

Graphing the Channel Bathymetry

Answer Key

This activity is intended to compliment USGS video created for Science Festival October 16, 2020

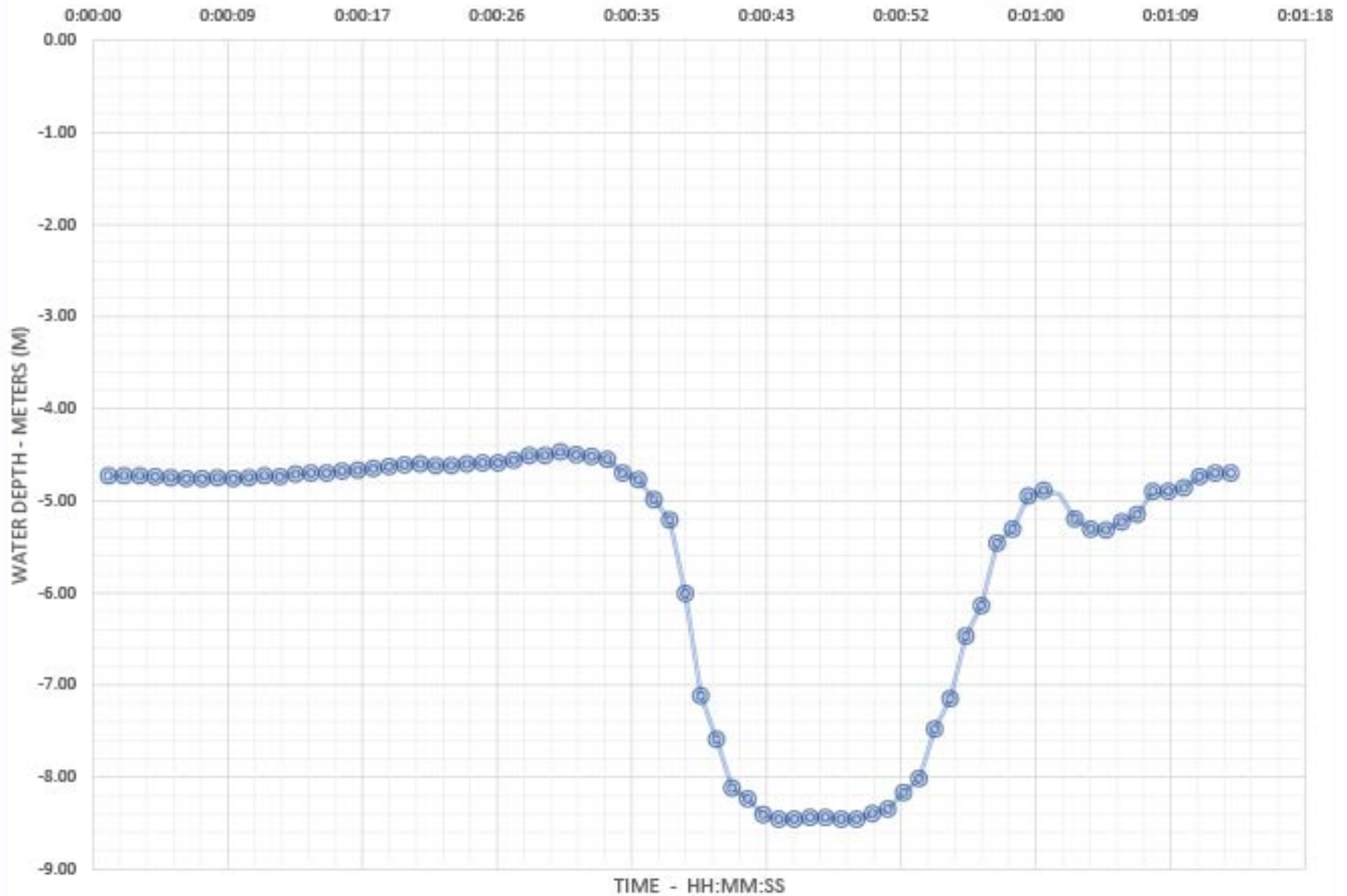
Can you test your skills at creating a channel with the data points that BJ collected? Using what you have learned from watching the video and listening to the explanations, give your own skills a try at plotting up the bathymetry data that BJ collected to see what your channel will look like.

Using bathymetry data in the table on page two. The right side of the table contains data from BJ's surveyed trackline from the North to South. He then turned the wave runner around 180 degrees and surveyed a trackline from the South to North (not in the same spot) and ending close to where he started.



BJ's North to South Bathymetry Data				BJ's South to North Bathymetry Data			
HH:MM:SS	Depth(M)	HH:MM:SS	Depth(M)	HH:MM:SS	Depth(M)	HH:MM:SS	Depth(M)
0:00:01	-4.73	0:00:39	-7.12	0:01:17	-4.55	0:01:55	-7.98
0:00:02	-4.73	0:00:40	-7.59	0:01:18	-4.55	0:01:56	-7.98
0:00:03	-4.73	0:00:41	-8.12	0:01:19	-4.53	0:01:57	-7.79
0:00:04	-4.74	0:00:42	-8.24	0:01:20	-4.53	0:01:58	-7.47
0:00:05	-4.75	0:00:43	-8.41	0:01:21	-4.51	0:01:59	-7.09
0:00:06	-4.76	0:00:44	-8.46	0:01:22	-4.48	0:02:00	-6.74
0:00:07	-4.76	0:00:45	-8.46	0:01:23	-4.45	0:02:01	-6.62
0:00:08	-4.75	0:00:46	-8.44	0:01:24	-4.44	0:02:02	-6.46
0:00:09	-4.76	0:00:47	-8.44	0:01:25	-4.44	0:02:03	-6.37
0:00:10	-4.75	0:00:48	-8.46	0:01:26	-4.4	0:02:04	-6.34
0:00:11	-4.73	0:00:49	-8.46	0:01:27	-4.39	0:02:05	-6.34
0:00:12	-4.74	0:00:50	-8.4	0:01:28	-4.38	0:02:06	-6.34
0:00:13	-4.71	0:00:51	-8.35	0:01:29	-4.38	0:02:07	-6.34
0:00:14	-4.7	0:00:52	-8.17	0:01:30	-4.41	0:02:08	-6.34
0:00:15	-4.7	0:00:53	-8.02	0:01:31	-5.17	0:02:09	-6.32
0:00:16	-4.68	0:00:54	-7.48	0:01:32	-5.5	0:02:10	-6.28
0:00:17	-4.67	0:00:55	-7.15	0:01:33	-5.9	0:02:11	-6.45
0:00:18	-4.65	0:00:56	-6.47	0:01:34	-6.35	0:02:12	-6.36
0:00:19	-4.63	0:00:57	-6.14	0:01:35	-6.84	0:02:13	-6.22
0:00:20	-4.61	0:00:58	-5.46	0:01:36	-7.3	0:02:14	-6.43
0:00:21	-4.6	0:00:59	-5.31	0:01:37	-7.69	0:02:15	-6.26
0:00:22	-4.62	0:01:00	-4.95	0:01:38	-7.98	0:02:16	-6.05
0:00:23	-4.62	0:01:01	-4.89	0:01:39	-8.26	0:02:17	-6.05
0:00:24	-4.6	0:01:02	-4.93	0:01:40	-8.33	0:02:18	-5.98
0:00:25	-4.59	0:01:03	-5.2	0:01:41	-8.39	0:02:19	-5.75
0:00:26	-4.59	0:01:04	-5.31	0:01:42	-8.44	0:02:20	-5.66
0:00:27	-4.56	0:01:05	-5.32	0:01:43	-8.46	0:02:21	-5.66
0:00:28	-4.51	0:01:06	-5.23	0:01:44	-8.44	0:02:22	-5.62
0:00:29	-4.51	0:01:07	-5.15	0:01:45	-8.43	0:02:23	-5.62
0:00:30	-4.47	0:01:08	-4.9	0:01:46	-8.43	0:02:24	-5.67
0:00:31	-4.5	0:01:09	-4.9	0:01:47	-8.45	0:02:25	-5.76
0:00:32	-4.52	0:01:10	-4.86	0:01:48	-8.47	0:02:26	-5.83
0:00:33	-4.55	0:01:11	-4.74	0:01:49	-8.48	0:02:27	-5.83
0:00:34	-4.7	0:01:12	-4.7	0:01:50	-8.47	0:02:28	-5.85
0:00:35	-4.77	0:01:13	-4.7	0:01:51	-8.43	0:02:29	-5.84
0:00:36	-4.99			0:01:52	-8.35	0:02:30	-5.84
0:00:37	-5.21			0:01:53	-8.26		
0:00:38	-6.01			0:01:54	-8.15		

BJ's Channel Survey Line - North to South



BJ's Channel Survey Line - South to North

