

**Supplementary material**

**A happy family: systematic revision of the endemic *Theridion* spiders (Araneae, Theridiidae) of the Hawaiian Islands**

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**Table S1. List of sampled material**

Specimen code, sex, locality name, geographic coordinates and elevation are included for each specimen. Locality number corresponds with the locations mapped in Fig. 1

Island	Locality	Specimen code	Species	Sex	Locality name	Latitude	Longitude	Elevation (m)
Kauai	1	B1-03	<i>T. kauaiense</i>	1 ♀, 2 juv	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	1097
Kauai	1	B1-07	<i>T. kauaiense</i>	1 ♀	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	1097
Kauai	1	B2-01	<i>T. kauaiense</i>	2 ♀, 1 juv	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	
Kauai	1	SPM000149	<i>T. kauaiense</i>	2 ♀, 8 juv.	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	1000
Kauai	1	SPM000200	<i>T. kauaiense</i>	1 ♀	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	1000
Kauai	1	SPM000201	<i>T. kauaiense</i>	2 ♀	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	1000
Kauai	1	SPM000203	<i>T. kauaiense</i>	1 ♂	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	1000
Kauai	1	SPM000209	<i>T. kauaiense</i>	3 ♀, 2 juv.	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	1000
Kauai	1	SPM000212	<i>T. kauaiense</i>	1 ♂, 4 ♀	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	1000
Kauai	1	SPM000578	<i>T. kauaiense</i>	1 ♂, 3 ♀	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	1000
Kauai	1	TPV-02	<i>T. kauaiense</i>	1 ♂ 3 ♀	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	
Kauai	1	B1-08	<i>T. perkinsi</i>	2 ♂	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	1097
Kauai	1	TPV-01	<i>T. perkinsi</i>	1 ♀	Koke'e St. Pk, Nualolo trail	22.139766	-159.673621	
Kauai	2	AR2357	<i>T. perkinsi</i>	3 ♂, 2 ♀	Koholuamana, Waimea Mts	21.959165	-159.671049	
Kauai	3	BISHOP-T000028	<i>T. perkinsi</i>	1 ♀	Koke'e St. Pk region, Kumuwelas & Mahihi ridges	22.128876	-159.660873	
Kauai	4	SPM000137	<i>T. kauaiense</i>	3 ♀, 6 juv.	Koke'e St. Pk, Halemanu Tr	22.123358	-159.655892	1100
Kauai	4	SPM000179	<i>T. kauaiense</i>	2 sub.♂, 2 ♀, 1 juv.	Koke'e St. Pk, Halemanu Tr	22.123352	-159.655886	1100
Kauai	4	SPM000182	<i>T. kauaiense</i>	1 ♀	Koke'e St. Pk, Halemanu Tr	22.123354	-159.655888	1100
Kauai	4	SPM000183	<i>T. kauaiense</i>	2 ♀	Koke'e St. Pk, Halemanu Tr	22.123355	-159.655889	1100
Kauai	4	SPM000191	<i>T. kauaiense</i>	2 ♀, 1 juv.	Koke'e St. Pk, Halemanu Tr	22.123356	-159.65589	1100
Kauai	4	SPM000192	<i>T. kauaiense</i>	4 ♀	Koke'e St. Pk, Halemanu Tr	22.123357	-159.655891	1100
Kauai	4	SPM000139	<i>T. perkinsi</i>	1 ♂, 1 ♀	Koke'e St. Pk, Halemanu Tr	22.123351	-159.655885	1100
Kauai	4	SPM000181	<i>T. perkinsi</i>	1 ♂	Koke'e St. Pk, Halemanu Tr	22.123353	-159.655887	1100
Kauai	4	SPM000225	<i>T. perkinsi</i>	1 ♂	Koke'e St. Pk, Waininiu Tr	22.122476	-159.652822	1000
Kauai	4	SPM000226	<i>T. perkinsi</i>	1 ♀	Koke'e St. Pk, Waininiu Tr	22.122476	-159.652822	1000
Kauai	4	SPM000801	<i>T. perkinsi</i>	1 ♂	Koke'e St. Pk, Halemanu Tr	22.123358	-159.655892	1100
Kauai	5	TPV-04	<i>T. kauaiense</i>	2 ♀	Waininiuua trail off Kumuwela road	22.152665	-159.650116	
Kauai	6	BH 17872	<i>T. juno</i>	1 ♂	Koke'e St. Pk	22.13967	-159.639382	1067
Kauai	6	BISHOP-T000014	<i>T. kauaiense</i>	1 ♂	Koke'e St. Pk	22.13967	-159.639382	
Kauai	6	BISHOP-T000015	<i>T. kauaiense</i>	1 ♀	Koke'e St. Pk	22.13967	-159.639382	
Kauai	6	BISHOP-T000010	<i>T. perkinsi</i>	1 ♂	Koke'e St. Pk	22.13967	-159.639382	1067
Kauai	6	BISHOP-T000011	<i>T. perkinsi</i>	1 ♀	Koke'e St. Pk	22.13967	-159.639382	1067
Kauai	6	BISHOP-T000029	<i>T. perkinsi</i>	1 ♀	Koke'e St. Pk	22.13967	-159.639382	
Kauai	7	BISHOP-T000013	<i>T. kauaiense</i>	1 juv.	Koke'e St. Pk, 1 mile S of Kokee cabins	22.13886	-159.637633	1067
Kauai	8	B2-02	<i>T. kauaiense</i>	1 ♀	Kokee, near Moeloa Falle, site 3	22.125238	-159.631753	1042
Kauai	9	TPV-03	<i>T. kauaiense</i>	1 ♀	Kohuo trail, assoc. With	22.11279	-159.619707	
Kauai	10	BISHOP-T000001	<i>T. kauaiense</i>	♂	Alakai Swamp	22.14645	-159.61821	1219
Kauai	10	BISHOP-T000030	<i>T. perkinsi</i>	1 ♂, 1 ♀	Alakai Swamp	22.108403	-159.55833	1219
Kauai	10	BISHOP-T000036	<i>T. perkinsi</i>	2 ♀	Alakai Swamp	22.108403	-159.55833	1219
Kauai	11	SPM000223	<i>T. ariel</i>	1 juv.	Mohihi Rd, Kohua Tr head	22.11317	-159.59905	
Kauai	11	SPM000221	<i>T. kauaiense</i>	3 ♀	Mohihi Rd, Kohua Tr head	22.11317	-159.59905	
Kauai	11	SPM000800	<i>T. kauaiense</i>	1 ♀	Mohihi Rd, Kohua Tr head	22.11317	-159.59905	
Kauai	12	BH 17865	<i>T. ariel</i>	3 ♂, 2 ♀	La'au Ridge	22.139712	-159.54277	1225
Kauai	12	BH 17866	<i>T. ariel</i>	1 ♀	La'au Ridge	22.139712	-159.54277	1225
Kauai	12	MZB 2019-1290	<i>T. ariel</i>	1 ♂, 1 ♀, 3 juv	La'au Ridge	22.139712	-159.54277	1225
Kauai	12	SPM000155	<i>T. ariel</i>	1 ♀	La'au Ridge	22.139712	-159.54277	1225
Kauai	12	SPM000805	<i>T. ariel</i>	1 ♂	La'au Ridge	22.139712	-159.54277	1225

Island	Locality	Specimen code	Species	Sex	Locality name	Latitude	Longitude	Elevation (m)
Kauai	12	SPM000156	<i>T. kauaiense</i>	1 ♂	La'au Ridge	22.139712	-159.54277	1225
Kauai	13	SPM000158	<i>T. kauaiense</i>	2 ♀, 2 juv.	Wai'ale'ale camp site	22.070722	-159.496127	1100
Kauai	13	SPM000159	<i>T. perkinsi</i>	2 ♀	Wai'ale'ale camp site	22.070722	-159.496127	1100
Kauai	13	SPM000748	<i>T. perkinsi</i>	1 ♂, 1 ♀, 1 juv.	Wai'ale'ale camp site	22.070722	-159.496127	1100
Kauai	14	SPM000219	<i>T. perkinsi</i>	1 ♀	Mt. Kahili	21.962495	-159.482232	671
Kauai	14	SPM000220	<i>T. perkinsi</i>	1 ♀	Mt. Kahili, below radio tower	21.962495	-159.482232	671
Kauai	14	SPM000570	<i>T. perkinsi</i>	2 ♂, 1 ♀	Mt. Kahili, below radio tower	21.962495	-159.482232	671
Kauai	14	SPM000580	<i>T. perkinsi</i>	1 ♂, 1 ♀	Mt. Kahili, below radio tower	21.962495	-159.482232	671
Kauai	14	SPM000737	<i>T. perkinsi</i>	1 ♀	Mt. Kahili, below radio tower	21.962495	-159.482232	671
Kauai	14	SPM000787	<i>T. perkinsi</i>	1 ♂, 2 juv.	Mt. Kahili	21.962495	-159.482232	730
Kauai	14	SPM000802	<i>T. perkinsi</i>	1 ♂	Mt. Kahili, below radio tower	21.962495	-159.482232	671
Kauai	15	SPM000133	<i>T. ariel</i>	1 ♀, 1 juv.	Makalehas Mts, Weiku	22.1171944	-159.4147778	950
Kauai	15	SPM000751	<i>T. perkinsi</i>	1 ♀, 1 juv.	Makalehas Mts, Weiku	22.1171944	-159.4147778	950
Kauai	16	SPM000785	<i>T. perkinsi</i>	4 ♂, 3 ♀, 3 juv.	N. Fork, Wailua River	22.042037	-159.363313	549
Oahu	17	SPM000296	<i>T. caliban</i>	1 ♀	Wai'anaes, Wai'anae Kai	21.490083	-158.157444	530-680
Oahu	17	SPM000298	<i>T. caliban</i>	1 ♀	Wai'anaes, Wai'anae Kai	21.490083	-158.157444	530-680
Oahu	17	SPM000303	<i>T. caliban</i>	1 juv.	Wai'anaes, Wai'anae Kai	21.490083	-158.157444	530-680
Oahu	17	SPM000291	<i>T. melinum</i>	1 ♀	Wai'anaes, Wai'anae Kai	21.490083	-158.157444	530-680
Oahu	17	SPM000299	<i>T. melinum</i>	1 ♀	Wai'anaes, Wai'anae Kai	21.490083	-158.157444	530-680
Oahu	17	SPM000302	<i>T. melinum</i>	1 ♂	Wai'anaes, Wai'anae Kai	21.490083	-158.157444	530-680
Oahu	17	SPM000250	<i>T. posticatum</i>	1 ♀	Wai'anaes, Wai'anae Kai	21.490083	-158.157444	1200
Oahu	18	PKSP8389	<i>T. miranda</i>	1 ♂	N. Waianae Mtns, Kahanahaiki Valley	21.50244	-158.15611	600
Oahu	19	PKSP2789	<i>T. caliban</i>	1 ♀	S. Waianae Mtns, Palikea area	21.509838	-158.150086	800-925
Oahu	19	PKSP9686	<i>T. caliban</i>	1 ♂	S. Waianae Mtns, Palikea area	21.509838	-158.150086	850
Oahu	19	PKSP21391	<i>T. melinum</i>	1 ♂	S. Waianae Mtns, Palikea area	21.509838	-158.150086	800-925
Oahu	19	PKSP9782	<i>T. melinum</i>	1 ♀	S. Waianae Mtns, Palikea area	21.509838	-158.150086	800-925
Oahu	19	BH 17873	<i>T. miranda</i>	1 ♂	S. Waianae Mtns, Palikea area	21.509838	-158.150086	800-925
Oahu	19	PKSP9582	<i>T. posticatum</i>	1 ♂, 1 ♀	S. Waianae Mtns, Palikea area	21.509838	-158.150086	800-925
Oahu	19	PKSP9840	<i>T. posticatum</i>	1 ♀	S. Waianae Mtns, Palikea area	21.509838	-158.150086	800-925
Oahu	20	SPM000572	<i>T. grallator</i>	1 ♀	Pu'u Kaua wai'anaes	21.493575	-158.148442	671
Oahu	21	SPM000240	<i>T. posticatum</i>	1 ♀	Wai'anaes, Mt. Ka'ala NARS	21.507255	-158.141389	1227
Oahu	21	SPM000241	<i>T. posticatum</i>	1 ♀	Wai'anaes, Mt. Ka'ala NARS	21.507255	-158.141389	1227
Oahu	21	SPM000243	<i>T. posticatum</i>	1 ♀	Wai'anaes, Mt. Ka'ala NARS	21.507255	-158.141389	1219
Oahu	21	SPM000244	<i>T. posticatum</i>	1 ♀	Wai'anaes, Mt. Ka'ala NARS	21.507255	-158.141389	1219
Oahu	21	SPM000245	<i>T. posticatum</i>	1 ♂	Wai'anaes, Mt. Ka'ala NARS	21.507255	-158.141389	1219
Oahu	21	SPM000246	<i>T. posticatum</i>	1 ♀	Wai'anaes, Mt. Ka'ala NARS	21.507255	-158.141389	1219
Oahu	21	SPM000251	<i>T. posticatum</i>	1 ♀	Wai'anaes, Mt. Ka'ala NARS	21.507255	-158.141389	1219
Oahu	21	SPM000252	<i>T. posticatum</i>	1 ♀	Wai'anaes, Mt. Ka'ala NARS	21.507255	-158.141389	1219
Oahu	21	SPM000253	<i>T. posticatum</i>	1 ♀	Wai'anaes, Mt. Ka'ala NARS	21.507255	-158.141389	1219
Oahu	22	SPM000267	<i>T. grallator</i>	1 ♀	Honouliuli TNCHP, Pu'u Kaua, south gultch	21.441321	-158.075624	518-640
Oahu	22	SPM000269	<i>T. grallator</i>	1 ♀	Honouliuli TNCHP, Pu'u Kaua, south gultch	21.441321	-158.075624	518-640
Oahu	23	BH 17874	<i>T. miranda</i>	1 ♀	Pupukea Tr/Ko'olaus	21.653075	-158.05183	518
Oahu	24	SPM000362	<i>T. posticatum</i>	1 ♀	Ko'olaus, Ko'olauloa, Kahuku For. summit Tr	21.668667	-157.950003	
Oahu	25	BISHOP-T000055	<i>T. miranda</i>	1 ♀	Halawa ridge	21.381349	-157.905661	
Oahu	26	SPM000556	<i>T. grallator</i>	1 ♂	Ko'olaus, Halawa Valley	21.382738	-157.902183	305
Oahu	26	SPM000587	<i>T. grallator</i>	1 ♂	Ko'olaus, Halawa Valley	21.382738	-157.902183	305
Oahu	27	BISHOP-T000061	<i>T. caliban</i>	1 ♀	Ko'oolaus	21.449756	-157.898884	600
Oahu	27	BISHOP-T000061	<i>T. miranda</i>	1 ♂	Ko'oolaus	21.449756	-157.898884	600
Oahu	27	SPM000342	<i>T. posticatum</i>	1 ♂	Ko'oolaus	21.449756	-157.898884	
Oahu	27	SPM000344	<i>T. posticatum</i>	1 ♀	Ko'oolaus	21.449756	-157.898884	396
Oahu	28	MZB 2019-1289	<i>T. miranda</i>	1 ♀	Waimanu Tr/Ko'oolaus	21.43705	-157.896437	427-697
Oahu	29	SPM000364	<i>T. posticatum</i>	1 ♀	Ko'oolaus, Kahana Valley	21.547348	-157.883359	305
Oahu	30	SPM000392	<i>T. posticatum</i>	1 ♀	Ko'oolaus, Aieae ridge Tr	21.387544	-157.873754	610
Oahu	30	SPM000393	<i>T. posticatum</i>	1 ♀	Ko'oolaus, Aieae ridge Tr	21.387544	-157.873754	610
Oahu	30	SPM000394	<i>T. posticatum</i>	1 ♂	Ko'oolaus, Aieae ridge Tr	21.387544	-157.873754	610

Island	Locality	Specimen code	Species	Sex	Locality name	Latitude	Longitude	Elevation (m)
Oahu	31	SPM000318	<i>T. posticatum</i>	1 ♂	Ko'olaus, Konahuanui, top	21.34551	-157.8062	960
Oahu	31	SPM000321	<i>T. posticatum</i>	1 ♀	Ko'olaus, Konahuanui, top	21.34551	-157.8062	960
Oahu	31	SPM000323	<i>T. posticatum</i>	2 ♀	Ko'olaus, Konahuanui, top	21.34551	-157.8062	960
Oahu	31	SPM000571	<i>T. posticatum</i>	2 ♀	Ko'olaus, Konahuanui, top	21.34551	-157.8062	
Oahu	32	SPM000349	<i>T. posticatum</i>	1 ♂	Ko'olaus, Konahuanui, 1 mile S top	21.341319	-157.792462	945
Oahu	32	SPM000352	<i>T. posticatum</i>	1 ♀	Ko'olaus, Konahuanui, 1 mile S top	21.341319	-157.792462	945
Oahu	32	SPM000412	<i>T. posticatum</i>	1 ♀	Ko'olaus, Konahuanui, 1 mile S top	21.341319	-157.792462	945
Oahu	33	SPM000410	<i>T. posticatum</i>	1 ♀	Ko'olaus, Manoa, near Ko'olau top	21.335588	-157.77683	
Oahu	33	SPM000411	<i>T. posticatum</i>	1 ♀	Ko'olaus, Manoa, near Ko'olau top	21.335588	-157.77683	
Oahu	34	BH 17867	<i>T. caliban</i>	1 ♀	Ko'olaus, Mt. Tantalus, Pu'u Ohia Tr	21.335588	-157.77683	550-550
Oahu	34	BH 17868	<i>T. caliban</i>	1 ♂	Ko'olaus, Mt. Tantalus, Pu'u Ohia Tr	21.335588	-157.77683	550-550
Oahu	34	MZB 2019-1288	<i>T. caliban</i>	1 ♀	Ko'olaus, Mt. Tantalus, Pu'u Ohia Tr	21.335588	-157.77683	550-550
Oahu	34	SPM000339	<i>T. posticatum</i>	1 ♀	Ko'olaus, Mt. Tantalus, Pu'u Ohia Tr	21.335588	-157.77683	550-550
Oahu	34	SPM000568	<i>T. posticatum</i>	1 ♂	Ko'olaus, Mt. Tantalus, Pu'u Ohia Tr	21.335588	-157.77683	550-550
Lanai	35	AR2352	<i>T. posticatum</i>	1 ♂	Lanai, kolole	20.817583	-156.927154	610
Molokai	36	BISHOP-T000087	<i>T. prospero</i>	1 ♂	Head of Kawela Gulch	21.10437	-156.90245	2591
Molokai	37	SPM000434	<i>T. ferdinand</i>	1 ♂, 1 juv	Upper Kawela Gulch	21.10437	-156.90245	1200
Molokai	38	BH 17871	<i>T. ferdinand</i>	1 ♂	Kamakou TNCHP, Pepeo'pae boardwalk	21.122413	-156.90031	1150
Molokai	38	MZB 2019-1287	<i>T. ferdinand</i>	2 ♀	Kamakou TNCHP, Pepeo'pae boardwalk	21.122413	-156.90031	1150
Molokai	38	SPM000170	<i>T. ferdinand</i>	1 ♀	Kamakou TNCHP, Pepeo'pae boardwalk	21.122413	-156.90031	1150
Molokai	38	SPM000172	<i>T. ferdinand</i>	1 ♀	Kamakou TNCHP, Pepeo'pae boardwalk	21.122413	-156.90031	1150
Molokai	38	SPM000173	<i>T. ferdinand</i>	2 ♂, 4 ♀, 6 juv.	Kamakou TNCHP, Pepeo'pae boardwalk	21.122413	-156.90031	1150
Molokai	38	MZB 2019-1291	<i>T. prospero</i>	1 ♀	Kamakou TNCHP, Pepeo'pae boardwalk	21.122413	-156.90031	1150
Molokai	38	SPM000171	<i>T. prospero</i>	2 ♂, 1 juv.	Kamakou TNCHP, Pepeo'pae boardwalk	21.122413	-156.90031	1150
Molokai	39	SPM000432	<i>T. ferdinand</i>	1 ♀	Kamakou TNCHP, 0.5 m NE cabin	21.118852	-156.896138	1219
Molokai	40	BISHOP-T000083	<i>T. mauienze</i>	1 ♂	Pu'u Kolekole	21.118666	-156.893908	914-1067
Molokai	41	SPM000436	<i>T. melinum</i>	1 ♂, 1 ♀, 1 juv.	Molokai Forest Reserve, Kahanui Rd	21.114201	-156.848673	
West Maui	42	SPM000442	<i>T. grallator</i>	1 ♀	Pu'u Kukui cabin Rd	20.894933	-156.58967	762
West Maui	43	MZB 2019-1286	<i>T. ferdinand</i>	1 ♀	Pu'u Kukui, Boardwalk	20.893813	-156.588924	1372
West Maui	43	SPM000168	<i>T. ferdinand</i>	1 sub. ♂	Pu'u Kukui, Boardwalk	20.893813	-156.588924	1372
West Maui	43	SPM000443	<i>T. ferdinand</i>	1 ♀, 1 juv.	Pu'u kukui Tr, in Cibotium	20.893813	-156.588924	1220
West Maui	43	SPM000164	<i>T. grallator</i>	2 ♂, 4 ♀, 2 juv.	Pu'u Kukui, Boardwalk	20.893813	-156.588924	1372
West Maui	43	SPM000166	<i>T. grallator</i>	4 ♂	Pu'u Kukui, Boardwalk	20.893813	-156.588924	1372
West Maui	43	SPM000161	<i>T. melinum</i>	1 ♀	Pu'u Kukui, Haeala'au cabin	20.893813	-156.588924	908
West Maui	43	SPM000163	<i>T. melinum</i>	1 ♀	Pu'u Kukui, Boardwalk	20.893813	-156.588924	1372
East Maui	44	SPM000452	<i>T. melinum</i>	1 ♂	Makua	20.645803	-156.341853	1524
East Maui	44	SPM000453	<i>T. melinum</i>	1 ♂	Makua	20.645803	-156.341853	1524
East Maui	44	SPM000569	<i>T. melinum</i>	1 ♀	Makua	20.645803	-156.341853	1524
East Maui	44	SPM000577	<i>T. melinum</i>	1 ♂	Makua	20.645803	-156.341853	1524
East Maui	46	AR2356	<i>T. haleakalense</i>	1 ♂, 1 ♀	Haleakala	20.712078	-156.253957	
East Maui	46	AR2360	<i>T. melinum</i>	1 ♀	Haleakala	20.712078	-156.253957	
East Maui	47	SPM000472	<i>T. mauienze</i>	1 ♀	Haleakala NP, park headquarters	20.768323	-156.237654	2438
East Maui	47	SPM000473	<i>T. mauienze</i>	1 ♂	Haleakala NP, park headquarters	20.768323	-156.237654	2438
East Maui	47	SPM000773	<i>T. mauienze</i>	1 ♂	Haleakala NP, park headquarters	20.768323	-156.237654	2438
East Maui	48	SPM000762	<i>T. haleakalense</i>	2 ♂	Haleakala N.P., Kipahulu Valley, Central Pali Tr.	20.740476	-156.23517	1200
East Maui	49	BH 17869	<i>T. ceres</i>	1 ♀	Waikamoi Nature Conservancy	20.77546	-156.22747	1280
East Maui	49	SPM000490	<i>T. grallator</i>	1 ♀	Waikamoi Nature Conservancy	20.77546	-156.22747	
East Maui	49	SPM000497	<i>T. grallator</i>	1 ♀	Waikamoi Nature Conservancy	20.77546	-156.22747	1280
East Maui	49	SPM000771	<i>T. mauienze</i>	1 ♀	Waikamoi Nature Conservancy	20.77546	-156.22747	
East Maui	49	SPM000478	<i>T. melinum</i>	1 ♂	Waikamoi Nature Conservancy	20.77546	-156.22747	1341
East Maui	49	SPM000500	<i>T. melinum</i>	1 ♀	Waikamoi Nature Conservancy	20.77546	-156.22747	1280
East Maui	49	SPM000584	<i>T. melinum</i>	1 ♂	Waikamoi Nature Conservancy	20.77546	-156.22747	1280
East Maui	49	BH 17875	<i>T. prospero</i>	1 ♂	Waikamoi Nature Conservancy	20.77546	-156.22747	1359
East Maui	49	BH 17876	<i>T. prospero</i>	1 ♂	Waikamoi Nature Conservancy	20.77546	-156.22747	1280
East Maui	49	SPM000480	<i>T. prospero</i>	1 ♂	Waikamoi Nature Conservancy	20.77546	-156.22747	1341

Island	Locality	Specimen code	Species	Sex	Locality name	Latitude	Longitude	Elevation (m)
East Maui	49	SPM000484	<i>T. prospero</i>	1 ♂	Waikamoi Nature Conservancy	20.77546	-156.22747	1341
East Maui	49	SPM000485	<i>T. prospero</i>	1 ♂	Waikamoi Nature Conservancy	20.77546	-156.22747	1341
East Maui	49	SPM000487	<i>T. prospero</i>	1 ♂	Waikamoi Nature Conservancy	20.77546	-156.22747	1341
East Maui	49	SPM000491	<i>T. prospero</i>	1 ♂	Waikamoi Nature Conservancy	20.77546	-156.22747	1359
East Maui	49	SPM000496	<i>T. prospero</i>	1 ♂	Waikamoi Nature Conservancy	20.77546	-156.22747	1280
East Maui	50	SPM000782	<i>T. grallator</i>	1 ♂	Waikamoi Nature Conservancy, West of Carruther's camp	20.77546	-156.22747	
East Maui	50	SPM000777	<i>T. melinum</i>	1 ♂	Waikamoi Nature Conservancy, West of Carruther's camp	20.77546	-156.22747	
East Maui	50	SPM000779	<i>T. melinum</i>	1 ♂	Waikamoi Nature Conservancy, West of Carruther's camp	20.77546	-156.22747	
East Maui	50	SPM000780	<i>T. melinum</i>	1 ♂	Waikamoi Nature Conservancy, West of Carruther's camp	20.77546	-156.22747	
East Maui	50	SPM000781	<i>T. melinum</i>	1 ♂	Waikamoi Nature Conservancy, West of Carruther's camp	20.77546	-156.22747	
East Maui	50	SPM000784	<i>T. melinum</i>	1 ♂	Waikamoi Nature Conservancy, West of Carruther's camp	20.77546	-156.22747	
East Maui	51	SPM000448	<i>T. mauieense</i>	1 ♂	Ko'olau Gap, Waikau, Bottomless pit Tr	20.75898	-156.20593	2100
East Maui	52	HALE4446	<i>T. haleakalense</i>	1 ♂	Haleakala NP. West slope shrubland	20.714899	-156.159594	2360
East Maui	52	HALE4483	<i>T. haleakalense</i>	1 ♂	Haleakala NP. West slope shrubland	20.714899	-156.159594	2640
East Maui	52	HALE4446	<i>T. mauieense</i>	1 ♂	Haleakala NP. West slope shrubland	20.714899	-156.159594	2360
East Maui	52	HALE4474	<i>T. mauieense</i>	1 ♂	Haleakala NP. West slope shrubland	20.714899	-156.159594	2350
East Maui	52	HALE4483	<i>T. mauieense</i>	1 ♂	Haleakala NP. West slope shrubland	20.714899	-156.159594	2640
East Maui	53	SPM000460	<i>T. mauieense</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000461	<i>T. mauieense</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000462	<i>T. mauieense</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000463	<i>T. mauieense</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000464	<i>T. mauieense</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000465	<i>T. mauieense</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000466	<i>T. mauieense</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000467	<i>T. mauieense</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000468	<i>T. mauieense</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000469	<i>T. mauieense</i>	5 ♂, 1 juv.	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000566	<i>T. mauieense</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000575	<i>T. mauieense</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000581	<i>T. mauieense</i>	6 ♂, 4 ♀	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	53	SPM000471	<i>T. melinum</i>	1 ♂	Haleakala NP, Kaupo Valley, around cabin	20.649388	-156.125628	1798-1859
East Maui	54	SPM000758	<i>T. haleakalense</i>	1 ♂, 1 ♀	Hana F. R., Heleleikeohe Str., Pyrethrum fog mossy Ohia	20.7347	-156.06579	1615
East Maui	54	SPM000804	<i>T. haleakalense</i>	1 ♂	Hana F. R., Heleleikeohe Str., Pyrethrum fog mossy Ohia	20.7347	-156.06579	1615
Hawaii	55	AR2362	<i>T. grallator</i>	2 ♂, 1 ♀	Kona	19.661936	-155.958844	
Hawaii	55	AR2361	<i>T. praetextum</i>	1 ♂	Kona	19.661936	-155.958844	
Hawaii	56	SPM000511	<i>T. praetextum</i>	1 ♂	Hualalai, Koloko Rd	19.707523	-155.923999	1524
Hawaii	56	SPM000574	<i>T. praetextum</i>	1 ♂	Hualalai, Koloko Rd	19.707523	-155.923999	1524
Hawaii	57	BISHOP-T000108	<i>T. melinum</i>	1 ♂, 1 sub♂, 2 juv.	Pu'u Hualalai, Kahaui forest reserve	19.681872	-155.922906	914
Hawaii	58	SPM000555	<i>T. grallator</i>	1 ♂	Waimea, Waikoloa stream, on Ilex anomala	20.039696	-155.67378	975
Hawaii	59	B1-05	<i>T. melinum</i>	3 ♂, 4 ♀	Ohi'a, tree shaking	19.27147	-155.87529	2011
Hawaii	60	SPM000586	<i>T. grallator</i>	1 ♂	Hualalai	19.690582	-155.865024	1097
Hawaii	61	SPM000504	<i>T. melinum</i>	1 ♂	Hualalai, Pu'u Wa'a Wa'a	19.784915	-155.842087	1646
Hawaii	61	SPM000508	<i>T. melinum</i>	1 ♂	Hualalai, Pu'u Wa'a Wa'a	19.784915	-155.842087	1646
Hawaii	62	SPM000564	<i>T. grallator</i>	1 sub♂	Kohala Mts, Kehena Ditch Tr, on Ilex anomala	20.16795	-155.808803	1219
Hawaii	63	AR2355	<i>T. melinum</i>	3 ♂, 3 ♀	Kona, Kau	19.189246	-155.643086	
Hawaii	63	AR2353	<i>T. praetextum</i>	2 ♂	Kona, Kau	19.189246	-155.643086	
Hawaii	63	AR2353	<i>T. sycorax</i>	2 ♀	Kona, Kau	19.189246	-155.643086	
Hawaii	64	BH 17877	<i>T. sycorax</i>	1 ♂	Kau Forest Reserve, Hilea Gulch	19.23215	-155.52065	610
Hawaii	65	SPM000526	<i>T. praetextum</i>	1 ♂, 1 ♀	Mauna Kea, Laupahoehoe	19.82067	-155.46808	1067
Hawaii	65	SPM000527	<i>T. praetextum</i>	1 ♂	Mauna Kea, Laupahoehoe	19.82067	-155.46808	1067
Hawaii	65	SPM000528	<i>T. praetextum</i>	1 ♂	Mauna Kea, Laupahoehoe	19.82067	-155.46808	1067
Hawaii	65	SPM000531	<i>T. praetextum</i>	1 ♂	Mauna Kea, Laupahoehoe	19.82067	-155.46808	1067
Hawaii	65	SPM000532	<i>T. praetextum</i>	1 ♂	Mauna Kea, Laupahoehoe	19.82067	-155.46808	1067
Hawaii	65	SPM000533	<i>T. praetextum</i>	1 ♀, 2 juv.	Mauna Kea, Laupahoehoe	19.82067	-155.46808	1067
Hawaii	66	BISHOP-T000107	<i>T. melinum</i>	8 ♂, 10 ♀	Ahumoa crater, Mauna Kea	19.826152	-155.468035	2073

Island	Locality	Specimen code	Species	Sex	Locality name	Latitude	Longitude	Elevation (m)
Hawaii	67	BISHOP-T000072	<i>T. mauiense</i>	3 ♂, 1 sub♂, 3 juv.	Hale Pohaku, Mauna Kea	19.758821	-155.455796	2438
Hawaii	68	SPM000523	<i>T. grallator</i>	1 ♂	Saddle Rd, kipukas	19.687513	-155.454461	
Hawaii	68	SPM000524	<i>T. grallator</i>	1 ♀	Saddle Rd, kipukas	19.687513	-155.454461	
Hawaii	68	SPM000525	<i>T. grallator</i>	1 juv.	Saddle Rd, kipukas	19.687513	-155.454461	
Hawaii	68	SPM000576	<i>T. grallator</i>	1 ♂	Saddle Rd, large Kipuka m 18	19.687513	-155.454461	1524
Hawaii	68	BISHOP-T000104	<i>T. melinum</i>	1 ♂, 1 ♀	Saddle Rd 2 mi E of sheep station	19.687513	-155.454461	1524
Hawaii	68	SPM000520	<i>T. melinum</i>	1 ♂, 2 ♀	Saddle Rd, Kipuka 6, 19 m from Hilo	19.687513	-155.454461	1512
Hawaii	68	SPM000521	<i>T. melinum</i>	1 ♂	Saddle Rd, lava	19.687513	-155.454461	1829
Hawaii	69	SPM000514	<i>T. melinum</i>	1 ♀	Saddle Rd, mile 19-20, mesic/wet forest	19.671744	-155.348982	1524
Hawaii	69	SPM000515	<i>T. melinum</i>	3 ♂	Saddle Rd, mile 19-20, mesic/wet forest	19.671744	-155.348982	1524
Hawaii	69	SPM000516	<i>T. melinum</i>	1 ♀	Saddle Rd, mile 19-20, mesic/wet forest	19.671744	-155.348982	1524
Hawaii	69	SPM000517	<i>T. melinum</i>	1 ♀	Saddle Rd, mile 19-20, mesic/wet forest	19.671744	-155.348982	1524
Hawaii	69	SPM000518	<i>T. melinum</i>	1 ♂	Saddle Rd, mile 19-20, mesic/wet forest	19.671744	-155.348982	1524
Hawaii	70	SPM000546	<i>T. melinum</i>	1 ♀	Pu'u Akala	19.79124	-155.33667	1890
Hawaii	70	SPM000547	<i>T. melinum</i>	1 ♀	Pu'u Akala	19.79124	-155.33667	1890
Hawaii	71	B1-01	<i>T. mauiense</i>	1 ♂, 1 ♀	Hakalau Forest N.W.R., Pu'u Akala	19.791181	-155.334662	1889
Hawaii	71	B3-09	<i>T. mauiense</i>	1 ♂, 3 ♀	Hakalau Forest N.W.R., Pu'u Akala	19.791181	-155.334662	1981
Hawaii	71	B1-02	<i>T. melinum</i>	1 ♂	Hakalau Forest N.W.R., Pu'u Akala	19.791181	-155.334662	1889
Hawaii	71	B1-10	<i>T. melinum</i>	1 ♀	Hakalau Forest N.W.R., Pu'u Akala	19.791181	-155.334662	1889
Hawaii	71	B2-04	<i>T. melinum</i>	4 ♂, 1 juv.	Hakalau Forest N.W.R., Pu'u Akala	19.791181	-155.334662	1859
Hawaii	71	B3-01	<i>T. melinum</i>	3 ♂, 2 ♀	Hakalau Forest N.W.R., Pu'u Akala	19.791181	-155.334662	1524
Hawaii	71	B3-05	<i>T. melinum</i>	1 ♂	Hakalau Forest N.W.R., Pu'u Akala	19.791181	-155.334662	1889
Hawaii	71	B3-06	<i>T. melinum</i>	1 ♂	Hakalau Forest N.W.R., Pu'u Akala	19.791181	-155.334662	1889
Hawaii	71	B3-08	<i>T. melinum</i>	19 ♂, 12 ♀	Hakalau Forest N.W.R., Pu'u Akala	19.791181	-155.334662	1981
Hawaii	72	B1-04	<i>T. mauiense</i>	1 ♀	Makalau Forest N.W.R., Pu'u Akala	19.790158	-155.326053	
Hawaii	72	BB-000125	<i>T. mauiense</i>	2 ♂, 8 ♀, 4 juv.	Makalau Forest N.W.R., Pu'u Akala	19.790158	-155.326053	1981
Hawaii	73	BB-000124	<i>T. mauiense</i>	1 ♂	Hakalau Forest N.W.R. Sweeping Juncus	19.793563	-155.321112	
Hawaii	73	BB-000124	<i>T. melinum</i>	11 ♂, 4 ♀	Hakalau Forest N.W.R. Sweeping Juncus	19.793563	-155.321112	
Hawaii	74	BISHOP-T000102	<i>T. mauiense</i>	1 ♂, 2 ♀, 10 juv.	Mauna Loa strip trail	19.44152	-155.31476	1586
Hawaii	74	BISHOP-T000099	<i>T. melinum</i>	3 ♂	Mauna Loa strip trail	19.44152	-155.31476	1586
Hawaii	74	BISHOP-T000116	<i>T. melinum</i>	9 ♂, 10 ♀, 1 juv.	Mauna Loa strip trail	19.44152	-155.31476	1586
Hawaii	75	BISHOP-T000119	<i>T. melinum</i>	1 ♂, 3 ♀	HVNP: Kipuka Ki	19.445752	-155.303323	1312
Hawaii	75	BISHOP-T000120	<i>T. melinum</i>	2 ♂, 1 ♀	HVNP: Kipuka Ki	19.445752	-155.303323	1312
Hawaii	76	BISHOP-T000123	<i>T. melinum</i>	1 ♀	Kilauea, study site	19.406963	-155.283389	1586
Hawaii	77	SPM000573	<i>T. grallator</i>	1 ♀	Pu'u Maka'ala NAR, upper entry	19.484117	-155.271728	
Hawaii	77	SPM000537	<i>T. praetextum</i>	1 ♂	Pu'u Maka'ala NAR, upper entry	19.484117	-155.271728	
Hawaii	77	SPM000538	<i>T. praetextum</i>	3 ♂, 3 ♀	Pu'u Maka'ala NAR, upper entry	19.484117	-155.271728	
Hawaii	77	SPM000539	<i>T. praetextum</i>	1 ♀	Pu'u Maka'ala NAR, upper entry	19.484117	-155.271728	
Hawaii	77	SPM000540	<i>T. praetextum</i>	3 ♂, 1 ♀	Pu'u Maka'ala NAR, upper entry	19.484117	-155.271728	
Hawaii	77	SPM000541	<i>T. praetextum</i>	1 ♂	Pu'u Maka'ala NAR, upper entry	19.484117	-155.271728	
Hawaii	77	SPM000542	<i>T. praetextum</i>	2 ♂	Pu'u Maka'ala NAR, upper entry	19.484117	-155.271728	
Hawaii	77	SPM000583	<i>T. praetextum</i>	1 ♀	Pu'u Maka'ala NAR, upper entry	19.484117	-155.271728	
Hawaii	79	SPM000550	<i>T. grallator</i>	1 ♀	Thurston, Volcano	19.413953	-155.23866	1219
Hawaii	79	SPM000551	<i>T. grallator</i>	1 sub.♂	Thurston, Volcano	19.413953	-155.23866	1219
Hawaii	80	B1-09	<i>T. grallator</i>	1 ♂	Stainback Highway	19.581068	-155.171836	1000
Mau		SPM000435	<i>T. grallator</i>	1 ♀	Waikuilani Gulch			305
Kauai		SPM000234	<i>T. grallator</i>	1 juv.	Summit of Powerline Tr			671
		SPM000371	<i>T. grallator</i>	2 ♂				
		SPM000372	<i>T. grallator</i>	2 ♂				
		SPM000373	<i>T. grallator</i>	1 ♀				
Kauai		AR2354	<i>T. kauaiense</i>	1 ♀	Kanai			
Hawaii		SPM000561	<i>T. mauiense</i>	1 ♂, 1 ♀	Keauhou			1829
Hawaii		SPM000560	<i>T. melinum</i>	1 ♀	Keauhou			1829
Hawaii		B3-04	<i>T. melinum</i>	1 ♂	Iliahi Street - Hild			
		PKSP39109	<i>T. miranda</i>	1 ♂, 1 ♀				

**Table S2. Character matrix for the 22 morphological characters**

Unknown characters are coded as '?' and polymorphisms are coded as '[nn]'

Taxa	Continuous characters											Discrete characters													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
<i>T. ariel</i> , sp. nov.	1.266–1.393	1.297–1.407	0	0	0	1	0	0	1	0	0	0	0	0	0	2	1	1	1	0	1	1	1	1	0
<i>T. caliban</i> , sp. nov.	2.112–2.541	1.344–1.762	1	1	1	0	0	0	0	0	0	0	1	1	2	0	0	0	2	0	1	0	1	1	0
<i>T. ferdinand</i> , sp. nov.	1.493–1.654	1.871–1.970	1	0	0	0	0	1	1	0	1	0	0	0	2	0	1	1	0	0	0	1	1	1	0
<i>T. grallator</i>	0.926–1.225	0.906–1.186	0	0	0	1	1	0	1	0	0	0	0	0	1	0	2	0	1	1	0	0	1	1	0
<i>T. haleakalense</i>	0.995–1.311	1.140–1.565	0	0	0	0	0	0	1	0	0	0	0	0	2	0	1	1	0	0	0	1	1	1	0
<i>T. juno</i> , sp. nov.	?	?	0	1	1	1	0	0	1	1	1	0	0	0	?	?	?	?	2	1	0	1	1	1	0
<i>T. kauaiense</i>	1.942–2.323	1.472–1.493	0	1	0	0	0	0	0	0	0	0	1	1	2	0	0	0	2	0	1	0	1	1	0
<i>T. mauinese</i>	0.892–1.142	1.156–1.399	1	0	0	0	0	1	0	0	1	0	0	0	2	0	2	1	0	0	0	1	1	1	0
<i>T. melinum</i>	0.837–1.176	0.767–1.014	0	0	0	1	1	1	1	0	1	1	0	0	2	0	1	1	2	1	0	1	1	1	0
<i>T. miranda</i> , sp. nov.	0.990–1.051	0.807–0.924	1	0	0	0	0	1	0	0	1	0	0	0	1	0	1	1	2	2	0	1	1	1	0
<i>T. perkinsi</i>	1.288–1.498	1.269–1.524	0	1	0	1	0	1	1	1	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0
<i>T. posticatum</i>	1.248–1.554	1.154–1.482	1	1	0	0	0	1	0	0	0	1	0	0	2	0	0	0	0/2	0	0	1	1	1	0
<i>T. praetextum</i>	1.403–1.590	1.350–1.522	1	1	0	1	1	1	0	0	0	0	0	0	2	1	2	1	0	0	0	1	1	1	0
<i>T. prospero</i> , sp. nov.	?	0.944–1.190	1	0	0	0	1	1	0	0	0	0	0	0	?	?	?	?	2	2	0	1	1	1	0
<i>T. sycorax</i> , sp. nov.	?	?	1	0	0	0	1	0	1	1	0	0	0	0	2	1	0	1	1	0	0	1	1	1	0
<i>K. mneon</i>	?	?	1	1	0	?	?	1	1	1	0	0	1	1	2	1	1	0	-	?	0	1	0	0	0
<i>E. pallisterorum</i>	?	?	1	1	0	?	?	1	0	0	0	1	1	1	2	1	1	0	2	?	?	0	1	0	0