

Download File PDF Review Of The U S Climate Change Science Programs Synthesis And Assessment Product On Temperature Trends In The Lower Atmosphere

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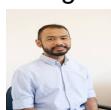
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REVIEW OF CHAPTER 3

33

In general, regional changes on a scale smaller than the Rossby radius tend to be confined to the boundary layer. Also, Table 1 of Chapter 1 says land-use change effects are small.

10. Another reference relevant to lines 241-282 is Jones (1994).

11. Are the very small estimates of error reported in footnote 18 still believed?

12. Line 330-331 state, "volcanic effects probably contribute to slow changes in lapse rate variability". Do the authors mean changes in lapse rate variability, or changes in lapse rate here?

13. In footnote 21, can the HCRU surface data be referred to as HadCRUT2v and have the Jones et al. (2001) reference? This should be done elsewhere in the other chapters and can be in one of the footnotes.

14. Section 4.3 would benefit from more synthesis and assessment, rather than just reporting of results.

15. Which climate forcings does line 357 refer to?

16. In line 397, "various datasets" should be "various models".

17. The DSM reference in line 411 is missing.

18. In lines 424-425, are there also different variables than temperature? Are there some more recent references regarding pressure detection? There could be a better link to the preceding paragraph.

19. In lines 424-432, positive detection results obtained in the absence of some forcing should not be taken as evidence of absence of that forcing. The same argument could be made about volcanic forcing, solar forcing, or even sulfate forcing, yet we know they have had an effect on the climate. This sentence should certainly be deleted. In fact four pages later, the authors themselves argue that our inability to detect sulfate in some studies should not be taken as evidence of absence of a sulfate signal. This also reflects the potential non-orthogonality of the various forcings.

20. "This apparent contradiction" in line 433 is not really a contradiction, for the reasons given above.

21. What is the relevance of the final sentence in lines 496-500?

22. In lines 502-509, the difficulty of detecting the sulfate response could also be explained by degeneracy between the sulfate and greenhouse gas response patterns. The inability of some studies to detect the sulfate response should not be taken as evidence of absence of a sulfate signal, but at the same time, by itself it does not show that "it is important for detection work to account for large temporal changes in the fingerprint pattern".

23. None of the model runs for IPCC AR4 mentioned in lines 541-542 have been written up yet. As long as the references detailing the new integrations are submitted this is not a problem.

24. HadCM3 has also run all the experiments discussed in lines 550-551. Is it possible to include it, or are you hoping to use HadGEM?

25. In lines 553-554, the use of different forcings in the different IPCC models is sometimes presented as an advantage, since it folds in some approximation of forcing uncertainty into the analysis.

26. In lines 591-592, insert "partly" before "due". As far as we are aware, no one has shown that water vapor changes can explain the full difference between simulated and observed trends.

27. Insert "Body" before "temperature" at the start of line 782.

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