that ALL "Changes of
						Climate" are caused by human emitted greenhouse gases, and encourages the use of climate models that
						are based on that assumption. In reality there are several other causes of changes of climate, some by
						humans, such as urban development, energy emissions, and land use change, and some natural, such as
2						the sun, volcanoes, El Niño ocean changes and cosmic rays, not present in the models, which means that
2	0	0		0		they are all of very limited use.
3	l ol	U		U		2. The FCCC definition suggests that "natural" changes in the climate are "variable". Natural climate "change" is not mentioned, and therefore not properly investigated in this report
	0	0		0		3. The FCCC definition ignores changes in the climate due to human activity which are not "attributed" to
	l ol	U		U		greenhouse gases, such as changes in land and water use, urban development, energy production, again
4						leading to their relabie neglect by this Report.
	0	0		0		The IPCC has tried to rectify this situation by redefining "Climate Change" as follows: "Climate Change in
		ŭ				IPCC usage refers to any change in climate over time, whether due to natural vcariability or as the result of
5						human activity"
	0	0		0		This definition at least includes "natural variability and "human activity" in "Climate Change", but it still does
						not accept the existence of "natural climate change" as opposed to mere "variabity. It also includes ALL
						forms of human activity which influence the climate instead of just those related to greenhouse gases, but in
						practice this point tends to be forgotten. For example the statement "a discernible human influence oin the
						climate" does not necessarily mean that such an influence derives from greenhouse gases, but it is
6						frequently interpreted as if it does.
	0	0		0		The I.PCC definition causes confusion as we now have two different definitions of "climate change" and the
						public cannot tell which is meant. Surely the only thing to do is to abandon the phrase altogether. This
_						means changing your Title. I suggest "Climate Science" .You should avoid the use of the term throughout
7						the report, and I have suggested changing it wherever it occurs
	0	0				It is about time you had an INDEX. It is at present extremely difficult to find discussions of any topic, which
8						are sometimes dispersed. The current length makes it worse.

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be deleted. It is, in any case, a "Summary BY Policymakers", not
eed line-by-line by Government represntastives It serves no useful
at the scientists are under the control of politicianslt puts the
s it is finally agreed AFTER agreement of a Final Draft of the rest of
use confuaion, or have to invoilve alteration of a "finally" agreed
nally embarrassing for scientists to have to be subjected to a line-by-
tatives. Scientists are grown-up enough to prepare their own
done at present with the "Technical Summary". The same people
nents, so there is considerable duplication; eliminating one of them
e that the "Global Surface Temperature Record" which is so
ed, and is, therefore, not a reliable record of global tempeture
limate Research" Vol 20 pages 159-173 showed from a statistical
ignificantly by a large number of socio-economic factors resulting
y. They found the adjusted temperature trend 1979-to 2000 as
to this paper in the previous draft, but you have ignored it. It surely
s placed on the biased Global Surface Temperature Record in this
this record is comprehensively coirrected by the "homogeneity
er the 20th century all but disappears. So far, this procedure has
d for China, but many other places do not have sufficient numbers
ou have ignored the US and Chinese corrected records throughout
e US record from 1930 in Figure 3, 2,3
which are completely incredible. A2 expects world coal production
nissions 4.4 times as high from 2000 to 2`100, and A1F1 is six
times for emissions Methane always increases despite the fact that
forgotten
ious definitions of "Climate" (which can be almost anything),
tion in the mean state of the climate or in irs variability. You have an
a variability!.
atistical policy. It should include an obligation, throughout the
a measure of uncertainty. This means using TWO standard
be scrutinised to make sure this is done. It is often inclear. One
viation is used to give a spurious impression of accuracy
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14	0	0				The "Summary for Policymakers" is a better guide to a general reader than the "Technical Report" which is long-winded and endlessly repetitive. I therefore prefer that the "Summary for Policymakers" should be retained, but freed from the burden of having to be agreed line-by-line by Government representatives. You can then delete the "Technical Report and save a lot of space.
15	0	0				It is a disgrace that Chapter 2 has been allowed to get away with quoting its figures with only one standard deviation in contrast to some other chapters which quote the generally accepted two standard devbiations representing 95% conficence limits. The figures in Chapter 2 give a dishonest impression that they possess a greater accuracy than they actually do.