

S8 Table. Position, composite likelihood-ratio statistics (CLR) and strength of selection (α , $2N_e s$, and s) for the highest CLR and the smallest α value on each background scaffold (α_{min}) for the *H. melpomene*-clade. Data are from SweepFinder2 [74,76] runs with background site frequency spectrum estimated from background and colour pattern scaffolds.

Population	Scaffold	Position	CLR	α	$2N_e s$	s	Position (α_{min})	CLR (α_{min})	α_{min}	$2N_e s$ (α_{min})	s (α_{min})
<i>H. besckei</i>	Hmel204017	2202171	10	545.28	654	0.001	2198120	7	41.71	8554	0.008
<i>H. c. chioneus</i>	Hmel204017	2299755	19	697.25	1570	0.001	2298955	16	219.31	4992	0.002
<i>H. c. cydnides</i>	Hmel204017	2003132	31	135.83	9006	0.003	2003932	22	131.74	9286	0.003
<i>H. c. weymeri gustavi</i>	Hmel204017	2019892	36	220.12	5376	0.002	2004140	22	100.88	11731	0.004
<i>H. c. weymeri weymeri</i>	Hmel204017	2016795	23	228.35	4828	0.002	2053101	0	96.24	11455	0.004
<i>H. c. zelinde</i>	Hmel204017	2255583	10	533.35	2113	0.001	2117268	7	292.38	3854	0.001
<i>H. elevatus Ecuador</i>	Hmel204017	2119154	24	437.64	3926	0.001	2110153	5	84.32	20375	0.005
<i>H. heurippa</i>	Hmel204017	2097849	76	70.77	11544	0.005	2096449	71	67.12	12171	0.005
<i>H. m. amaryllis</i>	Hmel204017	1957699	13	253.74	6119	0.001	2108612	0	240.68	6451	0.002
<i>H. m. cythera</i>	Hmel204017	2070522	17	952.37	1287	0	2115325	15	194.2	6311	0.002
<i>H. m. ECU</i>	Hmel204017	2033793	16	823.66	1755	0	1957884	3	176.14	8205	0.002
<i>H. m. malleti COL</i>	Hmel204017	1940231	16	451.95	3123	0.001	1957983	9	195.98	7201	0.002
<i>H. m. malleti ECU</i>	Hmel204017	1940094	16	866.84	2008	0	2107461	0	258.44	6736	0.001
<i>H. m. melpomene COL</i>	Hmel204017	2070510	13	1260.27	1107	0	2054109	1	180.77	7720	0.002
<i>H. m. melpomene FG</i>	Hmel204017	2003188	23	140.16	5579	0.003	2001888	19	92.68	8437	0.004
<i>H. m. melpomene PAN</i>	Hmel204017	1958471	21	127.92	10911	0.003	1958371	21	127.07	10984	0.003
<i>H. m. meriana</i>	Hmel204017	1938159	32	336.68	1616	0.001	2054271	0	79.19	6871	0.004
<i>H. m. nanna NORTH</i>	Hmel204017	1962630	12	288.27	3705	0.001	2110887	0	163.6	6529	0.002
<i>H. m. nanna SOUTH</i>	Hmel204017	1987449	19	95.72	11159	0.004	1959497	11	49.03	21786	0.008
<i>H. m. plesseni</i>	Hmel204017	1960131	13	192.83	7408	0.002	1960181	12	190.87	7484	0.002
<i>H. m. rosina</i>	Hmel204017	2070277	14	634.92	1529	0.001	2117181	2	277.77	3495	0.001
<i>H. m. vicina</i>	Hmel204017	2028490	19	321.68	4339	0.001	1957980	9	100.14	13937	0.004
<i>H. m. vulcanus</i>	Hmel204017	1958592	29	106.22	8299	0.003	1960792	24	98.95	8909	0.004
<i>H. m. xenoclea</i>	Hmel204017	1940108	14	607.94	2121	0.001	2004412	3	329.68	3911	0.001
<i>H. pachinus</i>	Hmel204017	2113366	25	261.52	4568	0.001	2109366	12	61.19	19522	0.006
<i>H. t. florencía</i>	Hmel204017	1967332	29	163.58	6677	0.002	2065642	3	117.55	9292	0.003
<i>H. t. linaresi</i>	Hmel204017	1851421	22	765.3	1502	0	1859622	13	99.62	11540	0.004
<i>H. t. ssp. nov. ECU</i>	Hmel204017	1967446	14	227.52	5021	0.002	2089008	12	217.47	5252	0.002
<i>H. t. thelxinoe</i>	Hmel204017	1897232	12	1669.44	586	0	2199918	0	179.64	5442	0.002
<i>H. t. timareta f. contigua</i>	Hmel204017	1967333	21	219.12	4601	0.002	1894174	20	168.63	5979	0.002
<i>H. t. timareta f. timareta</i>	Hmel204017	2290611	19	396.19	2716	0.001	1967917	17	155.17	6934	0.002
<i>H. t. ssp. nov. COL</i>	Hmel204017	1967382	21	147.35	6899	0.003	2065945	15	82.77	12282	0.004
<i>H. besckei</i>	Hmel206006	623821	32	97.56	2909	0.003	446294	8	74.45	3812	0.003
<i>H. c. chioneus</i>	Hmel206006	552281	26	237.71	3714	0.001	635236	5	144.84	6096	0.002
<i>H. c. cydnides</i>	Hmel206006	621246	35	230.14	3875	0.001	636247	7	111.31	8011	0.002

Population	Scaffold	Position	CLR	α	2Ns	s	Position (α_{min})	CLR (α_{min})	α_{min}	2Ns (α_{min})	s (α_{min})
<i>H. c. weymeri gustavi</i>	Hmel206006	551591	22	302.96	2709	0.001	635797	2	166.98	4916	0.002
<i>H. c. weymeri weymeri</i>	Hmel206006	358310	31	369.33	2141	0.001	581335	0	319.73	2473	0.001
<i>H. c. zelinde</i>	Hmel206006	625531	16	354.12	2294	0.001	625781	14	312.76	2598	0.001
<i>H. elevatus Ecuador</i>	Hmel206006	625339	44	206.24	6388	0.001	625089	34	193.59	6805	0.001
<i>H. heurippa</i>	Hmel206006	692324	168	74.34	7707	0.004	622715	85	66.49	8616	0.004
<i>H. m. amaryllis</i>	Hmel206006	792036	10	6846.76	189	0	624816	1	663.78	1952	0
<i>H. m. cythera</i>	Hmel206006	327697	24	363.9	2483	0.001	327697	24	363.9	2483	0.001
<i>H. m. ECU</i>	Hmel206006	754627	14	2689.83	387	0	604518	4	369.31	2819	0.001
<i>H. m. malleti COL</i>	Hmel206006	519734	13	860.75	1194	0	330368	3	377.11	2726	0.001
<i>H. m. malleti ECU</i>	Hmel206006	520036	17	670.59	2001	0	604349	1	256.42	5232	0.001
<i>H. m. melpomene COL</i>	Hmel206006	435316	57	323.64	3074	0.001	635627	2	182.56	5450	0.001
<i>H. m. melpomene FG</i>	Hmel206006	748824	25	446.97	1452	0.001	603265	10	113.82	5702	0.002
<i>H. m. melpomene PAN</i>	Hmel206006	550748	34	108.81	9072	0.002	550448	3	106.69	9253	0.003
<i>H. m. meriana</i>	Hmel206006	398903	39	187.53	2422	0.001	399353	28	176.16	2578	0.001
<i>H. m. nanna NORTH</i>	Hmel206006	624824	26	114.64	7274	0.002	624874	26	114.5	7282	0.002
<i>H. m. nanna SOUTH</i>	Hmel206006	697150	19	74.81	11146	0.004	593689	12	71	11745	0.004
<i>H. m. plesseni</i>	Hmel206006	542803	20	607.55	1666	0	604459	1	287.69	3519	0.001
<i>H. m. rosina</i>	Hmel206006	435387	21	579.17	1374	0	485890	4	372.9	2134	0.001
<i>H. m. vicina</i>	Hmel206006	596517	13	555.86	1790	0	635772	2	150.84	6596	0.002
<i>H. m. vulcanus</i>	Hmel206006	620745	37	204.59	3271	0.001	619745	33	161.41	4146	0.002
<i>H. m. xenoclea</i>	Hmel206006	602412	12	256.85	3909	0.001	602712	8	224.35	4475	0.001
<i>H. pachinus</i>	Hmel206006	602775	30	114.42	7436	0.002	603575	26	103.26	8240	0.003
<i>H. t. florencia</i>	Hmel206006	619768	54	158.05	5210	0.002	604217	12	115.02	7160	0.002
<i>H. t. linaresi</i>	Hmel206006	647619	30	294.32	2672	0.001	647569	28	294.19	2673	0.001
<i>H. t. ssp. nov. ECU</i>	Hmel206006	622609	54	148.24	5681	0.002	635360	12	134.25	6273	0.002
<i>H. t. thelxinoe</i>	Hmel206006	619714	49	200.32	3824	0.001	619764	48	199.77	3834	0.001
<i>H. t. timareta f. contigua</i>	Hmel206006	700365	20	884.42	865	0	736970	0	249.31	3068	0.001
<i>H. t. timareta f. timareta</i>	Hmel206006	739820	17	439.77	1821	0.001	503640	3	409.39	1956	0.001
<i>H. t. ssp. nov. COL</i>	Hmel206006	600699	80	63.47	10739	0.004	599899	77	62.48	10908	0.004
<i>H. besckei</i>	Hmel208051	754245	18	63.65	5209	0.006	755845	12	46.58	7119	0.008
<i>H. c. chioneus</i>	Hmel208051	1042680	19	158.11	7208	0.003	911321	11	91.25	12489	0.004
<i>H. c. cydnides</i>	Hmel208051	1043501	22	148.57	7166	0.003	1043501	22	148.57	7166	0.003
<i>H. c. weymeri gustavi</i>	Hmel208051	1039926	45	81.67	12625	0.005	934568	21	72.99	14126	0.005
<i>H. c. weymeri weymeri</i>	Hmel208051	1043638	21	341.79	2883	0.001	638197	9	132.55	7435	0.003
<i>H. c. zelinde</i>	Hmel208051	687356	18	424.56	2643	0.001	948375	7	136.57	8216	0.003
<i>H. elevatus Ecuador</i>	Hmel208051	1044514	49	97.68	16657	0.004	929249	9	90.21	18036	0.005
<i>H. heurippa</i>	Hmel208051	982755	352	13.28	56565	0.029	983505	284	12.93	58060	0.03
<i>H. m. amaryllis</i>	Hmel208051	1048965	13	801.01	2058	0.001	1045165	4	223.02	7391	0.002
<i>H. m. cythera</i>	Hmel208051	846537	21	442.22	2903	0.001	955998	17	136.1	9432	0.003
<i>H. m. ECU</i>	Hmel208051	1024299	26	94.47	14695	0.004	1024249	26	94.32	14719	0.004

Population	Scaffold	Position	CLR	α	2Ns	s	Position (α_{min})	CLR (α_{min})	α_{min}	2Ns (α_{min})	s (α_{min})
<i>H. m. malleti</i> COL	Hmel208051	1049946	11	209.12	6954	0.002	1049946	11	209.12	6954	0.002
<i>H. m. malleti</i> ECU	Hmel208051	1050196	11	1123.99	1587	0	637708	0	359.68	4960	0.001
<i>H. m. melpomene</i> COL	Hmel208051	694915	15	955.82	1439	0	745370	1	186.47	7377	0.002
<i>H. m. melpomene</i> FG	Hmel208051	706418	10	602.4	1549	0.001	1029013	7	177.13	5267	0.002
<i>H. m. melpomene</i> PAN	Hmel208051	992145	20	446.35	3005	0.001	905339	6	175.09	7660	0.002
<i>H. m. meriana</i>	Hmel208051	1024688	41	85.45	7938	0.005	1053241	33	79.51	8530	0.005
<i>H. m. nanna</i> NORTH	Hmel208051	1037151	165	21.66	49737	0.018	1040451	129	20.15	53472	0.02
<i>H. m. nanna</i> SOUTH	Hmel208051	945416	17	35.09	30698	0.011	761453	5	23.47	45887	0.017
<i>H. m. plesseni</i>	Hmel208051	1100404	11	658.06	2288	0.001	1023896	3	135.07	11149	0.003
<i>H. m. rosina</i>	Hmel208051	903527	16	253.68	3794	0.002	956032	10	159.2	6045	0.002
<i>H. m. vicina</i>	Hmel208051	1069609	27	95.31	14433	0.004	1053206	20	78.74	17470	0.005
<i>H. m. vulcanus</i>	Hmel208051	981677	25	185	4633	0.002	986477	19	92.31	9286	0.004
<i>H. m. xenoclea</i>	Hmel208051	1048964	13	662.39	2014	0.001	1052915	4	178.7	7466	0.002
<i>H. pachinus</i>	Hmel208051	958623	33	124.22	8836	0.003	957523	33	78.89	13913	0.005
<i>H. t. florenci</i>	Hmel208051	1046270	132	32.25	31761	0.012	1031368	98	30.46	33621	0.013
<i>H. t. linaresi</i>	Hmel208051	1053301	48	72.19	14440	0.006	1053251	47	72.19	14440	0.006
<i>H. t. ssp. nov.</i> ECU	Hmel208051	1045877	92	35.49	29744	0.011	1046027	21	35.22	29971	0.011
<i>H. t. thelxinoe</i>	Hmel208051	909917	58	68.56	13188	0.006	910767	54	53.6	16868	0.007
<i>H. t. timareta f. contigua</i>	Hmel208051	1045354	53	51.84	17529	0.008	1045254	53	51.71	17571	0.008
<i>H. t. timareta f. timareta</i>	Hmel208051	1040433	50	47.32	20836	0.008	1043433	39	44.08	22366	0.009
<i>H. t. ssp. nov.</i> COL	Hmel208051	1024784	108	27.27	34225	0.015	1024684	108	27.26	34240	0.015
<i>H. besckei</i>	Hmel219003	5636365	10	382.71	653	0.001	5656167	9	234.87	1063	0.001
<i>H. c. chioneus</i>	Hmel219003	5569780	55	103.99	6858	0.002	5569780	55	103.99	6858	0.002
<i>H. c. cydnides</i>	Hmel219003	5396768	101	93.28	7151	0.003	5396768	101	93.28	7151	0.003
<i>H. c. weymeri gustavi</i>	Hmel219003	5538911	79	126.32	4931	0.002	5286326	25	109.02	5713	0.002
<i>H. c. weymeri weymeri</i>	Hmel219003	5553535	205	45.63	13006	0.005	5553235	164	45.5	13044	0.005
<i>H. c. zelinde</i>	Hmel219003	5570029	85	75.96	9187	0.003	5570329	42	75.18	9283	0.003
<i>H. elevatus</i> Ecuador	Hmel219003	5568930	68	314.01	3574	0.001	5576931	16	192.94	5816	0.001
<i>H. heurippa</i>	Hmel219003	5611280	98	154.57	2329	0.001	5428619	91	100.02	3599	0.002
<i>H. m. amaryllis</i>	Hmel219003	5552829	22	640.11	1581	0	5555129	19	441.36	2292	0.001
<i>H. m. cythera</i>	Hmel219003	5246608	183	46.31	16549	0.005	5245608	144	45.94	16683	0.005
<i>H. m.</i> ECU	Hmel219003	5576937	56	96.52	9250	0.003	5577787	52	95.49	9350	0.003
<i>H. m. malleti</i> COL	Hmel219003	5252414	26	323.26	2600	0.001	5254414	19	196.08	4287	0.001
<i>H. m. malleti</i> ECU	Hmel219003	5567800	39	469.27	2247	0.001	5576701	19	160.88	6554	0.002
<i>H. m. melpomene</i> COL	Hmel219003	5588298	23	1036.13	826	0	5254406	6	426.4	2008	0.001
<i>H. m. melpomene</i> FG	Hmel219003	5553326	40	184.69	2878	0.001	5554226	40	181.55	2928	0.001
<i>H. m. melpomene</i> PAN	Hmel219003	5254467	58	122.63	6589	0.002	5254417	58	122.44	6599	0.002
<i>H. m. meriana</i>	Hmel219003	5452642	46	241.13	1623	0.001	5244725	29	148.28	2639	0.002
<i>H. m. nanna</i> NORTH	Hmel219003	5576562	96	37.54	17732	0.006	5576712	95	37.52	17742	0.006
<i>H. m. nanna</i> SOUTH	Hmel219003	5597149	76	53.93	12342	0.004	5607500	18	45.49	14634	0.005

Population	Scaffold	Position	CLR	α	$2N_e s$	s	Position (α_{min})	CLR (α_{min})	α_{min}	$2N_e s$ (α_{min})	s (α_{min})
<i>H. m. plesseni</i>	Hmel219003	5567856	29	333.57	2549	0.001	5254487	26	145.16	5858	0.002
<i>H. m. rosina</i>	Hmel219003	5551670	47	201.16	3144	0.001	5255329	30	145.08	4360	0.002
<i>H. m. vicina</i>	Hmel219003	5586901	36	297.39	2879	0.001	5551797	24	155.19	5517	0.002
<i>H. m. vulcanus</i>	Hmel219003	5553765	50	237.42	2287	0.001	5577818	26	212.72	2553	0.001
<i>H. m. xenoclea</i>	Hmel219003	5569609	25	323.88	2512	0.001	5576810	6	145.39	5597	0.002
<i>H. pachinus</i>	Hmel219003	5551837	78	116.07	5952	0.002	5555137	69	111.15	6215	0.002
<i>H. t. florenzia</i>	Hmel219003	5715417	124	98.33	5559	0.002	5251087	41	48.88	11184	0.005
<i>H. t. linaresi</i>	Hmel219003	5610520	98	190.54	2748	0.001	5388490	69	89.17	5872	0.003
<i>H. t. ssp. nov. ECU</i>	Hmel219003	5715383	137	89.06	6202	0.003	5251238	26	77.57	7120	0.003
<i>H. t. thelxinoe</i>	Hmel219003	5611298	171	88.73	4321	0.003	5611098	168	88.41	4336	0.003
<i>H. t. timareta f. contigua</i>	Hmel219003	5250567	175	32.56	14290	0.007	5250067	132	32.27	14420	0.007
<i>H. t. timareta f. timareta</i>	Hmel219003	5551811	114	88.55	5363	0.003	5251171	38	75.12	6322	0.003
<i>H. t. ssp. nov. COL</i>	Hmel219003	5583888	412	21.17	21110	0.011	5575787	274	19.51	22910	0.012