

Supplemental Tables

Sup. Table 1. Specimens of the *Hylarana signata* complex and outgroups analysed in this study, with voucher numbers, localities, and GenBank accession numbers. Institutional abbreviations: MZB.Amph, Museum Zoologicum Bogoriense; MK, Mistar Kamsi field number; DWNP, Department of Wildlife and National Parks, Malaysia; FMNH, Field Museum of Natural History; HKV, Harold K. Voris field number; LSUHC, La Sierra University Herpetological Collection; KUHE, Graduate School of Human and Environmental Studies, Kyoto University; ZRC, Zoological Reference Collection, Lee Kong Chian Natural History Museum; PNM, Philippine National Museum; KU, University of Kansas; TNHC, Texas Natural History Collections; UTA-A, University of Texas at Arlington. Asterisk (*) denotes holotype. “This study” indicates newly generated sequences (accessions pending at submission).

Species	Specimen Voucher	Locality	GeneBank No	Source
<i>H. anantambanii</i> sp. nov.	UTA A 62444	Indonesia, Sumatra, Lampung, Lampung Barat, Kubuperahu	PX589850	This study
<i>H. hellenae</i> sp. nov.	MZB.Amph 14793	Indonesia, Sumatra, Jambi, Tapan, Kerinci Seblat National Park	PX589852	This study
<i>H. hellenae</i> sp. nov.	MZB.Amph 14792*	Indonesia, Sumatra, Jambi, Tapan, Kerinci Seblat National Park	PX589851	This study
<i>H. fantastica</i>	MZB.Amph 2889	Indonesia, Sumatra, Aceh, Taman Buru Linge Isaq	MG783368	Arifin et al. (2018)
<i>H. fantastica</i>	MZB.Amph 28946	Indonesia, Sumatra, Aceh, Taman Buru Linge Isaq	MG783367	Arifin et al. (2018)
<i>H. fantastica</i>	MZB.Amph 31495	Indonesia, Sumatra, Aceh, Gayo Luwes, Terangun	PX589866	This study
<i>H. fantastica</i>	MZB.Amph 31496	Indonesia, Sumatra, Aceh, Gayo Luwes, Terangun	PX589867	This study
<i>H. fantastica</i>	MZB.Amph 26062	Indonesia, Sumatra, Aceh, Aceh Besar, Gunung Batee Meucica	PX589864	This study
<i>H. fantastica</i>	MZB.Amph 26063	Indonesia, Sumatra, Aceh, Aceh Besar, Gunung Batee Meucica	PX589865	This study
<i>H. fantastica</i>	MZB.Amph 31505	Indonesia, Sumatra, North Sumatra, Deli Serdang, Bandar Baru	PX589862	This study
<i>H. fantastica</i>	MZB.Amph 23862	Indonesia, Sumatra, North Sumatra, Deli Serdang, Bandar Baru	PX589861	This study
<i>H. fantastica</i>	MZB.Amph 23869	Indonesia, Sumatra, North Sumatra, Deli Serdang, Bandar Baru	PX589863	This study
<i>H. fantastica</i>	MZB.Amph 13243	Indonesia, Sumatra, North Sumatra, Deli Serdang, Bandar Baru	KF477646	Brown and Siler (2014)
<i>H. fantastica</i>	MK 335	Indonesia, Sumatra, North Sumatra, Deli Serdang, Bandar Baru	KF477648	Brown and Siler (2014)
<i>H. fantastica</i>	MZB.Amph 13244	Indonesia, Sumatra, North Sumatra, Deli Serdang, Bandar Baru	KF477647	Brown and Siler (2014)
<i>H. sundabarat</i>	MZB.Amph 31506	Indonesia, Sumatra, Aceh, West Aceh, Road from Tutut to Geumpang	PX589856	This study
<i>H. sundabarat</i>	MZB.Amph 31507	Indonesia, Sumatra, Aceh, West Aceh, Road from Tutut to Geumpang	PX589857	This study
<i>H. sundabarat</i>	MZB.Amph 23865	Indonesia, Sumatra, North Sumatra, Rau, Road from Panyabungan to Natal	PX589853	This study
<i>H. sundabarat</i>	MZB.Amph 26059	Indonesia, Sumatra, Bengkulu, Rejang Lebong, Air Lanang	PX589855	This study
<i>H. sundabarat</i>	MZB.Amph 26067	Indonesia, Sumatra, West Sumatra, Lima Puluh Kota	PX589854	This study
<i>H. sundabarat</i>	MZB.Amph 25882	Indonesia, Sumatra, West Sumatra, Padang, Limau Manis	PX589858	This study

Species	Specimen Voucher	Locality	GeneBank No	Source
<i>H. sundabarat</i>	MZB.Amph 11167	Indonesia, Sumatra, North Sumatra, Batangtoru, Martabe	PX589859	This study
<i>H. sundabarat</i>	FMNH 266943	Indonesia, Sumatra, West Sumatra, Payakumbuh, Serasah Buntah	KF477700	Brown and Siler (2014)
<i>H. sundabarat</i>	FMNH 266944	Indonesia, Sumatra, West Sumatra, Payakumbuh, Serasah Buntah	KF477701	Brown and Siler (2014)
<i>H. sundabarat</i>	FMNH 266946	Indonesia, Sumatra, West Sumatra, Padang, Limau Manis	KR264080	Oliver et al. 2015
<i>H. sundabarat</i>	FMNH 266930	Indonesia, Sumatra, West Sumatra, Padang, Limau Manis	KF477717	Brown and Siler (2014)
<i>H. sundabarat</i>	FMNH 266931	Indonesia, Sumatra, West Sumatra, Padang, Limau Manis	KF477718	Brown and Siler (2014)
<i>H. sundabarat</i>	FMNH 259067	Thailand, Narathiwat, Waeng, Hala Bala Wildlife Sanctuary	KF477703	Brown and Siler (2014)
<i>H. sundabarat</i>	LSUHC 5940	Malaysia, Peninsular Malaysia, Kedah, Jerai	KF477711	Brown and Siler (2014)
<i>H. picturata</i>	KUHE 53544	Malaysia, Borneo, Sarawak, Bario, Pa Ramapuh	AB719236	Matsui et al. 2012
<i>H. picturata</i>	MZB.Amph 22150	Indonesia, Borneo, East Kalimantan, Kutai Timur, Sangkulirang	PX589860	This study
<i>H. signata</i>	FMNH 273117	Malaysia, Borneo, Sarawak, Bintulu	KR264086	Oliver et al. 2015
<i>H. signata</i>	ZRC 1.12388	Malaysia, Borneo, Sarawak, Matang (Type locality)	KF477748	Brown and Siler (2014)
<i>H. siberu</i>	MZB.Amph 9379	Indonesia, Siberut Island	KF477744	Brown and Siler (2014)
<i>H. siberu</i>	MZB.Amph 10677	Indonesia, Siberut Island	KF477743	Brown and Siler (2014)
<i>H. laterimaculata</i>	KUHE 17650	Malaysia, Borneo, Sarawak, Samunsam	AB719230	Matsui et al. (2012)
<i>H. centropeninsularis</i>	DWNP 0489	Malaysia, Peninsular Malaysia, Pahang, Krau, Bukit Rengit	KF477745	Brown and Siler (2014)
<i>H. banjarana</i>	ZRC 8326	Malaysia, Peninsular Malaysia, Pahang, Cameron Highlands	KF477645	Brown and Siler (2014)
<i>H. mangyanum</i>	KU 303625	Philippines, Mindoro, Occidental Mindoro, Victoria, Loyal	KF477689	Brown and Siler (2014)
<i>H. moellendorffi</i>	KU 327049	Philippines, Palawan, Palwan, Brookes Point, Samarina	KF477699	Brown and Siler (2014)
<i>H. similis</i>	TNHC 63010	Philippines, Luzon, Albay, Tiwi, Banahao	KF477783	Brown and Siler (2014)
<i>H. grandocula</i>	PNM/CMNH H 2358	Philippines, Mindanao, Davao Oriental, Puting Bato	KF477673	Brown and Siler (2014)
<i>H. glandulosa</i>	KUHE 53660	Malaysia, Borneo, Sarawak, Mulu	AB719225	Matsui et al. (2012)
<i>H. baramica</i>	KUHE 53640	Malaysia, Borneo, Sarawak, Mulu	AB719234	Matsui et al. (2012)
<i>H. rawa</i>	MZB.Amph 14565	Indonesia, Sumatra, Riau, Siak, Sungai Mandau	AB719222	Matsui et al. (2012)
<i>H. laterimaculata</i>	KUHE 17650	Malaysia, Borneo, Sarawak, Samunsam	AB719230	Matsui et al. (2012)
<i>Limnectes sisikdagu</i>	FMNH 266617	Indonesia, Sumatra, West Sumatra	JF836880	McLeod et al. (2011)
<i>Rhacophorus bengkuensis</i>	UTA A-62770	Indonesia, Sumatra, Lampung	KM212948	Streicher et al (2014)

Sup. Table 2. Uncorrected p-distances (%) among taxa in the *Hylarana signata* complex for a 444 bp fragment of the mitochondrial 16S rRNA gene. Lower-triangle entries show observed ranges across pairwise comparisons; upper-triangle entries show mean values where applicable. Diagonal entries indicate within-taxon values when available. See Methods for alignment and calculation details.

No	Species	1	2	3	4	5	6
1	<i>H. anantambanii</i> sp. nov.	-					
2	<i>H. hellenae</i> sp. nov.	4.81	0.46				
3	<i>H. fantastica</i>	(9.63 - 10.55)	(8.03 - 9.17)	(0 - 2.52)			
4	<i>H. sundabarat</i>	(10.98 - 12.59)	(10.53 - 11.9)	(11.47 - 13.76)	(0 - 3.19)		
5	<i>H. picturata</i>	(10.98 - 12.36)	(10.3 - 11.26)	(10.32 - 13.59)	(6.16 - 9.17)	(1.15 - 5.48)	
6	<i>H. signata</i>	(12.44 - 12.84)	(11.47 - 11.75)	(11.03 - 13.39)	(6.42 - 8.49)	(6.91 - 8.76)	2.53
7	<i>H. siberu</i>	8.70	8.47	(8.26 - 9.63)	(10.30 - 12.13)	(10.07 - 11.67)	(11.52 - 11.93)
8	<i>H. centropeninsularis</i>	8.92	8.01	(8.49 - 10.32)	(9.84 - 11.67)	(9.84 - 12.81)	(10.37 - 10.55)
9	<i>H. laterimaculata</i>	13.53	12.84	(12.87 - 14.48)	(11.24 - 12.84)	(11.93 - 14.22)	(11.03 - 11.55)
10	<i>H. banjarana</i>	15.56	14.19	(13.53 - 14.68)	(13.96 - 15.56)	(14.65 - 15.33)	(13.99 - 14.29)
11	<i>H. mangyanum</i>	11.21	10.07	(11.01 - 12.39)	(8.01 - 9.38)	(6.64 - 8.92)	(7.80 - 7.83)
12	<i>H. moellendorffi</i>	11.67	11.90	(11.01 - 12.84)	(9.61 - 10.76)	(7.78 - 8.92)	(8.29 - 8.94)
13	<i>H. similis</i>	12.84	12.16	(9.89 - 11.95)	(8.49 - 9.86)	(7.80 - 8.72)	(8.76 - 8.94)
14	<i>H. grandocula</i>	13.07	11.93	(10.34 - 11.95)	(8.26 - 9.63)	(8.49 - 9.63)	(8.53 - 8.72)
15	<i>H. glandulosa</i>	11.70	11.70	(13.33 - 13.79)	(11.01 - 12.16)	(11.70 - 13.53)	(10.34 - 10.85)
16	<i>H. baramica</i>	12.39	12.39	(12.87 - 13.79)	(11.01 - 12.39)	(11.01 - 12.44)	(10.80 - 11.78)
17	<i>H. rawa</i>	13.53	12.84	(11.49 - 13.10)	(11.70 - 13.76)	(13.30 - 14.91)	(12.64 - 12.70)
18	<i>Limnonectes sisikdagu</i>	22.76	22.07	(22.12 - 23.04)	(17.01 - 18.16)	(18.85 - 20.00)	(19.21 - 19.35)
19	<i>Rhacophorus bengkuluensis</i>	22.02	21.56	(19.77 - 21.15)	(18.58 - 20.64)	(20.51 - 21.10)	(17.93 - 18.94)

Continued Sup. Table 2.

No	Species	7	8	9	10	11	12	13	14	15	16	17	18	19
1	<i>H. anantambanii</i> sp. nov.													
2	<i>H. hellenae</i> sp. nov.													
3	<i>H. fantastica</i>													
4	<i>H. sundabarat</i>													
5	<i>H. picturata</i>													
6	<i>H. signata</i>													
7	<i>H. siberu</i>	0.00												
8	<i>H. centropeninsularis</i>	8.24	-											
9	<i>H. laterimaculata</i>	12.39	12.61	-										
10	<i>H. banjarana</i>	13.73	13.27	14.68	-									
11	<i>H. mangyanum</i>	10.76	10.98	12.39	13.27	-								
12	<i>H. moellendorffi</i>	12.13	13.04	12.16	14.87	5.26	-							
13	<i>H. similis</i>	11.24	12.84	14.02	15.37	7.57	8.72	-						
14	<i>H. grandocula</i>	10.78	12.61	13.10	15.60	7.80	8.72	2.29	-					
15	<i>H. glandulosa</i>	12.61	12.16	4.82	14.45	12.39	13.07	14.02	13.10	-				
16	<i>H. baramica</i>	12.16	11.70	5.96	14.45	11.47	11.01	13.56	12.64	5.28	-			
17	<i>H. rawa</i>	12.39	13.99	9.20	13.53	12.61	12.84	13.79	13.56	10.11	10.34	-		
18	<i>Limnonectes sisikdagu</i>	19.08	19.77	17.51	20.92	20.23	20.23	20.05	19.59	17.74	17.05	20.05	-	
19	<i>Rhacophorus bengkuluensis</i>	19.95	20.64	17.93	20.18	21.33	22.20	19.77	19.08	19.31	18.62	19.31	18.62	-

Sup. Table 3. Dunn’s test results for pairwise comparisons of male morphometric variables among *Hylarana anantambanii* sp. nov. (HA), *H. hellenae* sp. nov. (HH), and six other species in the *H. signata* complex: *H. fantastica* (HF), *H. siberu* (HSB), *H. centropeninsularis* (HC), *H. sundabarat* (HSU), *H. signata* (HSG), *H. picturata* (HP). P-values are Holm-corrected; “–” indicates non-significant or not applicable comparisons. Variables are defined in the Materials and Methods.

Species	RHW	RSL	RSN L	RNE L	RIN D	RIC D	RIO D	RUE W	RED	RBL	RFL L	RHA L	RHG	R1FL	R2FL	R3FL	R4FL
HC vs. HF	< 0.001	0.002	-	0.010	0.007	0.059	0.160	-	0.575	-	-	0.031	-	0.167	0.170	0.008	0.099
HC vs. HH	0.002	-	-	-	0.661	-	-	-	-	-	-	0.002	-	-	-	0.145	0.472
HC vs. HA	0.305	0.012	0.064	-	-	0.014	-	-	-	-	-	0.252	-	-	0.247	-	0.408
HC vs. HP	0.437	-	0.768	0.081	-	-	-	-	0.031	-	0.038	0.030	0.268	< 0.001	< 0.001	< 0.001	< 0.001
HC vs. HSB	< 0.001	-	-	-	-	-	0.039	-	-	-	-	0.009	-	-	-	-	0.363
HC vs. HSG	-	0.821	-	0.348	-	-	-	0.049	0.058	-	-	0.044	< 0.001	< 0.001	< 0.001	< 0.001	0.012
HC vs. HSU	-	0.196	-	0.069	-	-	-	0.473	0.002	0.101	-	0.007	< 0.001	< 0.001	< 0.001	< 0.001	0.003
HF vs. HH	-	-	-	-	-	0.904	-	-	-	-	-	-	-	-	-	-	-
HF vs. HA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HF vs. HP	0.980	0.293	-	-	0.272	-	-	0.798	-	-	-	-	0.069	0.751	0.229	-	0.186
HF vs. HSB	-	< 0.001	0.721	0.056	-	0.011	-	-	-	0.389	-	-	-	-	-	-	-
HF vs. HSG	0.018	-	-	-	-	-	-	0.001	-	-	-	-	< 0.001	0.180	0.221	-	-
HF vs. HSU	0.001	-	-	-	0.084	-	-	0.016	0.630	0.953	-	-	< 0.001	0.021	0.057	-	-
HH vs. HA	-	-	-	-	-	0.153	-	-	-	-	-	-	-	-	-	-	-
HH vs. HP	0.441	-	-	-	-	-	-	-	-	-	0.403	-	-	-	-	-	-
HH vs. HSB	-	-	0.594	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH vs. HSG	0.028	-	-	-	-	-	-	-	-	-	-	-	0.034	-	-	-	-
HH vs. HSU	0.013	-	-	-	-	-	-	-	-	-	-	-	0.118	-	-	-	-
HA vs. HP	-	0.610	-	-	-	0.548	-	-	-	-	0.091	-	-	-	-	-	-
HA vs. HSB	-	0.005	0.037	-	-	0.003	0.674	0.216	-	-	-	-	-	-	-	-	-
HA vs. HSG	-	-	0.734	-	-	0.904	-	-	-	-	-	-	0.021	-	-	-	-
HA vs. HSU	-	-	0.156	-	-	0.563	-	-	-	-	-	-	0.076	0.852	-	-	-
HP vs. HSB	0.230	0.761	0.415	0.252	-	0.518	-	0.156	-	0.093	0.122	-	0.042	0.414	0.044	-	-
HP vs. HSG	-	-	-	-	-	-	-	-	-	-	-	-	0.369	-	-	-	-
HP vs. HSU	-	-	-	-	-	-	-	-	-	-	0.909	-	-	-	-	-	-
HSB vs. HSG	0.010	0.323	-	0.763	-	0.505	0.563	0.001	-	0.165	-	-	< 0.001	0.131	0.039	-	-
HSB vs. HSU	0.003	0.078	-	0.249	-	0.252	0.504	0.012	0.545	0.004	-	-	< 0.001	0.051	0.019	-	-
HSG vs. HSU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Continued Sup. Table 4.

Species			RTS L	RFL	R1TL	R2T L	R3TL	R4TL	R5TL	RO MTL	HG/B L	HL/H W	ED/I OD	IND/I OD	TD/E D	1FL/4 FL	1TL/ 2TL	1TL/4 TL
HC	vs.	HF	-	-	0.027	0.007	< 0.001	< 0.001	< 0.001	-	-	< 0.001	-	< 0.001	0.621	0.218	0.013	-
HC	vs.	HH	-	0.215	0.020	0.939	-	0.062	0.096	-	-	0.002	-	0.801	-	-	-	0.187
HC	vs.	HA	-	0.303	0.022	0.018	0.028	0.080	0.014	-	-	0.015	-	0.456	-	-	-	0.296
HC	vs.	HP	-	0.008	0.040	0.003	0.016	0.096	0.402	-	0.489	-	-	-	-	0.183	0.025	0.106
HC	vs.	HSB	0.159	-	0.003	0.018	< 0.001	< 0.001	0.003	-	-	0.164	-	0.047	-	-	-	0.284
HC	vs.	HSG	-	0.002	0.037	0.019	0.020	0.360	0.131	-	< 0.001	-	-	-	0.101	0.002	0.280	0.073
HC	vs.	HSU	-	0.003	< 0.001	0.002	0.053	0.084	0.032	-	0.001	-	0.724	-	0.004	< 0.001	0.953	0.002
HF	vs.	HH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HF	vs.	HA	0.151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HF	vs.	HP	-	0.565	-	-	-	0.186	0.029	-	0.049	0.070	-	0.223	-	-	-	-
HF	vs.	HSB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HF	vs.	HSG	0.099	0.148	-	-	-	0.114	0.476	0.051	< 0.001	0.112	0.972	0.469	-	0.985	-	-
HF	vs.	HSU	0.277	0.225	-	-	-	0.030	0.135	-	< 0.001	< 0.001	0.075	0.045	0.893	0.247	-	0.036
HH	vs.	HA	0.874	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HH	vs.	HP	-	-	-	-	-	-	-	-	-	0.115	-	-	-	-	-	-
HH	vs.	HSB	-	0.714	-	-	0.634	-	-	0.336	-	-	-	-	-	-	-	-
HH	vs.	HSG	-	-	-	-	-	-	-	-	0.060	0.127	-	-	-	-	-	-
HH	vs.	HSU	-	-	-	-	-	-	-	-	0.246	0.010	-	-	-	-	-	-
HA	vs.	HP	-	-	-	-	-	-	-	-	-	0.729	-	-	-	-	-	-
HA	vs.	HSB	0.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HA	vs.	HSG	-	-	-	-	-	-	-	-	0.024	0.763	-	-	-	-	-	-
HA	vs.	HSU	-	-	-	-	-	-	-	-	0.109	0.081	-	-	0.713	-	-	-
HP	vs.	HSB	0.763	0.102	-	-	0.902	0.428	0.992	0.200	0.094	-	0.310	-	-	-	-	-
HP	vs.	HSG	-	-	-	-	-	-	-	-	0.330	-	-	-	-	-	-	-
HP	vs.	HSU	-	-	-	-	-	-	-	-	-	-	-	-	0.382	-	-	-
HSB	vs.	HSG	0.008	0.032	-	-	-	0.263	-	0.017	< 0.001	-	0.193	-	-	0.494	-	-
HSB	vs.	HSU	0.023	0.057	-	-	0.169	0.200	-	0.627	< 0.001	0.861	0.036	-	0.179	0.244	-	-
HSG	vs.	HSU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sup. Table 4. Male morphometric variation in *Hylarana anantambanii* sp. nov. and *H. hellenae* sp. nov. compared with other members of the *H. signata* complex from Sundaland. SVL is given in mm; all other variables are expressed as relative values ($R = \text{character/SVL} \times 100$). Values are reported as mean $\pm$ SD (range). Character abbreviations follow the Materials and methods.

Characters	Holotype	<i>Hylarana anantambanii</i> sp nov.						Holotype	<i>Hylarana hellenae</i> sp nov.					
	MZB.Amp	Male (n = 5)						MZB.Amph	Male (n = 4)					
	h 3481	Mean	$\pm$	SD	Range			14792	Mean	$\pm$	SD	Range		
SVL	34.87	39.55	$\pm$	2.95	34.87	—	41.67	42.29	42.01	$\pm$	0.68	41.16	—	43.23
RHL	40.26	37.30	$\pm$	1.79	35.82	—	40.26	40.58	38.83	$\pm$	1.39	37.54	—	40.58
RHW	33.95	32.55	$\pm$	1.61	31.58	—	33.95	35.97	34.82	$\pm$	1.32	33.03	—	35.97
RSL	15.06	13.47	$\pm$	1.27	12.41	—	15.06	14.68	14.36	$\pm$	1.42	12.42	—	15.83
RSNL	3.96	3.78	$\pm$	0.04	2.76	—	4.34	4.23	3.96	$\pm$	0.72	2.89	—	4.46
RNEL	9.15	8.50	$\pm$	0.11	7.97	—	9.30	8.18	8.61	$\pm$	0.87	7.84	—	9.84
RIND	8.78	7.92	$\pm$	1.99	5.97	—	9.17	8.23	8.01	$\pm$	0.73	6.99	—	9.17
RICD	16.20	14.60	$\pm$	1.27	13.70	—	16.20	17.45	16.56	$\pm$	0.75	15.89	—	17.45
RIOD	11.33	9.79	$\pm$	1.52	8.52	—	11.33	10.22	9.91	$\pm$	0.46	9.51	—	10.39
RUEW	8.72	8.43	$\pm$	0.27	7.46	—	9.09	8.30	8.81	$\pm$	0.50	8.30	—	9.46
RED	15.97	15.33	$\pm$	0.89	13.81	—	16.39	15.54	15.52	$\pm$	0.28	15.14	—	16.39
RTD	9.55	8.86	$\pm$	0.60	8.12	—	9.55	9.06	8.55	$\pm$	0.39	8.11	—	9.23
RBL	21.14	20.94	$\pm$	0.45	18.88	—	22.18	20.31	21.40	$\pm$	1.78	20.22	—	24.02
RFL	72.04	71.52	$\pm$	4.03	66.34	—	74.59	72.76	70.94	$\pm$	2.19	67.80	—	74.59
RLAL	54.17	52.52	$\pm$	0.89	47.66	—	54.49	56.35	53.93	$\pm$	2.10	51.25	—	56.35
RFAL	22.23	22.94	$\pm$	1.77	21.97	—	24.73	23.08	24.08	$\pm$	1.27	22.90	—	25.38
RHAL	30.77	29.91	$\pm$	0.24	29.01	—	30.77	32.68	31.43	$\pm$	1.02	30.21	—	32.68
RHG	7.97	8.82	$\pm$	0.41	7.40	—	9.77	9.96	8.90	$\pm$	1.10	7.58	—	9.96
R1FL	14.57	12.53	$\pm$	0.68	9.60	—	14.57	11.28	12.51	$\pm$	1.55	11.10	—	14.18
R2FL	11.44	10.63	$\pm$	0.88	8.72	—	12.69	10.31	10.87	$\pm$	0.67	10.31	—	11.72
R3FL	18.76	18.12	$\pm$	0.46	17.15	—	19.41	18.78	17.25	$\pm$	1.11	16.28	—	18.78
R4FL	14.11	14.91	$\pm$	0.29	14.11	—	16.21	15.16	14.85	$\pm$	0.90	14.08	—	16.21
RHLL	181.79	176.24	$\pm$	7.08	171.78	—	181.79	181.41	178.82	$\pm$	9.55	166.63	—	189.62
RFML	52.82	49.22	$\pm$	7.27	42.55	—	52.82	50.74	51.17	$\pm$	1.95	49.69	—	54.02
RTBL	56.38	54.14	$\pm$	3.37	51.62	—	56.38	55.90	54.91	$\pm$	3.53	50.58	—	59.02

Characters	Holotype	<i>Hylarana anantambanii</i> sp nov.						Holotype	<i>Hylarana hellenae</i> sp nov.					
	MZB.Amp	Male (n = 5)						MZB.Amph	Male (n = 4)					
	h 3481	Mean	±	SD	Range			14792	Mean	±	SD	Range		
RTSL	27.16	26.30	±	1.48	25.07	—	27.16	28.45	28.74	±	2.20	25.84	—	31.05
RFL	52.08	52.11	±	0.22	51.38	—	52.65	52.99	52.24	±	2.09	49.14	—	53.67
R1TL	8.98	8.82	±	0.14	8.02	—	10.23	10.78	8.65	±	1.53	7.15	—	10.78
R2TL	11.93	11.00	±	1.18	10.27	—	11.93	11.73	11.41	±	0.33	10.96	—	11.73
R3TL	20.02	17.65	±	1.24	16.15	—	20.02	18.80	18.32	±	1.10	16.77	—	19.32
R4TL	30.57	29.74	±	0.23	28.64	—	30.90	30.57	29.42	±	1.80	27.86	—	31.33
R5TL	19.79	18.23	±	1.65	17.46	—	19.79	19.48	18.38	±	1.58	16.17	—	19.56
ROPTL	3.18	3.47	±	0.83	2.70	—	4.35	5.15	4.62	±	0.37	4.30	—	5.15
RIPTL	5.19	5.18	±	1.08	4.15	—	6.72	4.92	5.61	±	0.66	4.92	—	6.34
ROMTL	2.64	2.36	±	0.27	1.90	—	3.02	2.10	1.96	±	0.55	1.41	—	2.66
RIMTL	4.70	4.21	±	0.49	3.89	—	4.70	4.02	4.49	±	0.78	4.01	—	5.64
HG/BL	37.72	42.21	±	1.16	36.09	—	49.55	49.01	41.95	±	7.44	35.07	—	49.55
HL/HW	118.58	114.596	±	3.49	109.22	—	118.58	112.82	111.52	±	2.04	109.42	—	118.54
ED/IOD	141.01	157.975	±	13.8	140.93	—	192.39	152.08	156.96	±	9.69	145.73	—	192.39
IND/IOD	77.47	81.40	±	8.78	65.06	—	100.28	80.56	80.87	±	7.74	73.301	—	100.28
TD/ED	59.78	57.87	±	0.47	53.00	—	59.78	58.30	55.11	±	2.28	53.363	—	58.78
BL/FAL	95.10	91.50	±	8.6	82.93	—	100.98	88.01	88.88	±	5.47	82.987	—	100.98
TBL/FL	106.73	110.378	±	10.3	106.73	—	121.31	105.49	107.25	±	3.77	101.79	—	109.98
1FL/2FL	127.32	117.977	±	14.2	107.19	—	127.32	109.40	114.89	±	9.31	107.14	—	127.92
1FL/4FL	103.25	84.47	±	6.74	64.31	—	103.25	74.41	84.93	±	15.3	69.465	—	100.68
IPTL/OPTL	163.06	149.194	±	6.06	130.88	—	163.06	95.41	122.55	±	22.8	95.413	—	154.05
1TL/2TL	75.24	80.22	±	7.28	75.24	—	87.47	91.94	75.60	±	11.5	65.19	—	91.94
1TL/4TL	29.36	29.71	±	0.67	27.54	—	35.71	35.27	29.35	±	4.47	25.601	—	35.71
3TL/5TL	101.16	96.84	±	2.45	89.61	—	104.63	96.48	100.15	±	9.59	91.54	—	113.80
IMTL/OMTL	178.26	183.749	±	32.2	132.76	—	226.58	191.01	246.54	±	90.4	150.45	—	341.43

Continued Sup. Table 3.

Characters	<i>Hylarana fantastica</i>						<i>Hylarana siberu</i>						<i>Hylarana centropeninsularis</i>					
	Male (n = 20)						Male (n = 5)						Male (n = 7)					
	Mean	±	SD	Range			Mean	±	SD	Range			Mean	±	SD	Range		
SVL	42.06	±	1.06	40.3	—	43.20	43.09	±	2.84	37.80	—	48.27	38.22	±	2.07	35.5	—	40.4
RHL	38.29	±	1.66	35.62	—	42.14	40.73	±	1.82	39.12	—	43.57	38.08	±	1.10	36.66	—	40.10
RHW	33.34	±	1.45	30.42	—	36.00	34.79	±	1.24	33.09	—	36.00	29.58	±	1.73	27.79	—	32.48
RSL	13.85	±	0.62	12.74	—	14.90	15.96	±	0.72	14.77	—	16.59	15.41	±	0.58	14.34	—	16.23
RSNL	4.34	±	0.43	3.55	—	5.08	4.91	±	0.44	4.27	—	5.44	4.76	±	0.40	4.15	—	5.15
RNEL	8.14	±	0.70	7.06	—	9.64	9.50	±	0.73	8.85	—	10.63	9.52	±	0.60	8.32	—	10.07
RIND	7.78	±	0.70	6.42	—	8.82	8.35	±	0.74	7.18	—	9.25	9.27	±	0.85	7.78	—	10.26
RICD	15.61	±	0.74	14.15	—	16.98	17.26	±	0.48	16.82	—	18.07	16.91	±	1.15	14.94	—	18.70
RIOD	10.46	±	1.07	7.50	—	11.96	11.06	±	0.56	10.49	—	11.97	9.48	±	0.47	9.01	—	10.10
RUEW	9.37	±	0.68	8.37	—	10.77	9.96	±	0.46	9.66	—	10.77	9.28	±	0.64	8.12	—	9.86
RED	15.50	±	1.17	13.58	—	17.24	15.02	±	1.11	13.47	—	16.10	14.28	±	0.52	13.40	—	15.03
RTD	8.63	±	0.78	7.21	—	10.73	9.00	±	0.42	8.43	—	9.46	8.82	±	0.47	8.11	—	9.51
RBL	20.71	±	0.95	19.29	—	23.06	22.10	±	0.76	21.18	—	22.81	21.62	±	1.61	20.48	—	25.00
RFL	69.40	±	2.87	64.21	—	77.02	71.47	±	2.20	69.46	—	75.19	71.89	±	3.76	67.61	—	78.99
RLAL	52.29	±	2.18	47.48	—	55.40	53.37	±	0.55	52.62	—	53.89	50.27	±	2.53	46.93	—	53.99
RFAL	23.44	±	1.15	21.01	—	25.47	24.08	±	0.57	23.40	—	24.70	23.34	±	1.01	21.85	—	24.92
RHAL	29.69	±	1.89	26.24	—	32.75	30.66	±	0.62	29.91	—	31.53	27.10	±	0.61	26.07	—	27.96
RHG	9.67	±	1.46	6.43	—	12.91	11.24	±	0.88	10.17	—	12.53	9.93	±	0.98	8.80	—	11.04
R1FL	12.39	±	0.88	10.40	—	13.53	13.14	±	0.72	12.27	—	14.15	21.11	±	1.28	20.37	—	23.92
R2FL	10.83	±	0.68	9.72	—	11.97	11.71	±	0.48	11.06	—	12.20	19.32	±	0.98	18.02	—	21.10
R3FL	17.33	±	1.08	14.83	—	18.79	17.87	±	0.45	17.36	—	18.49	26.98	±	1.46	25.47	—	29.23
R4FL	15.01	±	1.06	12.18	—	16.49	14.89	±	0.72	14.31	—	16.05	23.42	±	1.21	21.90	—	25.45
RHLL	172.80	±	6.58	161.30	—	186.67	173.71	±	8.82	162.43	—	182.84	174.97	±	8.67	162.45	—	187.99
RFML	49.11	±	3.11	42.05	—	53.22	52.07	±	1.82	50.27	—	54.62	48.55	±	2.33	45.43	—	51.63
RTBL	53.69	±	1.74	50.46	—	56.66	54.23	±	2.63	51.49	—	57.41	51.33	±	2.66	46.64	—	55.34
RTSL	28.44	±	1.20	26.59	—	30.70	30.59	±	1.72	28.50	—	32.91	27.34	±	1.83	24.96	—	30.60
RFL	50.64	±	1.91	47.46	—	53.70	48.49	±	2.45	44.62	—	51.13	47.75	±	2.40	43.99	—	50.42

Characters	<i>Hylarana fantastica</i>						<i>Hylarana siberu</i>						<i>Hylarana centropeninsularis</i>					
	Male (n = 20)						Male (n = 5)						Male (n = 7)					
	Mean	±	SD	Range			Mean	±	SD	Range			Mean	±	SD	Range		
R1TL	9.22	±	0.82	7.77	—	10.36	8.41	±	0.90	7.33	—	9.28	16.21	±	0.76	14.98	—	17.56
R2TL	11.20	±	1.10	8.81	—	13.06	10.90	±	1.07	9.38	—	12.31	23.16	±	1.27	21.41	—	24.75
R3TL	17.42	±	1.07	15.37	—	19.09	16.68	±	0.20	16.45	—	16.93	33.55	±	1.30	32.27	—	35.88
R4TL	28.63	±	1.39	26.28	—	31.81	28.06	±	1.13	26.49	—	29.19	47.26	±	2.66	43.57	—	51.08
R5TL	17.82	±	1.00	16.32	—	19.72	17.89	±	0.91	16.59	—	18.91	34.19	±	1.04	33.02	—	35.94
ROPTL	4.19	±	0.44	3.66	—	5.20	4.86	±	0.76	4.06	—	5.64	4.04	±	0.40	3.24	—	4.37
RIPTL	5.59	±	0.71	4.64	—	7.42	6.06	±	0.51	5.42	—	6.76	5.78	±	1.27	4.11	—	7.26
ROMTL	2.46	±	0.32	1.74	—	3.01	2.87	±	0.41	2.35	—	3.32	2.25	±	0.57	1.74	—	3.14
RIMTL	4.52	±	0.50	3.31	—	5.29	4.29	±	0.45	3.60	—	4.74	4.00	±	0.26	3.70	—	4.50
HG/BL	46.70	±	7.07	33.26	—	63.04	50.84	±	3.44	48.04	—	55.09	46.21	±	6.25	38.13	—	53.54
HL/HW	114.94	±	4.66	105.85	—	123.69	117.10	±	3.70	111.7	—	121.01	128.95	±	5.34	119.3	—	132.54
ED/IOD	149.60	±	18.50	120.04	—	198.86	136.30	±	14.89	120.96	—	153.35	150.81	±	6.63	141.60	—	158.36
IND/IOD	74.87	±	8.59	63.95	—	95.71	75.65	±	7.40	66.32	—	85.29	97.70	±	6.75	86.12	—	106.03
TD/ED	55.92	±	5.83	44.59	—	65.64	60.09	±	3.95	56.13	—	64.94	61.89	±	4.11	56.75	—	68.13
BL/FAL	88.63	±	6.69	80.93	—	106.32	91.76	±	2.36	88.56	—	94.73	92.59	±	4.46	86.57	—	100.34
TBL/FL	109.59	±	5.30	101.66	—	121.05	104.13	±	2.31	101.00	—	106.44	105.73	±	2.73	102.66	—	110.77
1FL/2FL	114.55	±	7.81	102.22	—	131.17	112.36	±	6.41	105.67	—	119.58	109.49	±	7.73	97.39	—	120.38
1FL/4FL	82.64	±	5.02	75.44	—	94.85	88.57	±	8.31	76.42	—	97.13	90.19	±	3.49	84.35	—	94.00
IPTL/OPTL	134.54	±	21.55	106.31	—	202.61	126.37	±	15.12	109.66	—	142.00	142.29	±	25.21	107.93	—	174.52
1TL/2TL	82.64	±	6.21	70.02	—	92.29	77.34	±	7.72	67.22	—	85.60	70.09	±	2.98	65.80	—	74.83
1TL/4TL	32.24	±	2.73	26.86	—	36.88	29.99	±	3.48	26.12	—	34.01	34.38	±	2.06	31.44	—	36.83
3TL/5TL	97.88	±	5.66	89.20	—	106.88	93.46	±	5.26	88.84	—	102.06	98.17	±	3.60	93.30	—	103.03
IMTL/OMT																		
L	186.90	±	34.88	133.06	—	301.19	151.52	±	25.45	133.94	—	196.55	185.49	±	38.45	127.78	—	223.53

Continued Sup. Table 3.

Characters	<i>Hylarana sundabarat</i>						<i>Hylarana signata</i>						<i>Hylarana picturata</i>					
	Male (n = 20)						Male (n = 10)						Male (n = 13)					
	Mean	±	SD	Range			Mean	±	SD	Range			Mean	±	SD	Range		
SVL	38.47	±	2.27	33.77	—	42.97	36.04	±	3.56	30.89	—	44.09	38.07	±	1.41	35.91	—	40.79
RHL	38.55	±	1.70	36.37	—	41.97	38.16	±	1.95	35.92	—	42.48	38.79	±	1.62	36.48	—	41.04
RHW	31.16	±	1.07	29.25	—	32.67	31.30	±	1.12	29.42	—	33.82	31.92	±	1.39	29.02	—	34.53
RSL	14.35	±	0.78	12.91	—	16.20	14.39	±	0.63	13.51	—	15.35	14.58	±	0.47	13.97	—	15.51
RSNL	4.67	±	0.78	3.96	—	7.69	4.49	±	0.58	3.61	—	5.34	4.30	±	0.54	3.47	—	5.34
RNEL	8.19	±	1.16	4.17	—	9.74	8.38	±	0.95	6.94	—	10.33	8.20	±	0.99	6.09	—	10.31
RIND	8.69	±	0.94	7.28	—	11.55	8.51	±	1.10	6.97	—	10.75	8.65	±	0.79	7.44	—	10.16
RICD	16.01	±	0.70	14.90	—	17.73	15.93	±	0.50	15.02	—	16.95	16.04	±	0.90	14.91	—	17.68
RIOD	10.05	±	0.77	8.88	—	11.79	9.97	±	0.98	8.58	—	11.74	10.09	±	0.85	8.21	—	11.00
RUEW	8.33	±	0.94	6.74	—	10.26	7.97	±	0.48	7.24	—	8.57	8.67	±	1.02	6.67	—	10.83
RED	16.44	±	0.84	15.13	—	18.05	16.00	±	1.45	12.57	—	17.32	16.08	±	1.41	13.53	—	17.77
RTD	8.62	±	0.38	7.87	—	9.25	8.54	±	0.71	7.91	—	10.39	9.14	±	1.16	6.86	—	10.47
RBL	19.75	±	1.17	17.43	—	21.26	20.31	±	0.82	19.15	—	21.22	20.12	±	1.42	17.42	—	22.00
RFL	69.28	±	2.36	64.03	—	73.47	69.18	±	3.70	62.45	—	74.40	67.12	±	2.30	61.73	—	71.46
RLAL	52.70	±	2.10	50.45	—	59.06	52.08	±	1.78	49.16	—	55.71	51.92	±	1.62	48.22	—	54.93
RFAL	22.61	±	1.22	20.53	—	25.44	22.29	±	1.00	20.34	—	23.59	23.11	±	1.11	20.27	—	24.54
RHAL	30.04	±	1.39	27.39	—	33.04	29.91	±	1.59	27.42	—	32.89	30.03	±	1.67	27.68	—	33.83
RHG	5.09	±	0.88	2.93	—	6.34	4.19	±	0.84	3.14	—	5.57	6.72	±	1.06	3.87	—	8.23
R1FL	10.99	±	1.16	9.64	—	13.39	10.99	±	0.96	9.68	—	12.86	11.36	±	0.71	10.06	—	12.54
R2FL	9.80	±	0.87	8.34	—	11.22	9.75	±	1.06	8.29	—	12.15	9.84	±	0.63	8.87	—	11.16
R3FL	17.15	±	1.35	14.69	—	19.28	16.73	±	1.24	15.14	—	18.78	16.94	±	1.23	15.35	—	19.53
R4FL	14.47	±	1.26	12.07	—	16.80	14.49	±	0.94	13.24	—	15.74	13.71	±	1.74	9.40	—	16.78
RHLL	175.17	±	6.49	163.26	—	189.70	173.06	±	4.97	166.41	—	184.49	175.98	±	3.81	169.50	—	183.49
RFML	50.23	±	2.31	45.21	—	54.96	49.52	±	1.98	45.74	—	52.06	51.24	±	1.07	49.63	—	52.91
RTBL	54.33	±	2.00	50.47	—	58.31	54.01	±	1.48	51.61	—	57.24	54.92	±	1.10	53.08	—	56.42
RTSL	27.09	±	1.49	24.90	—	30.22	26.68	±	1.44	24.43	—	29.63	27.94	±	1.55	25.12	—	30.37
RFL	52.89	±	2.85	46.57	—	58.20	53.30	±	2.00	50.82	—	58.04	52.68	±	1.83	49.84	—	55.55

Characters	<i>Hylarana sundabarat</i>						<i>Hylarana signata</i>						<i>Hylarana picturata</i>					
	Male (n = 20)						Male (n = 10)						Male (n = 13)					
	Mean	±	SD	Range			Mean	±	SD	Range			Mean	±	SD	Range		
R1TL	8.79	±	0.83	6.69	—	10.60	9.17	±	0.86	8.02	—	10.88	9.24	±	0.93	7.87	—	10.93
R2TL	11.23	±	0.87	9.66	—	13.17	11.36	±	0.84	10.49	—	12.82	11.17	±	0.65	10.13	—	12.42
R3TL	18.03	±	1.74	11.93	—	20.95	17.83	±	1.13	16.14	—	19.33	18.01	±	1.00	16.85	—	20.07
R4TL	30.74	±	2.47	25.42	—	37.85	30.61	±	1.19	28.91	—	32.55	30.65	±	1.82	28.63	—	33.97
R5TL	18.99	±	1.32	16.57	—	21.01	19.02	±	1.16	16.48	—	20.31	19.32	±	0.83	17.74	—	20.47
ROPTL	4.10	±	0.72	2.77	—	5.33	3.92	±	0.78	2.62	—	5.16	4.31	±	0.65	2.91	—	5.64
RIPTL	6.35	±	0.69	5.25	—	7.75	5.60	±	1.05	3.79	—	7.22	6.24	±	0.84	4.76	—	8.13
ROMTL	3.35	±	5.17	1.27	—	25.22	1.85	±	0.42	1.08	—	2.49	2.43	±	1.51	1.43	—	7.24
RIMTL	4.75	±	0.71	3.48	—	6.20	4.30	±	0.67	3.44	—	5.50	4.65	±	0.50	3.99	—	5.57
HG/BL	25.93	±	4.97	14.15	—	35.61	20.59	±	4.00	15.56	—	27.56	33.57	±	5.83	18.61	—	41.43
HL/HW	123.80	±	5.43	114.23	—	132.96	121.96	±	5.61	113.78	—	132.70	121.56	±	3.43	115.74	—	125.78
ED/IOD	164.19	±	11.42	137.84	—	181.97	161.90	±	20.67	114.81	—	192.54	160.90	±	22.99	127.10	—	205.21
IND/IOD	87.02	±	12.54	68.51	—	126.48	86.20	±	14.53	64.32	—	108.52	86.55	±	12.70	70.74	—	117.48
TD/ED	52.55	±	3.96	47.41	—	59.67	53.68	±	5.55	47.44	—	62.90	56.96	±	6.48	42.11	—	67.20
BL/FAL	87.52	±	5.94	75.58	—	96.76	91.24	±	4.43	84.43	—	99.70	87.02	±	3.46	79.88	—	91.17
TBL/FL	108.26	±	3.63	102.64	—	117.16	109.18	±	4.67	104.71	—	119.12	107.21	±	2.34	104.26	—	111.80
1FL/2FL	112.47	±	10.83	87.53	—	139.94	113.10	±	6.49	105.85	—	122.18	115.63	±	7.03	106.58	—	126.56
1FL/4FL	76.10	±	6.80	66.51	—	92.28	76.06	±	7.57	65.10	—	86.43	84.02	±	11.35	70.89	—	113.69
IPTL/OPTL	158.62	±	28.29	121.03	—	214.95	148.38	±	43.98	103.17	—	240.00	148.07	±	32.05	107.69	—	205.36
1TL/2TL	78.46	±	7.27	65.17	—	92.84	80.68	±	4.19	72.04	—	86.54	82.67	±	5.72	73.35	—	90.56
1TL/4TL	28.76	±	3.42	20.52	—	36.91	29.92	±	2.25	26.97	—	33.84	30.19	±	2.97	27.12	—	35.21
3TL/5TL	95.22	±	9.49	59.49	—	106.51	93.84	±	3.87	86.30	—	97.92	93.27	±	4.39	88.05	—	101.41
IMTL/OMTL	214.51	±	71.32	19.74	—	344.29	244.83	±	75.38	147.56	—	427.03	226.24	±	76.82	68.08	—	346.15