

must be sufficient both to produce quality products operationally and to sustain a vigorous research program. The ECMWF has at least 10 times the computing power and 100 times the available memory compared to machines at NASA, NCEP, or NRL. Main-frame computational resources available to the weather services of Canada, Australia, France, and Poland also exceed those available to the U.S. National Weather Service. If better machines do become available in the United States but remain difficult to program optimally, trained programming staff will be required so that scientists themselves are not totally occupied by such tasks.

The organization of a facility for testing data within a state-of-the-art assimilation system should be considered. The quality of the assimilation system is critical; otherwise the tests may be easily misinterpreted. It is difficult to envision how this can be done except at an operational center with an already existing infrastructure and well-monitored system. At resource-starved centers, such a facility would also naturally augment operations. It is also important that the test center be conducive to visitors.

There is much work to be done. The efforts of many different researchers are required. Conversations are now under way to determine what specific future workshops may be most useful to facilitate those efforts.

Acknowledgments. I thank all the workshop speakers and participants whose presentations and discussion are compiled in this report. Almost all the material from which this report has been drawn was therefore actually the knowledgeable and carefully prepared comments of others. Compilation was greatly facilitated by the generally high quality of their presentations. Very many participants provided thoughtful criticism of earlier manuscript drafts. Both before and after the workshop, there were also many discussions between myself and other members of the organizing committee regarding the issues to be addressed, the program, and this report. Financial support for the workshop was obtained through the auspices of Ken Bergman. Travel arrangements for most of the international participants were made by Barbara Ballard at NCAR. Several staff members at NASA volunteered to serve refreshments so that an additional participant could be supported. I particularly thank John Derber for many pieces of this report. I also especially thank George Ohring, Joanna Joiner, and Nancy Baker for their frequent assistance and recommendations as well as encouragement for me to follow through after the inception of this workshop in 1994.

corrigendum

Due to a press error, Figures 3 and 4a were inadvertently swapped in the article “Shipborne Dual-Doppler Operations during TOGA COARE: Integrated Observations of Storm Kinematics and Electrification” by W. A. Petersen et al. (*Bull. Amer. Meteor. Soc.*, **80**, 81–98). The caption for Fig. 3 corresponds to the figure published as Fig. 4a, and the caption for Fig. 4a corresponds with the figure published as Fig. 3. The *Bulletin* apologizes for any confusion this error may have caused.