

Supplementary Table S1. Location and depth of stations where burrows were observed: USBL (seafloor) position data for the Ocean-Floor Observation System (OFOS) at three stations where burrows were observed and ship position data for epi-benthic sledge (EBS) deployment that collected the maerid amphipod specimen. Transects of the OFOS were approximately 1 km each, transect of the EBS was approximately 2 km.

	Time (UTC)	Latitude	Longitude	Depth (m)
OFOS (equipment position)				
Station 1 Start	28/07/2022 02:05	54- 33.219' N	172- 34.922' W	3512
Station 1 End	28/07/2022 04:10	54- 33.536' N	172- 34.273' W	3507
Station 2 Start	29/07/2022 02:58	54- 32.158' N	174- 37.532' W	3650
Station 2 End	29/07/2022 04:43	54- 32.498' N	174- 36.825' W	3653
Station 3 Start	30/07/2022 23:30	53- 48.314' N	173- 38.258' W	3588
Station 3 End	31/07/2022 01:32	53- 47.690' N	173- 38.262' W	3587
EBS (ship position)				
Station 1 Start (deployment)	27/07/2022 16:51	54- 31.423' N	172- 36.583' W	3516
Station 1 (EBS at seafloor)	27/07/2022 18:46	54- 32.142' N	172- 33.544' W	3499
Station 1 (end of transect)	27/07/2022 19:48	54- 32.527' N	172- 31.923' W	3502
Station 1 End (equipment on deck)	27/07/2022 22:04	54- 33.536' N	172- 34.273' W	3504