

Massachusetts Orthoimagery Consortium is a collaboration between local governments, with the support of state and regional agencies to procure and acquire orthoimagery for the region in the spring of 2014. MassOrtho has set the following goals:



How to join:

sites.google.com/site/massflyover



- To lower the cost of orthoimagery acquisition for participating communities
- To provide procurement and project management expertise at a regional level
- To provide a basemap of regional orthoimagery that is accessible to various local, state, regional, and federal agencies
- To provide a predictable and sustainable model for recurring imagery procurement

| Inter-Governmental Cost Estimate | 3 Inch Imagery Details | |
|---|---|--|
| Per the US Geological Survey <ul style="list-style-type: none"> • \$701 per square mile • 5% will be added to each participant's cost to cover the USGS administrative fee for <ul style="list-style-type: none"> ○ Procurement ○ QA/QC of imagery | <ul style="list-style-type: none"> • Captured at lower altitudes, high resolution • Orthoimagery has the greatest resolution and • Provides a product that is extremely rich in detail • Has the best innate positional accuracy available. | Key identifiable features: <ul style="list-style-type: none"> • Utilities - fire hydrants, manholes, catch basins • Power and light poles • Billboards/traffic signs • Curbs and gutter • Transportation paint lines • Single trees and shrubs |

| Project Timeline | | Notes |
|--|--|---|
| Participant to complete contact information survey and sign MOU with Arlington | Phase I: By July 31, 2013 Phase II: By August 31, 2013 Phase III: By November 15, 2013 | <ul style="list-style-type: none"> • MassOrtho will provide an online survey and site to access MOU. • Statewide outreach will be conducted. |
| Payment from Participant to Arlington | By December 1, 2013 | <ul style="list-style-type: none"> • Participants are allowed to submit payment as soon as MOU is signed. All payments are final and deadline is firm. |
| Arlington to sign Joint Funding Agreement with USGS | By December 15, 2013 | <ul style="list-style-type: none"> • JFA will only be signed for amount that Arlington has in the MassOrtho fund as of this date. |
| Imagery collected | Between February – April 2014 | |
| Payment from Arlington to USGS for services rendered as needed | March 2014 - December 2014 | <ul style="list-style-type: none"> • Progress and payment milestones will be announced to all participants. |
| Final delivery of all products | By December 31, 2014 | |

IMAGERY SPECIFICATIONS

| ACQUISITION | |
|---|--|
| Imagery Bands: | 4-band (true color & near infrared) |
| Acceptable Window: | Spring 2014, generally thought to be from February 1, 2014 and continue through April 30, 2014. |
| Acquisition Conditions: | Leaf off, snow free, free from clouds, smoke, haze, light streaks, flooding (streams/rivers in banks), and excessive soil moisture. |
| Resolution: | 7.5 cm Ground Sample Distance (pixel resolution) |
| PROCESSING | |
| Horizontal Accuracy: | Suitable for 40-scale planimetrics. |
| Vertical Accuracy: | Suitable for generating 2-foot contours. |
| Projection: | <p>Orthorectified, uncompressed GeoTIFF images shall be referenced to UTM projection and coordinate system (meters) that MassGIS is using for their statewide imagery</p> <p>Orthorectified, compressed Mr SID mosaic images shall be referenced to Massachusetts State Plane projection and coordinate system (feet) using horizontal datum NAD83.</p> <p>Note: Massachusetts Mainland or Islands may be required</p> |
| Tiling Scheme: | <p>The tiling scheme shall be consistent with the 2013 and 2014 Massachusetts orthoimagery projects.</p> <p>The quarter-tile grid should completely cover the participating municipality, plus all quarter-tiles within or touching a 200 foot buffer from the municipal boundary.</p> |
| FINAL PRODUCTS FOR DELIVERY | |
| Notes: | All deliveries will be in conventional soft copy formats via external hard drive or as mutually agreed upon at time of transfer. |
| Non-orthorectified, uncompressed imagery and project files: | Imagery will be suitable for development of 40-scale planimetrics by a vendor of the participants choice. |
| Orthorectified, uncompressed imagery: | <p>Data shall not be compressed during any phase of the production or delivery process.</p> <p>Tiles will be consistent with MassGIS 2013-2014 imagery</p> <p>Referenced to UTM projection and coordinate system (meters) using horizontal datum NAD83</p> |
| Orthorectified, compressed imagery: | <p>Mr SID with 80:1 compression ratio</p> <p>Mosaic should completely cover the participant's area, plus all quarter-tiles within or touching a 200 foot buffer from their defined boundary</p> <p>Referenced to Massachusetts State Plane projection and coordinate system (feet) using horizontal datum NAD83.</p> <p>Note: Massachusetts Mainland or Islands may be required</p> |