

Supplementary Table 1. Recording locations (decimal degrees) and durations (dates) of imaging sonar videos in each river for each year. Average annual streamflow (discharge, m<sup>3</sup>/s) for each year in each river obtained from USGS gauges (Choptank River = no. 01491000, Deer Creek = no. 01580520, Marshyhope Creek = no. 01488500, Patapsco River = no. 01589035).

Stream	Latitude	Longitude	Year	Recording duration	Average annual streamflow (m <sup>3</sup> /s)
Choptank River	38.994918	-75.787096	2014	March 10 – June 4	5.3
			2015	March 13 – May 25	4.3
			2016	February 23 – May 31	3.8
			2017	February 16 – June 2	3.9
Deer Creek	39.617516	-76.191733	2015	March 23 – May 26	6.5
Marshyhope Creek	38.702080	-75.775368	2013	March 14 – May 30	1.6
			2014	April 11 – May 27	1.8
Patapsco River	39.216420	-76.705540	2016	March 11 – June 6	7.9
			2017	March 3 – June 6	3.4
			2018	March 6 – May 15	13.2
			2019	March 14 – May 24	19.4