

PART 4. SCIENCE VALIDATION

4. PRINCIPAL INVESTIGATORS MISCELLANEOUS REPORTS

Contained in the listing below is a collection of Principal Investigators miscellaneous reports.

1. **Abrams, M.**, S. Pignatti, R. Cavalli, and L. Alberotanza, “[Satellite and Remote Sensing Investigations in Venice, Italy: “Validation of EO-1 for Urban Mapping, Lagoonal Studies, and Bathymetry.” EO-1 Science Validation Team Final Report](#)”.
2. **Asner, G.P.**, D. Nepstad, et al., “[Drought stress and carbon uptake in an Amazon forest measured with spaceborne imaging spectroscopy.](#)” Proceedings of the National Academy of Sciences of the USA, April 20, 2004.
3. **Biggar, S.**, “[Radiometric Calibration and Spatial Characterization of the Advanced Land Imager and Hyperion Sensors.](#)” NASA Grant NCC5-460, Final Report.
4. **Bindschadler, R.** and H. Choi, “[Characterizing and Correcting Hyperion Detectors Using Ice-Sheet Images](#)”.
5. **Bindschadler, R.** and D. Hall, “[Glaciological Applications of EO-1.](#)” Report to the EO-1 Science Validation Team”.
6. **Bindschadler, R.**, “[Feature Identification](#)”.
7. **Carlson, B. E.**, “[Correlative Analysis of EO-1, Landsat 7, and Terra Data of the DOE ARM CART Sites: An Investigation of Instrument Performance and Atmospheric Correction](#)”.
8. **Crowley, J.**, “[Global Assessment of Volcanic Debris flow Hazards from Space: Evaluation of New Multispectral and Hyperspectral Satellite Systems.](#)” Contract No. S-10224-X.
9. **Flynn, L.**, “[Quantitative Analysis of Hot Spots Using EO-1 and Landsat 7.](#)” Final Progress Report to NASA, NRA-99-OES-01, EO-1 Mission Instrument Evaluation and Data Validation, March 1, 2002 – September 30, 2003.
10. **Goetz, Alexander F.H.**, “[Atmospheric Correction of Hyperion Data and Techniques for Dynamic Scene Correction.](#)” EO-1 Interim Report, February 6, 2003.
11. **Helder, D.**, A. Angal, C. Mettler, and T. Ruggles, “[An Integrated Assessment of the Earth Observer -1 Instrument Suite and the Landsat 7 Enhanced Thematic Mapper Plus.](#)” ALI Radiometric Assessment Final Report.
12. **Huete, A.**, H. Yoshioka, M.S. Moran, and T. Miura, “[Inter-Sensor Calibration of Vegetation Indices for Monitoring and Continuity Studies.](#)” EO-1 Science Validation Work Final Report to NASA, NCC5-478.

13. **Jupp, D.L.B.** and B. Datt, [“Evaluation of Hyperion Performance at Australian Hyperspectral Calibration and Validation Sites.”](#) Final Report to NASA, NRA-99-OES-01.
14. **Kruse, F. A.,** J. W. Boardman, and J. F. Huntington, [“Evaluation and Geologic Validation of EO-1 Hyperion.”](#) Progress Report (01/07/2003): NASA Grant NCC5-495.
15. **Kruse, F. A.,** J. W. Boardman, and J. F. Huntington, [“Evaluation and Geologic Validation of EO-1 Hyperion.”](#) Final Report: NASA Grant NCC5-495.
16. **Liang, S.,** F. Huemmrich, J. Morisette, C. Walthall, and C. Daughtry, [“EO-1 Validation and Evaluation for Agricultural Monitoring.”](#) Final Report (March 2000 – February 2003).
17. **McGwire, K.** and B. Schultz, [“A Combined Investigation: Hyperspectral Monitoring of Invasive, Non-Native Plant Species with EO-1 Hyperion Imagery.”](#) Final Report, NASA Grant NCC5-486.
18. **Moran, M. S. R.** Bryant, C. Holifield, S. McElroy, A. Huete, T. Miura, and D. Goodrich, [“EO-1 and Landsat Inter-Satellite Comparison at Two Established Arizona Field Site.”](#) EO-1 Validation Team Progress Report, 2002.
19. **Mustard, J.,** [“Precision and Accuracy of ALI Data for the Determination of Vegetation Abundance.”](#) Final Report for EO-1 Evaluation and Validation, NASA Grant NAG5-9121.
20. **Ramsey III, E.,** G. Nelson, A. Rangoonwala, and R. Ehrlich, “Hyperspectral Mapping of Invasive Plant Species”.
21. **Ramsey III, E.,** G. Nelson, A. Rangoonwala, and R. Ehrlich, [“Mapping the Invasive Species Chinese Tallow”](#).
22. **Roberts, D.,** P. Dennison, and M. Gardner, [“Hyperion Applications and Validation for Fire Hazard Assessment in the Santa Monica Mountains, California.”](#) Final Technical Report: 2002.
23. **Root, R.,** S. Hagar, S. Ustin, and G. Anderson, and R. Kokaly, [“Detection and Mapping of Invasive Leafy Spurge Using Orbital Hyperspectral Imagery from the EO-1 Mission.”](#) Final Report: EO-1 Evaluation and Validation: NRA-99-OES-01.
24. **Smith, M.,** M. Martin, and J. Aber, [“Evaluation of Hyperspectral Requirements for Remote Estimation of Forest Ecosystem Composition and Function”](#).
25. **Townsend, P.** and J. Foster, [“Mapping Forest Composition in the Appalachians Using Data From EO-1 Hyperion, Landsat, and AVIRIS.”](#) EO-1 Science Validation Team, NASA Grant NCC5-493.
26. **Watters, R.,** [“Global Assessment of Volcanic Debris Hazards From Space.”](#) Final Report: NAG5-9498.
27. **White, W. A.,** J. Raney, M. Crawford, S. Erzurumlu, and T. Tremblay, [“Evaluation and Validation of EO-1 and Landsat 7 Imagery through an Analysis of Land Cover/Land Use and Rates of Deforestation in Belize, Central America.”](#) Interim Progress Report, January 1, 2002 – December 31, 2002, NASA Grant NRA-99-OES-01.