

## Digital supplementary material to

### FELLOWES, J.R. 2006: Ant (Hymenoptera: Formicidae) genera in southern China: Observations on the Oriental-Palaeartic boundary. – *Myrmecologische Nachrichten* 8: 239-249.

Tab. 1, with full references: The recorded northern latitudinal limits in the northeastern Oriental, and highest altitudinal limits in South China, of Oriental ant genera. From the author's field surveys and the literature, with first records from each Chinese province or administrative region.

Genus	Highest latitude (° N)	Highest altitude (m) recorded in South China			China provinces and regions recorded (first record), and other records relevant to latitudinal reach
		main-land, 20 - 25° N, 105 - 106° E	main-land, 20 - 25° N, 107 - 114° E	Hainan island (18 - 20° N, 108 - 110° E)	
<i>Acanthomyrmex</i>	25	–	900	900	Taiwan (WHEELER 1930b), Hong Kong (FELLOWES 1996a, 2002), Guangxi (ZHOU & ZHENG 1997), Yunnan (XU 1998b), Hainan (K.F.B.G. 2001b), Guangdong (K.F.B.G. 2002b)
<i>Acropyga</i>	35	–	850	850	Taiwan (FOREL 1912a), Macau, Hong Kong (WHEELER 1928), Jiangxi (J. WU & WANG 1995), Guangxi, Shanghai, Yunnan, Hainan (TERAYAMA & al. 2002), central Japan (TERAYAMA & KUBOTA 2003a)
<i>Aenictus</i>	32	1060	1150	1310	Taiwan (FOREL 1913), Fujian (WHEELER 1927a), Guangdong (SU & al. 1992), Yunnan, Guangxi, Sichuan (XU 1994), Hunan, Hubei, Anhui, Zhejiang, Jiangxi, Hainan, Guizhou, Fujian (J. WU & WANG 1995), Hong Kong (FELLOWES 1996a)
<i>Anillomyrma</i>	23	–	–	–	Guangdong (WHEELER 1928)
<i>Anochetus</i>	29	–	580	830	Hong Kong (FOREL 1900), Taiwan (FOREL 1912a), Fujian (WHEELER 1927a), Guangxi, Yunnan, Zhejiang (J. WU & WANG 1995), Guangdong (K.F.B.G. 2002b), Hainan (K.F.B.G. 2001a)
<i>Anomalomyrma</i>	38	–	–	–	no China records, north-central Japan (ONOYAMA & OGATA 2003a)
<i>Anoplolepis</i>	25	900	290	840	Guangdong, Hainan (GIST GEE 1925, as <i>Plagiolepis</i> ), Fujian (WHEELER 1927a), Hong Kong, Macau (WHEELER 1928), Taiwan (CHOU & TERAYAMA 1991), Guangxi, Yunnan (J. WU & WANG 1995)
<i>Bannapone</i>	21	–	–	–	Yunnan (XU 2000a)
<i>Calyptomyrmex</i>	23	1180	270	940	Hong Kong (FELLOWES 1996a, 2002), Guangxi (ZHOU & JOHN 2000), Hainan (K.F.B.G. 2003a)
<i>Carebara</i>	22	–	–	–	Hong Kong (SMITH 1858), Yunnan (XU 1999a, 1999b)
<i>Cataulacus</i>	25	1180	650	970	Hainan (GIST GEE 1925), Guangxi, Yunnan (WU J. & WANG 1995), Guangdong (FELLOWES 1996b, K.F.B.G., 2003d)
<i>Centromyrmex</i>	23	–	170	–	Hong Kong (WHEELER 1928), Taiwan (CHAPMAN & CAPCO 1951), Yunnan (XU 1999b)
<i>Cerapachys</i>	37	1270	840	1200	Hong Kong (FOREL 1892), Taiwan (FOREL 1913), Zhejiang, Yunnan (YIN & al. 1992, as <i>Lioponera</i> ), Shanghai, Sichuan, Guangdong, Guizhou, Xizang (J. WU & WANG 1995), Guangxi (FELLOWES & HAU 1997, ZHOU 2001), Hainan (K.F.B.G. 2001a), Korea (KIM & PARK 2003)
<i>Cladomyrma</i>	20				N. Vietnam (Cuc Phuong) (YAMANE & al. 2003)
<i>Diacamma</i>	26	930	840	760	Guangdong, Hong Kong (GIST GEE 1925), Fujian (WHEELER 1927a), Macau (WHEELER 1928), Hainan (C.F. WU 1941), Taiwan (CHAPMAN & CAPCO 1951), Hunan, Yunnan, Guangxi (J. WU & WANG 1995)

<i>Dilobocondyla</i>	25	–	420	–	Fujian (WHEELER 1927a), Hainan (C. WANG & WU 1992), Guangxi (J. WU & WANG 1995), Hong Kong (FELLOWES 1996a), Guangdong (FELLOWES 1996b, FELLOWES & HAU 1997, K.F.B.G. 2003d)
<i>Discothyrea</i>	38	–	220	–	Taiwan (FOREL 1912a), Hong Kong (FELLOWES 1996a, 2002), north-central Japan (ONoyAMA & TERAYAMA 2003), Guangxi, Yunnan, Hunan (Huang Jianhua, pers. comm., 27 April 2006)
<i>Dorylus</i>	26	–	220	–	"China" (GIST GEE 1925), Hong Kong (LEE & WINNEY 1981), Fujian (LU 1993), Yunnan (XU 1994), Hunan, Guangxi, Guizhou (J. WU & WANG 1995), Hainan (ZENG & al. 1995), Guangdong (K.F.B.G. 2002a)
<i>Echinopla</i>	21	–	< 600	–	Yunnan (XU 1999b), Guangxi (Huang Jianhua, pers. comm.),
<i>Emeryopone</i>	21	–	–	–	Yunnan (XU 1998a)
<i>Eurhopalothrix</i>	23	–	–	–	Taiwan (CHOU & TERAYAMA 1991)
<i>Gesomyrmex</i>	23	–	100	–	Guangdong (WHEELER 1921b), Hong Kong (FELLOWES 1996a), Guangxi (ZHOU 2001)
<i>Gnamptogenys</i>	31	1030	1750	1360	Hong Kong (GIST GEE 1925, as <i>Stictoponera</i> ), Taiwan (WHEELER 1929, as <i>Stictoponera</i> ), Guangdong (WHEELER 1930a, as <i>Stictoponera</i> ), Guangxi, Hunan, Hubei, Sichuan, Yunnan (J. WU & WANG 1995), Hainan (K.F.B.G. 2001a)
<i>Harpegnathos</i>	23	430	270	40	Hong Kong (SMITH 1858, as <i>Drepanognathus</i> ), Macau (C.F. WU 1941, as <i>Harpegnathus</i> ), Yunnan (XU 1999b), Guangxi (ZHOU 2001), Hainan (K.F.B.G. 2002f)
<i>Iridomyrmex</i>	32	1050	560	790	Taiwan (FOREL 1912a), Guangdong (GIST GEE 1925), Fujian (WHEELER 1927a), Hong Kong (WHEELER 1928), Macau (WHEELER 1930a), Shanghai, Zhejiang, Anhui, Hunan, Guangxi, Yunnan (J. WU & WANG 1995), Hainan (K.F.B.G. 2001b)
<i>Kartidris</i>	27	–	1150	1090	Hainan (BOLTON 1991), Fujian (M. WANG 1993), Yunnan (XU & ZHENG 1995), Guangdong (FELLOWES 1997, FELLOWES & HAU 1997), Guangxi, Jiangxi (ZHOU 2001),
<i>Lasiomyrma</i>	21	–	–	–	no China records, N. Vietnam (Ha Tay) (EGUCHI & al. 2004)
<i>Leptanilla</i>	35	–	–	–	Hunan (TANG & al. 1992, YIN & al. 1992), Taiwan (TERAYAMA 1992), Yunnan (XU 2002, XU & ZHANG 2002), Japan (OGATA & al. 1995, OGATA 2003)
<i>Leptogenys</i>	32	1740	1300	1260	"China" (DALLA TORRE 1893, as <i>Lobopelta</i> ), Taiwan (FOREL 1912a), Fujian (VIEHMEYER 1922), Hong Kong, Macau (WHEELER 1928), Guangdong (WHEELER 1930a), Yunnan, Jiangxi, Sichuan, Hunan, Hainan, Taiwan (J. WU & WANG 1995), Guangxi (FELLOWES & HAU 1997), Macau (ZHOU 2001), southern Japan (TERAYAMA & KUBOTA 2003c)
<i>Liomyrmex</i>	< 20	–	–	–	no China records
<i>Lophomyrmex</i>	21	–	–	–	Taiwan (FOREL 1912a), Yunnan (M. WANG 1993)
<i>Lordomyrma</i>	37	–	–	–	no China records, central Japan (OGATA & KUBOTA 2003)
<i>Mayriella</i>	25	300	650	–	Hong Kong (FELLOWES 1996a), Guangxi (ZHOU & JOHN 2000)
<i>Meranoplus</i>	22	–	460	700	Hong Kong (GIST GEE 1925), Taiwan (WHEELER 1930b), Hainan (WHEELER 1930a), Guangdong, Yunnan (J. WU & WANG 1995), Guangxi (ZHOU 2001)
<i>Metapone</i>	23	–	–	–	Taiwan (FOREL 1912b)
<i>Myopias</i>	21	–	–	–	Taiwan (WILLEY & BROWN 1983), Yunnan (XU 1998a)
<i>Myopopone</i>	21	–	–	–	no China records, N. Vietnam (BUI 2000, EGUCHI & al. 2004)

<i>Myrmicaria</i>	25	900	480	–	Yunnan (J. WU & WANG 1995), Guangdong (FELLOWS 1996b, K.F.B.G. 2003d), Guangxi (FELLOWS & HAU 1997, ZHOU 2001)
<i>Myrmoteras</i>	23	1020	150	1000	Yunnan (XU 1998a), Hainan (K.F.B.G. 2001a), Guangxi (K.F.B.G. 2002c)
<i>Mystrium</i>	21	–	–	880	Yunnan (XU 1998c), Hainan (K.F.B.G. 2003a), N. Vietnam (EGUCHI & al. 2004)
<i>Ochetellus</i>	37	–	530	–	Macau, Fujian (WHEELER 1928, as <i>Iridomyrmex</i> ), Taiwan (SHATTUCK 1992), Shandong, Hunan, Shanghai, Jiangsu, Jiangxi, Zhejiang, Anhui, Guangxi, Yunnan, Hainan (J. WU & WANG 1995), Hong Kong (FELLOWS 1996a), Korea (KIM & PARK 2003)
<i>Odontomachus</i>	40	1550	1300	1060	Taiwan (FOREL 1912a), Hong Kong (GIST GEE 1925), Beijing, Fujian (WHEELER 1927a), Hainan (WHEELER 1930a), Guangdong, Zhejiang, Hunan, Sichuan (YIN & al. 1992), Shanghai, Hubei, Yunnan (J. WU & WANG 1995), Guangxi, Guizhou (ZHOU 2001)
<i>Odontoponera</i>	29	1030	560	860	Fujian (WHEELER 1928), Hong Kong (WHEELER 1928), Hainan (C.F. WU 1941), Taiwan (CHOU & TERAYAMA 1991), Guangdong, Guangxi, Yunnan (J. WU & WANG 1995), Zhejiang (ZHOU 2001)
<i>Oecophylla</i>	24	280	280	700	"South China" (GIST GEE 1925), Guangdong (C.F. WU 1941), Hong Kong (LEE & WINNEY 1981), Hainan, Yunnan (J. WU & WANG 1995), Guangxi (ZHOU 2001)
<i>Pachycondyla</i>	40	1810	1900	1740	Taiwan (FOREL 1912a), Hong Kong (FOREL 1922), Hainan (GIST GEE 1925, as <i>Euponera</i> ), Beijing (WHEELER 1927a, as <i>Euponera</i> ), Fujian (WHEELER 1927a, as <i>Euponera</i> and <i>Ectomomyrmex</i> ), Macau (WHEELER 1928, as <i>Bothroponera</i> and <i>Euponera</i> ), Shanghai (WHEELER 1928, as <i>Euponera</i> ), Guangdong (WHEELER 1930a, as <i>Ectomomyrmex</i> ), Guizhou, Yunnan, Guangxi, Anhui, Zhejiang, Hubei, Jiangxi, Sichuan, Hunan, Xizang (J. WU & WANG 1995)
<i>Paratopula</i>	23	–	–	–	Taiwan (CHAPMAN & CAPCO 1951), Guangxi (FELLOWS & HAU 1997: ERROR)
<i>Pheidologeton</i>	36	280	1100	1030	Taiwan (FOREL 1913), Guangdong, Hong Kong, Macau (GIST GEE 1925), Fujian (WHEELER 1927a), Hainan (WHEELER 1930a), Guangxi, Zhejiang, Jiangxi, Shandong, Hunan (J. WU & WANG 1995)
<i>Philidris</i>	21	–	–	340	Guangxi (ZHOU & ZHENG 1998), Yunnan (XU 1998b), Hainan (FELLOWS 2003)
<i>Platythyrea</i>	21	–	–	–	Yunnan (XU & ZENG 2000)
<i>Polyrhachis</i>	38	1490	1200	1270	Hong Kong (SMITH 1858), Guangdong (WHEELER 1921b), Hainan (GIST GEE 1925, as <i>Camponotus</i> ), Fujian (WHEELER 1927a), Taiwan (WHEELER 1927b), Korea (TERANISHI 1929), Guangxi, Gansu, Jiangsu, Zhejiang, Anhui, Hubei, Sichuan, Hunan, Guizhou, Yunnan, Shanghai (J. WU & WANG 1995), north-central Japan (TERAYAMA & KUBOTA 2003b)
<i>Prenolepis</i>	34	2000	1900	1170	Hong Kong (FOREL 1894), Guangdong (SU & al. 1992), Zhejiang, Anhui, Sichuan, Hunan, Jiangxi (J. WU & WANG 1995, as <i>Euprenolepis</i> ), Yunnan, Hubei, Sichuan, Yunnan, Guizhou (J. WU & WANG 1995), Guangxi (FELLOWS & HAU 1997, ZHOU 2001), Hainan (K.F.B.G. 2001a), southern Japan (MORISITA & ONOYAMA 2003)
<i>Prionopelta</i>	23	–	–	–	Taiwan (TERAYAMA 1989)
<i>Probolomyrmex</i>	27	–	270	360	Taiwan (CHOU & TERAYAMA 1991), Yunnan (XU 1999b, XU & ZENG 2000), Hainan (K.F.B.G. 2002e), Hong Kong (FELLOWS 2002, FELLOWS & DUDGEON 2003), south Japan (TERAYAMA 2003a)
<i>Proceratium</i>	38	–	1100	–	Taiwan (TERAYAMA 1985), Hunan (YIN & al. 1992), Guangdong (FELLOWS & HAU 1997), Zhejiang, Yunnan (XU 2000b), Korea (KIM & PARK 2003), north-central Japan (ONOYAMA & OGATA 2003b)

<i>Protanilla</i>	32	–	–	–	Yunnan (XU 2002, XU & ZHANG 2002), southern Japan (ONoyAMA & OGATA 2003c)
<i>Pseudolasius</i>	31	1390	1120	640	Hong Kong (FOREL 1894), Taiwan (FOREL 1912a), Sichuan (STITZ 1934), Fujian (WHEELER 1927a), Hunan (J. WU & WANG 1992), Zhejiang, Hubei (J. WU & WANG 1995), Guizhou (XU 1997), Guangdong (FELLOWES 1997), Guangxi (FELLOWES & HAU 1997), Yunnan (XU 1999b), Guangxi (ZHOU 2001), Hainan (K.F.B.G. 2002g)
<i>Pyramica</i>	38	1110	1900	1360	Taiwan (FOREL 1912a, as <i>Pentastruma</i> ), Hong Kong (FELLOWES 1996a, as <i>Pentastruma</i> and <i>Smithistruma</i> ), Guangdong (FELLOWES 1997, as <i>Pentastruma</i> ), Guangxi (FELLOWES & HAU 1997, as <i>Pentastruma</i> and <i>Smithistruma</i> ), Guangxi, Zhejiang, Taiwan (ZHOU 2001, as <i>Pentastruma</i> ), Guangxi (ZHOU 2001, as <i>Kyidris</i> ), Hainan (K.F.B.G. 2001a), Korea (KIM & PARK 2003), north-central Japan (OGATA & ONOYAMA 2003)
<i>Recurvidris</i>	32	–	560	930	Fujian (WHEELER 1927a, as <i>Trigonogaster</i> ), Anhui, Hunan, Yunnan, Taiwan, Hong Kong (J. WU & WANG 1995), Hainan (K.F.B.G. 2001a, ZHOU 2001), Guangxi (ZHOU 2001), Guangdong (K.F.B.G. 2002b)
<i>Rhopalomastix</i>	24	–	220	–	Hong Kong (FELLOWES 1996a, 2002), Yunnan (XU 1999a), Guangxi (Huang Jianhua, pers. comm., 27 April 2006), south Japan (TERAYAMA 2003b)
<i>Rhoptromyrmex</i>	32	1240	700	920	Taiwan (WHEELER 1930a), Hong Kong (WHEELER 1930a), Anhui, Hunan, Guangdong, Sichuan, Yunnan, Hainan (J. WU & WANG 1995), Guangxi (ZHOU 2001)
<i>Rotastruma</i>	28	–	400	–	Guangdong (BOLTON 1991), Hong Kong (FELLOWES & DUDGEON 2003), Hunan (Huang Jianhua, pers. comm., 27 April 2006)
<i>Simopone</i>	23	–	–	–	Taiwan (TERAYAMA 1992)
<i>Solenopsis</i>	40	1030	530	200	Taiwan (FOREL 1912a), Beijing (WHEELER 1927b), Hong Kong, Macau, Fujian, Jiangsu (WHEELER 1928), Hainan, Guangdong, Shandong, Jiangxi, Anhui (J. WU & WANG 1995), Guangxi, Zhejiang (ZHOU 2001)
<i>Sphinctomyrmex</i>	< 20	–	–	–	no China records
<i>Tapinoma</i>	40	960	860	1010	Hainan (GIST GEE 1925), Fujian, Beijing (WHEELER 1927a), Hong Kong, Guangdong, Macau (WHEELER 1928), Hunan, Shandong, Anhui, Sichuan, Zhejiang, Guangxi, Yunnan, Taiwan, Hubei (WU & WANG 1995)
<i>Tetraoponera</i>	29	1080	980	900	Taiwan (FOREL 1913), Hong Kong (WHEELER 1921a), Hainan (WHEELER 1923), Guangdong, (WHEELER 1930a), Yunnan, Sichuan, Fujian, Jiangxi (J. WU & WANG 1995), Guangxi (ZHOU & JIANG 1997)
<i>Vombisidris</i>	28	1320	–	–	Guangxi (K.F.B.G. 2003c), Hunan (HUANG & ZHOU 2006)

Tab. 2, with full references: The recorded southern latitudinal limits in the southeastern Palaearctic, and lower altitudinal limits in South China, of Palaearctic ant genera. From the author's field surveys, with first records from each province or administrative region.

Genus	Lowest latitude	Lowest altitude (m) in South China		China provinces and regions recorded (first record), and other records relevant to latitudinal reach
		mainland, 20 - 25° N, 105 - 106° E	mainland, 20 - 25° N, 107 - 114° E	
<i>Cataglyphis</i>	36	–	–	Shandong (FOREL 1911), Beijing, Liaoning, Xinjiang, Qinghai, Shanxi, Hebei (J. WU & WANG 1995)
<i>Formica</i>	24	1580	–	Taiwan (EMERY 1923), Beijing (WHEELER 1927a, 1927b), Gansu, Inner Mongolia, Shanxi, Sichuan (STITZ 1934), Fujian (LU 1993), Tibet, Heilongjiang, Shaanxi, Qinghai, Hubei, Xinjiang, Hebei, Jilin, Liaoning, Shandong, Anhui, Hunan, Yunnan, Guangdong, Zhejiang, Henan (J. WU & WANG 1995), Guangxi (ZHOU 2001)
<i>Lasius</i>	22	1400	760	Beijing (WHEELER 1927b), Hong Kong (WHEELER 1930a: ERROR), Gansu, Inner Mongolia, Shanxi (STITZ 1934), Taiwan (SANTSCHI 1937), Hunan, Jiangsu, Shandong, Sichuan, Zhejiang, Liaoning (YIN & al. 1992), Fujian (LU 1993), Heilongjiang, Jilin, Shaanxi, Henan, Anhui, Hubei, Guizhou, Yunnan, Hainan [ERROR?], Tibet, Hebei, Xinjiang (WU J. & WANG 1995), Guangdong (FELLOWES & HAU 1997), Guangxi (FELLOWES & HAU 1997, ZHOU 2001), N. Vietnam (Hoang Lien Son) (BUI & EGUCHI 2003)
<i>Leptothorax</i>	31	–	–	Korea (KIM & PARK 2003), Hubei (Huang Jianhua, pers. comm., 29 April 2006)
<i>Manica</i>	35	–	–	no China records, central Japan (ONOYAMA & SONOBE 2003)
<i>Messor</i>	26	–	–	Shanghai (FOREL 1922), Beijing (WHEELER 1927a, 1927b), Jiangsu (WHEELER 1928), Hebei, Inner Mongolia, Shanxi, Shandong, Zhejiang, Anhui, Fujian, Hunan, Hubei, Shaanxi (J. WU & WANG 1995)
<i>Myrmica</i>	22	1310	760	Sichuan (VIEHMEYER 1922), Yunnan?, Taiwan (WHEELER 1928), Gansu, Jiangsu (STITZ 1934), Hunan, Hubei, Zhejiang, Anhui, Jilin, Heilongjiang, Shanxi, Beijing, Liaoning, Inner Mongolia, Hebei (J. WU & WANG 1995), Guangdong, Guangxi (FELLOWES & HAU 1997, misidentified as <i>Paratopula</i> , K.F.B.G. 2003e), Yunnan (XU 1998b), Guangxi (RADCHENKO & al. 2001, ZHOU 2001, K.F.B.G. 2002d)
<i>Polyergus</i>	33	–	–	Beijing (WHEELER 1927b), Gansu (J. WU & WANG 1995), Korea (KIM & PARK 2003), southern Japan (SONOBE & al. 2003)
<i>Proformica</i>	36	–	–	"China" (RUZSKY 1915), Sichuan (VIEHMEYER 1922, as <i>Formica</i> ), Beijing, Shandong (WHEELER 1930a), Hebei, Liaoning, Inner Mongolia (WU J. & WANG 1995)
<i>Strongylognathus</i>	35	–	–	Beijing, Shaanxi (J. WU & WANG 1995), Korea (KIM & PARK 2003)
<i>Temnothorax</i>	23	–	320	Taiwan (FOREL 1912a, as <i>Tetramorium</i> ), Beijing (WHEELER 1927b, as <i>Leptothorax</i> ), Fujian (WHEELER 1928, as <i>Leptothorax</i> ), Guangdong (SU & al. 1992, as <i>Leptothorax</i> ), Liaoning, Inner Mongolia, Anhui, Zhejiang, Hubei (J. WU & WANG 1995, as <i>Leptothorax</i> ), Sichuan (J. WU & WANG 1995, as <i>Tetramorium</i> ), Guangxi (FELLOWES & HAU 1997, as <i>Leptothorax</i> , ZHOU 2001, as <i>Leptothorax</i> ), Yunnan (XU 1999b, as <i>Leptothorax</i> ), Hunan (HUANG & al. 2004, as <i>Leptothorax</i> )

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