

Available, In-process and Proposed VT Lidar. May 2013

Project ID	Project	Place Name (6 char)	Year	LIDAR Attr	Agency	Resolution pt spacing_m	Quality Level	RMSEz	DEM	DSM	nDSM	Contours	TIN	Point Cloud	Intensity	Classification	Area_sqMI*	Pct_VT	Src Z_Units	Fnl Z_Units	Src Prjctn	Fnl Prjctn	LAS PRJ	Processing Notes
1	Barre Montpelier	BrMont	2009	LIDAR covering the Barre-Montpelier area of Vermont	SAIC	1.00	2	15.00	1	0	0	0	0	0	1	0	74.0	0.8%	Mtrs		UTM Zn18 Mtrs			Dbl check all "0" Classification in red... how DSM & nDSM w/o it? Metadata - 18cm horiz, 7.6cm vert
2	Bennington Floodplain	BennFP	2007	1500 ft buffers surrounding the Walloomsac River, Batten Kill, and Winhall Rivers	VT ANR	1.00	3	18.50	0	0	0	1	1	1	1	1	17.0	0.2%	Feet		NAD83 VTSPC Feet			Review ~\Bare_Earth\ ~\Bennington_VT_50003C_20100820.gdb; FC "Project Area" = lidar pt extent for both combined & "pointfieldinformation2007" & "-2010"
3	Bennington Floodplain	BennFP	2010	1500 ft buffers	VT ANR	1.00	3	18.50	0	0	0	1	1	1	1	1	105.8	1.1%	Feet		NAD83 VTSPC Feet			
4	Bennington Hudson-Hoosic	HudHsc	2012	2012 FEMA REGION 2 FY12 LiDAR Task Order - Hudson-Hoosic Deerfield NY	FEMA	2.00	3	15.00	1	0	0	0	0	1	1	?	752.2	7.8%	Mtrs		UTM Zn18 Mtrs			Regen 2m DEM to 1.4m, gen 1.4m DSM
5	Chittenden Cty	ChitCty	2004	Chittenden Cty excluding Carlotte, Richmond, Huntington, Westfor, Underhill, and Bolton	CCMPO	3.00	3	18.00	1	1	1	0	0	1	1	0	403.1	4.2%	Mtrs		NAD83 VSC Mtrs			
6	Chittenden Floodplain	ChitFP	2007	1200 ft buffers surrounding the Browns River and Winooski River	FEMA	1.40	3	18.50	1	0	0	1	1	0	0	0	147.1	1.5%	Feet		NAD83 VSC Ft			no specific accuracy values just statement "The vertical accuracy of the source data meet or exceed vertical National Map Accuracy Standards for 2-foot contour mapping."
7	Essex Cty	EsxCty	2005	Essex Cty	NRCS	1.00	3	18.50	1	0	0	0	0	0	1	1	672.5	7.0%	Feet		UTM Zn19 Mtrs			Regen 3m DEM & DSM to 1m. LAS files projection currently undefined. No reported vert accuracy in meta, guessing it's 18.5cm level 3 as done in 2005
8	Interstate		2007	Approximately 100m buffer around the I-89 and I-91 interstates	VTrans	0.50			0	0	0	0	0	0	1	1	537.3	5.6%						
9	Missisquoi Lower	MsqLwr	2008	Rock River and Lower Missisquoi Watersheds	USGS	1.40	2	8.20	1	1	1	1	0	0	1	1	420.1	4.4%	Mtrs		NAD83 VSC Mtrs			Regen 1.4m DEM to common origin (registration pt); gen 1.4m DSM to same
10	Missisquoi Mid	MsqUpr	2010	Majority of the Missisquoi Basin not collected in 2008	USGS	1.40	3	18.50	1	1	1	1	0	0	1	1	572.0	5.9%	Mtrs		NAD83 VSC Mtrs			Regen 1.4m DEM to common origin (registration pt); gen 1.4m DSM to same
11	Rutland Floodplain	RutIFP	2007	Otter Creek and East Creek corridors	FEMA	1.40	3	18.50	1	0	0	1	1	0	0	0	78.9	0.8%	Feet		NAD83 VSC Ft			no specific accuracy values just statement "The vertical accuracy of the source data meet or exceed vertical National Map Accuracy Standards for 2-foot contour mapping."
12	Vtrans Corridors		2012	Approximately 1000m buffer around certain roads impacted by TS Irene	VTrans	0.60	2	9.25	1	0	0	0	0	0	1	0	141.4	1.5%						Requires haze removal
13	Washington Floodplain	WashFP	2007	Winooski River coordidor in Washington Cty	FEMA	1.40	3	18.50	1	0	0	1	1	0	0	0	75.3	0.8%						no specific accuracy values just statement "The vertical accuracy of the source data meet or exceed vertical National Map Accuracy Standards for 2-foot contour mapping."
14	Otter Creek	OtrCrk	2013	Otter cr x Rutland Cty & SW% Addison	USGS/ANR/LCBP/Vtrans/NRCS	0.70			1	?	?	?	?	?	?	1	1043.0	10.8%						USGS Level 2 spec: .7m DEM; 1' contour, 9.25cm vertical spec
15	Mad & Little River Watersheds	MRVWtr		Transportation flood resiliency in the Mad and Winooski River		0.70											184.0	1.9%						

53.6% **NOTE! This value does not account for overlap in data extents!**

NOTE*: Not all area calculations based on exact extent features ATM. Some source extents are flight path based.

Source: Original table from LiDAR_Extents_VT.shp sent by Jarlath O'Neil-Dunne of UVM-SAL, Fall 2012

Legend

- Not publicly available
- No Pt Cloud available
- Pt Cloud is available
- In process w/vendor
- Proposed

Product Overview - Check video for overview - <http://letters-sal.blogspot.com/2010/08/lidar-101-nyc-lidar-workshop.html>

0.29197

DEM - Digital Elevation Model ("bare earth" - Model keypoint class only)

DSM - Digital Surface Model

nDSM - "Normalized Digital Surface Model." DEM subtracted from the DSM - each pixel represents the height above ground, not above sea level.

Contours -

TIN - Triangulated Irregular Network

Feature Class - Features extracted from data, e.g., building outlines, roof sheds

Point Cloud - Source data

Intensity - Intensity is the strength of the signal returned to the sensor.

Classification - Derived from Intensity data? For example, Land Cover classifications.