

Online Material

Table I. Geographical origins, altitude and colony sample sizes (n) of *A. cerana* used in the morphometric analysis of honeybees of Asia.

Country and locality	Coordinates	Alt.	n	Sources	M	S
Afghanistan						
1. Bidiwa	34.56N 70.22E	2206	4	6, 7, 8	I	a
2. Kabul	34.31N 69.08E	1795	2	6, 7, 8	I	a
3. Anhangaran	34.30N 64.51E	2062	2	6, 7, 8	I	a
Cambodia						
1. Sisophon	13.37N 102.58E	16	2	8	IV	
2. Stoeng Treng	13.26N 106.00E	99	5	8	IV	
3. Batdambang	13.06N 103.13E	40	4	8	IV	
4. Kompong Cham	11.59N 105.26E	21	3	8	IV	
5. Takeo	10.58N 104.46E	8	1	8	IV	
6. Kampot	10.37N 104.11E	21	2	8	IV	
China						
1. Jingyu (Jilin)	42.23N 126.48E	530	3	5, 14	I	c
2. Linjiang (Jilin)	41.48N 126.54E	309	3	5, 14	I	c
3. Xinbin (Liaoning)	41.43N 125.02E	323	3	5, 14	I	c
4. Jianguan (Jilin)	41.34N 126.01E	560	3	5, 14	I	c
5. Changbeishan (Jilin)	41.24N 128.11E	687	3	5, 14	I	c
6. Ji an (Jilin)	40.55N 125.53E	780	2	5, 14	I	c
7. Xiangshan (Beijing)	39.58N 116.12E	76	4	6, 14	I	c
8. Beijing	39.55N 116.23E	63	8	6, 14	I	c
9. Jingbian (Shaanxi)	37.36N 108.45E	1370	2	5, 14	I	c
10. Suide (Shaanxi)	37.29N 110.15E	885	1	5, 14	I	c
11. Qingjian (Shaanxi)	37.15N 110.15E	1200	2	5, 14	I	c
12. Qingcheng (Ganshu)	36.04N 107.52E	1258	2	5, 14	I	?
13. Guyuanxi (Ningxia)	36.04N 106.16E	1671	3	5, 14	I	?
14. Taiqian (Henan)	36.00N 115.45E	460	3	5, 14	I	d
15. Mengjin (Shandong)	35.42N 117.55E	180	5	5, 14	I	c/d
16. Pingliang (Ganshu)	35.32N 106.41E	1355	3	5, 14	I	?
17. Dingxili (Ganshu)	35.13N 103.57E	2024	3	5, 14	I	c
18. Mengjin (Henan)	34.57N 112.30E	180	3	5, 14	I	d
19. Tianshui (Ganshu)	34.48N 105.32E	1200	2	5, 14	I	c
20. Shanxian (Henan)	34.45N 111.18E	360	4	5, 14	I	d
21. Lingtan (Ganshu)	34.34N 103.50E	1154	2	5, 14	I	c
22. Mingxian (Ganshu)	34.33N 103.51E	2439	7	5, 14	I	c
23. Ruyang (Henan)	34.09N 112.27E	750	3	5, 14	I	d
24. Lushi (Henan)	34.02N 111.01E	100	3	5, 14	I	d
25. Yuwaqu (Sichuan)	33.55N 103.28E		3	5, 14	I	c
26. Jiaoqu (Sichuan)	33.37N 104.39E		3	5, 14	I	c
27. Zhumadia (Henan)	33.30N 113.45E	72	1	5, 14	I	d
28. Yonglezheng (Sichuan)	33.30N 104.26E		2	5, 14	I	c
29. Wujiaoxiang (Sichuan)	33.15N 104.22E		3	5, 14	I	c
30. Jiuzhaigon (Sichuan)	32.36N 103.54E	1200	4	5, 14	I	c
31. Xinyangnan (Henan)	32.05N 114.07E	1100	3	5, 14	I	d
32. Shengnongjia (Hubei)	31.43N 110.43E	1166	6	5, 14	I	d
33. Chengdhu (Sichuan)	30.40N 104.04E	529	5	5, 14	I	c/d
34. Huangshan (Anhui)	30.10N 118.21E	300	2	5, 14	I	d
35. Anyue (Sichuan)	30.08N 105.37E	325	2	5, 14	I	d

Table I. Continued.

Country and locality	Coordinates	Alt.	n	Sources	M	S
36. Ya-an (Sichuan)	29.58N 103.04E	588	10	5, 14	I	c
37. Chongqin (Sichuan)	29.15N 107.12E	608	3	5, 14	I	d
38. Pingjian (Hunan)	28.53N 113.56E	57	1	5, 14	I	d
39. Hengdong (Hunan)	27.04N 112.57E	34	4	5, 14	I	d
40. Lijiang (Yunnan)	26.52N 100.13E	2680	2	6, 8,14	I	d
41. Wugan (Hunan)	26.48N 110.51E	420	1	5, 14	I	d
42. Yuxian (Hunan)	26.31N 113.31E	280	1	5, 14	I	d
43. Huzhou (Hujian)	26.15N 119.20E	168	1	5, 14	I	d
44. Sayinpan (Yunnan)	26.01N 102.31E	2279	2	6, 8,14	I	d
45. Lushui (Yunnan)	25.57N 98.49E	1950	2	6, 8,14	I	d
46. Huize (Yunnan)	25.55N 103.26E	1550	1	6, 8,14	I	e
47. Binchuan (Yunnan)	25.51N 100.33E	1690	2	6, 8,14	I	d
48. Yuangbi (Yunnan)	25.39N 99.56E	1810	2	6, 8,14	I	d
49. Huichang (Jiangxi)	25.36N 115.47E	460	3	5, 14	I	d
50. Jianghua (Hunan)	25.01N 111.45E	305	1	5, 14	I	d
51. Pingle (Guangxi)	24.45N 107.58E		2	5, 14	I	d
52. Zhenkang (Yunnan)	24.00N 98.55E	868	2	6, 8,14	I	e
53. Laibin (Guangxi)	23.41N 109.16E	180	1	6, 8,14	I	e
54. Kaiyuan (Yunnan)	23.41N 102.05E	1148	2	6, 8,14	I	e
55. Yuanjian (Yunnan)	23.35N 101.59E	1500	1	5, 14	I	e
56. Caoba (Yunnan)	23.32N 103.23E	1293	2	6, 8,14	I	e
57. Guangzhou (Guangdon)	23.11N 112.48E	100	1	5, 14	I	e
58. Nanhai (Guangdon)	23.01N 113.08E	8	2	5, 14	I	e
59. Pingbian (Yunnan)	22.50N 103.43E	1400	2	6, 8,14	I	e
60. Simao (Yunnan)	22.43N 100.56E	1100	2	6, 8,14	I	e
61. Hekou (Yunnan)	22.30N 103.57E	122	2	6, 8,14	I	e
62. Hong Kong	22.16N 114.09E	88	12	5, 14	I	d/e
63. Jinghong (Yunnan)	21.55N 100.52E	600	2	6, 8,14	I	e
64. Yongxing (Hainan)	19.53N 110.15E	150	1	5, 8,14	I	e
65. Dingan (Hainan)	19.41N 110.19E	200	1	5, 8,14	I	e
66. Wenchang (Hainan)	19.37N 110.45E	80	1	5, 8,14	I	e
67. Qiongzong (Hainan)	19.02N 109.50E	260	1	5, 8,14	I	e
68. Jianfeng (Hainan)	18.42N 108.48E	100	2	5, 8,14	I	e
India						
1. Gurais	34.37N 74.53E	2364	5	4, 8	I	a
2. Kupwara	34.31N 74.16E	1811	5	4, 8	I	a
3. Dras	34.26N 75.46E	2977	4	4, 8	I	a
4. Sonamarg	34.18N 75.21E	2740	6	4, 6,8	I	a
5. Srinagar	34.08N 74.50E	1768	5	4, 8	I	a
6. Tral	33.56N 75.10E	2007	5	4, 8	I	a
7. Rajouri	33.23N 74.21E	938	5	4, 8	I	a
8. Kishtwar	33.19N 75.48E	1664	6	4, 6,8	I	a
9. Katra	33.03N 74.57E	753	1	6, 8	I	a
10. Dalhousie	32.32N 75.58E	2036	5	4, 8	I	b
11. Katrain	32.05N 77.08E	1463	5	4, 8	I	b
12. Kangra	32.05N 76.16E	700	5	4, 8	I	b
13. Mandi	31.43N 76.50E	761	5	4, 8	I	b
14. Pooh	31.40N 78.34E	2837	5	4, 6,8	I	b
15. Roghi	31.32N 78.15E	3017	5	4, 8	I	b
16. Bhareri	31.23N 76.34E	1007	5	4, 8	I	b

Table I. Continued.

Country and locality	Coordinates	Alt.	n	Sources	M	S
17. Bagi	31.15N 77.27E	2648	5	4, 8	I	b
18. Bilaspur	31.15N 76.40E	587	5	4, 8	I	b
19. Shimla	31.07N 77.10E	2206	5	4, 8	I	b
20. Solan	30.50N 77.08E	1530	5	4, 8	I	b
21. Nahan	30.33N 77.21E	905	5	4, 8	I	b
22. Dehradun	30.30N 78.08E	762	4	4, 8	II	a
23. Gubudia	30.21N 80.32E		1	6, 8	II	a
24. Pauri	30.12N 78.48E	1550	2	4, 8	II	a
25. Haridwar	30.02N 78.08E	330	2	4, 8	II	a
26. Chaubattia	29.55N 79.00E	212	4	4, 8	II	a
27. Almora	29.36N 79.40E	1651	5	4, 8	II	a
28. Lohaghat	29.25N 80.06E	1754	5	4, 8	II	a
29. Nainital	29.23N 79.32E	1920	2	4, 8	II	a
30. Jeolikote	29.16N 79.46E	1250	5	4, 8	II	a
31. Haldwani	29.13N 79.31E	424	5	4, 8	II	a
32. Budaun	28.02N 79.07E	169	5	4, 8	II	a
33. Itanagar	27.08N 93.40E	440	2	4, 8	II	c
34. Gangtok	27.02N 88.40E	1818	3	4, 8	II	c
35. Kurseong	26.56N 88.20E	1458	3	4, 8	II	c
36. Lucknow	26.50N 80.54E	131	5	4, 8	II	c
37. Khoirabari	26.38N 91.51E	134	5	4, 8	II	c
38. Bongaigaon	26.28N 90.32E	76	3	4, 8	II	c
39. Guwahati	26.11N 91.47E	56	2	4, 8	II	c
40. Dimapur	25.54N 93.48E	134	2	4, 8	II	c
41. Kohima	25.41N 94.06E	1261	6	4, 8	II	c
42. Shillong	25.34N 91.56E	1496	3	4, 8	II	c
43. Mao	25.30N 94.07E	1470	3	4, 8	II	c
44. Ukhrul	25.08N 94.23E	1662	5	4, 8	II	c
45. Silchar	24.50N 92.51E	22	3	4, 8	II	c
46. Imphal	24.49N 93.58E	786	5	4, 8	II	c
47. Moirang	24.30N 93.48E	766	5	4, 8	II	c
48. Churachandpur	24.20N 93.40E	922	4	4, 8	II	c
49. Aizawl	23.45N 92.45E	1018	5	4, 8	II	c
50. Calcutta	22.34N 88.21E	13	1	8	III	?
51. Poona	18.32N 73.48E	570	3	6, 8	III	
52. Bangarapet	12.58N 78.12E	61	5	6, 8	III	
53. Bangalore	12.58N 77.34E	1458	5	8	III	
54. Yarakapadi	12.18N 78.38E		5	8	III	
55. Ooty	11.24N 76.42E	2214	5	6, 8	III	
56. Coonoor	11.21N 76.49E	1502	5	8	III	
57. Nilambor	11.16N 76.15E	61	5	8	III	
58. Ernakulam	9.58N 76.16E	3	5	8	III	
59. Kottayam	9.35N 76.31E	3	5	8	III	
60. Pon Mudi	8.44N 77.04E	134	5	8	III	
61. Trivandrum	8.28N 76.55E	0	2	8	III	
62. Kanyakumari	8.05N 77.34E	0	5	8	III	
Indonesia						
Sumatera						
1. Medan	3.35N 98.40E	50	1	6, 9	VI	b
2. Purbatongah	2.53N 98.42E	1197	2	2, 9	VI	b

Table I. Continued.

Country and locality	Coordinates	Alt.	n	Sources	M	S
3. Bengkalis	1.28N 102.07E	< 50	2	2, 9	VI	b
4. Pekanbaru	0.32N 101.25E	16	1	6, 9	VI	?
5. Sentajo Taluk	0.31N 101.34E	< 100	2	6, 9	VI	b
6. Kampar	0.21N 101.25E	< 100	3	6, 9	VI	b
7. Bangkinang	0.21N 101.10E	59	1	9, 11	VI	b
8. Suliki	0.06N 100.27E	585	2	2, 9	VI	b
9. Padang	0.55S 100.17E	98	1	6, 9	VI	c
Kalimantan						
1. Barabai	2.34S 115.22E	100	2	2, 9	VI	a
Sulawesi						
1. Lolu	0.45S 119.46E	23	3	2	V	c
2. Palu	0.54S 119.51E	23	5	2	V	c
3. Rahmat	1.25S 120.11E	630	6	2	V	c
4. Kamarora	1.25S 120.11E	630	6	2, 3, 9	V	c
5. Tappalang	2.51S 118.53E	50	1	2	VI	b
6. Kambuno	3.14S 120.05E	893	1	2	VI	b
7. Sinjai	5.07S 120.15E	~ 300	2	2	VI	b
8. Bantaeng	5.32S 119.57E	23	8	2	VI	b
9. Bulukumba	5.35S 120.13E	1	18	2	VI	b
10. Jeneponto	5.42S 119.44E	10	3	2, 3, 9	VI	b
Java						
1. Jakarta	6.10S 106.47E	1	2	6, 9	VI	c
2. Parungpanjang	6.20S 106.32E	91	8	6, 3, 9	VI	c
3. Tjandjoer(=Cianjur)	6.50S 107.09E	472	3	3, 9	VI	c
4. Sukabumi	6.55S 106.55E	21	8	6, 9, 11	VI	c
5. Kebasen	7.31S 109.10E	58	1	2	VI	c
6. Klaten	7.42S 110.34E	193	3	2	VI	c
7. Tretes	7.51S 112.34E	900	4	2, 3, 9, 11	VI	c
8. Bantul	7.54S 110.19E	36	1	9, 11	VI	c
Bali						
1. Karangasem	8.26S 115.37E	0	1	9, 11	VI	c
2. Tunjungan	8.37S 115.05E	152	5	3, 9	VI	c
Lombok						
1. Senggigi/Gunungsari	8.30S 116.30E	334	-	3		
2. Lombok	8.30S 116.40E	6	1	6, 9	VI	b
Sumbawa						
1. Sumbawa	8.29S 117.25E	79	1	6, 9	VI	?
Flores						
1. Labuhanbadjo	8.31S 119.53E	153	2	6, 9	VI	?
2. Ende	8.51S 121.40E	0	-	3		
Timor						
1. Loli	9.40S 124.31E	322	1	6, 9	VI	b
2. Kupang	10.13S 123.38E	74	-	3		
Ambon						
1. Ambon	3.35S 128.09E	297	1	6, 9	VI	b
Irian Jaya						
1. Koya Timur	2.32S 140.42E	?	3	6, 9	VI	c
Japan						
1. Morioka	39.42N 141.09E	135	1	This study	I	f
2. Tokio	35.41N 139.46E	14	4	This study, 6	I	f

Table I. Continued.

Country and locality	Coordinates	Alt.	n	Sources	M	S
3. Fukuoka	35.34N 137.26E	330	1	6, 9	I	f
4. Yamanashi	34.47N 137.54E	34	1	6, 9	I	f
5. Kanagawa	34.47N 133.55E	65	1	This study	I	f
6. Yamaguchi	34.16N 135.16E	53	3	1, 9	I	f
7. Izuhara	34.14N 129.15E	23	4	6, 9	I	f
8. Oishi	33.25N 130.35E	60	1	1, 9	I	f
9. Nishijima	33.25N 130.35E	25	1	1, 9	I	f
10. Sakashita	32.45N 129.52E	35	1	1, 9	I	f
11. Kamata	32.40N 131.41E	93	1	1, 9	I	f
12. Noze	32.13N 130.59E	460	1	1, 9	I	f
13. Koshinoo	32.12N 131.15E	330	1	1, 9	I	f
14. Kaname	32.11N 130.42E	520	1	1, 9	I	f
15. Yumino	32.01N 130.12E	30	1	1, 9	I	f
16. Iwangochi	30.17N 130.59E	320	1	1, 9	I	f
Korea						
1. Seoul	37.34N 126.59E	33	5	This study, 6	I	f
2. Pusan	35.42N 128.01E	312	7	This study	I	f
Malaysia (mainland)						
1. Kuala Nerang	6.14N 100.53E	55	1	8	VI	b
2. Kota Baharu	6.07N 102.15E	1	1	8	VI	b
3. Serdang	5.16N 100.34E	75	2	8	VI	b
4. Marang	5.13N 103.14E	1	1	8	VI	b
5. Selama	5.12N 100.40E	53	1	8	VI	b
6. Ringlet (Fraser's Hill)	4.24N 101.22E		2	6, 8	VI	b
7. Sitiawan	4.11N 100.42E	1	1	8	VI	b
8. Kampung Tembeleng	4.06N 102.20E		1	8	VI	b
9. Jerantut	3.56N 102.16E	109	1	8	VI	b
10. Pekan	3.29N 103.23E	0	1	8	VI	b
11. Temerloh	3.28N 102.25E	34	1	8	VI	b
12. Kemaman	3.28N 103.20E	0	1	8	VI	b
13. Tanjong Karang	3.26N 101.10E	4	1	8	VI	b
14. Kuala Lumpur	3.08N 101.42E	61	1	6, 8	VI	b
15. Kajang	2.59N 101.46E	30	1	8	VI	b
16. Pontian	2.45N 103.31E	0	1	8	VI	b
17. Kuala Selangor	2.34N 101.44E		1	6, 8	VI	b
18. Port Dickson	2.31N 101.48E	0	1	8	VI	b
19. Mersing	2.25N 103.50E	8	1	8	VI	b
20. Kota Tinggi	1.45N 103.53E	6	1	8	VI	b
North Borneo (Malaysia)						
1. Kota Belud	6.21N 116.25E	65	7	6, 9	VI	a
2. Mt Kinabalu	6.04N 116.27E	3943	3	6, 9	VI	a
3. Tambunan	5.40N 116.21E	792	7	6, 9	VI	a
4. Apin Apin	5.28N 116.16E	452	1	6, 9	VI	a
5. Tenom	5.07N 115.56E	231	7	3, 6, 9, 10	VI	a
6. Tawau	4.14N 117.52E	98	13	6, 9	VI	a
7. Kuching	1.33N 110.19E	7	2	9	VI	a
Myanmar						
1. Putao	27.22N 97.27E	534	5	8	I	e
2. Myitkyina	25.24N 97.25E	158	5	8	IV	
3. Kalay	23.14N 94.00E	85	5	8	IV	

Table I. Continued.

Country and locality	Coordinates	Alt.	n	Sources	M	S
4. Lashio	22.58N 97.48E	837	5	8	IV	
5. Hakha	22.38N 93.39E	1867	5	8	IV	
6. Pyin-oo-Lwin	22.02N 96.35E	1028	5	8	IV	
7. Paletwa	21.25N 92.49E	88	5	8	IV	
8. Ywa-Ngan	21.10N 96.25E		5	8	IV	
9. Magwe	20.08N 94.55E	50	5	8	IV	
10. Tha-Hton	20.06N 96.13E		5	8	IV	
11. Than Taung	19.01N 96.34E	120	5	8	IV	
12. Taikkyi	17.18N 95.57E	5	2	6, 8	IV	
13. Bongalay	16.15N 95.23E	7	5	8	IV	
Nepal						
1. Lali	29.49N 80.36E	1097	3	4, 7	II	b
2. Lanakedareshwar	29.22N 80.56E	1360	3	4, 7	II	b
3. Ghughuti	29.18N 82.12E	2470	5	4, 7	I	
4. Vinaula	29.18N 82.18E	2895	5	4, 7	II	b
5. Navadurga	29.15N 80.27E	1837	5	4, 7	II	b
6. Sharmali	29.14N 80.25E	1635	3	4, 7	II	b
7. Durg	29.10N 81.20E	1345	5	4, 7	II	b
8. Liwang	28.25N 82.40E	1500	5	4, 7	II	b
9. Jumla	28.24N 83.33E	2662	2	6, 8	I	
10. Laltibang	28.20N 82.30E	900	5	4, 7	II	b
11. Lumle	28.20N 84.00E	1400	5	4, 7	II	b
12. Ghorahi	28.05N 82.20E	400	5	4, 7	III	
13. Tansen	27.55N 83.40E	1067	5	4, 7	II	b
14. Suspa	27.44N 86.10E	1600	5	4, 7	II	b
15. Kathmandu	27.41N 85.16E	1344	3	6, 8	II	b
16. Nawakot	27.41N 85.43E	743	1	6, 8	II	b
17. Sidheshwar	27.18N 85.56E	1463	3	4, 7	II	b
18. Homtang	27.10N 87.10E	600	5	4, 7	III	
19. Virgaon	27.05N 87.51E	1200	5	4, 7	II	b
20. Letang	26.40N 87.25E	250	5	4, 7	III	
Pakistan						
1. Peshawar	34.00N 71.32E	317	7	6, 7	I	a
2. Bulchok/Swat	33.33N 71.53E	349	1	6, 7	?	
3. Thari	27.13N 68.33E	41	1	6, 7	?	
Philippines						
Luzon						
1. Batac	18.03N 120.33E	41	5	9, 15	VI	a
2. San Vincente	17.45N 120.25E	5	1	9, 15	VI	a
3. Caba	16.47N 121.08E	770	1	6, 9	V	
4. San Fernando	16.36N 120.18E	55	2	6, 9	VI	a
5. Tublay	16.26N 120.34E	1000	1	9, 15	VI	a
6. Baguio City	16.24N 120.35E	1450	7	6, 9, 15	V	
7. San Jose City	15.46N 120.58E	2	1	9, 15	VI	a
8. Quezon City	14.39N 121.01E	34	-	3, 9		
9. Santa Cruz	14.16N 121.24E	18	1	3, 9	V	
10. Los Banos	14.10N 121.21E	41	1	9, 15	V	
11. Laguna City	14.10N 121.17E	5	2	3, 9, 15	V	
12. Rizal & Nagcarlan	14.08N 121.24E	252	4	9, 15	?	
13. Alfonso	14.08N 120.50E	431	1	6, 9	V	

Table I. Continued.

Country and locality	Coordinates	Alt.	n	Sources	M	S
14. Tanauan	14.05N 121.08E	159	1	6, 9	V	
15. Batangas	13.45N 121.03E	51	1	6, 9	VI	a
16. Sorsogon	12.58N 124.00E	4	1	6, 9	VI	a
Mindoro						
1. Min Oriental	13.24N 121.10E	~ 750	1	6, 9	V	
Palawan						
1. El Nido	11.11N 119.22E	95	4	9, 15	VI	a
2. Taytay	10.48N 119.26E	159	3	9, 15	VI	a
3. Roxas	10.19N 119.20E	11	6	9, 15	VI	a
4. Puerta Princesa	9.44N 118.43E	0	11	9, 15	VI	a
5. Aborlan	9.26N 118.31E	3	9	9, 15	VI	a
6. Quezon	9.15N 117.58E	0	8	9, 15	VI	a
7. Brooke's Point	8.46N 117.50E	9	7	9, 15	VI	a
Visayas						
1. Valencia	10.39N 122.42E	4	5	6, 9, 15	V	
2. San Joaquin	10.35N 122.08E	0	5	9, 15	V	
3. Hinunangan	10.23N 125.11E	1	3	6, 9	V	
4. Cebu	10.19N 123.53E	3	1	6, 9	V	
5. Isabela	10.12N 122.59E	64	2	9, 15	V	
6. Argao	9.52N 123.36E	0	2	6, 9, 15	V	
7. Negros Occidental	9.19N 123.03E	~ 500	1	9, 15	V	
Mindanao						
1. Carmen City	8.58N 126.15E	36	1	9, 15	V	
2. Cagayan de Oro	8.29N 124.38E	34	3	6, 9	V	
3. Kauswagan	8.11N 124.05E	72	1	3, 9	V	
4. Bunawan	8.10N 125.59E	19	1	9, 15	V	
5. Ozamis	8.09N 123.50E	1	1	9, 15	V	
6. Asuncion	7.32N 125.44E	13	2	6, 9	V	
7. Panabo	7.22N 125.44E	4	4	9, 15	VI	a
8. Samalia	7.04N 125.42E	7	1	9	V	
9. Kidapawan	7.00N 125.05E	251	3	9, 15	V	
10. Davao	6.56N 125.46E	0	4	9, 15	V	
11. Digos	6.45N 125.21E	0	3	9, 15	V	
12. Bacnotan	6.42N 126.05E	~ 1200	1	9, 15	VI	a
13. Takurong	6.40N 124.40E	39	1	9, 15	VI	a
14. Malita	6.24N 125.36E	0	2	9, 15	V	
15. Hagonoy	6.19N 125.37E	17	1	9, 15	VI	a
16. Polomolok	6.13N 125.03E	264	1	9, 15	V	
17. General Santos City	6.01N 125.16E	16	1	9, 15	V	
Russia						
1. Ussuriysk	43.48N 132.05E	107	1	This study	I	c
2. Kedrovaya Pad	43.40N 131.37E	0	2	This study	I	c
3. Tavrichanka	43.20N 131.50E	48	2	This study	I	c
4. Romashka	42.51N 131.18E	12	3	This study	I	c
Sri Lanka						
1. Anuradhapura	8.18N 80.24E	82	4	6, 9	III	
2. Makandura	7.19N 79.58E	18	11	9, 13	III	
3. Kandy	7.16N 80.37E	473	1	6, 9	III	
4. Horana	6.43N 80.04E	90	5	3, 9	III	
Thailand						

Table I. Continued.

Country and locality	Coordinates	Alt.	n	Sources	M	S
1. Fang	20.05N 99.30E	471	1	6, 8	IV	
2. Chiang Rai	19.56N 99.51E	391	-	8, 12		
3. Chiang Mai	18.48N 98.59E	295	-	8, 12		
4. Lamphun	18.36N 99.02E	284	-	8, 12		
5. Lampang	18.16N 99.30E	247	-	8, 12		
6. Phrae	18.07N 100.09E	163	-	8, 12		
7. Nong Khai	17.52N 102.44E	165	-	8, 12		
8. Uttaradit	17.38N 100.05E	75	-	8, 12		
9. Phitsanulok	16.47N 100.16E	44	1	6, 8, 12	IV	
10. Khon Kaen	16.26N 102.49E	182	3	6, 8, 12	IV	
11. Uthai Thani	15.22N 100.03E	22	-	8, 12		
12. Nakhon Ratchasima	15.00N 102.06E	177	-	8, 12		
13. Bangkok	13.39N 100.31E	0	2	6, 8	IV	
14. Rat Buri	13.30N 99.50E	6	-	8, 12		
15. Samut Songkram	13.25N 100.01E	5	-	8, 12		
16. Phet Buri	13.05N 99.58E	10	-	8, 12		
17. Chantaburi	12.36N 102.07E	6	1	6, 8, 12	?	
18. Chumphon	10.30N 99.11E	11	-	8, 12		
19. Suratthani (Samui Is.)	9.09N 99.20E	2	-	8, 12		
20. Phuket Is.	7.52N 98.22E	9	-	8, 12		
21. Songkhla	7.12N 100.35E	15	-	8, 12		
Vietnam						
1. Moc Chau	20.51N 104.37E	797	5	6, 8	I	e
2. Hoa Binh	20.49N 105.19E	295	4	6, 8	I	e
3. Cuc Phuong	20.15N 105.58E	656	5	6, 8	I	e
4. Duc Pho	14.45N 109.59E	10	2	8	IV	
5. Tam Quan	14.34N 109.03E	6	3	8	IV	
6. Pleiku	13.57N 108.01E	756	5	8	IV	
7. Buon Ma Thuot	12.41N 108.02E	481	2	8	IV	
8. M'drak	12.37N 108.46E	500	3	8	IV	
9. Ninh Hoa	12.28N 109.07E	12	-	8		
10. Nha Tranh	12.15N 109.10E	4	5	8	IV	
11. Dalat	11.56N 108.10E	1500	4	8	IV	
12. Bao Loc	11.33N 107.48E	800	5	8	IV	
13. Ho Chi Minh City	10.46N 106.43E	3	5	8	IV	
14. Long Khanh	10.38N 106.21E	53	1	6, 8	IV	
15. Ben Tre	10.16N 106.02E	255	2	8	IV	
16. Can Tho	10.03N 105.46E	2	4	6, 8	IV	
17. Chan Thanh	10.02N 105.47E	2	1	6, 8	IV	
18. Can Dao (S'On Island)	8.45N 106.35E	±1500	5	8	IV	

1 = Akahira & Sakagami (1959a, b); 2 = Bagor database; 3 = Damus & Otis (1997); 4 = Hepburn et al. (2001b); 5 = Kunming database ; 6 = Oberursel database ; 7 = Radloff et al. (2005a); 8 = Radloff et al. (2005b); 9 = Radloff et al. (2005c); 10 = Rinderer et al. (1989); 11 = Sulistianto (1990); 12 = Sylvester et al. (1998); 13 = Szabo (1990); 14 = Tan Ken et al. (2008); 15 = Tilde et al. (2000).