

## <sup>1</sup> Supplementary Materials

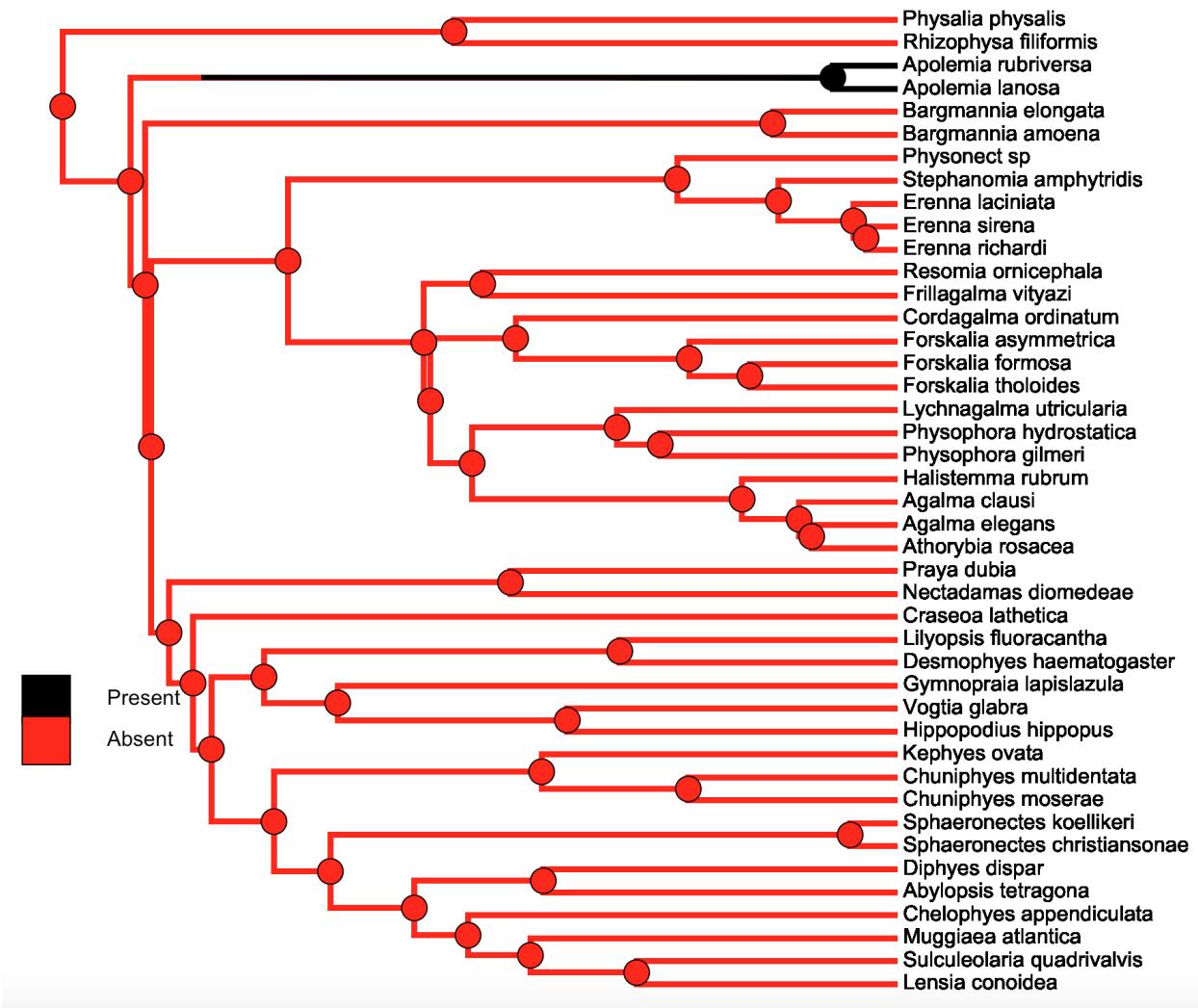


Figure 1: SIMMAP Tentilla presence/absence.

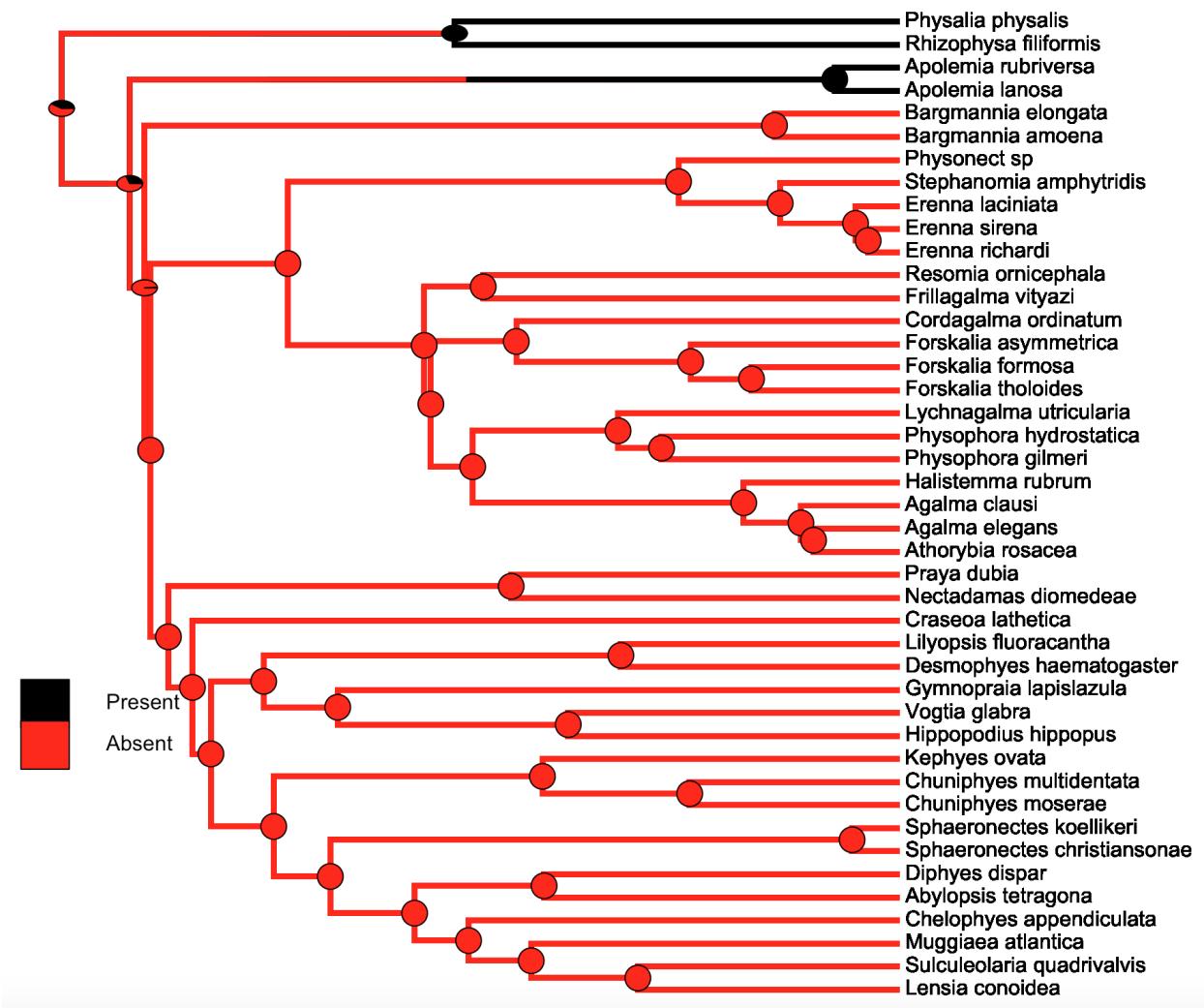


Figure 2: SIMMAP Cnidoband proximal heteroneme presence/absence.

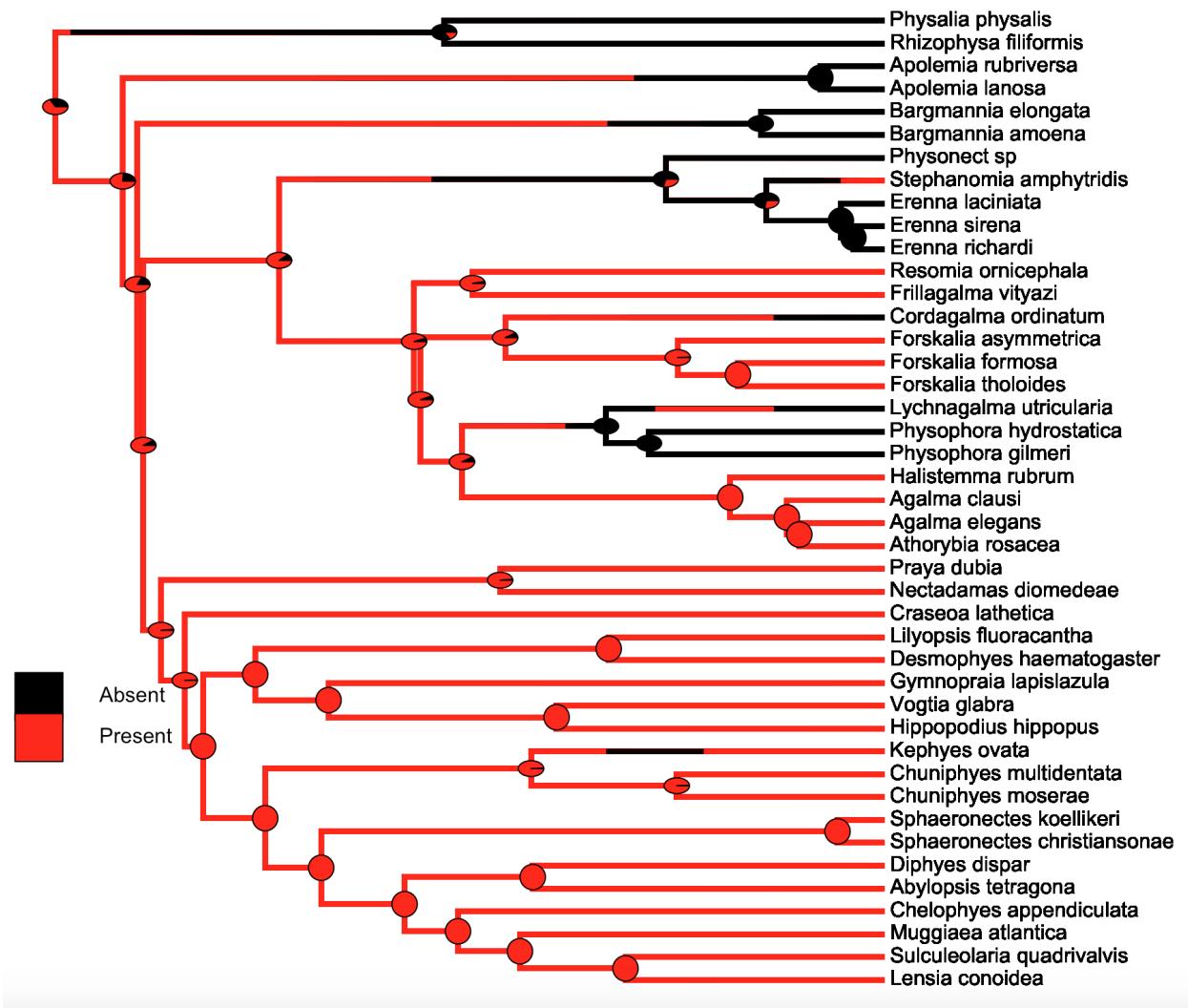


Figure 3: SIMMAP Desmoneme+Rhopaloneme presence/absence.

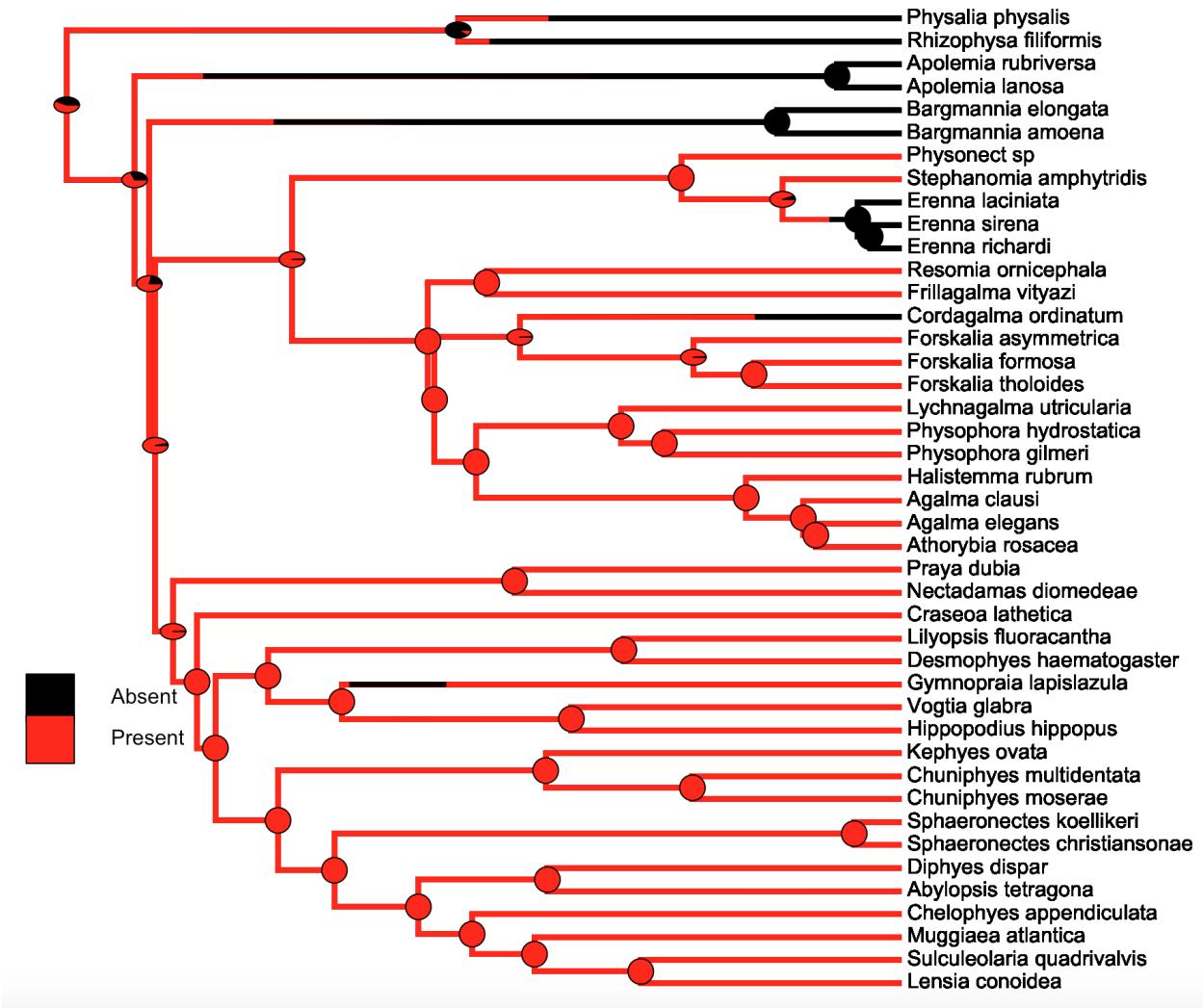


Figure 4: SIMMAP Actively discharging cnidobands presence/absence.

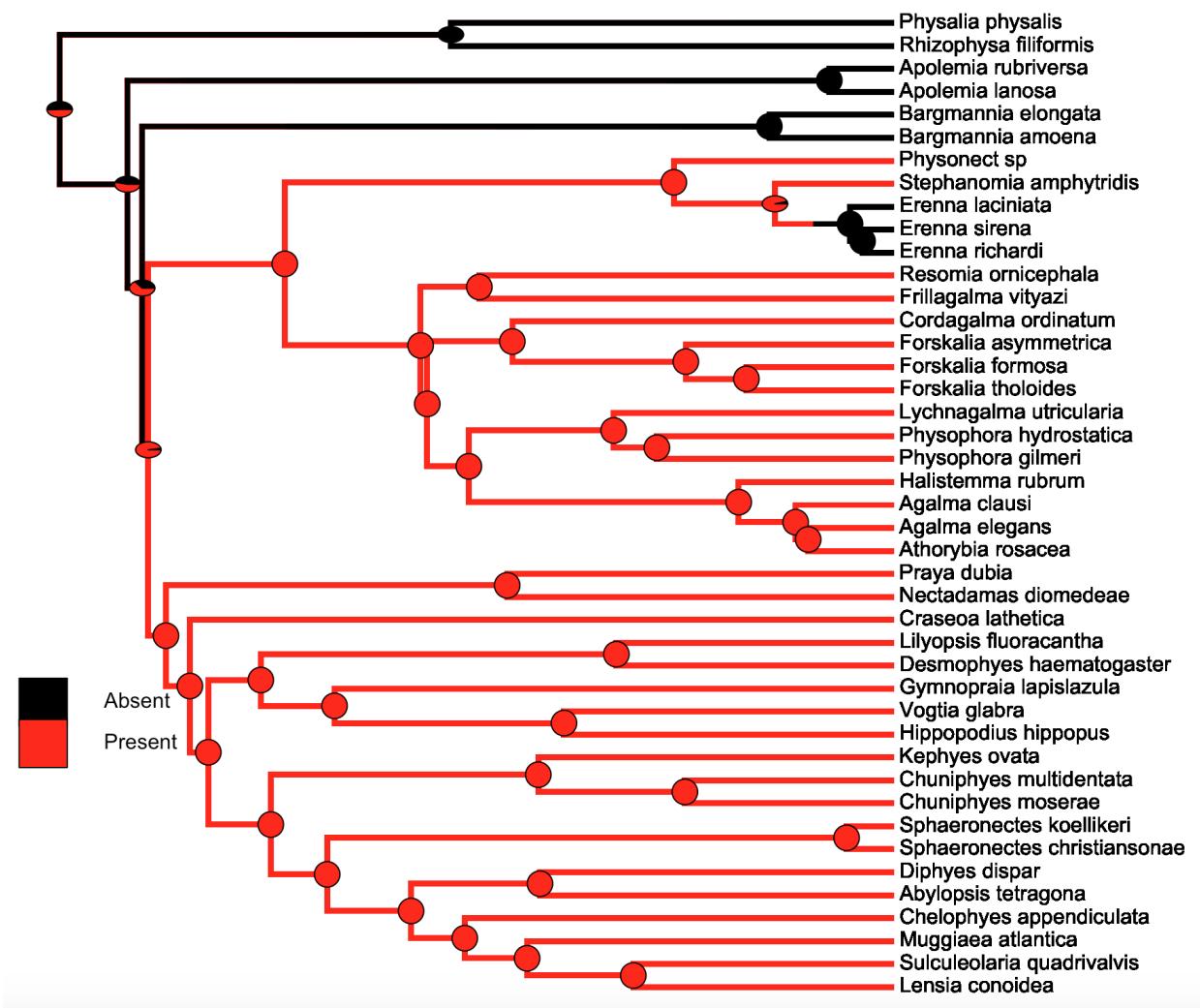


Figure 5: SIMMAP Elastic strands presence/absence.

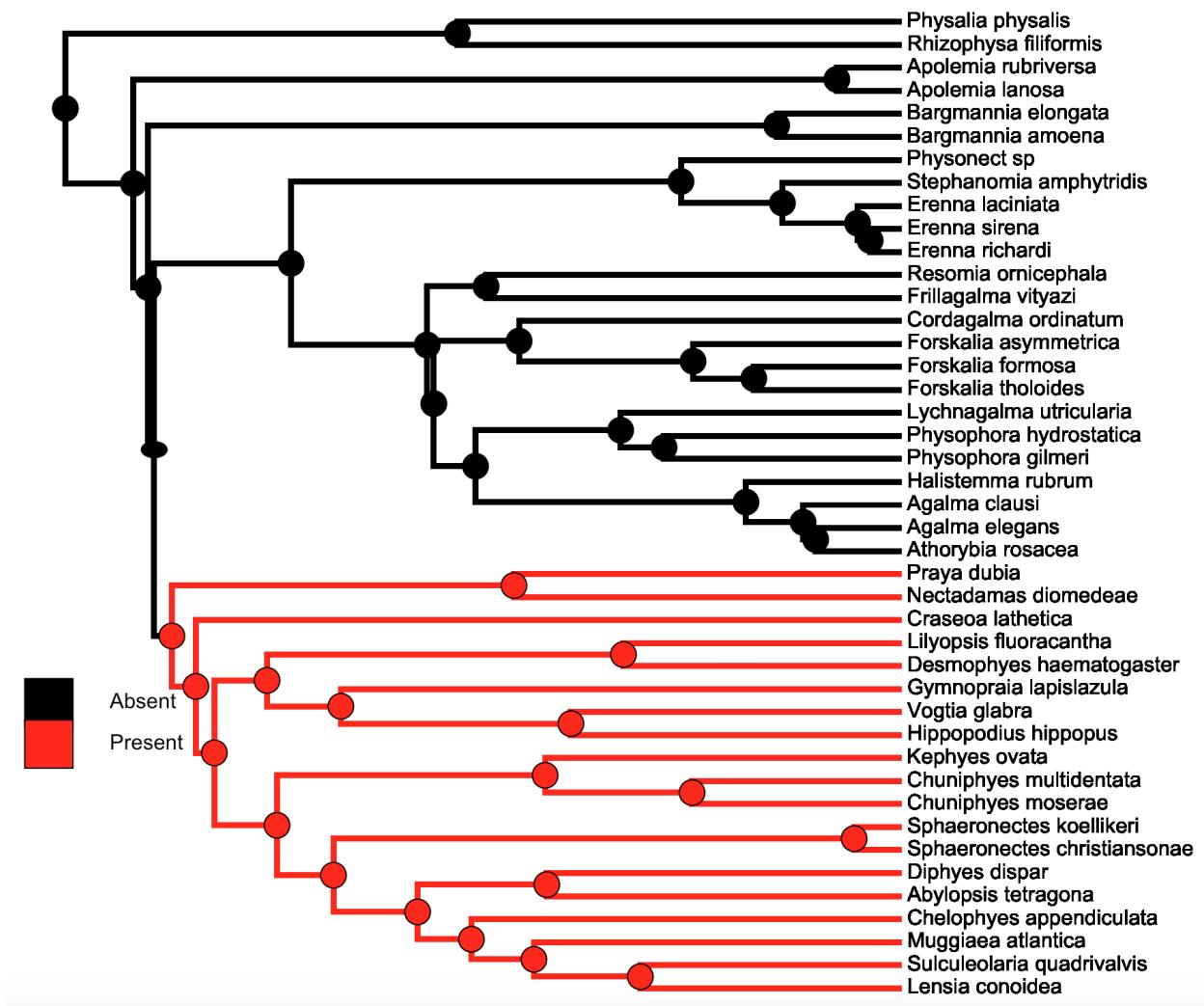


Figure 6: SIMMAP Cnidoband distal desmonemes presence/absence.

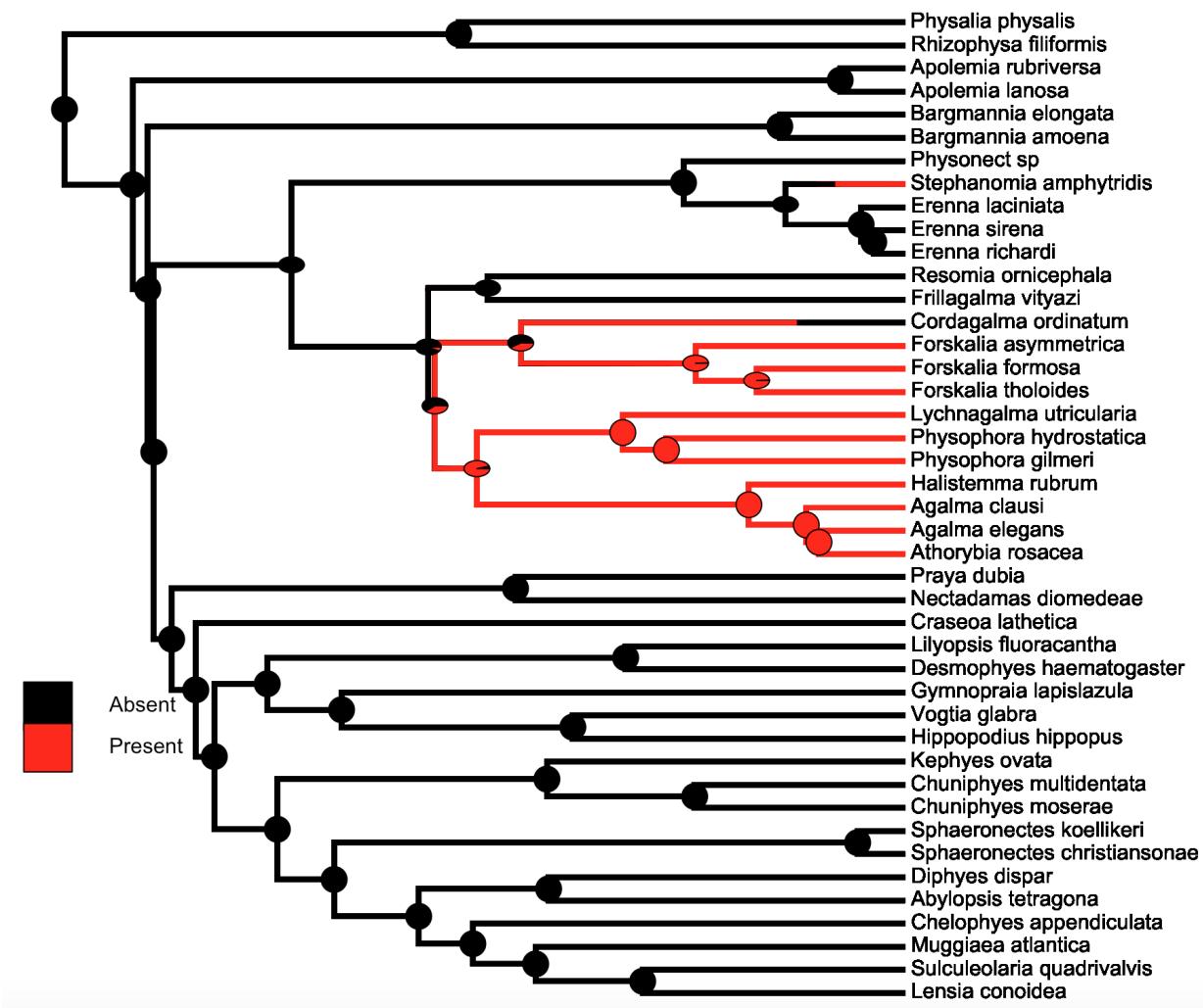


Figure 7: SIMMAP Coiled cnidoaband phenotype presence/absence.

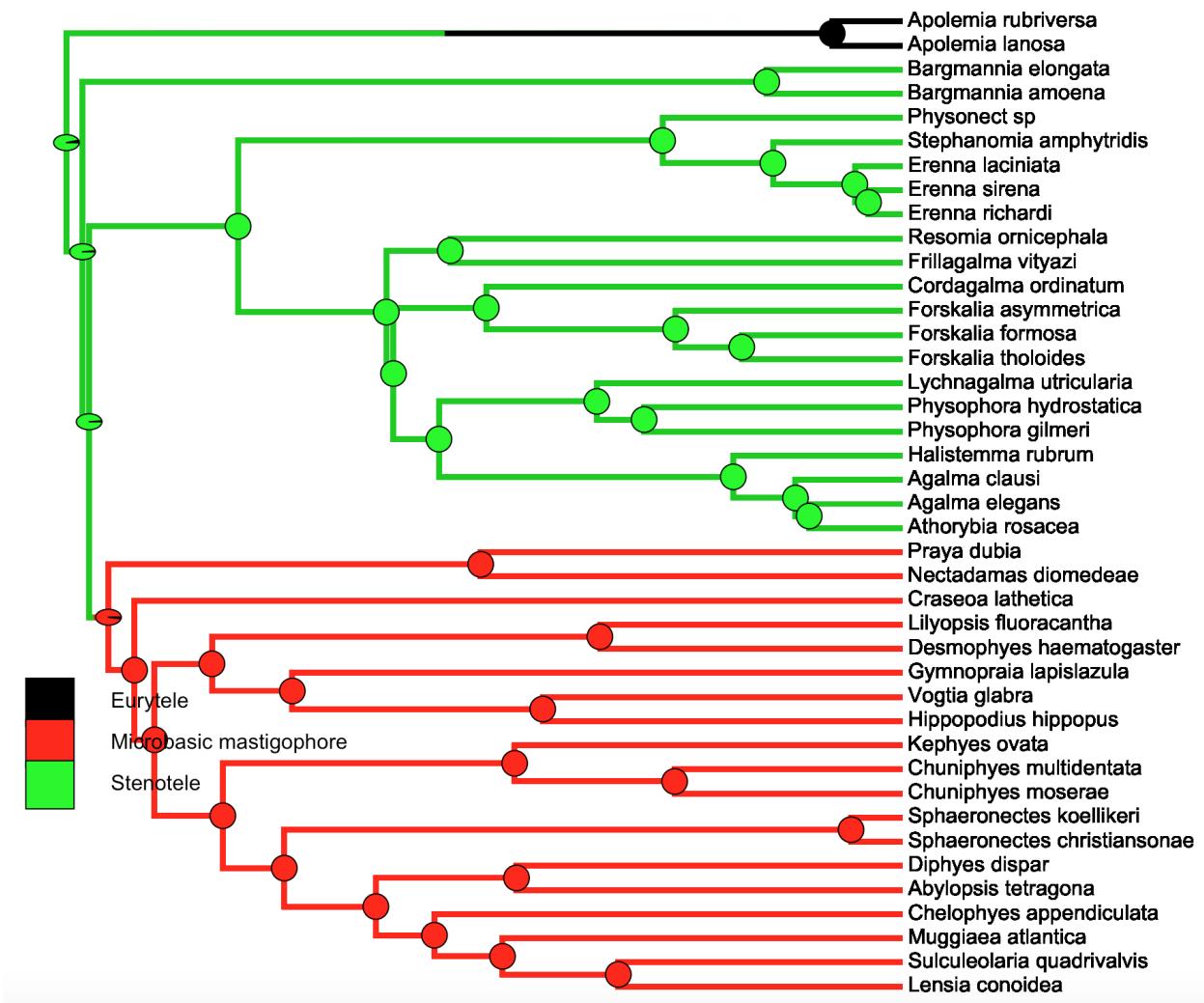


Figure 8: SIMMAP Heteroneme type.

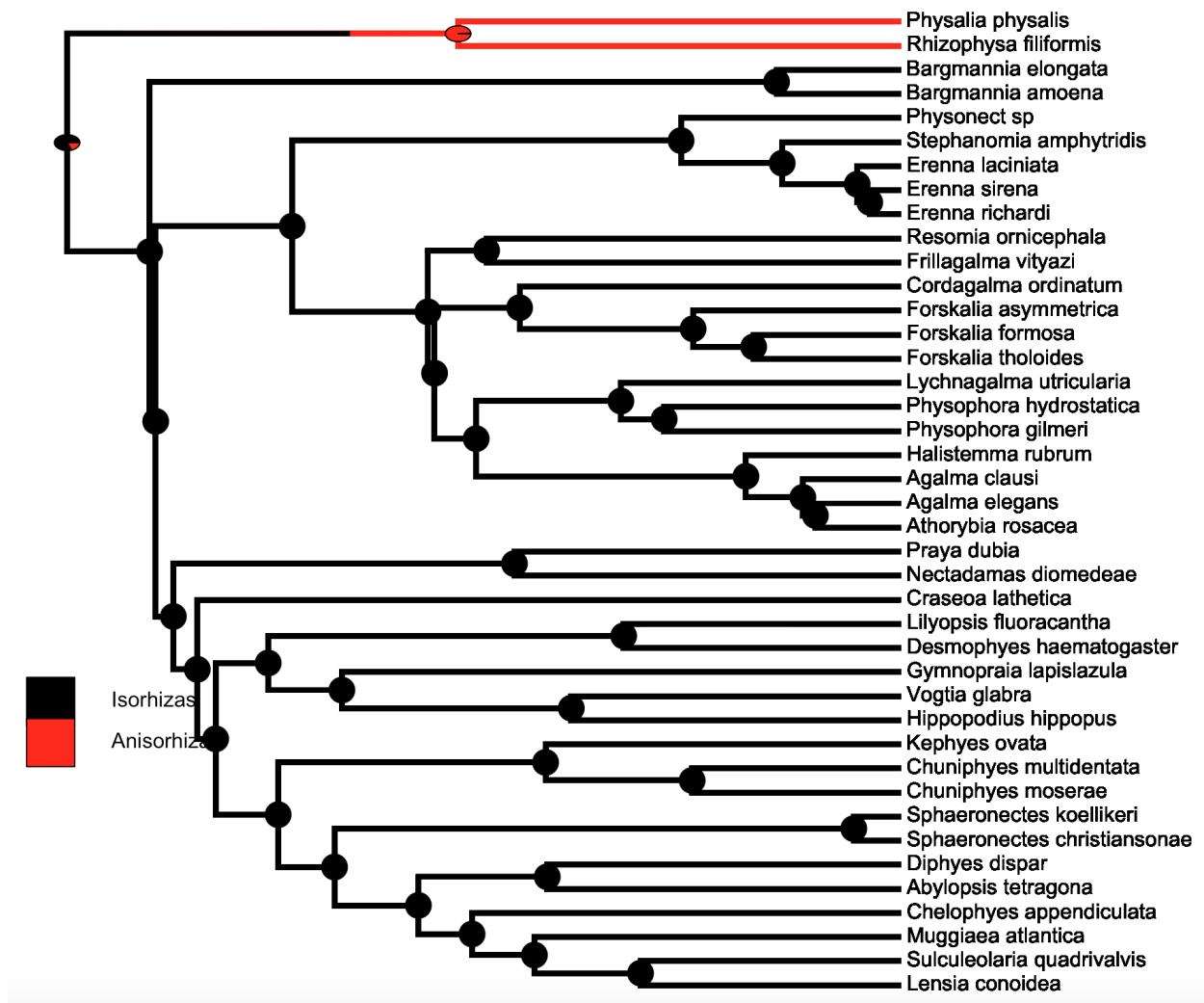


Figure 9: SIMMAP Haploneeme type.

Character	Non-Phylogenetic dAIC	BM dAIC	EB dAIC	OU dAIC	K	K p-value	Ntaxa
Haploneme elongation	0	2.017	4.332	2.38	0.583	0.001	43
Desmoneme elongation	0	3.232	5.693	3.183	0.018	0.864	31
Heteroneme shaft width $\mu\text{m}$	0	5.346	7.67	2.581	0.45	0.005	42
Elastic strand width $\mu\text{m}$	0	1526	3.938	1.296	0.706	0.001	34
Desmoneme length $\mu\text{m}$	0.518	0	2.46	0.578	0.566	0.002	31
Heteroneme shaft extension	0.589	0	2.324	1.965	0.041	0.970	42
Haploneme SA/V	0.91	0	2.315	2.291	0.156	0.132	43
Total heteroneme volume $\mu\text{m}^3$	0.961	0	2.352	2.328	0.248	0.046	39
Rhopaloneme width $\mu\text{m}$	1.205	0	2.46	1.321	0.308	0.123	31
Heteroneme volume $\mu\text{m}^3$	2.002	0	2.153	2.324	0.196	0.117	42
Involucrum length $\mu\text{m}$	2.479	0	2.498	2.492	0.529	0.001	29
Tentacle width $\mu\text{m}$	2.939	0	2.307	1.974	0.367	0.044	44
Cnidoband coiledness	3.077	0	2.315	1.786	0.174	0.043	43
Total haploneme volume $\mu\text{m}^3$	3.641	0	1.852	2.296	0.198	0.267	43
Cnidoband free length $\mu\text{m}$	3.801	0	2.132	2.315	0.325	0.007	43
Heteroneme free length $\mu\text{m}$	3.82	0	2.01	1.325	0.301	0.080	42
Rhopaloneme elongation	3.852	0	2.145	2.46	0.062	0.827	31
Desmoneme width $\mu\text{m}$	3.96	0	2.46	2.121	0.553	0.004	31
Cnidoband length $\mu\text{m}$	4.094	0	1.911	2.315	0.321	0.015	43
Heteroneme number	4.262	0	2.352	2.219	0.866	0.001	39
Heteroneme shaft free length $\mu\text{m}$	4.553	0	2.324	2.321	0.331	0.126	42
Rhopaloneme length $\mu\text{m}$	5.599	0	2.46	2.457	0.589	0.001	31
Heteroneme/Cnidoband length	5.671	0	1.862	2.342	1.068	0.001	42
Pedicle width $\mu\text{m}$	6.566	0	2.253	2.315	0.541	0.001	43
Haploneme width $\mu\text{m}$	7.495	0	2.218	2.304	0.553	0.001	43
Heteroneme width $\mu\text{m}$	7.53	0	2.324	1.647	0.502	0.001	42
Heteroneme elongation	14.169	0	0.819	2.23	0.508	0.001	42
Haploneme row number	19.566	0	2.114	2.315	0.442	0.001	43
Total nematocyst volume $\mu\text{m}^3$	21.007	0	2.213	2.292	1.3	0.001	45
Cnidoband width $\mu\text{m}$	5.69	0.307	0	2.623	0.374	0.001	43
Haploneme free length $\mu\text{m}$	12.337	7.125	0	9.439	1.079	0.001	43

Non-phylogenetic model supported

Brownian Motion model supported

Early Burst model supported

Figure 10: Model support (delta AICc), phylogenetic signal (Blomberg's K), and phylogenetic signal permutation test p-value for each continuous character. Ntaxa = Number of taxa used in the analyses after removing those where the character state is inapplicable or the data is missing.

Variable	Best model	Msig	Cvar	Svar	Sasr	Shgt	Dcfid
Desmoneme length $\mu\text{m}$	WN	0.889	0.224	0.084	0.32	0.146	0
Heteroneme shaft extension	WN	0.861	0	0.577	0	0.533	0.042
Total heteroneme volume	WN	0.895	0.577	0.006	0.026	0.078	0.603
Rhopaloneme width $\mu\text{m}$	WN	0.823	0.42	0.182	0.014	0.531	0.006
Haploneme free length $\mu\text{m}$	EB	0.841	0.052	0.036	0.168	0.226	0.843
Heteroneme volume $\mu\text{m}^3$	BM	0.855	0.731	0.228	0.897	0.775	0.104
Involucrum length $\mu\text{m}$	BM	0.839	0.01	0.018	0.116	0.09	0.987
Tentacle width $\mu\text{m}$	BM	0.817	0.841	0.402	0.386	0.785	0.48
Cnidoband coiledness	BM	0.873	0	0.028	0.016	0.144	0.41
Total haploneme volume	BM	0.807	0.228	0.004	0.006	0.024	0.398
Cnidoband free length $\mu\text{m}$	BM	0.825	0.076	0.002	0	0.006	0.681
Heteroneme free length $\mu\text{m}$	BM	0.859	0.392	0.386	0.056	0.591	0.284
Rhopaloneme elongation	BM	0.873	0.022	0.006	0.004	0.048	0.104
Desmoneme width $\mu\text{m}$	BM	0.813	0.877	0.531	0.014	0.941	0.014
Cnidoband length $\mu\text{m}$	BM	0.829	0.096	0	0	0.004	0.901
Heteroneme number	BM	0.823	0.312	0	0.004	0.02	0.869
Heteroneme shaft free length $\mu\text{m}$	BM	0.877	0.468	0.565	0.034	0.841	0.851
Rhopaloneme length $\mu\text{m}$	BM	0.829	0.525	0.547	0.01	0.917	0.08
Heteroneme/cnidoband length	BM	0.839	0.01	0	0.004	0.008	0.715
Cnidoband width $\mu\text{m}$	BM	0.907	0.977	0	0.002	0.01	0.11
Pedicle width $\mu\text{m}$	BM	0.817	0.931	0.476	0.088	0.969	0.813
Haploneme width $\mu\text{m}$	BM	0.881	0.805	0.12	0.294	0.511	0.15
Heteroneme width $\mu\text{m}$	BM	0.849	0.142	0.156	0.356	0.819	0.278
Heteroneme elongation	BM	0.933	0.094	0.07	0.681	0.791	0.777
Haploneme row number	BM	0.863	0	0.002	0.004	0.008	0.012
Total nematocyst volume	BM	0.809	0.521	0.024	0.016	0.198	0.837
Haploneme surface: volume	BM	0.831	0.945	0.130	0.503	0.426	0.170

Figure 11: P-values of the model adequacy score tests for the best model supported for each morphological character. Cvar = coefficient of variation of the absolute value of the contrasts. Svar = Slope of a linear model fitted to the absolute value of the contrasts against their expected variances. Sasr = slope of the contrasts against the ancestral state inferred at each corresponding node. Shgt = slope of the contrasts against node depth. Dcfid = Kolmogorov-Smirnov D-statistic comparing contrasts to a normal distribution with SD equal to the root of the mean of squared contrasts. P-values  $< 0.05$  were highlighted in grey, indicating significant deviations between the model and the observed data.

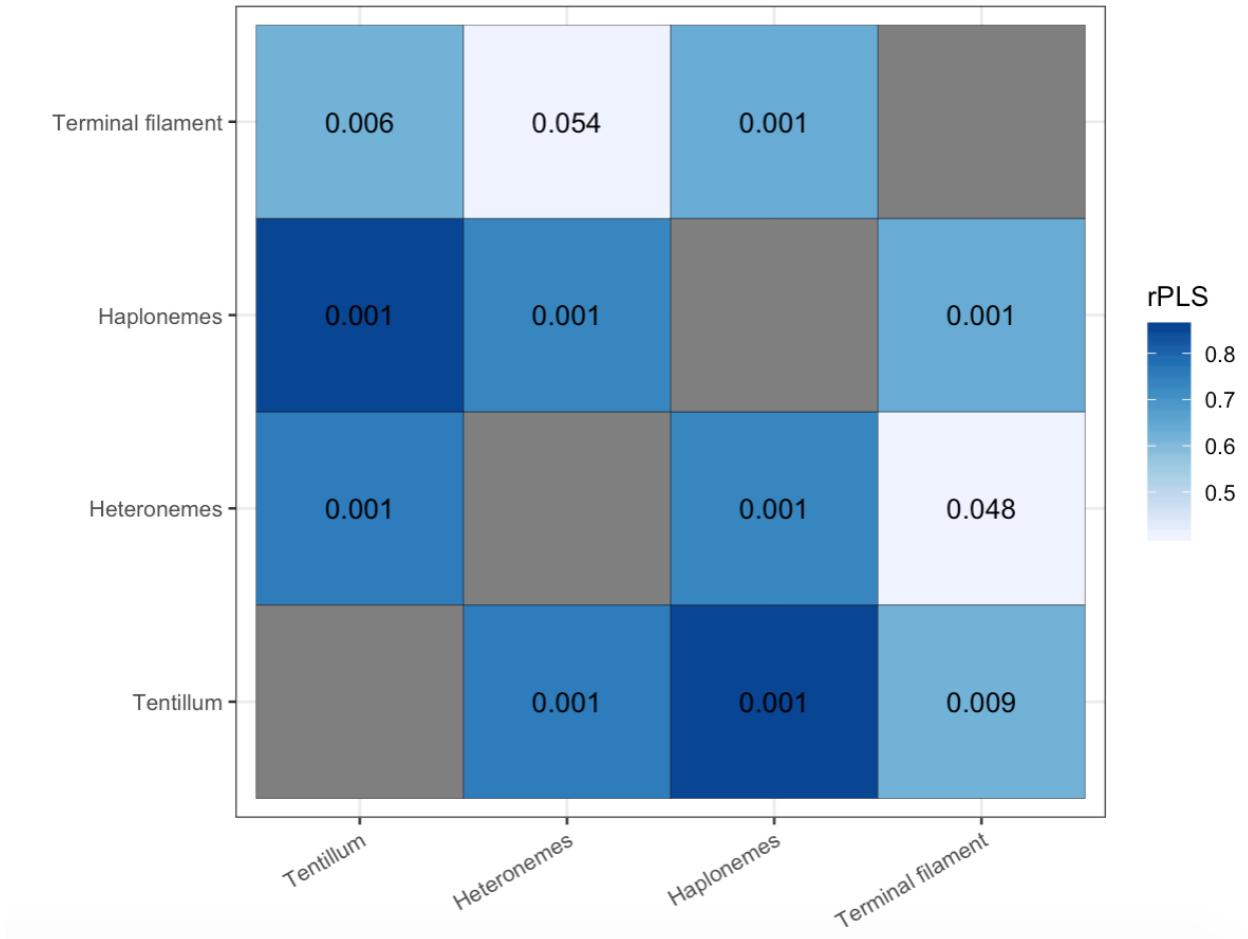
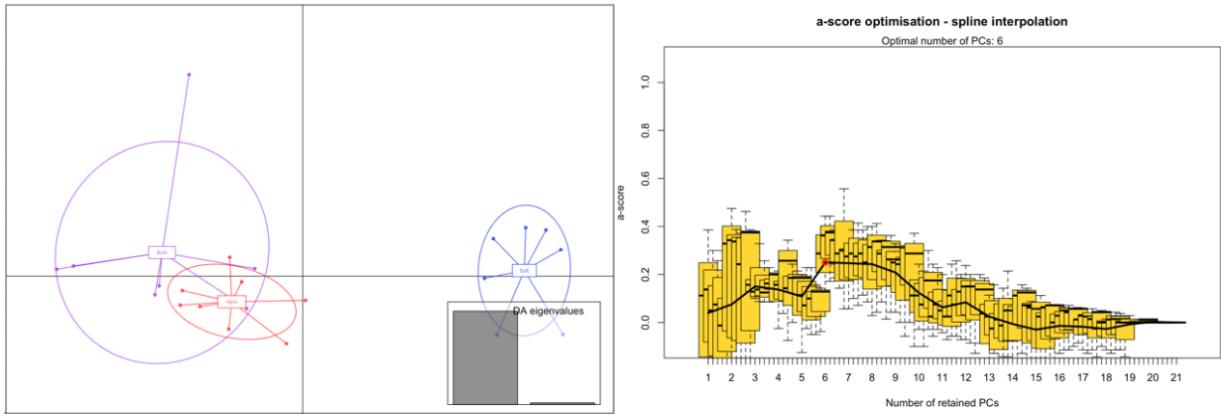


Figure 12: Heatmap showing the phenotypic integration between character modules accounting for phylogeny. Text in cells shows p-values. Color indicates the partial least squares (PLS) multivariate correlation coefficients.



### Variable contribution

Involucrum.length..um.	24.425696
Heteroneme.number	18.129947
Heteroneme.volume..um3.	6.849738
Tentacle.width..um.	6.587487
Total_nematocyst_volume	5.606488
total_haploneme_volume	4.185115
Elastic.strand.width..um.	3.584917
Heteroneme.free.length..um.	3.014292

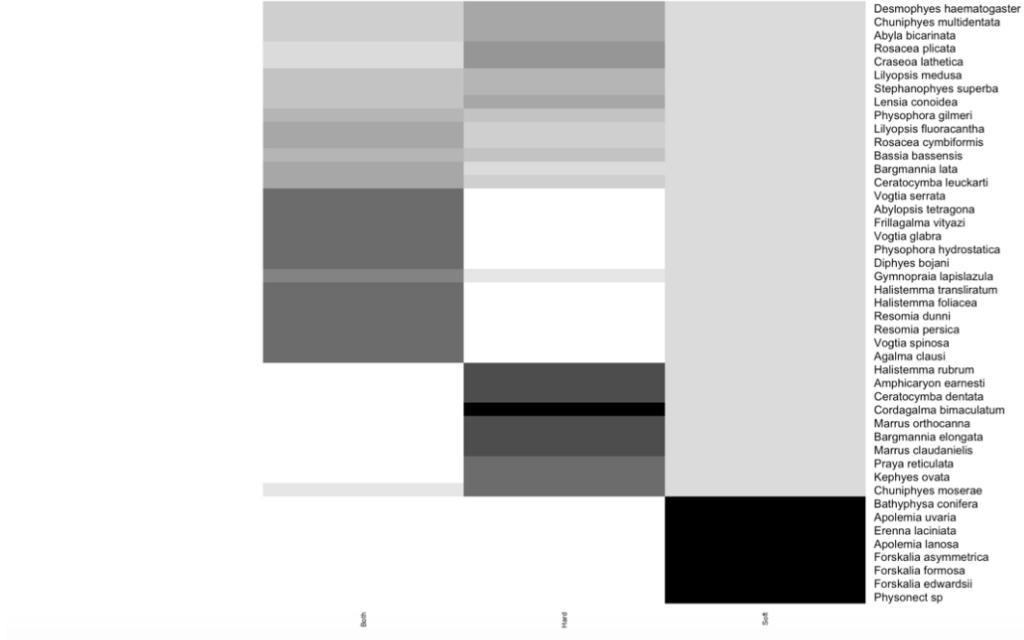


Figure 13: DAPC for soft-bodied vs. hard bodied prey specialization. Six PCs retained after a-score optimization (100 iterations). Two LDA functions used. Discriminant power on training set: 90.9%. Grayscale heat map shows the posterior probability distribution of the predictions. Variable contribution (top quartile) calculated by the sum of the LDA variable loadings weighted by the eigenvalue of each LDA.

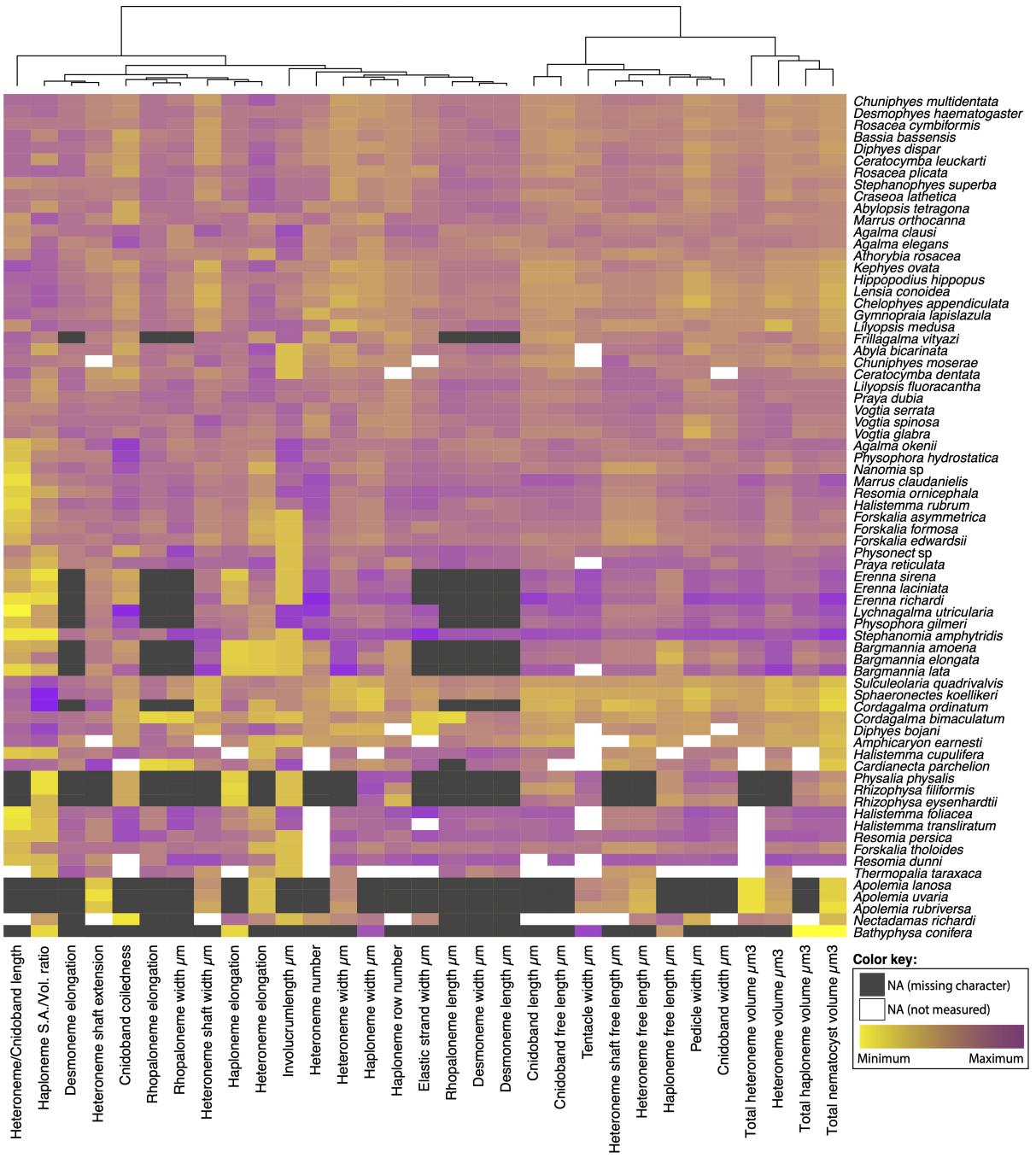


Figure 14: Heatmap summarizing the morphological diversity measured in Damian-Serrano *et al.* 2020 for 96 species of siphonophores clustered by similarity (raw data published in Damian-Serrano 2020). Missing values from absent characters presented as dark grey cells, missing values produced from technical difficulties presented as white cells. Values scaled by character.

**S1.1) Definitions of homologous structures used throughout this work.**

Structure	Definition
Haploneme	Nematocyst with no shaft
Heteroneme	Nematocyst with a distinct shaft
Desmoneme	Small oval/tapered adhesive nematocyst with thick coiled tubule
Rhopaloneme	Small rod-like nematocyst found on the terminal filament
Terminal filament	Distal extension of the tentillum beyond the cnidoband
Cnidoband	Distinct packing of nematocysts on the dorsal side of the tentillum
Tentacle	Tubular projection from the gastrozooid basigaster
Tentillum	Evenly spaced dorsal evagination of the tentacle carrying ordered and functional nematocysts
Involucrum	Extension of the pedicle covering part of the cnidoband
Pedicle	Proximal region of the tentillum between the cnidoband and the tentacle
Elastic strand	Mesoglea derived collagenous double strand underlying the cnidoband of some siphonophores

**S1.2) Definitions of the continuous morphological and kinematic characters measured.**

Character	Definition	Units
Cnidoband length	Distance from the base to the tip of the cnidoband in natural position	micrometers
Cnidoband free length	Distance from the base to the tip of the cnidoband when stretched straight	micrometers
Cnidoband width	Diameter of the cnidoband on the widest point	micrometers
Involucrum length	Length of the involucrum from the base of the cnidoband to its most distal extent	micrometers
Heteroneme length	Length of the heteronemes	micrometers
Heteroneme width	Diameter of the heteronemes at the widest point	micrometers
Heteroneme shaft length	Length of the heteroneme shaft	micrometers
Heteroneme shaft width	Width of the heteroneme shaft	micrometers
Heteroneme number	Number of heteronemes in each tentillum (# in each row*2)	micrometers
Haploneme length	Length of the haplonemes	micrometers
Haploneme width	Diameter of the haplonemes at the widest point	micrometers
Rhopaloneme length	Length of the rhopalonemes	micrometers
Rhopaloneme width	Diameter of the rhopalonemes at the widest point	micrometers
Desmoneme length	Length of the desmonemes	micrometers
Desmoneme width	Diameter of the cnidoband at the widest point	micrometers
Involucrum length	Length of the involucrum from the base of the cnidoband to its most distal extent	micrometers
Elastic strand width	Diameter of the descending elastic strand at the widest point	micrometers
Pedicle width	Diameter of the pedicle	micrometers
Tentacle width	Diameter of the tentacle	micrometers
Haploneme row number	Number of haploneme rows running parallel to the length of the cnidoband	micrometers
Cnidoband coiledness	Cnidoband free length / Cnidoband length	adimensional
Heteroneme elongation	Heteroneme Length/Width	adimensional
Haploneme elongation	Haploneme Length/Width	adimensional
Desmoneme elongation	Desmoneme Length/Width	adimensional
Rhopaloneme elongation	Rhopaloneme Length/Width	adimensional
Heteroneme shaft extension	Heteroneme shaft length / Heteroneme capsule length	adimensional
Nematocyst Surface area	$4\pi r^2 \left( ((Length/2)^2 * (Width/2)^2)^{1.6} + (((Width/2)^2)^2 * 1.6) / 3 \right)^{1/1.6}$	micrometers squared
Nematocyst volume	Ellipsoid formula : $(4/3)\pi r^3 (Length/2)^2 * (Width/2)^2$	micrometers cubed
Nematocyst SA/V ratio	Nematocyst surface area / Nematocyst volume	1/micrometers
Total haploneme volume	Haploneme volume * Haploneme row number * (Cnidoband free length / Haploneme width)	micrometers cubed
Total heteroneme volume	Heteroneme volume * Heteroneme number	micrometers cubed
Total nematocyst volume	Total haploneme volume + Total heteroneme volume	micrometers cubed

Figure 15: Character definitions.

SM16 Microscope slides and specimens measured. Catalog numbers correspond to accessions in the Yale Peabody Museum of Natural History, Invertebrate Zoology collection.

Slide_ID	Species	Specimen	Accession number	Catalog number
S2	<i>Abyla bicarinata</i>	BWP 2053-13	YPM.12903	TBD
M2	<i>Abylopsis tetragona</i>	VFSS 13-04-11	YPM.12903	TBD
R9	<i>Abylopsis tetragona</i>	VF#15	YPM.12903	TBD
T6	<i>Abylopsis tetragona</i>	SL0303S	YPM.12903	TBD
U6	<i>Abylopsis tetragona</i>	JSL I 2950-CG-7	YPM.12903	TBD
V6	<i>Abylopsis tetragona</i>	JSL I 2953-CG-3	YPM.12903	TBD
V4	<i>Agalma clausi</i>	BWP 1092-6	YPM.12903	TBD
H6	<i>Agalma elegans</i>	VF2016-5	YPM.12903	TBD
I6	<i>Agalma elegans</i>	SL0210	YPM.12903	TBD
I9	<i>Agalma elegans</i>	RI3-7-18	YPM.12903	TBD
J6	<i>Agalma elegans</i>	BWD100212MB	YPM.12903	TBD
Q2	<i>Agalma elegans</i>	SL0205T	YPM.12903	TBD
B9	<i>Agalma okenii</i>	BWP 786-19	YPM.12903	TBD
C9	<i>Agalma okenii</i>	BWP 792-36	YPM.12903	TBD
D9	<i>Agalma okenii</i>	D724-BW3-3	YPM.12903	TBD
H9	<i>Agalma okenii</i>	D723-BW3-1	YPM.12903	TBD
O1	<i>Agalma okenii</i>	BWP 565-5	YPM.12903	TBD
P2	<i>Amphicaryon ernestii</i>	Discovery St. 7856#24	YPM.12903	TBD
B11	<i>Apolemia lanosa</i>	D1024-D1	YPM.12738	TBD
M3	<i>Apolemia lanosa</i>	D858-D6	YPM.12903	TBD
O7	<i>Apolemia lanosa</i>	D614-D2	YPM.12903	TBD
P7	<i>Apolemia lanosa</i>	D668-SS1	YPM.12903	TBD
Q7	<i>Apolemia lanosa</i>	D552-SS8	YPM.12903	TBD
A9	<i>Apolemia rubriversa</i>	D558-D4	YPM.12903	TBD
D8	<i>Apolemia rubriversa</i>	D651-D5	YPM.12903	TBD
H10	<i>Apolemia rubriversa</i>	D551-D5	YPM.12903	TBD
O10	<i>Apolemia rubriversa</i>	T673-D2	YPM.12903	TBD
Q3	<i>Apolemia rubriversa</i>	D668-D7	YPM.12903	TBD

Slide_ID	Species	Specimen	Accession number	Catalog number
F4	<i>Apolemia uvaria</i>	NorthBergen 12-01-97	YPM.12903	TBD
N6	<i>Athorybia rosacea</i>	D725-BW4-7	YPM.12903	TBD
O6	<i>Athorybia rosacea</i>	BWP 1035-18	YPM.12903	TBD
P6	<i>Athorybia rosacea</i>	BWP ATR-1010	YPM.12903	TBD
Q9	<i>Athorybia rosacea</i>	BWP 451	YPM.12903	TBD
T2	<i>Athorybia rosacea</i>	BWP 1036-10	YPM.12903	TBD
E2	<i>Bargmannia amoena</i>	D861-D12	YPM.12903	TBD
E9	<i>Bargmannia amoena</i>	JSL II 992-CGP3	YPM.12903	TBD
F1	<i>Bargmannia amoena</i>	D861-D12	YPM.12903	TBD
F9	<i>Bargmannia amoena</i>	JSL II 995-D3	YPM.12903	TBD
U8	<i>Bargmannia amoena</i>	JSL I 2657-D8	YPM.12903	TBD
H3	<i>Bargmannia elongata</i>	D494-SS9	YPM.12903	TBD
J8A-B	<i>Bargmannia elongata</i>	D328_SS12	YPM.12903	TBD
K8	<i>Bargmannia elongata</i>	D856-D3	YPM.12903	TBD
L8	<i>Bargmannia elongata</i>	D960-SS3	YPM.12903	TBD
W4	<i>Bargmannia elongata</i>	D554-SS3	YPM.12903	TBD
Y2	<i>Bargmannia elongata</i>	D153-SS1	YPM.12903	TBD
A2	<i>Bargmannia lata</i>	D555-SS1	YPM.12903	TBD
W3	<i>Bassia bassensis</i>	BWP 1497-15+16	YPM.12903	TBD
H4	<i>Cardianecta parchelion</i>	JSL I 2633-DS1	YPM.12903	TBD
Z1	<i>Ceratocymba dentata</i>	BWP 933-2	YPM.12903	TBD
W1	<i>Ceratocymba leuckarti</i>	BWP 1034-4	YPM.12903	TBD
D11	<i>Chelophyes appendiculata</i>	D1019-BW01	YPM.12738	TBD
L7	<i>Chelophyes appendiculata</i>	BWP 24052004	YPM.12903	TBD
M7	<i>Chelophyes appendiculata</i>	VF2016-82	YPM.12903	TBD
N7	<i>Chelophyes appendiculata</i>	VF#4	YPM.12903	TBD
S3	<i>Chelophyes appendiculata</i>	V14	YPM.12903	TBD
X5	<i>Chuniphyes moserae</i>	D959-SS3	YPM.12903	TBD
C3	<i>Chuniphyes multidentata</i>	D494-SS8	YPM.12903	TBD
W8	<i>Chuniphyes multidentata</i>	D493-SS2	YPM.12903	TBD

Slide_ID	Species	Specimen	Accession number	Catalog number
W9	<i>Chuniphyes multidentata</i>	D107-S9	YPM.12903	TBD
X10	<i>Chuniphyes multidentata</i>	D1023-SS12	YPM.12738	TBD
Y10	<i>Chuniphyes multidentata</i>	D1025-SS9	YPM.12738	TBD
R4	<i>Cordagalma bimaculatum</i>	T1043-D1	YPM.12903	TBD
F10	<i>Cordagalma ordinatum</i>	GOC D728-BW7-3	YPM.12903	TBD
G8	<i>Cordagalma ordinatum</i>	Oceanus 368-25-19A BWP	YPM.12903	TBD
K11	<i>Cordagalma ordinatum</i>	BWP 816-6	YPM.12903	TBD
I8	<i>Cordagalma ordinatum</i>	VFSM - Totton spec. C00	YPM.12903	TBD
O4	<i>Cordagalma ordinatum</i>	BWP 370-6-6	YPM.12903	TBD
J4	<i>Craseoa lathetica</i>	D497-SS6	YPM.12903	TBD
T9	<i>Craseoa lathetica</i>	D330-S11	YPM.12903	TBD
U3	<i>Craseoa lathetica</i>	D497-SS6	YPM.12903	TBD
U7	<i>Craseoa lathetica</i>	T1043-SS7	YPM.12903	TBD
V7	<i>Craseoa lathetica</i>	D614-D4	YPM.12903	TBD
W7	<i>Craseoa lathetica</i>	D611-SS7	YPM.12903	TBD
E10	<i>Desmophyes haematogaster</i>	T847-D5	YPM.12903	TBD
G10	<i>Desmophyes haematogaster</i>	T854-D5	YPM.12903	TBD
J2	<i>Desmophyes haematogaster</i>	V2716-SS2	YPM.12903	TBD
V8	<i>Desmophyes haematogaster</i>	V3642-SS3	YPM.12903	TBD
Y1	<i>Diphyes bojani</i>	BWP 1060-2	YPM.12903	TBD
A3	<i>Diphyes dispar</i>	RI8-27	YPM.12903	TBD
K9	<i>Diphyes dispar</i>	BW1-2 17Sept2014	YPM.12903	TBD
W6	<i>Diphyes dispar</i>	BWP 567-16	YPM.12903	TBD
X6	<i>Diphyes dispar</i>	D667-BW4-3	YPM.12903	TBD
Y6	<i>Diphyes dispar</i>	BWP 1503-2	YPM.12903	TBD
E11	<i>Erenna laciniata</i>	D1024-D4	YPM.12738	TBD
G4	<i>Erenna laciniata</i>	JSL II 1688-SS3	YPM.12903	TBD
L11	<i>Erenna laciniata</i>	D325-SS1	YPM.12903	TBD
Q10	<i>Erenna richardi</i>	V2243-D? 1003m	YPM.12903	TBD
W2	<i>Erenna richardi</i>	JSL II D1456-DS1	YPM.12903	TBD

Slide_ID	Species	Specimen	Accession number	Catalog number
L5	<i>Erenna sirena</i>	D860-D6	YPM.12903	TBD
W0	<i>Erenna sirena</i>	D860-D6	YPM.12903	TBD
K6	<i>Forskalia asymmetrica</i>	JSL I 1407-D8	YPM.12903	TBD
L6	<i>Forskalia asymmetrica</i>	JSL II 1684-D1	YPM.12903	TBD
P10	<i>Forskalia asymmetrica</i>	JSL II 1680-D4	YPM.12903	TBD
U1	<i>Forskalia asymmetrica</i>	T595-SS3	YPM.12903	TBD
G11	<i>Forskalia asymmetrica</i>	JSL II 987-D7	YPM.12903	TBD
C6	<i>Forskalia edwardsii</i>	BWP 529 For39	YPM.12903	TBD
D6	<i>Forskalia edwardsii</i>	BWP 599-21 For13	YPM.12903	TBD
L9	<i>Forskalia edwardsii</i>	D722-BW1-1	YPM.12903	TBD
V1	<i>Forskalia edwardsii</i>	BWP 1042-6	YPM.12903	TBD
B6	<i>Forskalia edwardsii</i>	BWP 542-15	YPM.12903	TBD
R3	<i>Forskalia formosa</i>	D666-D11	YPM.12903	TBD
L3	<i>Forskalia tholoides</i>	BWP 1072-2	YPM.12903	TBD
E6	<i>Frillagalma vityazi</i>	D964-D8	YPM.12903	TBD
F6	<i>Frillagalma vityazi</i>	D665-D4	YPM.12903	TBD
G6	<i>Frillagalma vityazi</i>	D457-SS3	YPM.12903	TBD
H1	<i>Frillagalma vityazi</i>	D858-SS4	YPM.12903	TBD
P9	<i>Frillagalma vityazi</i>	D556-D3	YPM.12903	TBD
I10	<i>Gymnopraia lapislazula</i>	V4098-D4	YPM.12940	TBD
U10	<i>Gymnopraia lapislazula</i>	D1020-SS1	YPM.12738	TBD
V10	<i>Gymnopraia lapislazula</i>	D1022-SS3	YPM.12738	TBD
W10	<i>Gymnopraia lapislazula</i>	D1022-SS5	YPM.12738	TBD
W5	<i>Gymnopraia lapislazula</i>	D965-D4	YPM.12903	TBD
I3	<i>Halistemma cupulifera</i>	Discovery St. 3185	YPM.12903	TBD
U2	<i>Halistemma foliacea</i>	SL0401ST	YPM.12903	TBD
L10	<i>Halistemma rubrum</i>	VF 16-04-2003	YPM.12903	TBD
M10	<i>Halistemma rubrum</i>	D720-D1	YPM.12903	TBD
T3	<i>Halistemma rubrum</i>	D339-D12	YPM.12903	TBD
I11	<i>Halistemma rubrum</i>	JSL II 2656-DS6	YPM.12903	TBD

Slide_ID	Species	Specimen	Accession number	Catalog number
N3	<i>Halistemma transliratum</i>	SL0301T	YPM.12903	TBD
B1	<i>Hippopodius hippopus</i>	VF#6	YPM.12903	TBD
F7	<i>Hippopodius hippopus</i>	Discovery St. 7824#56	YPM.12903	TBD
G7A-B	<i>Hippopodius hippopus</i>	BWP 1027-12	YPM.12903	TBD
H7A-B	<i>Hippopodius hippopus</i>	VF#7	YPM.12903	TBD
U9	<i>Hippopodius hippopus</i>	VF#8	YPM.12903	TBD
G3	<i>Kephyes ovata</i>	D856-D8	YPM.12903	TBD
A8	<i>Lensia conoidea</i>	JSL I 2953-SS11	YPM.12903	TBD
B10	<i>Lensia conoidea</i>	D499-SS4	YPM.12903	TBD
B8	<i>Lensia conoidea</i>	JSL I 2941-SS11	YPM.12903	TBD
C8	<i>Lensia conoidea</i>	JSL I 2935-DS5	YPM.12903	TBD
T4	<i>Lensia conoidea</i>	D500-D4	YPM.12903	TBD
J10	<i>Lilyopsis fluoracantha</i>	V4098-SS4	YPM.12940	TBD
V5	<i>Lilyopsis fluoracantha</i>	D963-D8	YPM.12903	TBD
L2	<i>Lilyopsis medusa</i>	WF BWP 30-09-06	YPM.12903	TBD
C7	<i>Lychnagalma utricularia</i>	JSL II 990-SS1	YPM.12903	TBD
D7	<i>Lychnagalma utricularia</i>	D331-D8	YPM.12903	TBD
E7	<i>Lychnagalma utricularia</i>	D962-D4	YPM.12903	TBD
F3	<i>Lychnagalma utricularia</i>	JSL II 1673-6	YPM.12903	TBD
K2	<i>Lychnagalma utricularia</i>	JSL II 981-CGP6	YPM.12903	TBD
C11	<i>Marrus claudanielis</i>	D1019-D9	YPM.12738	TBD
E3	<i>Marrus claudanielis</i>	D153-D7	YPM.12903	TBD
Y8	<i>Marrus claudanielis</i>	D959-SS2	YPM.12903	TBD
Z8	<i>Marrus claudanielis</i>	T1105-D5	YPM.12903	TBD
F2	<i>Marrus orthocanna</i>	D858-D11	YPM.12903	TBD
A11	<i>Nanomia bijuga</i>	D1023-SS2	YPM.12738	TBD
A6	<i>Nanomia bijuga</i>	VF2016-6	YPM.12903	TBD
J1	<i>Nanomia bijuga</i>	D860-BW1-C	YPM.12903	TBD
J9	<i>Nanomia bijuga</i>	D663-SS8	YPM.12903	TBD
Y5	<i>Nanomia bijuga</i>	BWP 1048-17	YPM.12903	TBD

Slide_ID	Species	Specimen	Accession number	Catalog number
Z5	<i>Nanomia bijuga</i>	Sep 21, 2014	YPM.12903	TBD
A10	<i>Nanomia cara</i>	BWP 1420-11	YPM.12903	TBD
P1	<i>Nanomia cara</i>	1445-4	YPM.12903	TBD
P4	<i>Nanomia cara</i>	2138-S9	YPM.12903	TBD
Z9	<i>Nanomia cara</i>	BWP 1420-10	YPM.12903	TBD
M11	<i>Nanomia cara</i>	BWP 1448-3	YPM.12903	TBD
Y4	<i>Nectadamas richardi</i>	Discovery St. 10111#6	YPM.12903	TBD
I7	<i>Physalia physalis</i>	TX026	YPM.12903	TBD
J7	<i>Physalia physalis</i>	YPM IZ 35011	IZA.07603	YPM IZ 35011
K7	<i>Physalia physalis</i>	Pp20130706WH	YPM.12903	TBD
V2	<i>Physalia physalis</i>	WH 20130706 Corm#3	YPM.12903	TBD
X9	<i>Physalia physalis</i>	YPM IZ 035012	TBD	YPM IZ 035012
Q4	<i>Physonect sp</i>	D666-SS11	YPM.12903	TBD
B2	<i>Physophora hydrostatica</i>	1845 - 5	YPM.12903	TBD
L1	<i>Physophora hydrostatica</i>	ENS43	YPM.12903	TBD
N9	<i>Physophora hydrostatica</i>	D551-D11	YPM.12903	TBD
O9	<i>Physophora hydrostatica</i>	EN543-T1	YPM.12903	TBD
X4	<i>Physophora hydrostatica</i>	EN182 1845-5	YPM.12903	TBD
A1	<i>Praya dubia</i>	JSL I 1003-S8	YPM.12903	TBD
S8	<i>Praya dubia</i>	JSL II 1684-2 (9)	YPM.12903	TBD
T8	<i>Praya dubia</i>	D962-T1	YPM.12903	TBD
D5	<i>Praya reticulata</i>	KOK17_D Trawl022117	YPM.12903	TBD
U5	<i>Resomia dunnii</i>	D963-D4	YPM.12903	TBD
R10	<i>Resomia ornicephala</i>	D1025-D10	YPM.12738	TBD
S10	<i>Resomia ornicephala</i>	D1025-SS5	YPM.12738	TBD
S5	<i>Resomia ornicephala</i>	D965-D7	YPM.12903	TBD
T10	<i>Resomia ornicephala</i>	D1025-SS6	YPM.12738	TBD
X1	<i>Resomia persica</i>	D343-D9	YPM.12903	TBD
L4	<i>Rhizophysa eysenhardtii</i>	BWP 862-3	YPM.12903	TBD
Q1	<i>Rhizophysa eysenhardtii</i>	SL0200ST	YPM.12903	TBD

Slide_ID	Species	Specimen	Accession number	Catalog number
X7	<i>Rhizophysa eysenhardtii</i>	BWP 634-6	YPM.12903	TBD
Y7	<i>Rhizophysa eysenhardtii</i>	BWP 794-3	YPM.12903	TBD
Z7	<i>Rhizophysa eysenhardtii</i>	BWP 814-3	YPM.12903	TBD
A7	<i>Rhizophysa filiformis</i>	BWP 566-16	YPM.12903	TBD
B7	<i>Rhizophysa filiformis</i>	BWP 588-21	YPM.12903	TBD
M9	<i>Rhizophysa filiformis</i>	BWP 567-8	YPM.12903	TBD
R1	<i>Rhizophysa filiformis</i>	BWP 566-17	YPM.12903	TBD
Z6	<i>Rhizophysa filiformis</i>	BWP 1565-4	YPM.12903	TBD
Q6	<i>Rosacea cymbiformis</i>	D723-BW2-2/3	YPM.12903	TBD
R2	<i>Rosacea cymbiformis</i>	BWP 506	YPM.12903	TBD
R6	<i>Rosacea cymbiformis</i>	Voucher#196 BW4	YPM.12903	TBD
V3	<i>Rosacea plicata</i>	WF Trawl 31-07-07	YPM.12903	TBD
K10	<i>Sphaeronectes koellikeri</i>	V4098-SS5	YPM.12903	TBD
K3	<i>Sphaeronectes koellikeri</i>	07-11-13 BW1	YPM.12903	TBD
X8	<i>Sphaeronectes koellikeri</i>	BWP 657-8	YPM.12903	TBD
B3	<i>Stephanomia amphytridis</i>	JSL I 2888-CG6 1/2	YPM.12903	TBD
M8A-B	<i>Stephanomia amphytridis</i>	JSL I 3721-DS1	YPM.12903	TBD
N8	<i>Stephanomia amphytridis</i>	JSL I 2688-CG6	YPM.12903	TBD
O8	<i>Stephanomia amphytridis</i>	D555-D7	YPM.12903	TBD
J11	<i>Stephanomia amphytridis</i>	JSL I 2667-DS8	YPM.12903	TBD
C10	<i>Stephanophyes superba</i>	BWP 571-9	YPM.12903	TBD
Z2	<i>Stephanophyes superba</i>	1345-14	YPM.12903	TBD
P8	<i>Sulculeolaria quadrivalvis</i>	BWP 556-2	YPM.12903	TBD
Q8	<i>Sulculeolaria quadrivalvis</i>	BWP 512 SUQ 16	YPM.12903	TBD
R8	<i>Sulculeolaria quadrivalvis</i>	BWP 1061-17	YPM.12903	TBD
X2	<i>Sulculeolaria quadrivalvis</i>	1349-22	YPM.12903	TBD
H11	<i>Sulculeolaria quadrivalvis</i>	BWP 1051-3	YPM.12903	TBD
A4	<i>Thermopalia taraxaca</i>	Alvin	YPM.12903	TBD
N1	<i>Vogtia glabra</i>	JSL II 959-D3	YPM.12903	TBD
E1	<i>Vogtia serrata</i>	D856-SS3	YPM.12903	TBD

Slide_ID	Species	Specimen	Accession number	Catalog number
I1	<i>Vogtia serrata</i>	D858-SS10	YPM.12903	TBD
R7	<i>Vogtia serrata</i>	D153-D6	YPM.12903	TBD
S7	<i>Vogtia serrata</i>	10Dec09-Trawl	YPM.12903	TBD
T7	<i>Vogtia serrata</i>	D856-SS9	YPM.12903	TBD
N2	<i>Vogtia spinosa</i>	Discovery St. 6662#2	YPM.12903	TBD
Q11	<i>Marrus claudanielis</i>	T1037-D1	YPM.12903	TBD
R11	<i>Erenna richardi</i>	JSL II 1456-D1	YPM.12903	TBD
S11	<i>Erenna richardi</i>	T751-DS03	YPM.12903	TBD
X11	<i>Resomia ornicephala</i>	T1157-SS10	YPM.12903	TBD
Y11	<i>Resomia ornicephala</i>	T847-SS11	YPM.12903	TBD
A12	<i>Lilyopsis fluoracantha</i>	M122-SS1	YPM.12903	TBD
B12	<i>Physopora gilmeri</i>	KM2018-Trawl1	YPM.12939	TBD
A13	<i>Bathyphysa conifera</i>	JSL I 2657-DS1	YPM.12903	TBD
C13	<i>Erenna richardi</i>	JSL II 1456 DS1	YPM.12903	TBD
D13	<i>Halistemma rubrum</i>	D335-D5	YPM.12903	TBD
V11	<i>Desmophyes haematogaster</i>	T749-SS6	YPM.12903	TBD
U11	<i>Praya dubia</i>	JSL II 1678-DS7	YPM.12903	TBD
T11	<i>Praya dubia</i>	JSL II 990-CGP2	YPM.12903	TBD
N11	<i>Sphaeronectes koellikeri</i>	Manko_VIF18.95	YPM.12938	TBD
O11	<i>Erenna laciniata</i>	V2570-DS2	YPM.12903	TBD
Z11	<i>Sphaeronectes koellikeri</i>	BWP0528005	YPM.12903	TBD