



**Amendment #1
CATS+ TORFP # 060B440005**

Digital High-Resolution Aerial Photography for Maryland

November 12, 2013

Ladies/Gentlemen:

This Amendment #1 is being issued to amend and clarify certain information contained in the above referenced TORFP. All information contained herein is binding on all Offerors who respond to this TORFP. Specific parts of the TORFP have been amended. The following changes/additions are listed below; new language has been double underlined and marked in bold (i.e., **word**) and language deleted has been marked with a strikethrough (i.e., ~~word~~).

1. Revise the Closing Date on the Key Information Summary Sheet (p.1) as follows:

Closing Date and Time:	November 18, 2013 @ 2:00 PM Local Time <u>November 21, 2013 2:00 P.M., Local Time</u>
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2. Revise Section 2.6.2.5 – Aerial Camera (p.15) as follows:

The Offeror is required to use a large format area or linear array based digital sensor designed specifically for large-scale photogrammetric mapping. Digital sensors proposed shall be ~~recognized by the USGS as~~ capable of providing image data to support civil government mapping and orthophotography product development.

http://calval.cr.usgs.gov/manufacturers_certification.php

Camera calibration reports for the specific sensors proposed for this project shall be provided as a digital file(s) **upon award of the TO Agreement.** ~~with each respondent's proposal.~~

The camera must capture simultaneous multi-spectral (RGB and NIR) information. The camera shall utilize Forward Motion Compensation and Airborne GPS/INS system and must also be properly installed on a Gyro-Stabilized Mount.

The digital aerial images shall be clear and sharp in detail and of high radiometric quality. The camera shall capture the images in an uncompressed “lossless” image format. The images shall also be free from image blurs, image artifacts, “cold” or “hot” pixels, color distortion, color balance or tonal problems, or any other type of digital blemish.

If multiple sensor platforms are proposed it must be specifically detailed and advantages associated with a multi-sensor approach should be described. For those cameras that now have multiple versions in the marketplace, it is required that compatible sensors be utilized for the entire mission to ensure that all interim and final products are the same and meet the requirements outlined herein. If an Offeror proposes multiple generations of the same sensor, the Offeror shall clearly address compatibility issues and how those will be overcome in its technical

production processes. This is especially true if subsequent iterations allow for a higher flying height or larger image footprint.

Issued by
Michael Mehl
Procurement Officer



Amendment #2
CATS+ TORFP # 060B440005

Digital High-Resolution Aerial Photography for Maryland

November 14, 2013

Ladies/Gentlemen:

This Amendment #2 is being issued to amend and clarify certain information contained in the above referenced TORFP. All information contained herein is binding on all Offerors who respond to this TORFP. Specific parts of the TORFP have been amended. The following changes/additions are listed below; new language has been double underlined and marked in bold (i.e., **word**) and language deleted has been marked with a ~~word~~ (i.e., ~~word~~).

1. Revise Section 2.3 – Project Area (p.9-11) as follows:

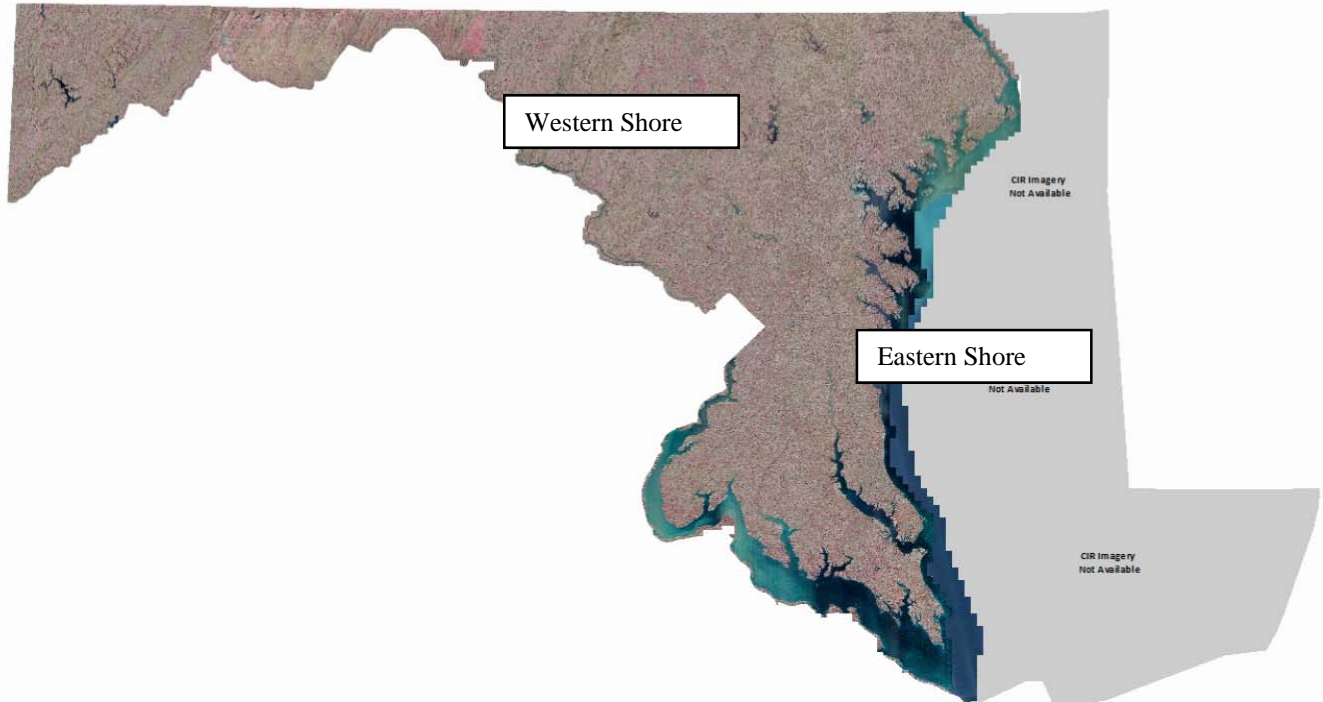
The initial (2014) project encompasses the region west of the Chesapeake Bay and covers approximately 6,449 square miles of land area (see table of land area by county below). The actual project area to be captured will be larger to take into account water and buffer areas. A buffer of 1000 feet shall be provided. Note that the Maryland border extends to the Virginia shoreline of the Potomac River. The buffer shall therefore extend 1000' beyond the Virginia shoreline. The border along the Chesapeake Bay shall be buffered beyond the shoreline a minimum distance of 2,500 feet. Full tiles beyond the defined project area as defined by the State are not required for orthophotography or elevation data. White pixels shall be provided to fill out tiles. The overlap distances are required to ensure sufficient imagery and elevation data exists so as to complete the entire project boundary without any concerns about quality or accuracy fall-off at the boundary. Note that inland waterways (Patapsco River, Severn River, Patuxent River, Back River, South River, and other inland waterways) shall be covered in their entirety. Also note that the entire span of the Chesapeake Bay Bridge (US 50), Susquehanna (I-95), Potomac River Bridge (US 301), Francis Scott Key (695) Bridge and the new Woodrow Wilson Bridge (I-495) shall be captured. The contractor shall ensure that full coverage for both shorelines for the Potomac and Susquehanna Rivers is obtained.

Full coverage shall also be for Pooles Island (Harford County), Hart-Miller Pleasure Island State Park (Baltimore County), and Gibson Island (Anne Arundel County). It is understood that control for these island mapping efforts may rely exclusively on the airborne GPS and IMU data.

See the MD iMAP map service for the extent of the 2014 project area. Shapefiles are also provided.

<http://www.mdimap.us/ArcGIS/rest/services/ImageryBaseMapsEarthCover/MD.State.6InchCIRImagery/MapServer?f=jsapi>

Area of Maryland to be Flown
West of the Chesapeake Bay (Western Shore)
East of the Chesapeake Bay (Eastern Shore)



Land Area by County - for Estimating Costs

County	Sq. Miles (land area)	Pop.
Eastern Shore		
<u>Allegany</u>	<u>425.4</u>	<u>75,087</u>
Caroline	320.1	29,772
Cecil	348.1	99,926
Dorchester	557.5	31,998
Kent	279.4	20,151
Queen Anne's	372.2	47,091
Somerset	327.2	26,119
Talbot	269.1	36,215
Wicomico	377.2	94,046
Worcester	473.2	49,274
<u>TOTAL</u>	<u>3,324</u>	<u>434,592</u>
Western Shore		
Anne Arundel	415.9	512,790
Baltimore City	80.0	631,366
Baltimore	598.6	785,618
Calvert	215.2	88,698
Carroll	449.1	169,353
Cecil	348.1	99,926
Charles	461.0	140,764
Frederick	662.9	225,721
Garrett	648.0	29,698

Harford	440.4	240,351
Howard	252.0	274,995
Montgomery	495.5	950,680
Prince George's	485.4	820,852
St. Mary's	361.3	101,578
Washington	458.1	145,384
TOTAL	6,372	5,217,774
TOTAL	9,512	5,652,366
GRAND TOTAL	10,121.4	5,727,453

2. **Revise Attachment 1 – Price Proposal Orthoimagery and Related Products (p.44) as follows:**

Optional Imagery Buy-ups (Not used in price evaluation)	UNIT PRICE	
100' Scale ASPRS Class I/0.25' GSD for planned buy up areas (see Section 2.6.4)		
100' Scale ASPRS Class I/0.25' GSD for other areas		
Near True Orthos 200' Scale ASPRS Class I/0.25' <u>0.5</u> ' GSD (minimum 2 square miles – excludes Baltimore City)		
Near True Orthos 200' Scale ASPRS Class I/0.25' <u>0.5</u> ' GSD (minimum 2 square miles – for Baltimore City)		
100' Scale ASPRS Class I/0.25' GSD		
Near True Orthos 100' Scale ASPRS Class I/0.25' GSD (minimum 1 square mile – excludes Baltimore City)		
Near True Orthos 100' Scale ASPRS Class I/0.25' GSD (minimum 1 square mile – for Baltimore City)		
Optional Coverage of Chesapeake Bay (Section 2.3)		

3. **Revise Attachment 4 – Price Proposal Planimetric Mapping Option (p.47-48) as follows:**

Optional services (not used for evaluation)

	New Planimetric Mapping Level 1 Features OR Updating Existing Data over 6 years old	Update Planimetric Mapping (Existing Data newer than 6 years old Level 1 Features	New Planimetric Mapping Level 1 AND Level 2 Features OR Updating Existing Data over 6 years old	Update Planimetric Mapping (Existing Data newer than 6 years old Level 1 AND Level 2 Features

Allegany	\$	\$	\$	\$
Anne Arundel	\$	\$	\$	\$
Baltimore City	\$	\$	\$	\$
Baltimore	\$	\$	\$	\$
Calvert	\$	\$	\$	\$
<u>Caroline</u>	\$	\$	\$	\$
Carroll	\$	\$	\$	\$
Charles	\$	\$	\$	\$
Frederick	\$	\$	\$	\$
Garrett	\$	\$	\$	\$
Harford	\$	\$	\$	\$
Howard	\$	\$	\$	\$
Montgomery	\$	\$	\$	\$
Prince George's	\$	\$	\$	\$
St. Mary's	\$	\$	\$	\$
Washington	\$	\$	\$	\$
Cecil	\$	\$	\$	\$
Washington	\$	\$	\$	\$
Kent	\$	\$	\$	\$
Dorchester	\$	\$	\$	\$
Somerset	\$	\$	\$	\$
Talbot	\$	\$	\$	\$
Wicomico	\$	\$	\$	\$
Worcester	\$	\$	\$	\$
Queen Anne's	\$	\$	\$	\$

4. Revise Attachment 5 – Price Proposal Land Use/Land Cover Updating Option (p49-50) as follows:

Optional services (not used for evaluation)

	Level 1 10 acre minimum mapping unit	Level 2 1 acre minimum mapping unit
Allegany	\$	\$
Anne Arundel	\$	\$
Baltimore City	\$	\$
Baltimore	\$	\$
Calvert	\$	\$
<u>Caroline</u>	<u>\$</u>	<u>\$</u>
Carroll	\$	\$
Charles	\$	\$
Frederick	\$	\$
Garrett	\$	\$
Harford	\$	\$
Howard	\$	\$
Montgomery	\$	\$
Prince George's	\$	\$
St. Mary's	\$	\$
Washington	\$	\$
Cecil	\$	\$
Washington	\$	\$
Kent	\$	\$
Dorchester	\$	\$
Somerset	\$	\$
Talbot	\$	\$
Wicomico	\$	\$

Worcester	\$	\$
Queen Anne's	\$	\$

Issued by
Michael Meinel
Procurement Officer