

# 2009 Civil Commercial Imagery Evaluation Workshop

**TUESDAY, MARCH 31, 2009**

<b>8:00 AM</b>	<b>9:00 AM</b>	<b>Registration</b>
<b>Morning</b>		
9:00 AM	9:05 AM	<b>Welcome: Greg Stensaas: USGS EROS, Remote Sensing Technologies Project Manager</b>
9:05 AM	9:30 AM	<b>Invited Speaker: Frederick Rothenhäusler - RapidEye product development</b>
9:30 AM	9:55 AM	<b>Invited Speaker: Brad Doorn - President ASPRS / Director, International Production Assessment Division and Remote Sensing Program Manager Office of Global Analysis Foreign Agricultural Service U.S. Department of Agriculture - Mapping, Monitoring, and the Role of Remote Sensing</b>
<b>9:55 AM</b>	<b>10:55 AM</b>	<b>Government Overview Session</b>
9:55 AM	10:20 AM	<b>USGS - Bruce Quirk - Land Remote Sensing Program Manager, Remote Sensing</b> <i>Bringing Systems and Science Together</i>
<b>10:20 AM</b>	<b>10:35 AM</b>	<b>Break</b>
10:35 AM	11:00 AM	<b>NGA - Corena Alexander - Deputy Chief, Sensor Assimilation Division,ASX,</b> <b>Acting Branch Chief, Commercial Data Integration Branch, ASXC.</b>
11:00 AM	11:25 AM	<b>USDA - Glenn Bethel - Remote Sensing Advisor</b>
11:25 AM	11:50 AM	<b>NASA - Kurt Thome, Physical Scientist Biospheric Sciences Branch, NASA GSFC- NASA missions and their role in commercial remote sensing</b>
11:50 AM	12:15 PM	<b>NOAA - Jane D'Aguanno - Director, Commercial Remote Sensing Regulatory Affairs</b> <b>NOAA Satellite and Information Service, Overview of NOAA's Commercial Remote Sensing Regulatory Affairs Office</b>
<b>12:15 PM</b>	<b>1:15 PM</b>	<b>Lunch (provided with registration)</b> <b>Set up posters</b>
<b>Afternoon</b>		
<b>1:15 PM</b>	<b>2:15 PM</b>	<b>Land Imaging Panel Discussion</b>
<b>2:15 PM</b>	<b>2:30 PM</b>	<b>Break</b>
<b>2:30 PM</b>	<b>5:00 PM</b>	<b>Session 1: MEDIUM RESOLUTION IMAGERY - (Chair: Bob Tetrault, USDA)</b>
2:30 PM	2:55 PM	<b>Stensaas, Greg / Chander, USGS EROS / SGT - Quality Assurance Framework for Earth Observation (QA4EO)</b>
2:55 PM	3:20 PM	<b>Steve Mackin, DMC International Imaging Ltd. - Improved Radiometric Calibration of the Disaster Monitoring Constellation using a "Gold" standard satellite - preliminary results</b>
3:20 PM	3:45 PM	<b>Horst Weichelt, RapidEye - The RapidEye Calibration Approach and Current Results</b>
3:45 PM	4:20 PM	<b>Julio D'agle, INPE - Geometric and Radiometric assessment of CBERS and Landsat products generated by INPE</b>
4:20 PM	4:45 PM	<b>Ronald Hayes, SGT / USGS EROS - Radiometric and Geometric Assessment of the CBERS-2B, SPOT-5, and RapidEye</b>
4:45 PM	5:00 PM	<b>First day wrap-up - announcements, etc</b>
<b>5:00 PM</b>	<b>6:30 PM</b>	<b>Poster Session / Reception</b>

<b>WEDNESDAY, APRIL 1, 2008</b>		
<b>8:00 AM</b>	<b>8:30 AM</b>	<b>Registration</b>
<b>Morning</b>		
<b>8:30 AM</b>	<b>11:30 AM</b>	<b>Session 1: MEDIUM RESOLUTION SATELLITE IMAGERY (cont.) - (Chair: Bob Tetrault, USDA)</b>
8:30 AM	8:55 AM	<b>Dennis Helder, Department of Engineering South Dakota State University (SDSU)</b> Consistent Calibration of the Landsat MSS Archive
8:55 AM	9:20 AM	<b>Cowart, Russell, i-cubed : information integration &amp; imaging</b> - Alaska Statewide Digital Mapping Initiative: Exploring medium and high resolution commercial imagery solutions to meet statewide mapping needs in Alaska
9:20 AM	9:45 AM	<b>Robert Ryan, Mississippi State University</b> - Next Generation Low Earth Orbit Ocean Color Satellites and their and Cal-Val Requirements
9:45 AM	10:10 AM	<b>David Aaron, Department of Engineering South Dakota State University (SDSU)</b> Radiometric Calibration Validation of Satellite Sensor Systems
10:10 AM	10:35 AM	<b>Mary Pagnutti, Mississippi State University</b> - Next Generation Thermal Imaging Satellite Systems and their Cal-Val Requirements
<b>10:35 AM</b>	<b>10:50 AM</b>	<b>Break</b>
10:50 AM	11:05 AM	<b>Timothy J. Puckorius, Chairman and CEO EOTec</b> - Resourcesat and Cartosat – EOTec Management Services Exclusive Distributors for Antrix – Current and Future Missions
11:05 AM	11:30 AM	<b>Paul Stephens, DMC International Imaging Ltd</b> - The Next Generation DMC Satellites - UKDMC-2, and Deimos-1
<b>11:30 AM</b>	<b>3:55 PM</b>	<b>Session 2: HIGH RESOLUTION SATELLITE IMAGERY - (Chair: Terry Lehman, NGA)</b>
11:30 AM	11:55 AM	<b>Paul Bresnahan, Observera Inc. / NGA CCAP</b> - Absolute Geolocation Accuracy Evaluation of EROS-B Level 1A Imagery - Study Results
11:55 AM	12:20 PM	<b>Byron Smiley, DigitalGlobe</b> - The Absolute and Relative Geolocation Accuracies of QB02 and WV01
<b>12:20 PM</b>	<b>1:30 PM</b>	<b>Lunch (provided with registration)</b> <b>Posters available for viewing</b>
<b>Afternoon</b>		
1:30 PM	1:55 PM	<b>Kevin Kohm, GeoEye</b> - On-Orbit Geolocation Accuracy and Image Quality Performance of the GeoEye-1 High Resolution Imaging Satellite
1:55 PM	2:20 PM	<b>Nicolas Stussi, SPOT Image Corporation</b> - SPOT Image Corporation Products and Services
2:20 PM	2:45 PM	<b>Howard Bowen, ITT Space Systems Division</b> - Correlation of Target-dependent Calibration Methods used to Determine Absolute and Relative Radiometric Accuracy, Monitor Long-term Stability, Assess Stray Light Performance, Measure MTF Performance and Estimate Effective Focal Length for the IKONOS Space-based Remote Sensing Payload
2:45 PM	3:10 PM	<b>Rani Hellerman, ImageSat</b> - The growing civilian market for VHR satellite imagery
<b>3:10 PM</b>	<b>3:25 PM</b>	<b>Break</b>
3:25 PM	3:40 PM	<b>Paul Bresnahan, Observera Inc. / NGA CCAP</b> - Absolute Geolocation Accuracy Evaluation of WorldView-1 Basic 1B Imagery - Study Results
3:40 PM	3:55 PM	<b>Dennis Helder, Department of Engineering South Dakota State University (SDSU)</b> - Towards a Worldwide Library of Pseudo-Invariant Radiometric Calibration Sites
<b>3:55 PM</b>	<b>4:45 PM</b>	<b>Session 3: HIGH RESOLUTION AERIAL IMAGERY - (Chair: Jon Christopherson, SGT)</b>
3:55 PM	4:20 PM	<b>Klaus Neumann, Z/I Imaging Solutions Centre, Intergraph</b> - Digital Aerial Camera Technology Update
4:20 PM	4:45 PM	<b>David Pollock, Center for Applied Optics, University of Alabama Huntsville</b> - A Constant 63 $\mu$ m Resolution Five frames-s <sup>-1</sup> Camera, Scalable from 4 MP to > 1 GP
4:45 PM	5:00 PM	Second day wrap-up - announcements, etc -
<b>6:30 PM</b>	<b>8:00 PM</b>	<b>No Host Dinner - Champps Fair Oaks, Fair Oaks Mall</b>

<b>THURSDAY, APRIL 2, 2008</b>		
<b>8:00 AM</b>	<b>8:30 AM</b>	<b>Registration</b>
<b>Morning</b>		
<b>8:00 AM</b>	<b>11:50 AM</b>	<b>Session 3: HIGH RESOLUTION AERIAL IMAGERY (cont.) - (Chair:Jon Christopherson, SGT)</b>
8:30 AM	8:55 AM	Lloyd Coulter, Department of Geography, San Diego State University - Monitoring the International Land Borders of the United States Using High Resolution Imagery
8:55 AM	9:20 AM	Daniel Taylor / Thomas Murdock, Frontier Technology, Incorporated - Using the Integrated Sensor Analysis Tool for Remote Sensing Data Visualization and Calibration
9:20 AM	9:45 AM	Sherry Loy, Global Marketing Insights, Inc - USGS – 2008 African Remote Sensing Research
9:45 AM	10:10 AM	Shawana Johnson, Global Marketing Insights, Inc. - The use and challenges of using Multiple resolution sensors for the Iraq Operational Agricultural Monitoring Project
<b>10:10 AM</b>	<b>10:25 AM</b>	<b>Break</b>
10:25 AM	11:00 AM	Berthold Winck / Jochen Dahlke, Bundeswehr Geoinformation Office - 3D Worlds for the Bundeswehr – The Sensor system and Algorithm and The Process Chain
11:00 AM	11:25 AM	Steve Cota, Aerospace Corp. - PICASSO – An End-to-End Image Simulation Tool for Space and Airborne Imaging Systems
11:35 AM	11:50 AM	Filippo Britti, COSMO-SkyMed - The COSMO-SkyMed Satellite Constellation for Earth Observation and applications
<b>11:50 AM</b>	<b>1:00 PM</b>	<b>Lunch (provided with registration) Take posters down</b>
<b>Afternoon</b>		
<b>1:00 PM</b>	<b>4:10 PM</b>	<b>Session 4: OTHER IMAGING SENSORS (LiDAR, RADAR, SAR, Hyperspectral) - (Chair:Gregory Stensaas )</b>
1:00 PM	1:25 PM	Tom Ager, NGA - Geometric Precision in Space Radar Imaging
1:25 PM	1:50 PM	Jason Stoker - Evaluation of Digital Surface Model Generated from WorldView-1 Basic Stereo Imagery
1:50 PM	2:15 PM	Paul Bresnahan, Observera Inc. / NGA CCAP - Absolute Geolocation Accuracy Evaluation of Cosmo-SkyMed Spotlight and Stripmap Imagery - Study Results
<b>2:15 PM</b>	<b>2:30 PM</b>	<b>Break</b>
2:30 PM	2:55 PM	Simon Kay, Agriculture Unit, Joint Research Centre of the European Commission - Validation of CARTOSAT-1, TerraSAR-X and CosmoSkyMed imagery for use in field area measurement checks
2:55 PM	3:10 PM	Paul Bresnahan, Observera Inc. / NGA CCAP - Absolute Geolocation Accuracy Evaluation of TerraSAR-X-1 SpotLight and StripMap Imagery - Study Results
3:10 PM	3:35 PM	Bill Emison, Merrick & Company - LiDAR/hyperspectral data fusion analysis
3:35 PM	4:00 PM	Bill Emison, Merrick & Company - LiDAR Feature Extraction Methodologies
<b>4:00 PM</b>	<b>4:30 PM</b>	<b>Discussion and Conference wrap-up - Drawings</b>