

SAP 5.1 RESPONSE TO PUBLIC REVIEW

COMMENTS FROM PUBLIC REVIEWERS						AUTHOR'S RESPONSE						
Comment Number	Reviewer ID	Chapter	Page	Line	Comment Text	Acknowledged, but no further response or revisions	Revisions have been incorporated as suggested in the comment	Agree, but see "Notes on Response"	Agree, but elaboration is precluded by length	Disagree; see "Notes on Response"	Beyond scope of report/chapter	Notes on Response
G-21 Ref ES-10	Trenberth	General Ex Sum			Given the title of this SAP it was very surprising to me to see what the content was. There are many huge assumptions. The tools being used require input from somewhere. To use for future planning in climate change this has to come from climate forecasts or projections. The old saying GIGO: garbage in garbage out applies, and does not seem to be addressed.	X						The chapters provide detail about these assumptions and issues.
G-22	Trenberth	General			Figure 1 is a major part of the problem. It has no arrows flowing from decision makers to the observing system as to requirements. It includes huge leaps of faith. The whole business of going from observations that are always incomplete (because they are not continuous even if they are global) to analyses, assimilation and global products that can be used to input into the various tools is not adequately addressed.						X	Figure 1 is directly from the SAP 5.1 Prospectus.
G-23	Trenberth	General			Moreover, how climate predictions are made and the requirements for initialization of all the climate fields in a model framework seems not to be addressed.						X	The SAP does not address this issue.
G-24	Trenberth	General			The model validation and errors and how to cope with those is another major subject.						X	The SAP does not address this issue.
G-25 Ref ES-11	Trenberth	General			I would argue that climate projections are not useful for any of these tools and that climate forecasts do not exist.					X		The authors point out in their chapters the problems and challenges associated with this concern.
G-26 Ref ES - 12	Trenberth	General			In short I do not see the connection between the title of the SAP and the content that focuses on case studies with particular tools.					X		The Introduction provides the rationale for the case studies; the authors have followed the guidelines in the SAP prospectus.
G-27	Trenberth	General			I do not see a comprehensive assessment of what the needs are, versus what the capabilities are						X	The SAP directs us to "illustrate" uses and limitations among different sectors and regions, not

