



MARITIME IMAGING AND MAPPING ADVANTAGES

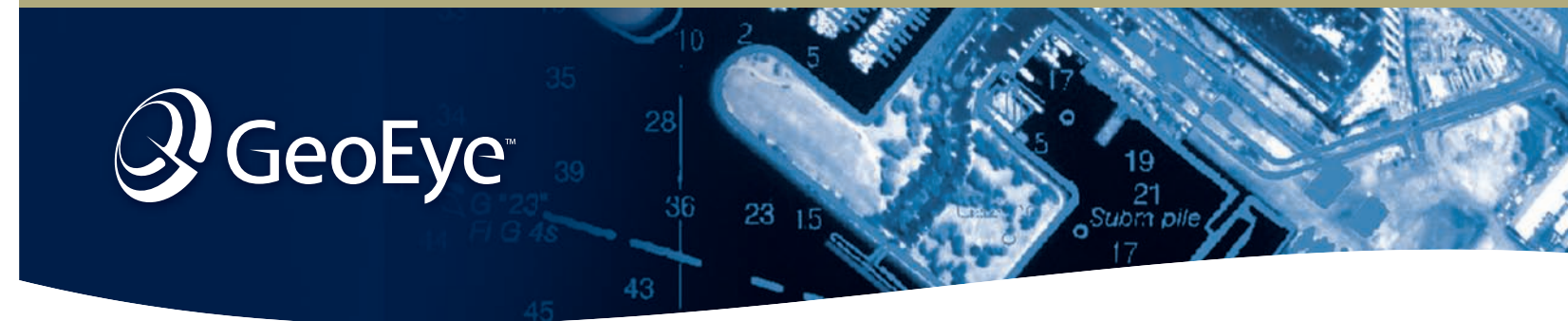
- Of the 5,500 significant ports and harbors worldwide, the GeoEye digital archive offers the most readily available images.
- Leveraging our archive, GeoEye offers the unequalled ability to deliver change detection comparing existing and new imagery of the same location.
- The GeoEye satellites can be tasked quickly to capture unplanned events or natural disasters such as storms, collisions, environmental spills, and red tide/harmful algal blooms (HAB).
- GeoEye offers a complete imagery solution to construct your baseline and updated marine mapping.
- Our single-pass stereo collection allows you to collect 3D features of your marine facilities for creating complete, 3D models for mission planning and visual simulation.
- GeoEye is an ISO-9001:2000 certified company. For every step in the process, orders are filled using rigorous quality control procedures.
- The positional accuracy of our IKONOS 1-meter satellite is the best in the world. IKONOS delivers geospatial accuracies down to 2 meters CE90, with a RMSE of 0.9 meter.

ABOUT GEOEYE

GeoEye is the premier provider of geospatial information, imagery, and solutions for the national security community, strategic partners, resellers, and commercial customers to help them better map, measure and monitor the world. GeoEye operates a constellation of Earth imaging satellites, mapping aircraft, and has an international network of ground stations, a robust imagery archive, and advanced geospatial imagery processing capabilities.

FOR MORE INFORMATION

For more detailed information about GeoEye imagery products and solutions, visit our website at www.geoeye.com or call +1.800.232.9037.

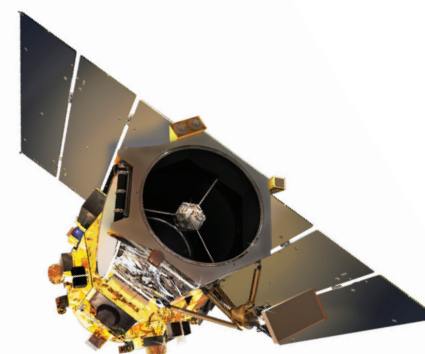


MAPPING THE EARTH'S OCEANS, WATERWAYS, PORTS AND HARBORS

GeoEye is a leading producer of satellite and geospatial information. We provide image-derived geospatial information and intelligence to commercial maritime organizations and government maritime authorities and navies. Our current satellite constellation of OrbView-2 and IKONOS will soon be augmented by the enhanced capacity of GeoEye-1, the world's first .41-meter color stereo imaging satellite, launching in 2008.

Since 1999, we have collected the largest archive of coastlines, lakes, rivers, navigable waterways, and ports and harbors around the world. Our constellation offers the best revisit time in the industry, so that during times of natural or man-made disasters we can supply new images of the areas affected in the shortest possible time.

GeoEye imagery can be used to make digital electronic charts (DNC) and electronic navigation charts (ENC), meeting the exacting requirements of the S-57 and DX-90 standards. Furthermore, with Stereo Imagery from our IKONOS and GeoEye-1 sensors, we can produce 3D geospatial databases for harbor planning, harbor construction, and ISPS security plan compliance—now mandated for all significant ports worldwide by the International Maritime Organization.



GeoEye-1 satellite, launching in 2008



This image of Venice, Italy showcases the ability of IKONOS to see up to 20 meters under water.



Port of Cape Town, South Africa



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SUPPORTING THE SHIPPING INDUSTRY WITH MARITIME GEOSPATIAL SOLUTIONS

Maritime Authorities

For maritime authorities, IKONOS Stereo imagery can be exploited to develop optimum vessel traffic patterns in coastal estuaries and harbor approaches. Changes to bathymetry and validation of bathymetry can be enhanced by imagery, which can “see” underwater up to 20 meters. This same information can form the foundation for creating or enhancing S-57/DX-90 electronic navigation charts (ENC), and is suitable for international hydrographic organization (IHO) for medium to large-scale charts of 1:2 million or larger.

Port & Harbor Authorities

For port and harbor authorities, IKONOS Stereo imagery can be exploited to optimize vessel traffic systems (VTS). For cargo and passenger operators, Stereo imagery can supplement ground surveys, and be used to compare as-built against to-build plans. Structures such as berths, wharfs, terminals, container facilities, break bulk facilities, moorings and breakwaters, can be identified with multispectral imagery. Changes detected in new imagery can be captured as graphical Notices to Mariners (NM) to the user community at these facilities. This would be suitable for IHO small-scale charts of less than 1:2 million.

Electronic Chart and Display Information System

For manufacturers of commercial and recreational moving map display systems, IKONOS imagery can be used to produce new or update existing S-57 charts with changes in local construction or dredging. In congested, high-traffic waterways, small changes in coastlines or facilities may cause disruptions to established navigation patterns.

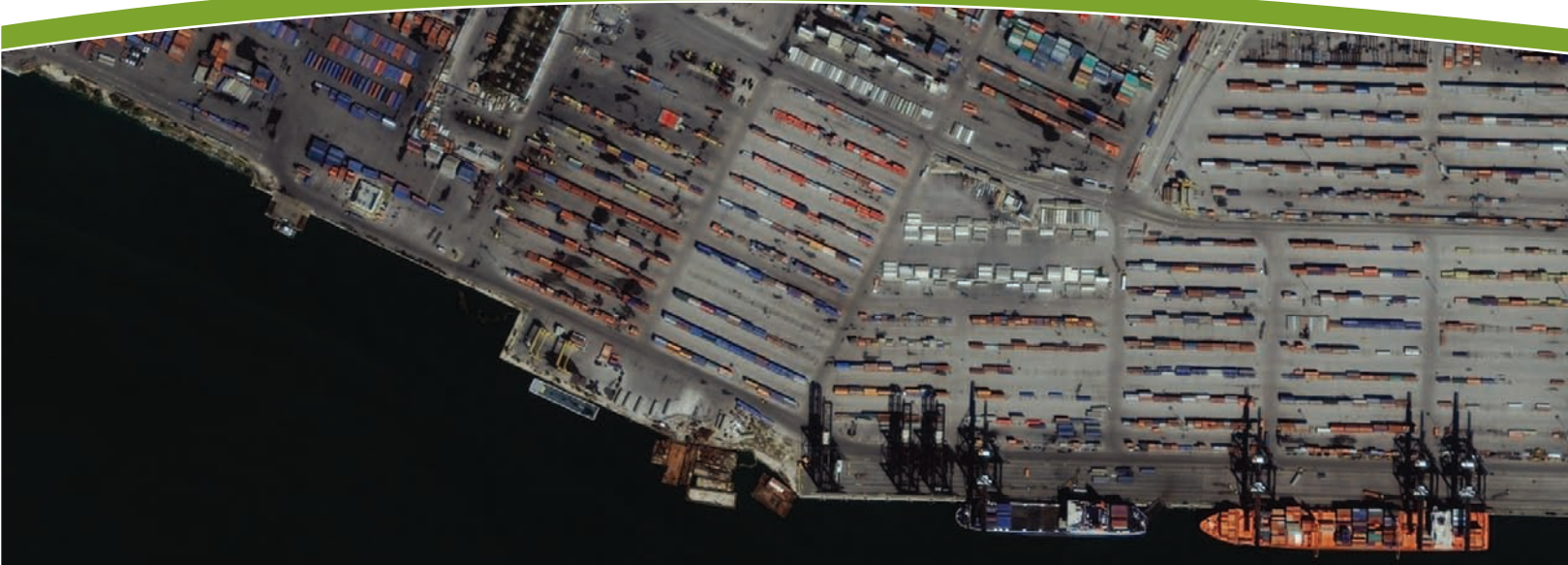
Visual Simulation Databases for Training

For navigator and harbor pilot training, orthorectified, tonally-balanced and mosaicked IKONOS imagery is the foundation for visual simulation databases. Integrated with coastline, port, and facility models and objects, GeoEye can deliver components or finished visual simulation databases. This is appropriate for all levels of bridge and harbor pilot training, and marine accident reconstructions for training purposes.

Note: All products available today from IKONOS in 1-meter resolution shall be available from the GeoEye-1 satellite in .41-meter resolution upon its launch. For details of the launch date, please visit www.geoeye.com.



Baltimore Harbor 3D building extraction for Port Security application.



This IKONOS image, showing details at berth in the Port of Miami, Florida, is used for marine and facilities mapping.

FREQUENTLY ASKED QUESTIONS

Can I purchase new images acquired by IKONOS?

Yes, you can order a new collection, which is routinely collected within 60 days for most of the world. In emergency situations, we can collect imagery within three days, such as a vessel in distress or aground on a reef. In these circumstances, when the vessel is on the open ocean, no other tool can collect new imagery as quickly.

Can I acquire multispectral, natural color or panchromatic imagery?

Yes, GeoEye can process IKONOS and GeoEye-1 (2008) satellite imagery for delivery in all of these combinations.

Can I extract 3D information from IKONOS imagery for my facilities?

Yes, the satellite can collect a stereo pair of images in a single pass. This allows users to extract all of the terrain relief for your port, harbor or area of interest, including the height of each individual building.

Can GeoEye assist me in the production of electronic navigation charts (ENC)?

Yes, our team has experience mapping ports, harbors, and other marine facilities for government and commercial customers.

Can I use IKONOS and GeoEye-1 imagery in moving map applications?

Yes, IKONOS and GeoEye-1 (2008) imagery products can be orthorectified for use in marine moving map applications. We have already accomplished this specific function with several vendors.



Sydney, Australia Harbor GIS database for adjacent neighborhood security and access routes.



IKONOS natural color image of Sydney, Australia harbor illustrating a broad mix of commercial shipping, passenger vessel and recreational boating activities.