PART 12. PUBLICATIONS, PRESENTATIONS and ARTICLES

1. PUBLICATIONS

1.1 Mission


1.2 Sensor Web/Test-Bed Initiatives


1.3 Spacecraft Bus


1.4 Technology

1.4.1 Advanced Land Imager (ALI)


### 1.4.2 Hyperion


1.4.3 LEISA Atmospheric Corrector (LAC)


1.4.4 X-Band Phased Array Antenna (XPAA)


### 1.4.5 Wideband Advanced Recorder and Processor (WARP)


### 1.4.6 Enhanced Formation Flying (GSFC Algorithm)


### 1.4.7 Enhanced Formation Flying (JPL Algorithm)


### 1.4.8 Pulsed Plasma Thruster (PPT)


### 1.4.9 Lightweight Flexible Solar Array (LFSA)

TBD

### 1.4.10 Carbon-Carbon Radiator (CCR)


### 1.4.11 LA-II Thermal Coating

1.5 Science

IEEE 2001 International Geoscience and Remote Sensing Symposium (IGARSS), Sydney, Australia  
July 9-14, 2001


IEEE 2002 International Geoscience and Remote Sensing Symposium (IGARSS), Toronto, Canada
June 24-28, 2002


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**IEEE Transactions on Geoscience and Remote Sensing, Vol. 41, No. 6, Special Issue on the EO-1 Mission June 2003**


10th JPL AVIRIS Geoscience Workshop
February 27 – March 2, 2001


11th JPL AVIRIS Geoscience Workshop
March 4-8, 2002


12th JPL AVIRIS Geoscience Workshop
February 24-28, 2003


Proceedings SPIE Conference, April 1-5, 2002


29th International Symposium on Remote Sensing of Environment, Buenos Aires, April 8-12, 2002


Asner, G.P., M. Keller, and J.N.M. Silva. Spatial and temporal dynamics of forest canopy gaps following selective logging in the eastern Amazon, Global Change Biology, In press.


**General Miscellaneous**


2. PRESENTATIONS

2.1 Mission


2.2 Sensor Web/Test-Bed Initiatives


2.3 Spacecraft Bus

2.4 Technology

2.4.1 Advanced Land Imager (ALI)


2.4.2 Hyperion


2.4.3 LEISA Atmospheric Corrector (LAC)


2.4.4 X-Band Phased Array Antenna (XPAA)


2.4.5 Wideband Advanced Recorder and Processor (WARP)


2.4.6 Enhanced Formation Flying (GSFC Algorithm)

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2.4.8 Pulsed Plasma Thruster (PPT)

2.4.9 Lightweight Flexible Solar Array (LFSA)

2.4.10 Carbon-Carbon Radiator (CCR)

2.4.11 LA-II Thermal Coating

2.5 Science

CSIRO EOC Annual Science Meeting, Canberra, Australia, 2001 and 2002


15. **Huete, Alfredo**, “Scaling-Up Field-Based Biophysical Parameters over Argentina to Coarser Scale MODIS Data”, EO-1 Science Validation Team Meeting, Tucson, AZ, May 2001


22. **Goetz, A.F.H.**, 2001, Updates on CAL activities. EO-1 Science Validation Meeting. May 1-3. Tucson,


33. **Abrams, Michael**, Luigi Alberotanza, Stefano Pignatti, and Remo Bianchi, Update on Venice, Italy Validation Project, EO-1 and SAC-C Science Validation meeting, Buenos Aires, Nov. 2001.


40. **Cudahy, Thomas**, An additive SWIR instrument/processing artifact observed in recent Hyperion data, EO-1 and SAC-C Science Validation meeting, Buenos Aires, Nov. 2001.


51. **Jupp, David** and Alex Held, Summary of Australian EO-1 activities, EO-1 and SAC-C Science Validation meeting, Buenos Aires, Nov. 2001.


55. **Liang, Shunlin,** EO-1 validation and evaluation for agricultural monitoring: recent progress, EO-1 and SAC-C Science Validation meeting, Buenos Aires, Nov. 2001.


57. **McVicar, Tim,** Tom Vanniel, and Jay Pearlman, Assessment of Precision Agriculture in Coleambally, Part 1, EO-1 and SAC-C Science Validation meeting, Buenos Aires, Nov. 2001.


60. **Moran, M.S.,** R. Bryant, C. Holifield and S. McElroy, Cross Comparison of Landsat-4 and Landsat-5 TM, Landsat-7 ETM+ and EO-1 ALI for Agricultural Sites, EO-1 and SAC-C Science Validation meeting, Buenos Aires, Nov. 2001.


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**EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002**

66. **Abrams, Mike,** Validation of EO-1 over Venice for Urban Mapping & Lagoon Studies, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

67. **Asner, Greg,** Analysis of EO-1 Hyperion Imagery for Desertification Research Applications in Argentina and EO-1 Hyperion vs. Landsat ETM+ for Selective Logging Research in the Amazon, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

68. **Biggar, Stuart,** Review of in-flight radiometric of ALI and Hyperion and spatial calibration of ALI, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

69. **Bindschadler, Robert,** Of Things Glaciological, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

70. **Blonski, Slawomir,** Synthesis of Multispectral Bands from Hyperspectral Data: Validation Based on Images Acquired by AVIRIS, Hyperion, ALI, and ETM+, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

71. **Boardman, Joe,** Validating Hyperion in Yellowstone National Park Using AVIRIS, HyMap and Ground Spectra and Validating Hyperion at Oatman, Arizona Using AVIRIS, HyMap and Ground Spectra, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
72. Carlson, Barbra, Atmospheric Correction Using Hyperion, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
73. Crowley, James, Mapping Potential Debris Flow Source Areas on Stratovolcanoes: Integration of Digital Terrain Data with Spectral Mineralogy Obtained from Hyperion, ALI, and ASTER, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
75. Goetz, Alex, Dynamic Flat-Field Correction of Hyperion Data Using Statistical Techniques, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
76. Goetz, Alex, HATCH-2d Atmospheric Correction Applied to Hyperion Data, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
77. Gong, Peng, Retrieval of Surface Reflectance and LAI Mapping Using Hyperion ALI and AVIRIS, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
78. Goodenough, David, Forest Monitoring with EO-1 in the Evaluation and Validation of EO-1 for Sustainable Development (EVEOSD) Project, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
79. Green, Robert, Hyperion Cal/Val Comparisons (with ALI, AVIRIS, ETM+, MODIS, etc.), EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
80. Hearn, David, Advanced Land Imager Spatial Performance Validation, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
82. Jupp, David, Outcomes from the EO-1 Collects at Australian Sites and their Analysis, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
83. Kruse, Fred, Geologic Validation of EO-1 Hyperion, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
84. Liang, Shunlin and Fang, Hongliang, Estimation and Evaluation of Surface Parameters from EO-1 for Agricultural Monitoring, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
85. Markham, Brian, Landsat-7 ETM+ Radiometric Cal/Val Activities, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
86. Martin, Mary, Analysis of Hyperion Data in Australian and Northeastern US Forests, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
87. McGwire, Kenneth, Identifying Tamarix Ramosissima with EO-1 Hyperion Imagery, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
88. Mendenhall, Jeff, EO-1 Advanced Land Imager Radiometric Assessment Update, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
89. Mendenhall, Jeff, EO-1 ALI Lunar Calibration, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
90. Meyer, Dave, ALI Characterization, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
91. Moran, Susan, Data Continuity of EO-1 ALI and Landsat TM and ETM+ Sensors, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
92. Mustard, John and Andrew Elmore, Comparison of the Precision and Accuracy of ALI and ETM+ Data for Determination of Green Cover in Semi-Arid Systems, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
94. **Orloff, Seth**, Hyperion Data Analysis: Sample Results, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
95. **Pearlman, Jay**, Hyperion Noise and Atmospheric Impacts on Vegetation Data, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
96. **Ramsey, III, Elijah**, Mapping the Invasive Species, Chinese Tallow, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
98. **Root, Ralph**, Comparison of EO1 Hyperion, AVIRIS, and CASI for Classification and Mapping of Invasive Leafy Spurge in Theodore Roosevelt National Park, North Dakota, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
99. **Storey, Jim**, Landsat 7 Geometric Calibration and Performance, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
100. **Townsend, Phil**, Hyperspectral Remote Sensing of Forest Ecosystem Composition and Structure in the Appalachians and Bolivian Amazon, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
101. **Watters, Bob**, Global Assessment of Volcanic Debris Flow Hazards from Space--Results from Rock Strength Testing and Slope Stability Modeling, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
102. **White, William** and Melba Crawford, "Evaluation of ALI Imagery through an Analysis of Land Cover / Land Use and Hurricane Impacts in Belize, Central America" and "Out of Africa plus other Stuff", EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.
103. **Zimbelman, David**, Global Assessment of Volcanic Debris Flow Hazards from Space--Results from Field Mapping and Alteration Studies, EO-1 Science Validation Team Meeting, Greenbelt, Maryland, April 2002.

**EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002**

104. **Abrams, Michael**, “Urban mapping with EO1, Landsat, ASTER, Ikonos and MIVIS” and “Lagoon and Ocean Validation with EO1, Landsat, and MIVIS,” EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.
110. **Bryant, Ross**, Data Continuity of Landsat-4 TM, Landsat-5 TM, Landsat-7 ETM, and Advanced Land Imager (ALI) sensors, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.


120. **Green, Robert**, On-Orbit Radiometric and Spectral Calibration Characteristic of EO-1 Hyperion Derived with an Underflight of AVIRIS and In Situ Measurements at Salar de Arizaro, Argentina, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.

121. **Heidebrecht, Kathy**, Tropical Forest Canopy Structure and Chemistry in the Brazilian Amazon, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.

122. **Held, Alex**, Mapping of Sugarcane Biophysical Variables with the Hyperion Imaging Spectrometer on the NASA EO-1, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.


130. **Mendenhall, Jeff**, The Advanced Land Imager On-Orbit Calibration: What We Learned During the First Two Years On-Orbit and How it Affects SVT Data, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.


133. **Ong, Lawrence**, Hyperion Flat Fielding with 90° Yaw Data, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.


138. **Smith, Marie-Louise**, Analysis of Hyperspectral Data for Estimation of Temperate Forest Canopy N Concentration: Comparison between an Airborne (AVIRIS) and a Spaceborne (Hyperion) Sensor, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.

139. **Townsend, Phil**, Mapping Forest Composition, Structure and Biochemistry in the Appalachians Using Data from EO-1 Hyperion, Landsat and AVIRIS, EO-1 Science Validation Team Meeting, Hilo, Hawaii, Nov. 2002.


**ASPRS Annual Conference, Anchorage, AK, May 2003**


**Hyperspectral Data Compression Workshop, Goddard Space Flight Center, May 2003**


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**11th Annual JPL Airborne Earth Science Workshop, Pasadena, CA, March 2002**


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**12th Annual JPL AVIRIS Geoscience Workshop, February 24-28, 2003**


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**J. Pearlman Miscellaneous**


R. Root Miscellaneous


AM Constellation Workshop, Buenos Aires, December 3-5, 2003


Total Number of Presentations = 213

3. ARTICLES


