

Ecography

E6306

Casner, K. L. and Pyrcz, T. W. 2010. Patterns and timing of diversification in a tropical montane butterfly genus, *Lymanopoda* (Nymphalidae, Satyrinae). – Ecography 33: 251–259.

Supplementary material

Table S1. List of specimens and GenBank accession numbers for each gene used in molecular study.

Genus	Species	Sub-species	Specimen ID	Locality	Province	Country	Elevation	COI	EF1-alpha	GAPDH	RPS5	WG
<i>Lymanopoda</i>	<i>acraeida</i>		KA205	Wayqecha Reserve	Cuzco	Peru	1400 m	GQ861922	GQ861984	GQ861920	GQ862022	GQ861835
<i>Lymanopoda</i>	<i>affineola</i>		KA136	Carcel Punco	Puno	Peru	2700 m	GQ861923	GQ8611979			
<i>Lymanopoda</i>	<i>albovincta</i>		KA54	Yanayacu Reserve	Napo	Ecuador	2100 m	GQ861924	GQ861997	GQ861919	GQ862023	GQ861836
<i>Lymanopoda</i>	<i>albornacula</i>	<i>albornacula</i>	KA193	Locoral	Cochabamba	Bolivia	2750 m	GQ861925	GQ862013	GQ861877	GQ862024	GQ861837
<i>Lymanopoda</i>	<i>altis</i>		KA49	Banos, El Tablon	Tungurahua	Ecuador	2700 m	GQ861926	GQ862020	GQ861878	GQ862025	GQ861838
<i>Lymanopoda</i>	<i>altis</i>		KA50	Banos, El Tablon	Tungurahua	Ecuador	2360 m	GQ861927	GQ862007	GQ861879	GQ862026	
<i>Lymanopoda</i>	<i>apulia</i>		KA104	Cueva Blanca-Milpo	Pasco	Peru	2600 m	GQ861928	GQ861986	GQ861880	GQ862027	
<i>Lymanopoda</i>	<i>araneola</i>		KA217	Molinopampa	Amazonas	Peru	2870 m	GQ861929	GQ861881	GQ862028	GQ861839	
<i>Lymanopoda</i>	<i>caeruleata</i>		KA98	Sierra Nevada de Santa Marta	Cesar	Colombia	1200 m	GQ861930	GQ862014	GQ861882	GQ862029	GQ861840
<i>Lymanopoda</i>	<i>caracara</i>		KA176	Reserva Ecológica Cayambe-Coca	Napo	Ecuador	3600 m	GQ861931	GQ861982	GQ861883	GQ862030	GQ861841
<i>Lymanopoda</i>	<i>caucana</i>		KA106	Amaga	Antioquia	Colombia	1800 m	GQ861932	GQ861975		GQ862031	GQ861842
<i>Lymanopoda</i>	<i>caudalis</i>		KA89	Cueva Blanca-Milpo Rd	Pasco	Peru	2600 m	GQ861933	GQ861987	GQ861884	GQ862032	GQ861843
<i>Lymanopoda</i>	<i>confusa</i>		KA101	Arcoiris Reserve	Zamora-Chinchipe	Ecuador	2100 m	GQ861934	GQ861991	GQ861885	GQ862033	GQ861844
<i>Lymanopoda</i>	<i>dietzi</i>	<i>argentata</i>	KA28	Timotes, Alto de Tarayas	Merida	Venezuela	2910 m	GQ861937	GQ862005	GQ861888	GQ862034	GQ861876
<i>Lymanopoda</i>	<i>dietzi</i>	<i>dietzi</i>	KA23	La Mucuy	Merida	Venezuela	2700 m	GQ861936	GQ862004	GQ861887	GQ862035	GQ861846
<i>Lymanopoda</i>	<i>dietzi</i>	<i>josefinia</i>	KA36	El Baho-Santo Domingo	Merida	Venezuela	2800 m	GQ861939	GQ862011	GQ861890	GQ862036	GQ861875
<i>Lymanopoda</i>	<i>dietzi</i>	<i>rosanna</i>	KA31	Bocono, Guaraniacal	Trujillo	Venezuela	2600 m	GQ861938	GQ862008	GQ861889	GQ862037	GQ861847
<i>Lymanopoda</i>	<i>dietzi</i>	<i>verula</i>	KA17	Pmo. De Batallón	Tachira	Venezuela	2900 m	GQ861935	GQ861998	GQ861886	GQ862038	GQ861845
<i>Lymanopoda</i>	<i>euhagioides</i>		KA85	Alfamayo-San Luis	Cuzco	Peru	2600 m	GQ861940	GQ862021	GQ861891		GQ861848
<i>Lymanopoda</i>	<i>euopsis</i>		KA84	Volcano Irazu	Cartago	Costa Rica	2690 m	GQ861941	GQ861977	GQ861892	GQ862039	GQ861849
<i>Lymanopoda</i>	<i>excisa</i>		KA60	Saraguro	Loja	Ecuador	3025 m	GQ861942	GQ862002	GQ861893	GQ862040	
<i>Lymanopoda</i>	<i>ferruginea</i>		KA207	Wayqecha Reserve	Cuzco	Peru	2050 m	GQ861943	GQ861894	GQ862041	GQ861850	
<i>Lymanopoda</i>	<i>hazellana</i>		KA66	Saraguro	Loja	Ecuador	3025 m	GQ861944	GQ862000	GQ861895	GQ861851	
<i>Lymanopoda</i>	<i>hockingi</i>		KA170	Qda. Malambo	Junin	Peru	2650 m	GQ861945	GQ861981	GQ861896	GQ862042	GQ861852
<i>Lymanopoda</i>	<i>hyagnis</i>		KA137	Qda. San Luis	Cuzco	Peru	2950 m	GQ861946	GQ861989			
<i>Lymanopoda</i>	<i>inde</i>		KA184	Molinopampa	Amazonas	Peru	3200 m	GQ861948	GQ861973		GQ862044	GQ861853

<i>Lymanopoda</i>	<i>ionius</i>		KA95	La Linea	Tolima	Colombia	3200 m	GQ861949	GQ861978	GQ861897	GQ862045	GQ861854
<i>Lymanopoda</i>	<i>labda</i>	<i>bilinskii</i>	KA62	Yanayacu Reserve	Napo	Ecuador	2100 m	GQ861950	GQ862010		GQ862047	GQ861855
<i>Lymanopoda</i>	<i>labda</i>	<i>labda</i>	KA108	El Retiro	Antioquia	Colombia	2700 m	GQ861951	GQ861990	GQ861898	GQ862048	GQ861856
<i>Lymanopoda</i>	<i>lecromi</i>		KA146	El Tamá	Tachira	Venezuela	2700 m	GQ861952	GQ861999	GQ861899	GQ862049	GQ861857
<i>Lymanopoda</i>	<i>magna</i>		KA199	Molinopampa	Amazonas	Peru	2870 m	GQ861953	GQ862018	GQ861900	GQ862050	GQ861858
<i>Lymanopoda</i>	<i>marianna</i>	<i>veronica</i>	KA41	Pmo. De Barallon	Tachira	Venezuela	2900 m	GQ861954	GQ862019	GQ861902	GQ862051	GQ861860
<i>Lymanopoda</i>	<i>marianna</i>		KA160	Mucujun	Merida	Venezuela	3100 m	GQ861955	GQ862017	GQ861901	GQ862052	GQ861859
<i>Lymanopoda</i>	<i>media</i>		KA139	San Borja	Tungurahua	Ecuador	3600 m	GQ861956	GQ861974		GQ862046	
<i>Lymanopoda</i>	<i>nadia</i>		KA64	Guamote-Macas	Morona-Santiago	Ecuador	2800 m	GQ861957	GQ862003	GQ861903	GQ862053	GQ861861
<i>Lymanopoda</i>	<i>nivea</i>	<i>sororcula</i>	KA58	Papallacta	Napo	Ecuador	2700 m	GQ861958	GQ861995	GQ861904	GQ862054	GQ861862
<i>Lymanopoda</i>	<i>obsolete</i>		KA46	Banos, El Tablon	Tungurahua	Ecuador	2700 m	GQ861959	GQ861992	GQ861905	GQ862055	GQ861863
<i>Lymanopoda</i>	<i>obsolete</i>		KA120	Buenos Aires-Cende	Lara	Venezuela	2100 m	GQ861985	GQ861906	GQ862057		
<i>Lymanopoda</i>	<i>obsolete</i>		KA148	Alfamayo-San Luis	Cuzco	Peru	2800 m	GQ861960	GQ862006	GQ861907	GQ862056	GQ861864
<i>Lymanopoda</i>	<i>obsolete</i>		KA150	Colonia-Tovar	Aragua	Venezuela	2100 m	GQ861961	GQ861988		GQ862058	GQ861865
<i>Lymanopoda</i>	<i>panacea</i>		KA56	Rio San Francisco	Zamora-Chinchipe	Ecuador	2100 m	GQ861962	GQ861994	GQ861908	GQ862059	GQ861866
<i>Lymanopoda</i>	<i>pieridina</i>	<i>albicosta</i>	KA110	La Linea	Tolima	Colombia	3050 m	GQ861963	GQ862001	GQ861909	GQ862060	GQ861867
<i>Lymanopoda</i>	<i>prusia</i>		KA200	San Luis	Cuzco	Peru	2800 m	GQ861964	GQ862016	GQ861910	GQ862061	GQ861868
<i>Lymanopoda</i>	<i>rana</i>		KA91	Oxampampa-Villa Rica	Pasco	Peru	2400 m	GQ861965	GQ861996	GQ861911	GQ862062	GQ861869
<i>Lymanopoda</i>			KA161	El Tamá	Tachira	Venezuela	3150 m	GQ861966	GQ862012	GQ861912	GQ862063	GQ861870
<i>Lymanopoda</i>	<i>saminius</i>	<i>lineana</i>	KA87	Alfamayo-San Luis	Cuzco	Peru	2500 m	GQ861967	GQ862009	GQ861913	GQ862064	
<i>Lymanopoda</i>	<i>shefeli</i>		KA111	Pmo. del Ruiz	Tolima	Colombia	3600 m	GQ861968	GQ861980	GQ861914		GQ861871
<i>Lymanopoda</i>	<i>tolima</i>		KA212	Wayqecha Reserve	Cuzco	Peru	2600 m	GQ861969	GQ862015	GQ861915	GQ862065	GQ861872
<i>Lymanopoda</i>	<i>umbratilis</i>		KA226	Macapata	Cuzco	Peru	2200 m	GQ861970		GQ861916	GQ862066	GQ861873
<i>Lymanopoda</i>	<i>umbratilis</i>		KA181	Ollachea-San Gaban	Puno	Peru	1200 m	GQ861971	GQ861976			
<i>Lymanopoda</i>	<i>vivienteri</i>		KA115	Pmo. Guasca	Cundinamarca	Colombia	3200 m	GQ861972	GQ861993	GQ861917	GQ862067	GQ861874
<i>Ianusiussa</i>	<i>maso</i>		KA119	Runtun	Tungurahua	Ecuador	2600 m	GQ861947	GQ861983	GQ861918	GQ862043	GQ861921

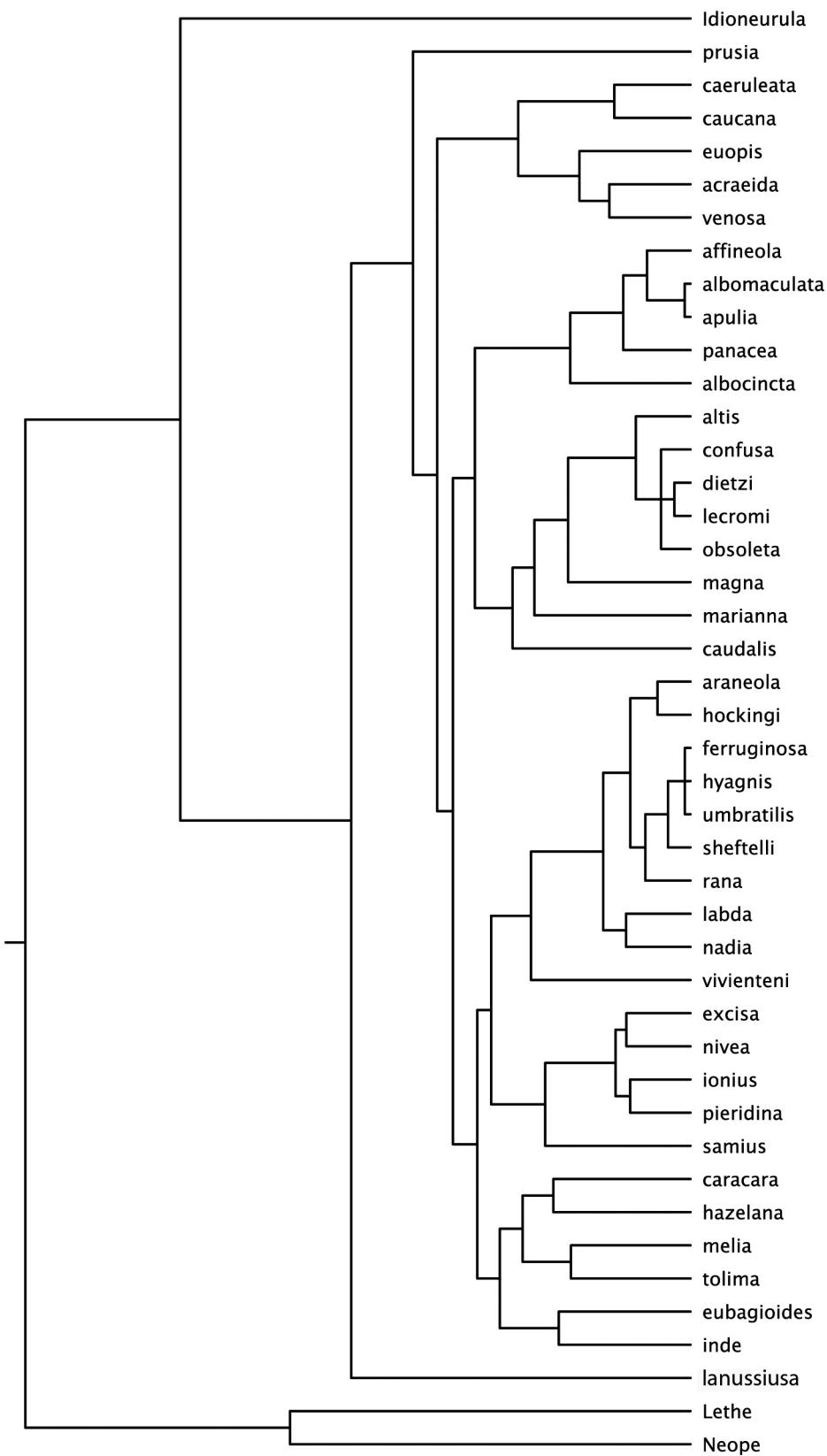


Figure S1. The genus *Lymanopoda* is monophyletic and sister to genus *Ianussiusa*.

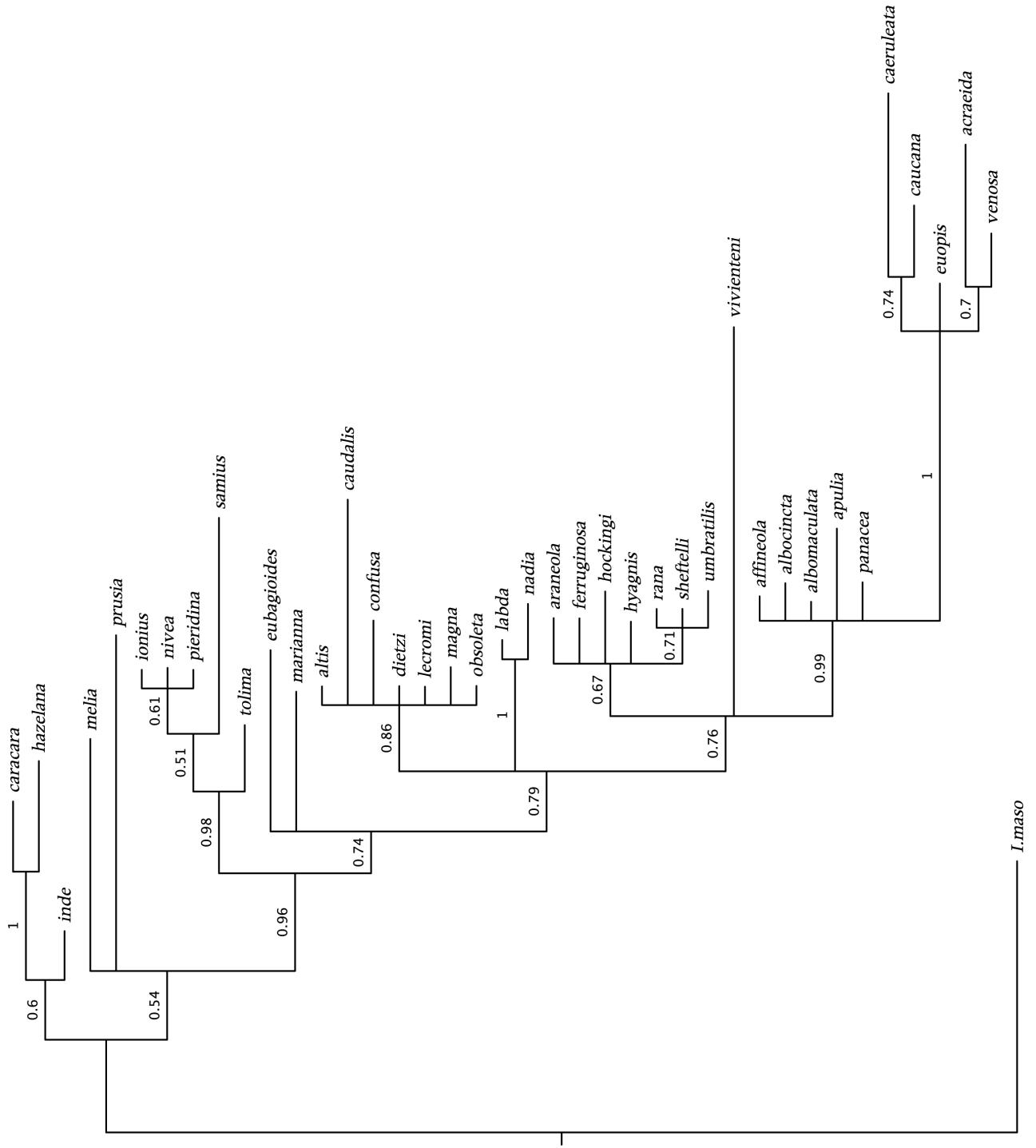


Figure S2. Elongation Factor 1-alpha (EF-1 α) gene tree. Posterior probability support values are above branches.

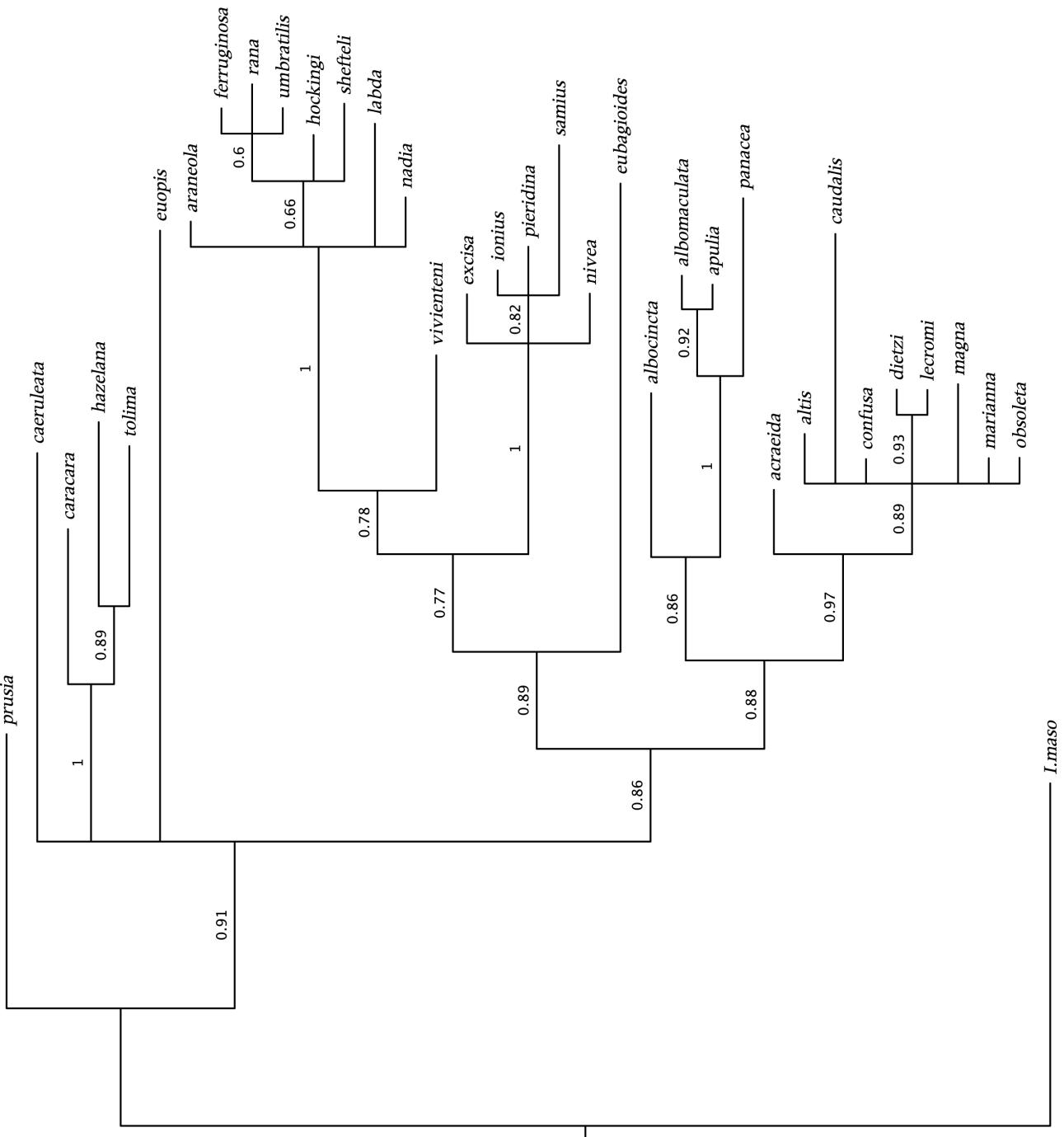


Figure S3. Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) gene tree. Posterior probability support values are above branches.

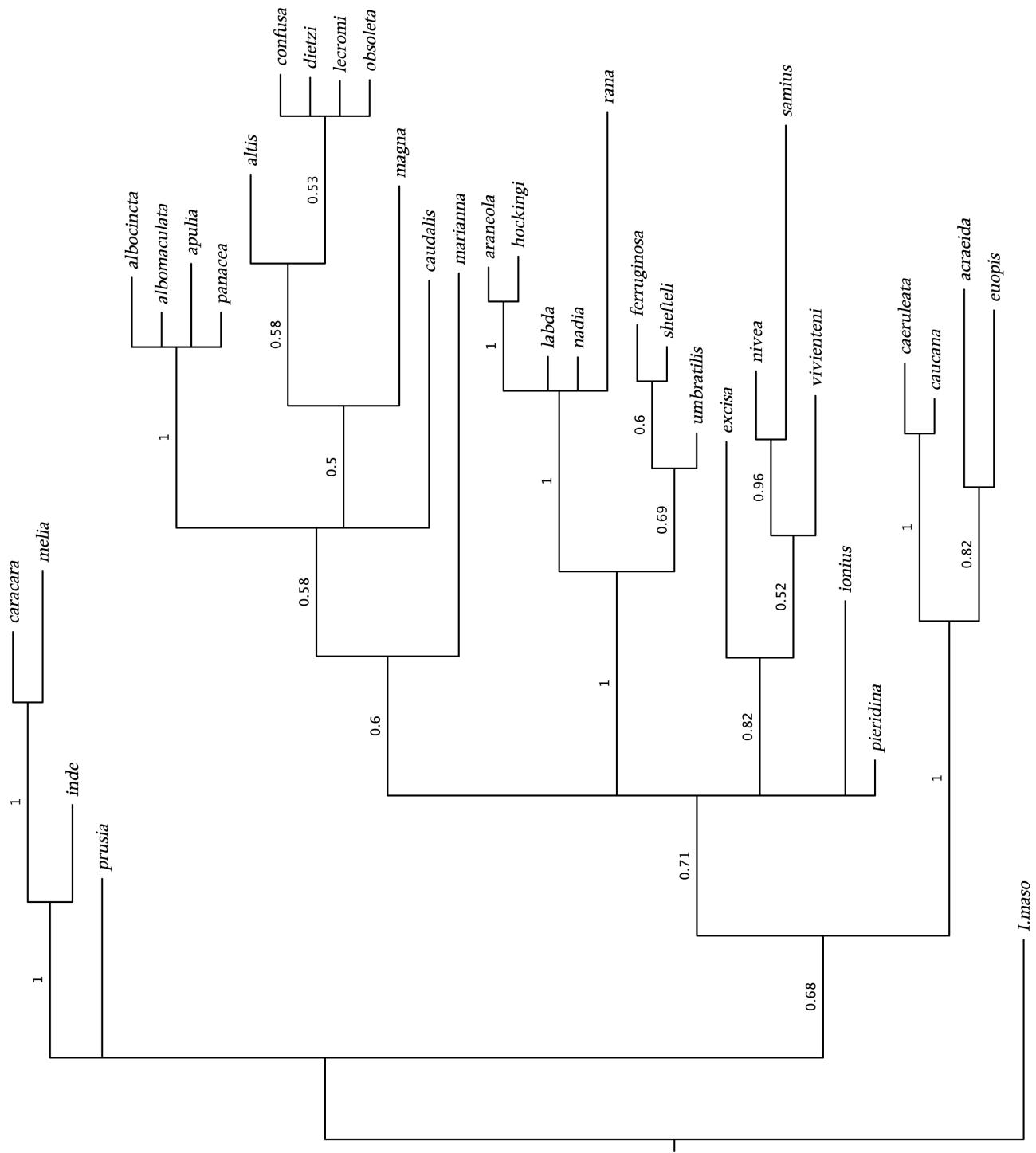


Figure S4. Ribosomal protein S5 (RPS5) gene tree. Posterior probability support values are above branches.

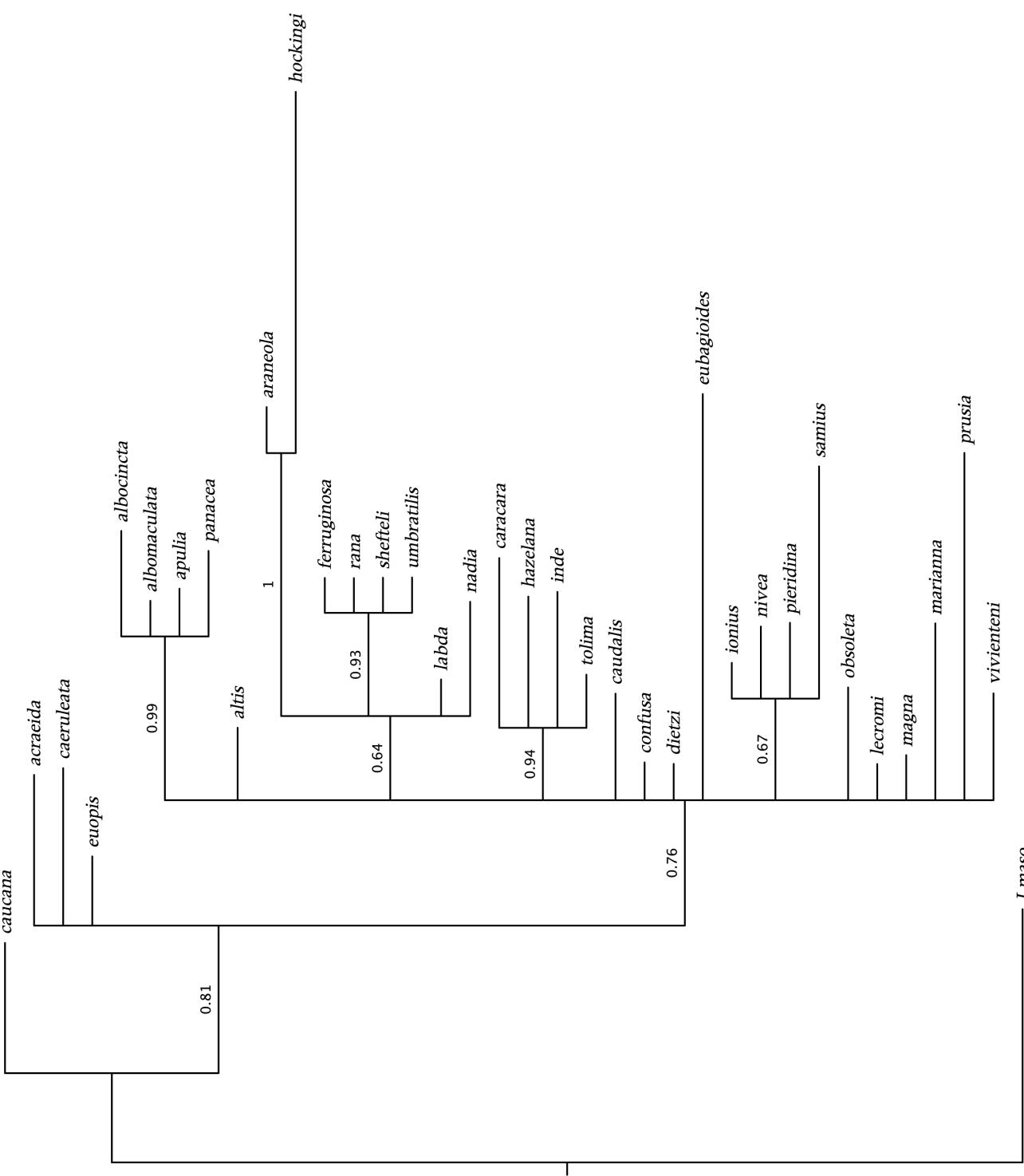


Figure S5. Wingless (wg) gene tree. Posterior probability support values are above branches.

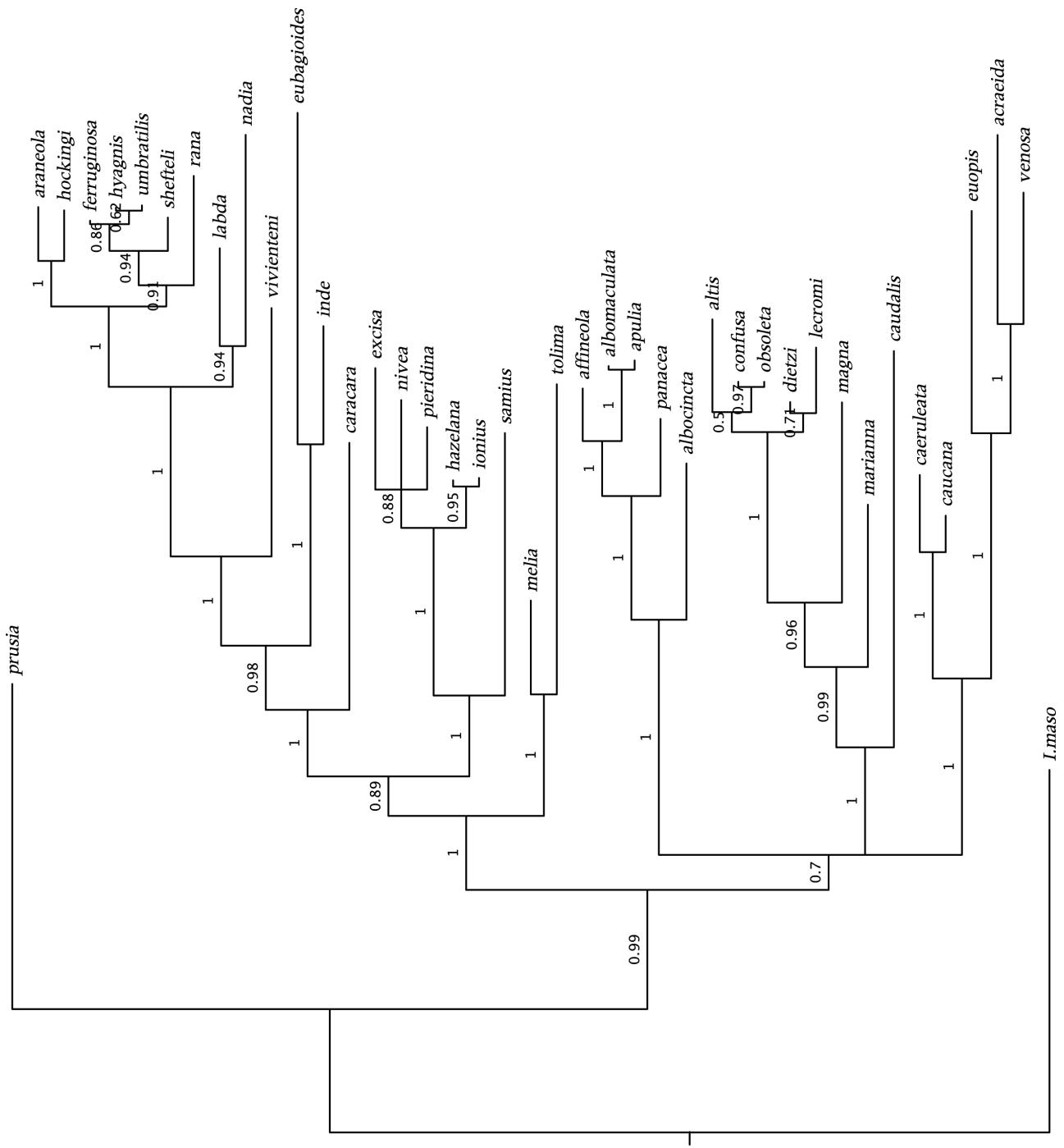


Figure S6. Mitochondrial cytochrome oxidase subunit I (COI) gene tree. Posterior probability support values are above branches.