eMap International is pleased to announce an exciting offer for free high-resolution aerial imagery for use in academic, government and professional research projects.

Keystone Aerial Surverys, Inc., has partnered with eMap International to make available multispectral, non-rectified imagery to support up to three research proposals.

Aerial imagery, collected by Keystone using Microsoft's UltraCam X large-format digital sensor, is available for over 225 urban markets and key tourism spots across the US so we are sure to have a dataset that will be of interest to you!

15-cm Natural Color UltraCam X Imagery; Naperville, IL

The UltraCam X is the most advanced digital airborne sensor currently offered in the commercial marketplace. The advantages of the sensor are:

A large geographic footprint
The ability to fly higher over the ground so there are less restricted air space issues
The pixel size of the camera is 7.2 microns
All of these factors taken together result in lower acquisition costs and quicker processing turnaround times

Here are some specifics that will help you get started with the proposal process:

Imagery Parameters

- Collected with an UltraCam X digital aerial sensor
- Differentially corrected airborne GPS and IMU
- Most data has 15-cm per pixel Ground Sampling Distance (some have 30-cm GSD)
- Multispectral (RGB + NIR)
- Non-rectified, non-georeferenced 'raw' imagery
- Side overlap of 60%
- Front overlap of 80%
- Over 225 US geographic locations to choose from
  - Some highlights include: Ashville, NC; Aspen, CO; Athens, GA; Charleston, SC; Flagstaff, AZ; Grand Teton National Park; Palm Bay, Florida; Pittsburgh, PA; Santa Barbara, CA; and Syracuse, NY
  - Please review the attached spreadsheet or visit www.kasview.com to see all the available areas

Proposal Requirements

- A brief summary of the project goals, methodology and final deliverables
- A specific request for up to 25 square miles of imagery (if a larger area is required, please indicate the reason)
- A demonstration of your ability to honor the commitments stated below (for example, state previous publications, research work, etc.)
- No longer than 2 pages
- Due by 5PM (Mountain) on February 27, 2009

Review Process

- All research projects will be evaluated according to the following criteria:
  1. The uniqueness of the research project
  2. The credentials of the research team
  3. Demonstration of the ability of the research team to produce the final deliverables and to publish a research paper
- Up to 3 research projects will be picked to receive free aerial imagery

Offer Commitments

Any individual/organization that receives free imagery through this offer agrees to:

1. Share all the final deliverables with eMap International and Keystone Aerial.
2. Publish your research findings in an academic or professional publication.
3. Give credit in all publications or presentations associated with this project to eMap International, Keystone Aerial and Microsoft as well as to the UltraCam X sensor as the source of the data.
4. Only utilize this data for research purposes. You cannot resell or make any commercial gains from this free data. Imagery usage must not violate the terms of the Digital Imagery License Agreement.

Here are some possible research topics:

Stormwater management and modeling
Automated feature extraction
DEM creation
Vegetation studies
Multispectral applications
Impervious surface extraction
UltraCam X imagery as an alternative to LiDAR collection

If you have any questions or comments about this free data offer, please email or call the eMap International Sales Team.

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