

Long Baseline Navigation Activity

An AUV is navigating with LBL. The transponders A and B are 0.81 km apart. The speed of sound in water is 1500 m/s. Use the data provided to map the path of the AUV using the scale legend below.

Ping #	Ping round trip time in seconds		One way time to AUV		Distance to AUV in meters	
	Transponder A	Transponder B	Transponder A	Transponder B	Transponder A	Transponder B
1	0.340	0.753				
2	0.387	0.777				
3	0.464	0.819				
4	0.579	0.741				
5	0.693	0.676				
6	0.747	0.555				
7	0.813	0.436				

