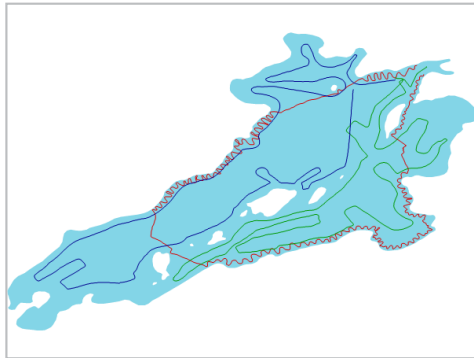


Malcom Lake, Frontenac Ontario

Waterbody Size: 218.42 ha (539.70 acres)



Data Collector

Jesse Vermaire

Data Collection Date

9/16/2015 3:15:32 PM (UTC)

Average Water Temperature

21.99° C (71.58° F)

Location

Start: 44.92114258,
-76.88647461

End: 44.92050171,
-76.88600922

Survey Size

Area: 97.63 ha
(241.24 acres)

Percent: 44.7% of waterbody
Volume: 2,284,662.40 cu. m
(1,852.21 acre ft)

Est. Waterbody Volume

5,111,313.30 cu. m
(4,143.81 acre ft)

Settings

Track Buffer: 25 m

Grid Cell Size: 5 m

Min. BV Detect: See Individual
Trips

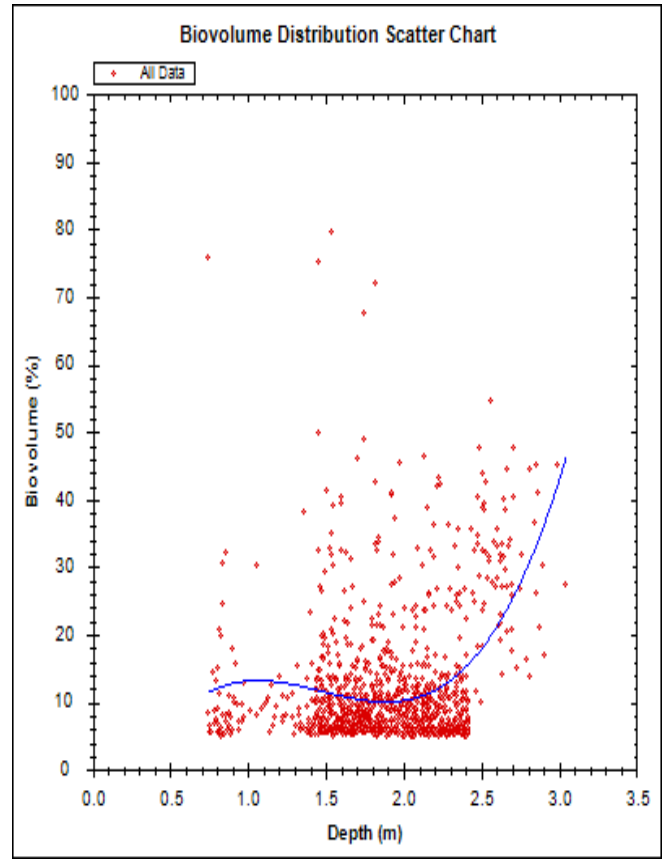
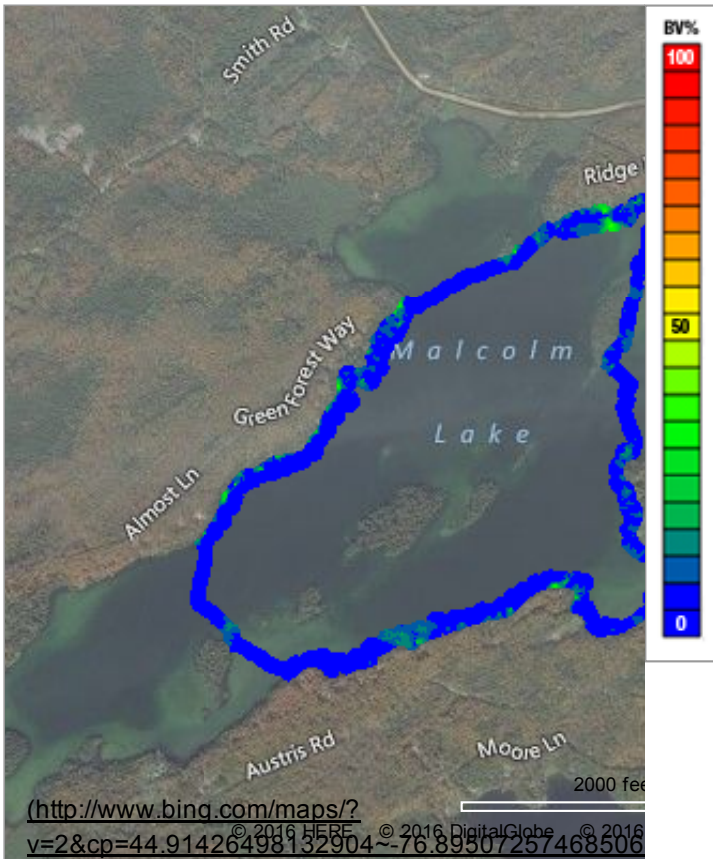
Min. Veg Depth: See Individual
Trips

Survey Summary

	Type	PAC	Avg BVp	SD BVp	Avg BVw	SD BVw	Depth Range	Avg Depth	Distance	No. Points
Full Survey	Point	25%	12.4%	±9.8%	3.1%	±7.3%	0.49-5.61 m	2.45 m	25.46 km	4,304
	Grid	21.3%	9.9%	±5.8%	2.1%	±4.8%	0-5.2 m	2.09 m	-	11,191

Area of Interest Summary

AOI	Type	PAC	Avg BVp	SD BVp	Avg BVw	SD BVw	Depth Range	Avg Depth	Distance	No. Points
1	Point	25%	12.4%	±9.8%	3.1%	±7.3%	0.49-5.28 m	2.5 m	8.95 km	4,304
	Grid	21.3%	9.9%	±5.8%	2.1%	±4.8%	0-5.2 m	2.09 m	-	11,180
2	Point	NaN%	NaN%	±NaN%	NaN%	±NaN%	0.62-5.58 m	2.36 m	8.08 km	0
	Grid	23.6%	10.7%	±6.8%	2.5%	±5.6%	0.59-4.47 m	2.09 m	-	2,106



Biovolume Analysis by Quantity

AOI	0-5%	5-20%	20-40%	40-60%	60-80%	>80%
1	74.98%	21.31%	3%	0.6%	0.12%	0%

Biovolume Analysis by Depth

AOI	Depth	Type	Count	PAC	Avg BVp	SD BVp	Avg BVw	SD BVw
1	0-1m	Point	385	13.5%	11.2%	±10.9%	1.5%	±5.5%
	1-2m		1183	47.8%	11.7%	±9.2%	5.6%	±8.6%
	2-3m		1181	38.8%	13.4%	±10.4%	5.2%	±9.2%
	3-4m		1053	0.1%	27.5%	±0%	0%	±0.8%
	4-5m		476	0%	-	-	0%	±0%
	5-6m		26	0%	-	-	0%	±0%
	6-7m		0	-	-	-	-	-
	7-8m		0	-	-	-	-	-
	8-9m		0	-	-	-	-	-
	>9m		0	-	-	-	-	-
1	0-1m	Grid	2898	21.1%	10.2%	±6%	2.2%	±5%
	1-2m		2854	39.8%	9.2%	±4.6%	3.7%	±5.4%
	2-3m		2463	24.7%	10.7%	±7.2%	2.6%	±5.8%
	3-4m		1979	1.6%	8.1%	±2.6%	0.1%	±1.1%

4-5m	964	0%	-	-	0%	±0%
5-6m	22	0%	-	-	0%	±0%
6-7m	0	-	-	-	-	-
7-8m	0	-	-	-	-	-
8-9m	0	-	-	-	-	-
>9m	0	-	-	-	-	-

AOI	Depth	Type	Count	PAC	Avg BVp	SD BVp	Avg BVw	SD BVw
2	0-1m	Point	0	-	-	-	-	-
	1-2m		0	-	-	-	-	-
	2-3m		0	-	-	-	-	-
	3-4m		0	-	-	-	-	-
	4-5m		0	-	-	-	-	-
	5-6m		0	-	-	-	-	-
	6-7m		0	-	-	-	-	-
	7-8m		0	-	-	-	-	-
	8-9m		0	-	-	-	-	-
	>9m		0	-	-	-	-	-
	0-1m	Grid	316	0%	-	-	0%	±0%
	1-2m		706	44.1%	9.3%	±3.9%	4.1%	±5.3%
	2-3m		682	27.4%	13%	±9.4%	3.6%	±7.6%
	3-4m		350	0%	-	-	0%	±0%
	4-5m		52	0%	-	-	0%	±0%
	5-6m		0	-	-	-	-	-
	6-7m		0	-	-	-	-	-
	7-8m		0	-	-	-	-	-
	8-9m		0	-	-	-	-	-
	>9m		0	-	-	-	-	-

Glossary

AOI

Area of Interest: Defines the individual transects or contiguous data samples as depicted by the color coding of each trip line. Separate areas of interest can be generated through merging of multiple trips, appending data to a single sonar log or lapses in time (greater than five minutes) within a sonar log.

BVp

Biovolume (Plant): Refers to the percentage of the water column taken up by vegetation when vegetation exists. Areas that do not have any vegetation are not taken into consideration for this calculation.

BVw

Biovolume (All water): Refers to the average percentage of the water column taken up by vegetation regardless of whether vegetation exists. In areas where no vegetation exists, a zero value is entered into the calculation, thus reducing the overall biovolume of the entire area covered by the survey.

PAC

Percent Area Covered: Refers to the overall surface area that has vegetation growing.

Grid

Geostatistical Interpolated Grid: Interpolated and evenly spaced values representing kriged (smoothed) output of aggregated data points. The gridded data is most accurate summary of individual survey areas.

Point

Individual Coordinate Point: A single point represents a summary of sonar pings and the derived bottom and canopy depths. Individual point data create an irregularly spaced dataset that may have overlaps and/or gaps in the data resulting in an increased potential for error.

Additional Information

No additional information

Report URL: <http://files.digitalmarine.com/s1/ReportOutput/8c4952df-f73f-434d-a447-4e3e0b4d5d6f/report.htm>
(<http://files.digitalmarine.com/s1/ReportOutput/8c4952df-f73f-434d-a447-4e3e0b4d5d6f/report.htm>)

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