SUMMARY OF ACTIVITIES

The four Annual Reports submitted previously describe in some detail work carried out under this grant. In summary, we:

1. Prepared the University of Washington (UW) Convair-580 research aircraft for participation in SAFARI-2000 field study in southern Africa.

2. Participated in the 6-week field study in southern Africa. During the field study we flew 119.02 research hours (31 research flights). In these flights we obtained many unique data sets for evaluating the effects of biomass burning and other sources of particles and gases on the climate of southern Africa, and we obtained simultaneous measurements with NASA ER-2 and Terra overflights.

3. Quality checked the data obtained in SAFARI-2000, and archived it in the Oak Ridge National Laboratory DAAC.


5. Attended several SAFARI-2000 workshops.

6. Attended national and international conferences to present SAFARI-2000 results.

7. Prepared thirty-four papers for publication and presentation at conferences.

8. Interacted with non-UW scientists in SAFARI-2000 studies, leading to many joint publications (25 out of 34 papers).

9. Supervised graduate students: Parikhit (Ricky) Sinha received his Ph.D. in 2004 for SAFARI research. His dissertation was entitled Emissions from Savanna Fires in Southern Africa. Louise Leahy is in her third year as a graduate student; her M.S. research is concerned with a comparison of in situ and remote sensing measurements of aerosol single-scattering albedo over southern Africa during the SAFARI field study. Brian Magi is basing his Ph.D. dissertation (Estimating the Radiative Effects of Southern African Biomass Burning Aerosols) on SAFARI-2000 data. This dissertation should be completed in the summer of 2005.
PUBLICATIONS

To complete this summary for NASA on the work carried out under this grant, it remains only to list the published papers. This is done below.

Publications and Conference Papers Since Last Report


Publications Noted in Previous Reports (Copies of abstracts are enclosed.)


Conference Papers Noted in Previous Reports


Peter V. Hobbs
May 6, 2005