



Rhode Island LiDAR Extents

- PVD Water Supply
- Blackstone WS (RI only)
- RIARNG
- NGA
- FEMA
- ACOE
- NOAA CSC / USGS



LiDAR Data Characteristics for RI 2009

Source Agency/contractor	Purpose	Areas	Point Spacing	Accuracy Horizontal	Accuracy Vertical
NOAA, NASA, USGS (NASA) Sept 2000	Coastal erosion assessment	Narrow band of RI south shore Westerly to Little Compton	2m	80cm	15cm
NGA (Woolpert/SAIC) May 2004	City LiDAR Extraction	Providence, Quonset, Newport	1m	50cm	9cm
FEMA (Sanborn) Nov/Dec 2004	DFIRM Mapping	166 stream mile floodplain limits of Blackstone River	?	Products ≤ 6m based on meeting NSSDA @ 1:24,000	Products ≤ 36.6cm
Prov Water (Sanborn) Spring 2006	Subwatershed delineation	Scituate Reservoir watershed +1k buffer	1.4m	15cm	15cm
RIARNG (Fugro Earthdata) Fall 2006	Installation Mapping	Buck Hill, G. Washington, Arcadia, and Big River WMAs. Camp Fogarty and Quonset	3m	None given – meets NMAS according to Metadata doc.	Accuracy of ground control: 5cm
FEMA (Dewberry) Dec 2006	Flood mapping	All BI, coastal areas of Westerly, Charlestown NKingstown	1.25m	91cm	5.5cm
US Army Corps of Engineers (Sky Res.) Apr 2007	Formerly used defense sites	Parts of Westerly, Charlestown, Narragansett, Foster, NKingstown, Prudence I, Newport, Portsmouth	0.35m	33cm	15cm

LiDAR Derived Products for RI 2009

Source/Agency	1 st return	Intermediate returns	last return - bare earth	intensity	tree points	forest areas	2-D buildings	3-D buildings	contours
NOAA, NASA, USGS (NASA) Sept 2000	√		√	√					
NGA (Woolpert/SAIC) May 2004	√	√	√	√	√	√	√	√	
FEMA (Sanborn) Nov/Dec 2004			√						√
Prov Water (Sanborn) Spring 2006			√						√
RIARNG (Fugro Earthdata) Fall 2006	√		√√						
FEMA (Dewberry) Dec 2006	√		√						√
US Army Corps of Engineers (Sky Res.) Apr 2007			√√				√		√