

SUPPLEMENTARY TABLES

Table UI. Number of videos obtained in each of the treatments experienced, number of kinematic acquisition and transport (a, t) events quantified within each treatment, and various size dimensions of the snowflake morays (*Echidna nebulosa*, n=7) that participated in the feeding trials from June 2014 to May 2020. \*Indicates individuals that were not included in statistical analyses because prey size was not comparable or because they only fed in the terrestrial treatment.

Individual	Treatments Experienced		Size Measurements (mm)			
	Terrestrial Total (a,t)	Aquatic Total (a,t)	Head Length	Head Height	Head Width	Standard Length
Benjen*	9 (6, 4)	4 (4,4)	42.5	24	22	520
Marsh	3 (3,3)	2 (2,2)	17	9	7.75	233
Qani	4 (4,4)	4 (4,4)	20.5	12	9	262
Jetsom	6 (4,5)	10 (8, 9)	28	16	11.5	314
Frosty	4 (4,4)	6 (6,6)	17	8.0	8.5	258
Flatsom*	7 (6,5)	0	25	12	9	288
LB*	8 (6,6)	0	27	12	11	296

Table U2. Summary of the four kinematic variables quantified in this study. Means and S.E. for jaw rotation angle, dorsoventral flexion angle of the head, the number of protraction-retraction behaviors, and total feeding time are reported within each treatment.\*Individual not included in statistical analyses due to differences in prey size. \*\*Individuals not included in statistical analyses because they only experienced terrestrial treatments.

Individual	Terrestrial Treatments				Aquatic Treatments			
	Jaw Rotation Angle (degrees)	Dorsoventral Flexion (degrees)	Number of protraction-retractions	Total Feeding Time (s)	Jaw Rotation Angle (degrees)	Dorsoventral Flexion (degrees)	Number of protraction retractions	Total Feeding Time (s)
Benjen*	16.8 ± 0.37	64.3 ± 8.8	2.15 ± 0.6	2.7 ± 1.2	17 ± 0.32	67.6 ± 7.5	1.8 ± .4	1.8 ± .60
Marsh	15.23 ± 0.18	45.3 ± 3.3	3.3 ± 0.6	3.3 ± .50	17.33± 0.32	63.4 ± 3.0	3.25 ± .5	3.9 ± 1.4
Qani	16.13 ± 0.09	59.4 ± 1.7	3.0 ± 0.8	2.3 ± .60	16.52 ± 0.82	61.3 ± 4.5	3.4 ± 1.0	2.5 ± .96
Jetsom	15.24 ± 0.23	65.6 ± 4.1	3.2 ± 0.8	3.8 ± 1.6	16.18 ± 0.73	59.9 ± 4.1	3.0 ± 1.2	3.5 ± 1.9
Frosty	15.07 ± 0.12	61.5 ± 1.8	4.0 ± 1.0	6.4 ± 2.0	16.41 ± 0.21	61.7 ± 6.1	2.9 ± .9	3.1 ± 1.3
Flatsom**	15.32 ± 0.31	56.6 ± 7.2	4.6 ± 1.6	5.5 ± 2.7	NA	NA	NA	NA
LB**	15.3 ± 0.41	69.3 ± 10.4	3.1 ± 1.5	4.9 ± 2.7	NA	NA	NA	NA

