CCSP 5.2 April 16, 2008

Preface

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50	This report is one of 21 Synthesis and Assessment Products (SAPs) commissioned by the
51	U.S. Climate Change Science Program (CCSP) as part of an interagency effort to integrate
52	federal research on climate change and to facilitate a national understanding of the critical
53	elements of climate change. Most of these reports are focused on specific substantive issues in
54	climate science, impacts and related topics. In contrast, the focus of this report is methodological
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56	Uncertainty is ubiquitous. Of course, the presence of uncertainty does not mean that people can
57	not act. As this report notes, in our private lives, we decide where to go to college, what job to
58	take, whom to marry, what home to buy, when and whether to have children, and countless other
59	important choices, all in the face of large, and often, irreducible uncertainty. The same is true of
60	decisions made by companies and by governments.
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62	Recent years have seen considerable progress in the development of improved methods to
63	describe and deal with uncertainty. Progress in applying these methods has been uneven,
64	although the field of climate science and impact assessment has done somewhat better than many
65	others.
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67	The primary objective of this report is to provide a tutorial to the climate analysis and decision-
68	making communities on current best practice in describing and analyzing uncertainty in climate-
69	related problems. While the language is largely semi-technical, much of it should also be
70	accessible to non-expert readers who are comfortable with treatment of technical topics at the
71	level of journals such as Scientific American. We have also prepared a "Non-Technical

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72 Summary." Readers who lack the time or background to read the detailed report, may prefer to

- start there, and then sample from the main report as they find topics they would like to learn
- about in greater depth.

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