

GIS DIGITAL ORTHOPHOTO HUDSON RIVER



TVGA was retained by Dames & Moore of Bethesda, MD, in association with the New York State Department of Environmental Conservation (NYSDEC), for digital orthophoto production services. The project involved flying color infrared aerial photography of the tidal wetlands of the Hudson River from Albany to Jamaica Bay, including all five boroughs of New York City. The digital orthophotos were used as a base layer in the NYSDEC GIS allowing for the study of changing environmental conditions of the Hudson River and its surrounding area. The aerial photography flights were scheduled to coordinate with low-tide conditions to allow for more accurate wetland delineations. In addition, TVGA developed viewable CD's utilizing image compression and viewing software (MrSID).

PROJECT HIGHLIGHTS:

Client:

Dames & Moore, Inc.

Contact:

Mr. Daniel M. Savercool
(301) 721-2242

Location:

New York City

Project Cost:

\$201,338

KEY PROJECT COMPONENTS:

- **Aerial Photography**
 - Color Infrared (CIR)
 - September/October 1999
 - 1"=1000'
 - 69 Flight Lines, 1326 Exposures
- **Airborne GPS**
 - Javad Legacy Receiver
 - Sandy Hook CORS Station
- **Scanning**
 - 42 Micron Resolution
- **Digital Orthophotos**
 - Seamless Coverage
 - 0.5-m Ground Pixel Resolution
 - Tiff Format With a World Tiff File