

APPENDIX A

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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Table A.1 The Family and their amount of insects captured by Pitfall trap from Doi Suthep-Pui and Doi Inthanon at 600, 1,000 and 1,200 m.

Order	Family	S600	S1000	S1200	1600	11000	11200	Total
Collembola	Entomobryidae	161	117	184	83	67	134	746
Collembola	Hypogastruridae			6		2	1	9
Collembola	Isotomidae		4				4	8
Collembola	Poduridae		1					1
Collembola	Pselaphidae		1					1
Collembola	Sminthuridae	3	1	4	1		4	13
Diplura	Campodeidae			1			3	4
Thysanura	Lepismatidae					3		3
Orthoptera	Acrididae	5			2	1	4	12
Orthoptera	Gryllidae	6		8	7	5	3	29
Orthoptera	Gryllacrididae	1	2		1			4
Orthoptera	Tettigoniidae			1	1			2
Blattaria	Blattellidae			6	2	1	2	11
Blateria	Blatidae	3						3
Mantodea	Mantidae	1						1
Hemiptera	Aradidae						6	6
Hemiptera	Lygaeidae				2			2
Hemiptera	Dipsocoridae						2	2
Hemiptera	Miridae	1			1			2
Hemiptera	Pyrrhocoridae						1	1
Hemiptera	Reduviidae			1		1	2	4
Homoptera	Cercopidae			4			1	5
Homoptera	Cicadellidae	2	3	1		1	5	12
Homoptera	Eriosomatidae				1			1
Homoptera	Margarodidae					1		1
Neuroptera	Coniopterygidae						1	1
Isoptera	Kalotermitidae	1						1

Isoptera	Rhinotermitidae	2						2
Isoptera	Termitidae	1			2			3
Thysanoptera	Phlaeothripidae	1		3				4
Psocoptera	Liposcelidae	1						1
Psocoptera	Psyllipsocidae	1						1
Psocoptera	Psocidae	1						1
Coleoptera	Byturidae			3	7	1		11
Coleoptera	Carabidae	2	1			1		4
Coleoptera	Cerambycidae		1					1
Coleoptera	Cocinellidae					1		1
Coleoptera	Colydiidae					1		1
Coleoptera	Cryptophagidae					2		2
Coleoptera	Cucujidae	1	2	7	5	9		24
Coleoptera	Curculionidae			1				1
Coleoptera	Dryopidae					1		1
Coleoptera	Dytiscidae		1					1
Coleoptera	Endomychiadae	2	5	17	6	2	17	49
Coleoptera	Histeridae		1	1				2
Coleoptera	Mycetophagidae			1		1		2
Coleoptera	Ptiliidae	1		2				3
Coleoptera	Poduridae				1			1
Coleoptera	Salpingidae	1						1
Coleoptera	Scarabaeidae	9	1	14	7	6	8	45
Coleoptera	Scolytidae	1	2	7	6	1		17
Coleoptera	Staphylinidae	9	22	19	18	14	44	126
Coleoptera	Tenebrionidae					1		1
Coleoptera	ColeopLARVA	1						1
Coleoptera	ColeopMINOR	2	1					3
Lepidoptera	Apatelodidae			1				1
Lepidoptera	Arctidae			1				1
Lepidoptera	Dioptidae	1						1
Lepidoptera	Epiplemididae	1						1

Lepidoptera	Gelechiidae	1	1				2
Lepidoptera	Geometridae	1	1				2
Lepidoptera	Heliodinidae			1			1
Lepidoptera	Hyelaeidae		1				1
Lepidoptera	Notodontidae		1				1
Lepidoptera	Psychidae			1			1
Lepidoptera	Satyridae			1			1
Lepidoptera	Tortricidae			1			1
Lepidoptera	LepidoLARVA	1				2	3
Diptera	Agromyzidae					1	1
Diptera	Bombryliidae			1			1
Diptera	Carnidae	3					3
Diptera	Cecidomyiidae	3		1		2	6
Diptera	Ceratopogonidae	1	2	1		1	5
Diptera	Cercidomyiidae			2			2
Diptera	Chaoboridae			1			1
Diptera	Chironomidae	9	10	18	4	2	22
Diptera	Chloropidae			1			1
Diptera	Culicidae			4		1	5
Diptera	Curtonotidae					1	1
Diptera	Deuterophibiidae		1				1
Diptera	Dolichopodidae			1	1	2	4
Diptera	Dixidae					1	1
Diptera	Drosophilidae		1				1
Diptera	Empididae	2		1	2		5
Diptera	Ephydriidae					1	1
Diptera	Hilarimorphidae			2			2
Diptera	Muscidae	2	4	6	1	7	18
Diptera	Mycetophilidae					1	1
Diptera	Neriidae		1				1
Diptera	Nymphomyiidae					1	1
Diptera	Phoridae	25	16	21	7	11	77

Diptera	Psychodidae	2	5			2	9
Diptera	Pyrgotidae	2	1				3
Diptera	Rapalomeridae	1	2				3
Diptera	Scatopsidae					1	1
Diptera	Sciardae					1	1
Diptera	Tephritidae	1			3		4
Diptera	Thaumaleidae					1	1
Diptera	Tipulidae	4	7	1		7	14
Diptera	BRACHYCERA	1	2	4			7
Hymenoptera	Cephidae					1	1
Hymenoptera	Chalcidoidea	3	5	3	2	1	5
Hymenoptera	Formicidae	157	72	161	783	112	155
Hymenoptera	Halictidae					1	1
Hymenoptera	Melittidae			1			1
Hymenoptera	Patygastridae						1
Hymenoptera	Scellionidae			1			1
etc.	Arachnida	31	15	15	17	25	19
Total		446	318	528	982	300	590
							3164

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Table A.2 The Family and their amount of insects captured by Beating tray from Doi Suthep-Pui and Doi Inthanon at 600, 1,000 and 1,200 m.

Order	Family	Su600	Su1000	Su1200	In600	In1000	In1200	Total
Collembola	Entomobryidae	1	1	1	2	1	6	18
Collembola	Sminthuridae			1				1
Blattaria	Blattellidae	1						1
Orthoptera	Acrididae	1						1
Orthoptera	Gryllidae					1		1
Phasmida	Phasmida			1				1
Hemiptera	Corixidae	1						1
Hemiptera	Pentatomidae	4						4
Hemiptera	Reduviidae					1		1
Hemiptera	Tingidae				1	1		2
Homoptera	Cicadellidae			3			1	5
Thysanoptera	Aeolothripidae			1				1
Thysanoptera	Phlaeothripidae			1				1
Thysanoptera	Thripidae			5				5
Dermaptera	Dermaptera			1	1			2
Isoptera	Kalotermitidae				9			9
Coleoptera	Carabidae			1		1	5	12
Coleoptera	Cerambycidae		1	1			1	4
Coleoptera	Coccinellidae		7	1	4	2	1	16
Coleoptera	Corylophidae			2				2
Coleoptera	Cucujidae						2	4
Coleoptera	Curculionidae	1	1	2	1	2	1	9
Coleoptera	Endomychidae	2	5					7
Coleoptera	Elmidae		1					1
Coleoptera	Lagriidae		1					1
Coleoptera	Meloidae						1	2

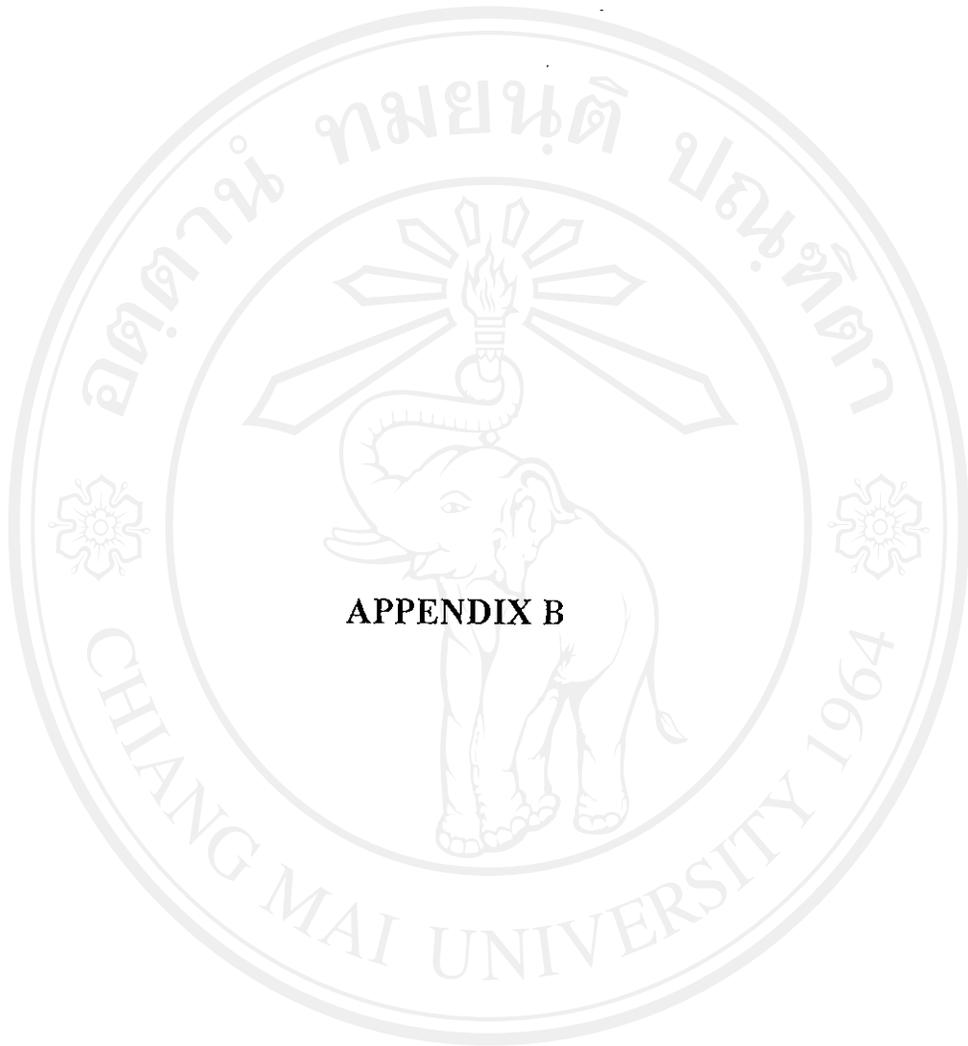
Coleoptera	Phalacridae	1						1
Coleoptera	Pselaphidae					1		1
Coleoptera	Rhizophagidae	2	1			1		4
Coleoptera	Scolytidae	2						2
Coleoptera	Scarabaeidae					1		1
Coleoptera	Staphylinidae	1		1		1		3
Coleoptera	ColeoMINOR	1		1			1	4
Psocoptera	Amphientomidae			1				1
Trichoptera	Rhyacophilidae			1				1
Lepidoptera	Cosmopterigidae			1				1
Lepidoptera	LepidLAVVA	3	2	3	3	1	3	18
Diptera	Chironomidae	1	3	1			1	7
Diptera	Culicidae		4					4
Diptera	Psychodidae	1						1
Diptera	DipMINOR		2					2
Hymenoptera	Chalcidoidea		3	1				4
Hymenoptera	Formicidae	8	11	10	15	5	17	83
Hymenoptera	Ibaliidae		1					1
Hymenoptera	Platygastridae		1					1
Hymenoptera	HymenMINOR			1			1	3
etc.	Arachnida	11	15	12	4	8	9	68
	Diplopoda	2		2	1	4	1	11
Total		37	66	55	44	30	51	334

Table A.3 The Family and their amount of insects captured by sweeping net from Doi Suthep-Pui and Doi Inthanon at 600, 1,000 and 1,200 m.

Order	Family	Su600	Su1000	Su1200	In600	In1000	In1200	Total
Collembola	Entomobryidae	2		1	1			4
Collembola	Sminthuridae					1		1
Ephemeroptera	Ephemeroptera			1				1
Orthoptera	Acrididae	1	2		2	1	5	11
Orthoptera	Gryllidae						2	2
Mantodia	Mantidae			1				1
Hemiptera	Reduviidae	1					1	2
Hemiptera	Tingidae				1			1
Homoptera	Cicadellidae	5	1	6	11	3	6	32
Psocoptera	Amphientomidae	1						1
Coleoptera	Coccinellidae					2		2
Coleoptera	Curculionidae				1	1	2	4
Coleoptera	Elateridae						2	2
Coleoptera	Scarabaeidae						1	1
Coleoptera	Scolytidae				1			1
Coleoptera	Staphylinidae		1					1
Coleoptera	MinorColeoptera		2		1		3	6
Lepidoptera	Gelechiidae				1			1
Lepidoptera	MinorLepidoptera	2	2	1				5
Diptera	Asteiidae				2			2
Diptera	Carnidae				1			1
Diptera	Chironomidae	2	6	1	2	3	3	17
Diptera	Muscidae				1			1
Diptera	Phoridae	2	6	5	3	2		18
Diptera	Sciaridae				1			1
Diptera	Sciomyzidae				1			1
Diptera	Stratiomyidae				1			1

Diptera	Tipulidae	1	1					2
Diptera	Brachycera	8	14	2	5	21	5	55
Diptera	Nematocera		7			2		9
Hymenoptera	Cephidae				1			1
Hymenoptera	Chalcidoidea	1	5	4	3		1	14
Hymenoptera	Figitidae				1			1
Hymenoptera	Formicidae	13	3	3	9	4	1	33
Hymenoptera	Sphecidae				1			1
Hymenoptera	MinorHymenoptera	3	1					4
etc.	Arachnida	3	5	4	2	5	5	24
		45	56	29	54	44	37	265

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APPENDIX B

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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Table A.4 Caddisflies from Doi Suthep-Pui and Doi Inthanon with the altitudinal preference, distribution, abundance, phenology and references

Name	Doi Suthep-Pui (altitude, m)	Doi Inthanon (altitude, m)	Distribution	Abundance	Phenology (month)	References
Rhyacophilidae						
<i>Himalopsyche acharai</i> M&C 1989	X(400-1200)	XX(400-2300)	m	c	1-12	3,15,16
<i>Rhyacophila bicolor doiangka</i> MALICKY 1999	-	X(1700-2500)	e	r	4	28
<i>Rhyacophila bifida</i> KIMMINS 1953	-	X(2300)	m	r	3	3
<i>Rhyacophila blenda</i> M&C 1993	-	X(1200-2300)	e	p	3,10	12a,16
<i>Rhyacophila cornuta</i> KIMMINS 1953	XX(400-900)	XX(900-1700)	m	p	1-4,6-8,12	1,3,15,16.
<i>Rhyacophila drokpa</i> SCHMID 1970	-	XX(1200-1600)	m	c	1,3,5-11	16
<i>Rhyacophila drosampa</i> SCHMID 1970	-	X(900-1200)	m	p	7	16
<i>Rhyacophila falita</i> ROSS 1956	-	X(1700)	m	p	9	3
<i>Rhyacophila gyamo</i> SCHMID 1970	X(900-1200)	X(1200-2300)	m	p	1-4,6,12	15,16.
<i>Rhyacophila inaequalis</i> DENNING & SCHMID 1971	XX(400-1200)	X(1200-1300)	m	p	1-5,7,8,12	3,15,16,Denning & Schmid, 1971. Chantaramongkol <i>et al.</i> 1999
<i>Rhyacophila kyimdongpa</i> SCHMID 1970	-	X(1600-1700)	m	p	1	16
<i>Rhyacophila manna</i> M&C 1993	XX(700-900)	-	e	p	1-4,12	12a,15
<i>Rhyacophila mayestrii</i> MALICKY 1991	-	XX(1200-1600)	e	r	2,5,7-11	5,16
<i>Rhyacophila mukiepa</i> SCHMID 1970	X(900)	X(1600-1700)	m	r	3,9	16
<i>Rhyacophila murhu</i> M&C 1989	-	XX(2000-2300)	e	p	2-4	3,16
<i>Rhyacophila petersorum</i> SCHMID & DENNING 1971	XX(400-1200)	XX(500-2300)	m	c	1-12	1,3,15,16,Denning & Schmid, 1971. Chantaramongkol <i>et al.</i> 1999
<i>Rhyacophila pema</i> SCHMID 1970	-	X(1300)	m	?	5	Author (Malicky)
<i>Rhyacophila porttipae</i> MALICKY 1987	XX(900-1200)	XX(1200-1700)	m	p	1-3,8	1,3,15,16.
<i>Rhyacophila quana</i> M&C 1989	XX(400-1200)	XX(1200-2300)	m	c	1-12	3,15,16. Chantaramongkol <i>et al.</i> 1999
<i>Rhyacophila ramingwongi</i> MALICKY 1987	XX(400-1200)	XX(1000-1200)	m	p	1,8-11	1,15,16
<i>Rhyacophila scissa</i> MORTON 1900	-	X(1200-2300)	m	p	3-11	16
<i>Rhyacophila scissooides</i> KIMMINS 1953	XX(400-1200)	XX(900-1700)	m	c	1-12	15,16
<i>Rhyacophila suthepensis</i> MALICKY 1987	XX(400-1200)	XX(1200-1400)	m	a	1-12	1,3,15,16. Chantaramongkol <i>et al.</i> 1999
<i>Rhyacophila verugia</i> M&C 1993	-	XX(2000-2300)	e	p	3-4	12a,16
<i>Rhyacophila voccia</i> M&C 1993	X(400)	X(1300-2300)	m	p	3,4,9,10,12	12a,15,16
<i>Rhyacophila wanichacheewai</i> MALICKY 1987	X(400)	-	e	r	2	1,15
<i>Rhyacophila xayide</i> M&C 1989	-	XX(1200-2300)	e	p	1-4,10	3,16
Glossosomatidae						
<i>Agapetus chinensis</i> MOSELY 1942	-	XX(900-1300)	m	p	2,4,5,7,12	16
<i>Agapetus dangorum</i> OLÁH 1988	XX(400-900)	-	m	p	1-2,5-7,12	15
<i>Agapetus halong</i> OLÁH 1988	XX(400-1200)	X(500-600)	m	c	1,4-12	15,16
<i>Agapetus lalus</i> M&C 1992	XX(400-700)	-	e	c	1,4-8	11,15
<i>Agapetus vercondarius</i> M&C 1992	X(400)	-	e	r	1,12	15
<i>Agapetus viricatus</i> M&C 1992	XX(400-900)	-	e	p	1-6,8,11-12	11,15
<i>Agapetus voccus</i> M&C 1992	X(400)	X(1200-1700)	m	p	3-5	11,15,16.
<i>Glossosoma atitto</i> M&C 1992	X(400)	XX(1200-2300)	m	p	3,5-12	11,15,16.
<i>Glossosoma elvisso</i> M&C 1992	-	XX(400-1300)	m	p	1-2,4-5,12	11,16
<i>Glossosoma jentumar</i> M&C 1992	X(400-1200)	XX(1200-1700)	m	p	1-4,8-10	11,15,16.
<i>Glossosoma malayanum</i> BANKS 1934	X(400-1200)	XX(900-1700)	m	p	1-5	15,16
<i>Nepaloptila jisunted</i> M&C 1992	-	X(900-1000)	e	r	1	11,16
<i>Nepaloptila kanikar</i> M&C 1992	-	XX(500-600)	m	p	1,4,12	11,16
<i>Nepaloptila ruangjog</i> M&C 1992	-	XX(2000-2300)	e	p	2-4	11,16
<i>Padunia karaked</i> M&C 1992	-	XX(500-1000)	m	p	1-2,4,12	11,16
<i>Poeciloptila briatec</i> M&C 1992	-	X(400-1000)	m	p	4,12	11,16

Hydroptilidae							
<i>Orthotrichia deukalion</i> MALICKY & PROMMI 2000	X(550)	-	e	p	11	30	
<i>Ugandatrichia hairanga</i> OLÁH 1989	X(400)	-	m	r	8,12	15	
<i>Ugandatrichia hintama</i> OLÁH 1989	-	X(750)	m	?	3		Author (Malicky)
<i>Ugandatrichia hongia</i> OLÁH 1989	-	X(1300)	m	?	1,12		Author (Malicky)
<i>Ugandatrichia kerdmuang</i> M&C 1991	XX(400-1000)	XX(500-1000)	m	p	2,4-8,11-12	7,15,16	
<i>Ugandatrichia maliwan</i> M&C 1991	XX(400-1200)	XX(500-1300)	m	a	1-12	7,15,16	
<i>Ugandatrichia sanana</i> OLÁH 1989	-	X(1600-1700)	m	r	1-2	16	
Philopotamidae							
<i>Chimarra akkaorum</i> C&M 1989	XX(400-1200)	X(400-1700)	m	c	2-8,10-12	2,15,16	Chantaramongkol <i>et al.</i> 1999
<i>Chimarra alleni</i> C&M 1989	XX(400-700)	-	m	p	1,6,11	2,15	Chantaramongkol <i>et al.</i> 1999
<i>Chimarra aneca</i> M&C 1993	-	XX(400-1200)	m	p	4,6-11	12b,16	
<i>Chimarra argeia</i> M&C 1997	X(700)	-	e	p	2	20	
<i>Chimarra atara</i> M&C 1993	XX(400-700)	-	m	p	1-4,9,11	12b,15	
<i>Chimarra atnia</i> M&C 1993	XX(400-900)	-	m	p	1-12	12b,15	
<i>Chimarra bimbltona</i> MALICKY 1979	-	X(400-600)	m	p	1,2,4,10,12	16	
<i>Chimarra burmana</i> KIMMINS 1957	X(900)	-	m	p	5,8	2,15	
<i>Chimarra chiangmaiensis</i> C&M 1989	XX(400-600)	X(400-1300)	m	c	1-12	2,15,16	Chantaramongkol <i>et al.</i> 1999
<i>Chimarra cumata</i> M&C 1993	-	XX(1200-1300)	e	p	4-6	12b,16	
<i>Chimarra devva</i> M&C 1993	-	XX(1200-1700)	e	p	1,3,7-11	12b,16	
<i>Chimarra dirke</i> MALICKY & THAMSENANUPAP 2000	X(700)	-	e	r	9	31	
<i>Chimarra exapia</i> M&C 1993	-	X(1600-1700)	e	p	1,3,10	12b,16	
<i>Chimarra hinorum</i> C&M 1989	XX(400-1200)	XX(1200-1300)	m	c	1-12	2,15,16	Chantaramongkol <i>et al.</i> 1999
<i>Chimarra inthanonensis</i> C&M 1989	-	X(1600-2300)	e	r	1-5	2,16	
<i>Chimarra jolivetii</i> JACQUEMART 1979	-	XX(400-1700)	m	c	1-7,10-12	16	
<i>Chimarra karenorum</i> C&M 1989	-	X(1600-1700)	e	c	2,4	2,16	
<i>Chimarra lahuorum</i> C&M 1989	-	XX(1200-1700)	e	c	1-12	2,16	
<i>Chimarra lannaensis</i> C&M 1989	XX(400-1200)	XX(900-1700)	m	c	1-12	2,15,16	Chantaramongkol <i>et al.</i> 1999
<i>Chimarra lavaorum</i> C&M 1989	XX(700)	-	e	p	1-4,9,12	2,15	
<i>Chimarra litugena</i> M&C 1993	-	X(1200-1300)	e	r	10	12b,16	
<i>Chimarra litussa</i> M&C 1993	XX(900-1200)	XX(1200-1400)	m	p	3-5,8	12b,15,16	
<i>Chimarra matura</i> M&C 1993	-	X(1600-1700)	e	r	1,10	12b,16	
<i>Chimarra mlabriorum</i> C&M 1989	-	X(1200)	m	p	4-6	16	
<i>Chimarra momma</i> M&C 1993	XX(700-1200)	XX(1200-1300)	m	p	2-6,9-10	12b,15,16	
<i>Chimarra monorum</i> C&M 1989	XX(400-1200)	X(400-1300)	m	p	1-5,10-12	2,15,16	Chantaramongkol <i>et al.</i> 1999
<i>Chimarra nahesson</i> M&C 1993	X(500-1200)	XX(1200-1700)	m	p	1-4,10	12a,15,16	
<i>Chimarra noebia</i> M&C 1993	X(1200)	-	e	r	3	12b,15	
<i>Chimarra okuihorum</i> MEY 1998	-	X(600)	m	r	5		Author (Thapanya)
<i>Chimarra pipake</i> M&C 1993	XX(400-700)	-	m	p	1,3-4,9-11	12b,15	
<i>Chimarra schwendingeri</i> C&M 1989	-	X(1200-1700)	m	p	3-5	16	
<i>Chimarra scopulifera</i> KIMMINS 1957	-	X(1600-1700)	m	r	1-3	16	
<i>Chimarra spinifera</i> KIMMINS 1957	XX(400-1200)	XX(1200-1300)	m	c	1-12	2,15,16	Chantaramongkol <i>et al.</i> 1999
<i>Chimarra suthepensis</i> C&M 1989	XX(400-1200)	XX(1200-1300)	m	a	1-12	2,15,16	
<i>Chimarra toga</i> M&C 1993	X(400)	-	e	r	3	12b,15	
<i>Chimarra uppita</i> M&C 1993	X(400)	-	m	p	3-6,12	12b,15	
<i>Chimarra yaorum</i> C&M 1989	X(1200)	XX(1200-1300)	m	p	3-6,9-12	2,15,16	
<i>Dolophilodes adnamat</i> M&C 1993	XX(500-1200)	XX(1200-1700)	m	p	1,3-4,8,10,12	12a,15,16	
<i>Dolophilodes bicolor</i> KIMMINS 1955	-	X(1600-1700)	m	r	5,9	16	
<i>Dolophilodes bulu</i> M&C 1993	-	XX(2000-2300)	e	p	3-5	12a,16	
<i>Dolophilodes torrentis</i> KIMMINS 1955	-	XX(2000-2300)	m	p	1-4	16	
<i>Gunungiella segsafazga</i> M&C 1993	XX(700-900)	-	m	p	1-3	12a,15	
<i>Gunungiella traiafazga</i> M&C 1993	-	X(1300)	m	p	3-4		Author (Malicky)
<i>Kisaura cina</i> M&C 1993	XX(400-1200)	XX(1200-1700)	m	c	1-5,8-12	12a,15,16	

<i>Kisaura consagia</i> M&C 1993	XX(500-900)	X(700-1300)	m	c	1-12	12a. 15
<i>Kisaura intermedia</i> KIMMINS 1955	X(900-1200)	XX(1200-2300)	m	p	1-4,6,10-11	15,16
<i>Kisaura longispina</i> KIMMINS 1955	-	XX(1200-2300)	m	p	3,4,10	16
<i>Kisaura sura</i> M&C 1993	XX(400-1200)	X(1200-1700)	m	c	1-12	12a.15,16
<i>Kisaura surasa</i> M&C 1993	XX(700-1200)	-	e	p	1,3-4,9,12	12a.15
<i>Womaldia eto</i> M&C 1993	XX(700-900)	-	m	p	1,4	12a. 15
<i>Womaldia gressitti</i> ROSS 1956	X(1600)	XX(1200-1700)	m	p	2,4-7,12	15,16
<i>Wormaldia inthanonensis</i> M&C 1993	-	X(1600-2300)	e	p	10	12b,16
<i>Wormaldia nyctimon</i> SCHMID 1991	-	X(750)	m	?	3	Author (Malicky)
<i>Wormaldia relicta</i> MARTYNOV 1935	-	XX(1200-2300)	m	p	2-5	16
<i>Womaldia serrata</i> KIMMINS 1955	-	X(2000-2300)	m	r	1-4	16
Stenopsychidae						
<i>Stenopsyche haimavatika</i> SCHMID 1969	-	X(500-1200)	m	p	1-2,4-5	16
<i>Stenopsyche hamata</i> NAVAS 1930	-	X(400-600)	m	c	3-6	16
<i>Stenopsyche himalayana</i> MARTYNOV 1926	-	X(500-1700)	m	p	1,12	16
<i>Stenopsyche siamensis</i> MARTYNOV 1931	X(400-1200)	X(400-600)	m	p	1-2,4-9,12	Martynov 1931, 15,16
Polycentropodidae						
<i>Kambaitipsyche hykriion</i> M&C 1991	-	XX(1600-2300)	e	p	3,4,9	7,16
<i>Nyctiophylax archemoros</i> MALICKY 1999	-	X(1300)	e	r	5	28
<i>Nyctiophylax aristaios</i> MALICKY 1999	-	X(1300)	e	r	5	28
<i>Nyctiophylax Chiangmaiensis</i> M&C 1993	XX(400-700)	-	m	p	1-12	12a.15
<i>Nyctiophylax nahum</i> M&C 1993	-	X(1300)	m	p	5	Author (Malicky)
<i>Nyctiophylax suthepensis</i> M&C 1993	XX(400-900)	-	m	c	1-12	12a.15
<i>Nyctiophylax zadok</i> M&C 1993	X(400)	-	m	p	4,10	12a.15
<i>Pahamuyana jihmita</i> SCHMID & DENNING 1979	XX(400-700)	-	e	p	5-6,9-11	15, Schmid & Denning 1979
<i>Plectrocnemia arphachad</i> M&C 1993	-	X(1200-2300)	e	p	3,10,12	12a.16
<i>Plectrocnemia eber</i> M&C 1993	-	X(1600-2300)	m	p	3,10	12a.16
<i>Plectrocnemia ecingoma</i> M&C 1993	-	X(1200-1700)	e	p	3	12a.16
<i>Plectrocnemia resa</i> M&C 1993	-	X(1300)	m	p	4-5	Author (Malicky)
<i>Polyplectropus admin</i> M&C 1993	XX(400)	XX(400)	m	p	2-12	12a.15
<i>Polyplectropus apsyrtos</i> MALICKY 1999	-	X(1300)	e	p	4	28
<i>Polyplectropus arni</i> M&C 1993	-	XX(500-1300)	e	p	4-6	12a.16
<i>Polyplectropus ibykos</i> M&C 2003	X(800)	-	e	?	3	Author (Malicky)
<i>Polyplectropus menna</i> M&C 1993	XX(400-1200)	X(700-1200)	m	c	1-12	12a.15
<i>Polyplectropus nahor</i> M&C 1993	-	X(1600-1700)	m	p	?	16
<i>Pseudoneureclipsis achim</i> M&C 1993	XX(700-1200)	-	e	p	2-4	12a.15
<i>Pseudoneureclipsis amon</i> M&C 1993	X(400)	X(400)	m	p	2,5	12a.15
<i>Pseudoneureclipsis josia</i> M&C 1993	X(500-1200)	XX(1200-1300)	m	p	3-5	12a.15,16
<i>Pseudoneureclipsis philemon</i> MALICKY & PROMM 2000	X(550)	-	e	r	5	30
<i>Pseudoneureclipsis saccheda</i> SCHMID & DENNING 1979	XX(400-700)	-	e	p	5-6,10-12	15, Schmid & Denning 1979, Chantaramongkol et al. 1999
<i>Pseudoneureclipsis sukrip</i> M&C 1993	-	XX(1000-1300)	e	p	4-6	12b,16
<i>Pseudoneureclipsis usia</i> M&C 1993	XX(400-700)	-	e	c	1,4-11	12a.15
Dipseudopsidae						
<i>Dipseudopsis benardi</i> NAVAS 1930	X(400)	-	m	p	10	Weaver & Malicky, 1994
<i>Dipseudopsis robustior</i> ULMER 1929	X(400-650)	-	m	p	1,3,5-6,8,10-11	15, Weaver & Malicky, 1994, Chantaramongkol et al. 1999
<i>Dipseudopsis varians</i> ULMER 1929	X(400)	-	m	p	1,3-11	15, Weaver & Malicky, 1994, Chantaramongkol et al. 1999
Ecnomidae						
<i>Ecnomus alkestis</i> M&C 1997	-	X(540)	e	r	4	20
<i>Ecnomus alkinoos</i> M&C 1997	-	X(1640-1700)	e	p	4,5	20
<i>Ecnomus areion</i> MALICKY 1999	-	X(1300)	m	r	4	28
<i>Ecnomus eurytos</i> MALICKY & SILALOM 2000	X(650)	-	e	r	?	30
<i>Ecnomus jojachin</i> M&C 1993	XX(400-700)	-	m	p	1,5-7,12	12a.15

<i>Ecnomus puro</i> M&C 1993	X(400)	-	m	p	4-6	12a.15
<i>Ecnomus suadrus</i> M&C 1993	XX(700-900)	-	m	p	2-5,8-11	12a.15
<i>Ecnomus venimar</i> M&C 1993	XX(400-700)	-	e	p	2-3,5-6,8-11	12a.15
Psychomyiidae						
<i>Eoneureclipsis querquobad</i> M&C 1989	XX(900-1200)	XX(1600-1700)	m	p	2-7	6.15.16
<i>Lype atria</i> M&C 1993	XX(400-1200)	XX(400-1300)	m	p	1-4,7,12	12a.15.16
<i>Paduniella dendrobia</i> M&C 1993	-	X(1200-1700)	e	p	3,12	12b.16
<i>Paduniella maeklangensis</i> M&C 1993	-	XX(900-1000)	e	p	2-3,6	12b.16
<i>Paduniella sampati</i> M&C 1993	XX(400)	-	m	p	2,4-6,10	12b.15
<i>Paduniella semarangensis</i> ULMER 1913	X(400-1200)	X(400-1300)	m	p	?	15.16
<i>Paduniella suvannamali</i> M&C 1993	-	X(400-1000)	m	p	4	12b.16
<i>Paduniella wangiakraiensis</i> M&C 1993	-	X(400-600)	m	p	4	12b.16
<i>Psychomyia arthit</i> M&C 1993	-	XX(400-600)	m	p	1-2,4,6	12b.16
<i>Psychomyia barata</i> M&C 1993	XX(600-900)	-	e	p	1-9	12b.15
<i>Psychomyia benyagai</i> M&C 1993	-	X(1200-1300)	m	p	4,7	12b.16
<i>Psychomyia chompu</i> M&C 1993	X(400-1200)	XX(500-1300)	m	p	1-7,12	12b.15.16
<i>Psychomyia kaiya</i> M&C 1993	X(400-600)	XX(400-600)	m	p	1,4,6-7,12	12b.15.16
<i>Psychomyia lak</i> M&C 1993	X(400-600)	XX(400-600)	m	p	2,4-5,7,10,12	12b.15.16
<i>Psychomyia monto</i> M&C 1993	XX(400-700)	-	m	p	3-10	12b.15
<i>Tinodes acheron</i> M&C 1996	X(500-1000)	-	e	p	4	19
<i>Tinodes anakkunci</i> MALICKY 1995	X(700)	-	m	?	6	Author (Malicky)
<i>Tinodes cincibilis</i> M&C 1993	-	X(1200-1600)	e	p	4	12a.16
<i>Tinodes mogeti</i> M&C 1993	-	XX(1200-1700)	e	p	3-6,9-10	12a.16
Xiphocentronidae						
<i>Abaria ateduna</i> M&C 1992	-	X(1200-1300)	e	p	8-10	11.16
<i>Abaria guatila</i> M&C 1992	X(400)	-	e	p	1,5,10	11.15
<i>Cnodocentron brogimarum</i> M&C 1992	XX(700-900)	-	e	p	1,3,12	11.15
<i>Drepanocentron curmisagi</i> M&C 1992	XX(400-900)	-	m	p	1,3-10,12	11.15
<i>Drepanocentron vercaius</i> M&C 1992	X(900-1200)	-	m	p	2-4	11.15
<i>Melanotrichia attia</i> M&C 1992	-	X(900-1700)	e	p	2-12	11.16
<i>Melanotrichia samacoinius</i> M&C 1992	-	X(500-600)	m	p	12	11.16
Arctopsychidae						
<i>Arctopsyche hynreck</i> M&C 1991	X(400)	XX(1200-1700)	m	c	1-12	7.15.16
<i>Arctopsyche variabilis</i> SCHMID 1968	-	X(1600-2300)	m	p	3-4	16
<i>Parapsyche intawitschajanon</i> M&C 1992	-	X(2000-2300)	e	r	3	11.16
Hydropsychidae						
<i>Aethaloptera sexpunctata</i> KOLENATI 1859	X(400)	-	m	?	1	Author (Malicky)
<i>Amphipsyche meridiana</i> ULMER 1909	X(400)	-	m	?	9-11	Author (Malicky)
<i>Cheumatopsyche admetos</i> M&C 1996	XX(1000)	-	e	p	4	19
<i>Cheumatopsyche angusta</i> ULMER 1930	XX(400)	X(1000-1300)	m	c	1-12	Author (Malicky)
<i>Cheumatopsyche banksi</i> MOSELY 1942	X(400)	-	m	p	1-3,9-10	Author (Malicky)
<i>Cheumatopsyche caieta</i> M&C 1997	-	XX(1300)	m	c	3-4,7-11	22
<i>Cheumatopsyche ceres</i> M&C 1997	X(400)	XX(900-1300)	m	c	1-12	22
<i>Cheumatopsyche charites</i> M&C 1997	-	X(400-1200)	m	?	1,3-4,9-10,12	Author (Malicky)
<i>Cheumatopsyche chione</i> M&C 1997	-	X(540)	e	r	2	22
<i>Cheumatopsyche chrysothemis</i> M&C 1997	X(400)	-	m	p	4-6	Author (Malicky)
<i>Cheumatopsyche cocles</i> M&C 1997	XX(500-1000)	-	m	c	1-4,11	22
<i>Cheumatopsyche copia</i> M&C 1997	XX(400-700)	X(500)	m	c	1-5,7,12	22
<i>Cheumatopsyche criseyde</i> M&C 1997	-	XX(400-1000)	m	c	1-2,4,6,9,10-12	22
<i>Cheumatopsyche globosa</i> ULMER 1910	XX(400)	-	m	?	2-6,9-12	Author (Malicky)
<i>Dipletrona aurovittata</i> ULMER 1906	XX(400-900)	XX(900-1600)	m	a	1-12	Author (Malicky)
<i>Dipletrona burha</i> SCHMID 1961	X(400-500)	-	m	p	1-2,4-5,9-10	Author (Malicky)
<i>Dipletrona eurydike</i> M&C 2002	XX(400-1200)	XX(1300)	m	p	1-6,8,11-12	Author (Malicky)
<i>Dipletrona harpyia</i> M&C 2002	-	XX(1200-2300)	e	c	1-4,10	34
<i>Dipletrona hermione</i> M&C 2002	XX(400-1200)	XX(1200-1600)	m	c	1-6,9,12	34
<i>Dipletrona joannis</i> NAVAS 1932	XX(400-1200)	XX(1200-1700)	m	c	1-12	Author (Malicky)
<i>Hydatomanicus adonis</i> M&C 1996	XX(400-1200)	-	m	c	1,3-4,11-12	19
<i>Hydatomanicus klanklini</i> M&C 1993	XX(400-700)	-	m	c	1-12	12a.15
<i>Hydromanicus abiud</i> M&C 1993	XX(400-1200)	-	m	c	1-12	12a.15
<i>Hydromanicus almansor</i> M&C 1993	-	X(1300)	m	?	5	Author (Malicky)
<i>Hydromanicus eliakim</i> M&C 1993	XX(400)	XX(1200-1700)	m	c	1-12	12a.15.16
<i>Hydromanicus inferior</i> C&M 1995	XX(400-600)	XX(400-1000)	m	c	1-12	15.16
<i>Hydromanicus punctusalis</i> MEY 1996	-	X(1200)	m	r	3	Author (Thapanya)
<i>Hydromanicus sealthiel</i> M&C 1993	XX(500-1200)	XX(1200-1300)	m	p	1,3-4,8-10,12	12a.15.16
<i>Hydromanicus serubabel</i> M&C 1993	XX(500-1000)	-	m	c	1-12	12a.15
<i>Hydromanicus truncatus</i> BETTEN 1909	XX(400-1200)	XX(1200-1700)	m	c	1-12	16

<i>Hydropsyche adraetos</i> M&C 1996	X(400)	XX(500-1700)	m	p	1-12	Author (Malicky)
<i>Hydropsyche arcturus</i> M&C 2000	XX(400-1200)	XX(1200-1600)	m	c	1-12	29
<i>Hydropsyche askalaphos</i> M&C 2000	X(400-700)	XX(400-1600)	m	c	1-4,6,8-9,12	29
<i>Hydropsyche atropos</i> M&C 2000	-	X(1200)	m	p	3-4,7,9	29
<i>Hydropsyche attis</i> M&C 2000	X(400)	-	m	c	4,12	29
<i>Hydropsyche baubo</i> M&C 2000	-	X(2300)	m	p	4-5,10	29
<i>Hydropsyche binaria</i> MEY 1996	X(400)	XX(1200-2300)	m	c	1-3,9-10	29
<i>Hydropsyche bonuseventus</i> M&C 2000	-	XX(500-1200)	m	p	1-2,4-7,9	Author (Malicky)
<i>Hydropsyche bootes</i> M&C 2000	XX(400-1100)	XX(900-1300)	m	c	1-12	29
<i>Hydropsyche briareus</i> M&C 2000	X(400-900)	XX(400-1200)	m	c	1-5,12	29
<i>Hydropsyche camillus</i> M&C 2000	XX(400-1200)	X(400-600)	m	p	1-12	Author (Malicky)
<i>Hydropsyche cerva</i> LI & TIAN 1990	-	X(1200-1600)	m	p	3,9	Author (Malicky)
<i>Hydropsyche clitumnus</i> M&C 2000	-	XX(1200)	m	c	1-12	29
<i>Hydropsyche doctersi</i> ULMER 1951	-	X(420-900)	m	p	3,4	29
<i>Hydropsyche dolosa</i> BANKS 1939	XX(400-1000)	XX(400-1200)	m	p	1-5,9-12	Author (Malicky)
<i>Hydropsyche napaea</i> MEY 1996	-	X(1200)	m	p	12	29
<i>Hydropsyche pallipenne</i> BANKS 1938	X(400-500)	-	m	p	1-4,9-12	Author (Malicky)
<i>Hydropsyche ivana</i> MEY 1995	XX(400-700)	XX(1000-1200)	m	p	1-12	Author (Malicky)
<i>Macrostemum bellerophon</i> M&C 1998	-	X(1200)	e	p	8-11	2-4
<i>Macrostemum fastosum</i> WALKER 1852	XX(700-1200)	XX(400-1300)	m	c	3-10	15,16,24
<i>Macrostemum floridum</i> NAVÁS 1929	XX(400-700)	-	m	c	4-11	24
<i>Macrostemum hestia</i> M&C 1998	-	X(1300-1600)	m	p	3-5	24
<i>Macrostemum midas</i> M&C 1998	XX(400)	X(400-600)	m	p	4-6,9-11	24
<i>Potamyia alleni</i> M&C 1997	XX(400-1100)	X(1200)	m	c	9-12	22
<i>Potamyia baenzigeri</i> M&C 1997	X(700)	-	m	p	1-4,12	Author (Malicky)
<i>Potamyia flavata</i> BANKS 1934	XX(400)	-	m	?	1-7,9-12	Author (Malicky)
<i>Potamyia horvati</i> M&C 1997	-	XX(500-1200)	m	c	1,2,4,9,12	22
<i>Potamyia panakeia</i> M&C 1997	-	XX(400-600)	m	c	1,3,4,6	22
<i>Potamyia phaidra</i> M&C 1997	X(400-700)	X(400-1200)	m	p	1-6,9,12	Author (Malicky)
<i>Pseudoleptonema quinquefasciatum</i> MARTYNOV 1935	-	XX(400-900)	m	c	3-4	24
<i>Trichomacronema paniae</i> M&C 1991	XX(500-1200)	XX(500-1700)	m	c	1-10	9,16
Phryganeidae						
<i>Eubasilissa maclachlani</i> WHITE 1862	-	XX(1200-2300)	m	p	3-4,10-12	16
Brachycentridae						
<i>Micrasema asuro</i> M&C 1992	-	X(1300)	m	p	5	Author (Malicky)
<i>Micrasema fortiso</i> M&C 1992	XX(400)	XX(1200-1300)	m	c	3-11	11,15,16
<i>Micrasema helveio</i> M&C 1992	XX(700-900)	-	e	p	1,9	11,15
<i>Micrasema turbo</i> M&C 1992	-	XX(1200-1700)	e	p	5-6,8,11	11,16
Limnacentropodidae						
<i>Limnacentropus apollon</i> MALICKY 1999	-	X(1200)	e	p	5	28
<i>Limnacentropus hysbald</i> M&C 1991	-	XX(1200-1300)	e	p	5,7-8	7,16
<i>Limnacentropus inthanonensis</i> M&C 1989	-	XX(1200-2300)	e	p	4,9	6,16
<i>Limnacentropus siribhumensis</i> M&C 1989	-	X(1200-1300)	e	p	10-11	6,16
Goeridae						
<i>Goera atiuigo</i> M&C 1992	-	XX(1200-1700)	m	p	4-5,9-10	10,16
<i>Goera ilo</i> M&C 1992	-	XX(1200-1700)	m	p	4-5,7-9	10,16
<i>Goera mandana</i> MOSELY 1938	XX(700-1200)	-	m	p	5,11	10,15, Chantaramongkol <i>et al.</i> 1999
<i>Goera matuilla</i> M&C 1992	XX(400)	-	e	p	1,2,4-6,9	15
<i>Goera redsat</i> M&C 1992	-	XX(400-1200)	m	p	1,4-7	10,16
<i>Goera redsamar</i> M&C 1992	-	X(400-1700)	m	p	4,10	10,16
<i>Goera schmidi</i> DENNING 1982	X(435)	-	e	p	11	10,15,Denning 1982
<i>Goera solicur</i> M&C 1992	-	XX(400-600)	e	p	2,4	16
<i>Goera tarumana</i> MALICKY 1978	X(400)	-	m	?	5	15
<i>Goera uniformis</i> BANKS 1931	X(400)	-	m	p	4-5,7,9	10,15, Chantaramongkol <i>et al.</i> 1999
<i>Larcasia lannaensis</i> M&C 1996	XX(550)	-	e	p	4	19
Limnephilidae						
<i>Moropsyche gerolan</i> M&C 1991	-	X(1200-2300)	m	p	1,2,4	7,16
<i>Moropsyche huaysailianga</i> M&C 1989	XX(600-1200)	X(1200-1700)	m	p	1-6,10-12	6,15,16

<i>Moropsyche sutemium</i> M&C 1991	X(?)	X(1600-1700)	m	p	1	7.15.16
<i>Nothopsyche muqua</i> M&C 1989	-	X(1200-1300)	e	r	1	16
Uenoidea						
<i>Uenoa hiberna</i> KIMMINS 1964	-	X(1200-1300)	m	p	4	16
<i>Uenoa lobata</i> HWANG 1957	-	X(2000-2300)	m	r	?	16
Lepidostomatidae						
<i>Adinarthrella brunnea</i> MOSELY 1941	-	X(2000-2300)	m	r	?	16
<i>Adinarthrella parva</i> MOSELY 1941	-	X(2000-2300)	m	r	12	16
<i>Adinarthrum moulimina</i> MOSELY 1949	XX(400-1000)	XX(1200-2300)	m	p	1-12	16.
Chantaramongkol <i>et al.</i> 1999						
<i>Anacrunoecia digitata</i> MOSELY 1949	-	X(2000-2300)	m	r	?	16
<i>Crunoeciella hirta</i> NAVAS 1932	XX(400)	XX(1200-1300)	m	c	1-12	16
<i>Dinarthrum aprilius</i> M&C 1994	X(950)	X(2000-2300)	m	r	4,11	14,16
<i>Dinarthrum augustus</i> M&C 1994	-	XX(1200-1700)	e	p	4-5.9-10	14,16
<i>Dinarthrum baenzigeri</i> M&C 1994	-	XX(1200-1300)	e	p	4-5.11	14,16
<i>Dinarthrum brueckmanni</i> M&C 1994	-	XX(500-2000)	m	c	2-10	14,16
<i>Dinarthrum cwaritius</i> MALICKY & PROMMI 2000	X(650-1200)	X(650-1200)	m	p	5.11	30
<i>Dinarthrum daidalion</i> MALICKY & PROMMI 2000	XX(650)	-	e	p	11	30
<i>Dinarthrum februartius</i> M&C 1994	XX(400-1200)	XX(1200-1700)	m	c	1-7.9-10	14,15,16
<i>Dinarthrum fischeri</i> M&C 1994	X(400)	XX(1200-1700)	m	c	1-12	14,15,16
<i>Dinarthrum inthanon</i> M&C 1994	-	XX(1200-2300)	e	p	3-5,12	14,16
<i>Dinarthrum kurseum</i> MOSELY 1941	X(700)	-	m	?	1	
<i>Dinarthrum lannaensis</i> M&C 1994	-	XX(1600-1700)	e	p	3,7	14,16
<i>Dinarthrum martius</i> M&C 1994	XX(400-900)	-	e	p	1.3.5-10	14,15
<i>Dinarthrum octobrius</i> M&C 1994	-	X(2000-2300)	e	p	4,10	14,16
<i>Dinarthrum pratetiansis</i> M&C 1994	XX(400-1200)	XX(1200-1300)	m	p	1.3-9,11	14,15,16
<i>Dinarthrum septembrius</i> M&C 1994	-	XX(1200-1700)	e	p	4-5.8-11	14,16
<i>Dinarthrum siribhum</i> M&C 1994	-	X(1600-1700)	e	r	3	14,16
<i>Dinarthrum tungyavensis</i> M&C 1994	XX(600-1200)	-	m	p	1-5.9	14,15
<i>Goerodes abruptus</i> BANKS 1931	XX(400-1200)	X(1200-1300)	m	p	1.4-5.7,10	16
<i>Goerodes doligung</i> MALICKY 1979	XX(400-700)	-	m	p	1-6.8-12	15.
Chantaramongkol <i>et al.</i> 1999						
<i>Lepidostoma montatan</i> M&C 1994	X(400-600)	-	e	p	1-2,10-11	14,15
<i>Lepidostoma ratanapruxi</i> M&C 1994	-	X(2000-2300)	e	p	3,4	14,16
<i>Lepidostoma varithi</i> M&C 1994	-	X(1600-1700)	e	r	1	14,16
<i>Paraphlegopteryx angkangensis</i> WEAVER 1994	-	X(1600-2300)	m	p	3,6	16
<i>Paraphlegopteryx malickyi</i> WEAVER 1994	-	X(2000-2300)	m	p	3,6,10	16
<i>Zephyropsyche weaveri</i> M&C 1994	-	X(2000-2300)	e	p	3	14,16
Helicopsychidae						
<i>Cochliophylax admata</i> M&C 1992	-	X(1600-1700)	e	r	3	11,16
<i>Cochliophylax angusta</i> ULMER 1951	X(400-600)	X(1700)	m	?	1-2,5-6,10	15
<i>Helicopsyche ategenta</i> M&C 1992	X(600)	-	e	r	2	11,15
<i>Helicopsyche namtok</i> M&C 1993	X(?)	-	e	p	11-12	12b,15
<i>Helicopsyche rodschana</i> M&C 1992	XX(400-600)	X(500-600)	m	p	5,7	11,15,16
<i>Helicopsyche siama</i> JOHANSON 1994	X(?)	-	e	?	?	15
Odontoceridae						
<i>Inthanopsyche trimeresuri</i> MALICKY 1989	-	XX(1200-2300)	m	p	2-5	4,16
<i>Lannapsyche chantaramongkolae</i> MALICKY 1989	XX(400-1200)	XX(900-1700)	m	p	1-5,7-12	4,15,16.
Chantaramongkol <i>et al.</i> 1999						
<i>Marilia aerope</i> M&C 1996	XX(700)	X(540)	m	p	4	15,16,19
<i>Marilia mogitana</i> MALICKY 1989	-	XX(500-1300)	m	p	1-12	16
<i>Marilia sumatrana</i> ULMER 1951	XX(600)	X(400)	m	p	1-12	4,15,16.
Chantaramongkol <i>et al.</i> 1999						
<i>Psilotreta abudeb</i> M&C 1991	-	X(1200)	e	r	5	Author (Thapanya)
<i>Psilotreta baureo</i> MALICKY 1989	XX(400-1200)	XX(1600-1700)	m	p	1-2,4-5,8-9,11-12	4,15,16
<i>Psilotreta quin</i> M&C 1991	-	XX(900-1000)	e	p	4-5	7,16
<i>Psilotreta watananikorni</i> M&C 1995	-	X(600)	e	?	1	Author (Malicky)

Leptoceridae							
<i>Adicella acutangularis</i> YANG & MORSE 2000	XX(400)	-	m	?	1.5.12	Author (Malicky)	
<i>Adicella evadne</i> SCHMID 1994	XX(400-1000)	XX(1200-1600)	m	r	1-5.8-12		33
<i>Adicella iphimedia</i> M&C 2002	X(1200)	X(2300)	m	p	3.4		33
<i>Adicella kanake</i> M&C 2002	XX(600)	XX(1200-1700)	m	p	1-5.8-10.12		33
<i>Adicella klytimestra</i> M&C 2002	-	X(2300)	e	?	4	Author (Malicky)	
<i>Adicella koronis</i> MALICKY & THANI 2002	X(600-1100)	-	m	e	2-4.12		33
<i>Adicella larentia</i> MALICKY & CHEUBARN 2002	XX(400-1200)	XX(1200-1600)	m	c	1-5.7.12		33
<i>Ceraclea iambe</i> MALICKY & PROMMI 2002	X(650)	-	e	p	1.3		33
<i>Ceraclea iuno</i> M&C 1991	-	X(1060)	e	?	3	Author (Malicky)	
<i>Leptocerus chiangmaiensis</i> M&C 1991	XX(400)	-	m	p	2.4-6.8.12		8, 15
<i>Leptocerus demophon</i> MALICKY & PROMMI 2000	X(650)	-	e	r	1		30
<i>Leptocerus dirghachuka</i> GORDON & SCHMID 1987	XX(400)	-	m	?	3-6.12		15
<i>Leptocerus euros</i> MALICKY & PROMMI 2002	X(550)	-	e	p	12		33
<i>Leptocerus inthanonensis</i> M&C 1991	X(400-600)	XX(400-600)	m	p	1.4		8, 15, 16
<i>Leptocerus suihepensis</i> M&C 1991	XX(400)	-	m	p	5-6.11-12		8, 15
<i>Oecetis hades</i> M&C 2003	-	X(600)	e	r	5	Author (Thapanya)	
<i>Oecetis tripunctata</i> FABRICIUS 1793	-	X(1000)	m	r	5	Author (Thapanya)	
<i>Mystacides elongata</i> YAMAMOTO & ROSS 1966	XX(400)	XX(400-1200)	m	?	4-6.11-12	Author (Malicky)	
<i>Parasetodes maculata</i> BANKS 1911	-	X(540)	m	?	1.3-4.6	Author (Malicky)	
<i>Setodes akrura</i> GORDON & SCHMID 1987	-	X(600)	m	r	5	Author (Thapanya)	
<i>Setodes argentiguttatus</i> GORDON & SCHMID 1987	X(500)	-	m	p	1	Author (Malicky)	
<i>Setodes tcharurupa</i> SCHMID 1987	X(400)	-	m	p	5-12		15, Chantaramongkol <i>et al.</i> 1999
<i>Trichosetodes anaksepuluh</i> M&C	X(500)	-	?	?	1	Author (Malicky)	
<i>Triplectides indicus</i> WALKER 1852	X(400)	X(500-1200)	m	?	2-12	Author (Malicky)	
Sericostomatidae							
<i>Gumaga orientalis</i> MARTYNOV 1935	X(500)	X(600)	m	?	4	Author (Malicky)	
Calamoceratidae							
<i>Anisocentropus brevipennis</i> ULMER 1906	XX(400)	-	m	p	1-12		15
<i>Anisocentropus diana</i> M&C 1994	X(400-1400)	XX(1600-1700)	m	p	2.4.6.9		13, 15, 16
<i>Anisocentropus janus</i> M&C 1994	XX(400-1000)	XX(500-1300)	m	p	1-11		13, 15, 16
<i>Anisocentropus magnus</i> BANKS 1931	-	X(1000)	m	r	5	Author (Thapanya)	
<i>Anisocentropus pan</i> M&C 1994	XX(400-1200)	X(1300)	m	p	1-12		13, 15
<i>Anisocentropus pandora</i> M&C 1994	-	XX(1200-1700)	m	p	4-5.9-10		13, 16
<i>Anisocentropus salsus</i> BETTEN 1909	-	XX(1200-1300)	m	p	5.10-11		13, 16
<i>Ganonema delios</i> MALICKY & PROMMI 2000	X(950)	-	e	r	3		30
<i>Ganonema dracula</i> M&C 1994	-	XX(1000-1700)	m	p	3		13, 16
<i>Ganonema extensum</i> MARTYNOV 1935	XX(400-1200)	XX(1200-1300)	m	p	2-11		13, 16
Molannidae							
<i>Molanna oglamar</i> M&C 1989	XX(400-1200)	XX(1200-1700)	m	p	1-12		6, 15, 16
<i>Molannodes alticola</i> M&C 1996	-	X(2300)	e	p	4		19
<i>Molannodes hydorn</i> M&C 1991	X(1100)	-	e	r	1		7, 15
<i>Molannodes lirr</i> M&C 1989	XX(400)	-	m	p	1-6.9-10.12		6, 15

NOTE:

M&C = Malicky & Chantaramongkol

C&M = Chantaramongkol & Malicky

X = This species was found only once in this area

XX = This species was recorded several times there

Numbers in brackets, e.g. (400-1200) represent the altitudinal range of the records in meters in this area

e = This species was only found in either of these two areas and is possibly endemic

m = This species was also found in other sites including neighboring countries

r = "rare" means that 1-2 specimens were found

p = from 3-20 specimens were found

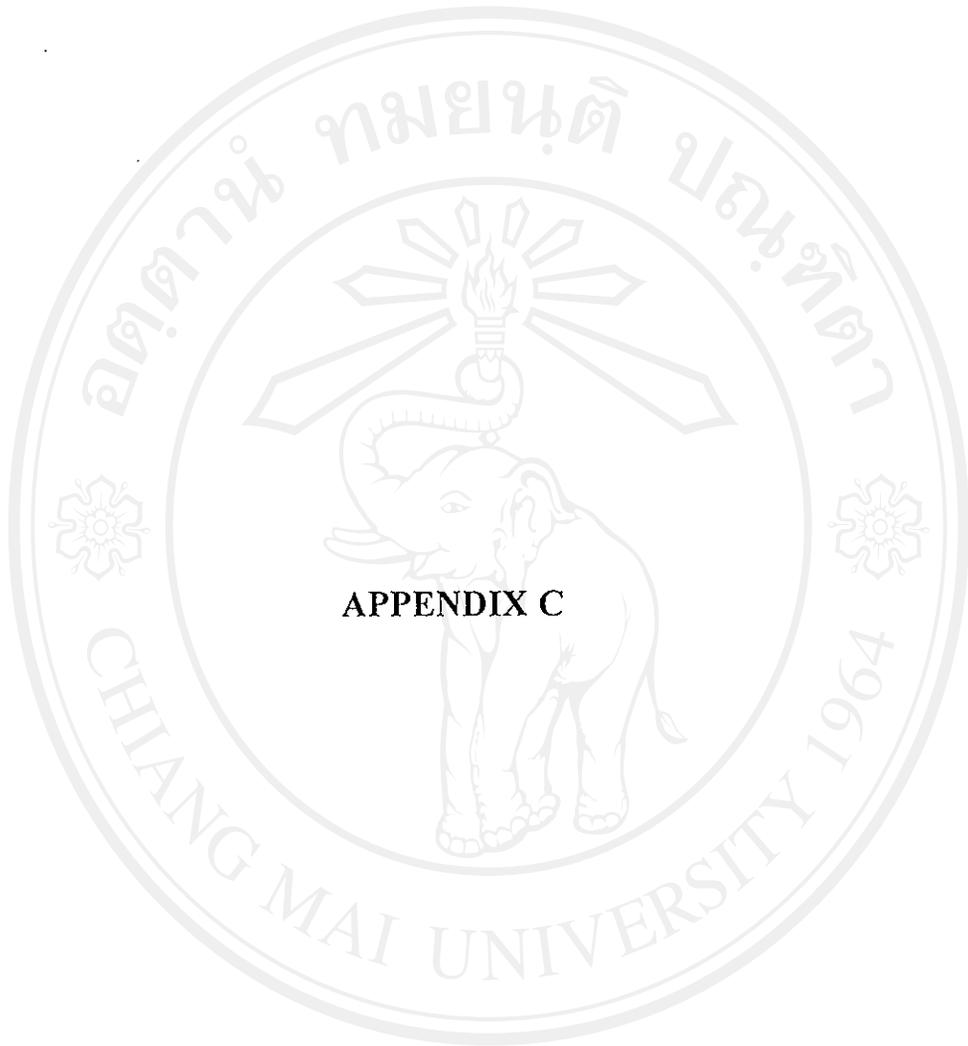
c = "common": about 20-100 specimens were found

a = "abundant": more than 100 specimens were found

Phenology: the numbers refer to the months in which adults were found

References: The number refers to the numbers in the series "Study on caddisflies of Thailand" which is cited in the reference list; the extra references are given in full. "Author" means an unpublished new record with the name of the collector in brackets.

? = Unable to evaluate the data now



APPENDIX C

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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List of 217 species (224 taxa) of Geometridae known to occur in Thailand. Locality refers to localities presented in Figure 2; Distribution records in the literature that simply refer to “Thailand” with no further resolution are annotated “Z”. Reference refers to literature sources of the distribution data.

Taxon	Locality	Reference
Subfamily Ennominae (188)		
Tribe Abraxini (6)		
<i>Abraxas</i> Leach, [1815] 1830 (6)		
1 <i>Abraxas aritai</i> Inoue, 1994	A	Inoue, 1994a
2 <i>Abraxas atrolivens</i> Inoue, 1994	A	Inoue, 1994a
3 <i>Abraxas formosilluminata</i> Inoue, 1984	A	Inoue, 1994a
4 <i>Abraxas illuminata</i> Warren, 1894	F	Inoue, 1994a
5 <i>Abraxas metallica</i> Inoue, 1994	A	Inoue, 1994a
6 <i>Abraxas oblongostigma</i> Inoue, 1994	A	Inoue, 1994a
Tribe Baptini (1)		
<i>Tasta</i> Walker, [1863] 1862 (1)		
7 <i>Tasta micaceata</i> Walker, 1862	Southern Thailand	Holloway, 1993
Tribe Boarmiini (142)		
<i>Abaciscus</i> Butler, 1889 (2)		
8 <i>Abaciscus adjuncta</i> (Prout, 1928)	A	Sato, 1997b
9 <i>Abaciscus karsholti</i> Sato, 1996	A	Sato, 1996b
<i>Alcis</i> Curtis, 1826 (16)		
10 <i>Alcis aagostigma</i> (Prout, 1927)	A	Sato, 1991
11 <i>Alcis albifera</i> (Moore, 1888)	A	Sato, 1991
12 <i>Alcis Chiangmaiensis Chiangmaiensis</i> Sato, 1991	A	Sato, 1991

13	<i>Alcis decussata</i> (Moore, 1868)	A	Sato, 1995
14	<i>Alcis hodeberti</i> Herbulot, 1987	A	Sato, 1995
15	<i>Alcis imbecilis</i> (Moore, 1888)	A	Sato, 1991
16	<i>Alcis macroclarata</i> Sato, 1993	A	Sato, 1995
17	<i>Alcis maculata</i> (Moore, 1867)	A	Holloway, 1993
18	<i>Alcis maculata prodictyota</i> (Wehrli, 1934)	A	Sato, 1991
19	<i>Alcis panmicra</i> (Prout, 1925)	A	Sato, 1996b
20	<i>Alcis paraclarata</i> Sato, 1993	A	Sato, 1995
21	<i>Alcis periphracta</i> (Prout, 1926)	A	Our monitoring
22	<i>Alcis semialba</i> (Moore, 1888)	A	Sato, 1991
23	<i>Alcis semiclarata</i> (Walker, 1862)	A	Sato, 1991
24	<i>Alcis variegata</i> (Moore, 1888)	A	Sato, 1991
<i>Amblychia</i> Guenée, 1857 (3)			
25	<i>Amblychia angeronaria</i> Guenée, 1857	H, I	Sato, 1996b
26	<i>Amblychia hymenaria</i> (Guenée, 1857)	C, H	Sato, 1996b
27	<i>Amblychia praeumbrata</i> (Warren, 1893)	K	Sato, 1996b
<i>Amraica</i> Moore, 1888 (2)			
28	<i>Amraica inouei</i> Sato, 1993	A, C, D, F, I	Sato, 1993
29	<i>Amraica recursaria</i> (Walker, 1860)	C, H, I, M	Sato, 1993
<i>Arichanna</i> Moore, 1868 (6)			
30	<i>Arichanna flavimedia</i> (Hampson, 1895)	B	Stüning, 2000
31	<i>Arichanna furcifera</i> Moore, 1888	C	Sato, 1995
32	<i>Arichanna marginata</i> Warren, 1893	A	Sato, 1995
33	<i>Arichanna peniculifera</i> Stüning, 2000	B	Stüning, 2000
34	<i>Arichanna tramesata</i> Moore, 1868	A	Sato, 1995
35	<i>Arichanna transfasciata</i> Warren, 1893	A	Sato, 1995
<i>Ascotis</i> Hübner, [1825] 1816 (2)			
36	<i>Ascotis selenaria imparata</i> (Walker, 1860)	A	Sato, 1996b

36a	<i>Ascotis selenaria selenaria</i> (Denis & Schiffermüller, 1775) <i>Biston</i> Leach, [1815] 1830 (10)	Z	Hutacharern and Tubtim, 1995
37	<i>Biston bengaliaria</i> (Guenée, 1857)	A, H	Sato, 1996b
38	<i>Biston contectaria</i> Walker, [1863]	Z	Hutacharern and Tubtim, 1995
39	<i>Biston luculentus</i> Inoue, 1992	A, H, I, K	Sato, 1996b
40	<i>Biston panternaria abraxata</i> (Leech, 1889)	Z	Sato, 1996b
40a	<i>Biston panternaria exanthemata</i> (Moore, 1888)	G	Sato, 1996b
40b	<i>Biston panternaria lienpingensis</i> (Wehrli, 1939)	Z	Sato, 1996b
40c	<i>Biston panternaria sychnospilas</i> (Prout, 1930)	Z	Sato, 1996b
40d	<i>Biston panternaria szechuanensis</i> (Wehrli, 1939)	Z	Sato, 1996b
41	<i>Biston pustulata</i> (Warren, 1896)	A	Our monitoring
42	<i>Biston regalis</i> Moore, 1888 <i>Blepharoctenucha</i> Warren, 1895 (1)	H	Sato, 1996b
43	<i>Blepharoctenucha virescens</i> (Butler, 1880) <i>Calcyopa</i> Stüning, 2000 (1)	A	Sato, 1996b
44	<i>Calcyopa presina</i> Stüning, 2000 <i>Calichodes</i> Warren, 1897 (1)	A	Stüning, 2000
45	<i>Calichodes ochrifasciatus</i> (Moore, 1888) <i>Catoria</i> Moore, 1887 (2)	A	Sato, 1996b
46	<i>Catoria olivescens</i> Moore, 1888	A	Our monitoring
47	<i>Catoria sublavaria</i> (Guenée, 1857) <i>Chorodna</i> Walker, 1860 (9)	H, I	Sato, 1995
48	<i>Chorodna complicataria</i> Walker, 1860	K, M	Sato, 1995
49	<i>Chorodna creatatia</i> (Guenée, 1857)	A, H	Sato, 1995
50	<i>Chorodna mauraria</i> (Guenée, 1857)	A	Sato, 1995
51	<i>Chorodna metaphaearia</i> (Walker, 1863)	A, H	Sato, 1995

52	<i>Chorodna pallidularia</i> Moore, 1868	Northern Thailand,	Holloway, 1993
		H	
53	<i>Chorodna quadrinotata</i> (Warren, 1893)	A	Sato, 1995
54	<i>Chorodna similis</i> (Moore, 1888)	A	Our monitoring
55	<i>Chorodna strixaria</i> (Guenée, 1857)	C, H, I	Sato, 1995
56	<i>Chorodna testaceata</i> Moore, 1868	A	Sato, 1995
	<i>Chrysoblephara</i> Holloway, [1994] (1)		
57	<i>Chrysoblephara chrysoteucta</i> (Prout, 1926)	A	Sato, 1996b
	<i>Cleora</i> Curtis, 1825 (15)		
58	<i>Cleora alienaria</i> (Walker, 1860)	A, C, H, I, J, K	Sato, 1991
59	<i>Cleora biclavata</i> (Fletcher, 1953)	M	Sato, 1991
60	<i>Cleora concentraria</i> (Snellen, 1877)	A, H, I, J	Sato, 1991
61	<i>Cleora contiguata brooksi</i> (Fletcher, 1953)	N	Sato, 1991
61a	<i>Cleora contiguata contiguata</i> (Moore, 1868)	A, H, I, J	Sato, 1991
62	<i>Cleora cucullata fusconebulata</i> (Fletcher, 1953)	A, H	Sato, 1991
63	<i>Cleora decisaria</i> (Walker, 1866)	A, I	Sato, 1991
64	<i>Cleora determinata</i> (Walker, 1860)	L, M	Sato, 1991
65	<i>Cleora fraterna</i> (Moore, 1888)	A, G, I	Sato, 1991
66	<i>Cleora injectaria</i> (Walker, 1860)	I, M	Hutacharern and Tubtim, 1995
67	<i>Cleora inoffensa glaucata</i> (Fletcher, 1953)	H, M	Sato, 1991
68	<i>Cleora onycha onycha</i> (Fletcher, 1953)	H	Sato, 1991
69	<i>Cleora pupillata pupillara</i> (Walker, 1860)	H, I, N	Sato, 1991
70	<i>Cleora repulsaria</i> (Walker, 1860)	A	Sato, 1991
71	<i>Cleora venustaria thaiensis</i> Sato, 1991	A	Sato, 1991
	<i>Coremecis</i> Holloway, [1994] (3)		
72	<i>Coremecis maculata</i> (Warren, 1899)	H	Sato, 1995
73	<i>Coremecis nigrovittata</i> (Moore, 1868)	A, H, K	Sato, 1995

74	<i>Coremecis stueningi</i> Sato, 1995 <i>Cusiala</i> Moore, [1887] 1884-7 (1)	Northern Thailand	Sato, 1995
75	<i>Cusiala boarmoides</i> Moore, [1887] <i>Dalima</i> Moore, 1868 (2)	A, C, H, I	Our monitoring
76	<i>Dalima patularia</i> (Walker, 1860)	Northern Thailand	Holloway, 1993
77	<i>Dalima truncataria</i> (Moore, 1868) <i>Darisa</i> Moore, 1888 (4)	Z	Stüning, 2000
78	<i>Darisa lampasaria</i> (Hampson, 1895)	A	Sato, 1995
79	<i>Darisa maxima</i> Moore, 1888	A	Sato, 1995
80	<i>Darisa missionaria</i> (Wehrli, 1941)	A	Sato, 1995
81	<i>Darisa mucidaria</i> (Walker, 1866) <i>Ectropis</i> Hübner, [1825] (2)	A	Sato, 1995
82	<i>Ectropis bhurmitra</i> Walker, 1860	Z	Hutachareern and Tubtim, 1995
83	<i>Ectropis longiscapia</i> Prout, 1926 <i>Erebomorpha</i> Walker, 1860 (1)	A	Our monitoring
84	<i>Erebomorpha fulgurita</i> Walker, 1860 <i>Gasterocome</i> Warren, 1894 (1)	A	Sato, 1996b
85	<i>Gasterocome pannosaria</i> (Moore, 1867) <i>Hypomecis</i> Hübner, 1821 (13)	A	Our monitoring
86	<i>Hypomecis cineracea</i> (Moore, 1888)	A, H, I	Sato, 1991
87	<i>Hypomecis costaria</i> (Guenée, 1857)	E, H, L	Holloway, 1993
88	<i>Hypomecis infixaria</i> (Walker, 1860)	A, C, J	Sato, 1991
89	<i>Hypomecis lioptilaria</i> (Swinhoe, 1903)	A, E, G, H, I	Sato, 1991;Holloway, 1993
90	<i>Hypomecis moriutii</i> Sato, 1991	A, E	Sato, 1991
91	<i>Hypomecis nepalensis</i> (Hampson, 1902)	A	Sato, 1991

92	<i>Hypomecis oblivia</i> (Prout, 1925)	A	Sato, 1995
93	<i>Hypomecis procuraria</i> (Walker, 1860)	J	Sato, 1991
94	<i>Hypomecis separata</i> (Walker, 1860)	D, G, H, I, N	Sato, 1991
95	<i>Hypomecis stueningi</i> Sato, 1991	A	Sato, 1991
96	<i>Hypomecis subdetractaria subdetractaria</i> (Prout, 1923)	K	Holloway, 1993
97	<i>Hypomecis tetragonota</i> (Walker, 1862)	A	Our monitoring
98	<i>Hypomecis transcissa</i> (Walker, 1860)	D, G, H	Sato, 1991
	<i>Hyposidra</i> Guenée, [1857] (3)		
99	<i>Hyposidra aquilaria</i> (Walker, 1862)	A	Our monitoring
100	<i>Hyposidra talaca</i> Walker, 1860	A	Hutacharearn and Tubtim, 1995
101	<i>Hyposidra violescens</i> Hampson, 1895	Z	Holloway, 1993
	<i>Jankowskia Oberthür</i> , 1884 (1)		
102	<i>Jankowskia fuscaria fuscaria</i> (Leech, 1891)	A	Sato, 1996b
	<i>Krananda</i> Moore, 1868 (2)		
103	<i>Krananda lucidaria</i> Leech, 1897	Northern Thailand	Holloway, 1993
104	<i>Krananda oliveomarginata</i> Swinhoe, 1894	Z	Holloway, 1993
	<i>Lassaba</i> Moore, 1888 (2)		
105	<i>Lassaba acribomena</i> (Prout, 1928)	M	Sato, 1995
106	<i>Lassaba albidaria albidaria</i> (Walker, 1866)	A	Sato, 1995
	<i>Menophra</i> Moore, [1887] 1884 (4)		
107	<i>Menophra lignata</i> (Warren, 1894)	A	Sato, 1995
108	<i>Menophra subpilosa</i> (Warren, 1894)	A	Sato, 1995
109	<i>Menophra subterminalis</i> (Prout, 1925)	C, H	Sato, 1995
110	<i>Menophra torridaria</i> (Moore, 1888)	Northern Thailand	Sato, 1995
	<i>Microcalicha</i> Sato, 1981 (1)		
111	<i>Microcalicha delika</i> (Swinhoe, 1902)	Southern Thailand	Holloway, 1993

Milionia Walker, 1854 (1)

- 112 *Milionia basalis pyeri* Druce, 1888 Z Hutacharern and
Tubtim, 1995

Myrioblephara Warren, 1893 (5)

- 113 *Myrioblephara conifera* (Moore, 1888) A Sato, 1996b
114 *Myrioblephara embolochroma* (Prout, 1927) A Sato, 1996b
115 *Myrioblephara idaeoides* (Moore, 1888) A Sato, 1996b
116 *Myrioblephara irrorata* (Moore, 1888) A Sato, 1996b
117 *Myrioblephara simplaria* (Swinhoe, 1894) A, C Sato, 1996b

Necyopa Walker, 1861 (2)

- 118 *Necyopa flatipennata* Walker, 1862 Southern Thailand Holloway, 1993;
Sato, 1996b
119 *Necyopa ioge* Prout, 1932 A Sato, 1996b

Ophthalmitis Fletcher, 1979 (3)

- 120 *Ophthalmitis clararia* Walker, 1866 M Sato, 1996b
121 *Ophthalmitis herbidaria* (Guenée, 1857) A Sato, 1996b
122 *Ophthalmitis pertusaria* (Felder&Rogenhofer, 1875) A, C, E Sato, 1995

Prochasma Warren, 1897 (2)

- 123 *Prochasma albimomilis* Prout, 1927 A Sato, 1996b
124 *Prochasma dentilinea* (Warren, 1893) A Sato, 1996b

Pseudalcis Warren, 1897 (1)

- 125 *Pseudalcis trispinaria* (Walker, 1860) A Sato, 1995

Psilalcis Warren, 1893 (5)

- 126 *Psilalcis bisinuata* (Hampson, 1895) A, H Sato, 1996b
127 *Psilalcis dignampta* (Prout, 1927), C Sato, 1996b
128 *Psilalcis intermedia* Warren, 1899 A, J Sato, 1996b
129 *Psilalcis paraceptaria* Sato, 1996 A, M Sato, 1996b
130 *Psilalcis postochrea* Sato, 1996 A, B, H Sato, 1996b

	<i>Rikiosatoa</i> Inoue, 1982 (2)		
131	<i>Rikiosatoa euphiles</i> (Prout, 1916)	A	Sato, 1992b
132	<i>Rikiosatoa fucatariodes</i> Sato, 1992	E	Sato, 1992b
	<i>Ruttellerona</i> Swinhoe, 1894 (1)		
133	<i>Ruttellerona pallicostaria</i> (Moore, 1868)	A, H, I, J, M	Sato, 1996b
	<i>Uliura</i> Warren, 1904 (4)		
134	<i>Uliura combustaria</i> (Walker, 1866)	A	Sato, 1995; Stüning, 2000
135	<i>Uliura dierli</i> Stüning, 2000	A	Stüning, 2000
136	<i>Uliura gratiosa</i> Sato, 1995	Z	Sato, 1995; Stüning, 2000
137	<i>Uliura kurokoi</i> Sato, 1995	A	Sato, 1995
	<i>Xandrames</i> Moore, 1868 (3)		
138	<i>Xandrames albofasciata</i> Moore, 1868	A	Sato, 1996b
139	<i>Xandrames latiferaria</i> (Walker, 1860)	G, H	Sato, 1996b
140	<i>Xandrames xanthos</i> Sato, 1996	A	Sato, 1996b
	<i>Xerodes</i> Guenée, [1857] (1)		
141	<i>Xerodes ypsaria</i> Guenée, 1857	A	Sato, 1996b
	<i>Zanclomenophra</i> Holloway, [1994] (1)		
142	<i>Zanclomenophra subusta</i> (Warren, 1901)	M	Sato, 1995
	Tribe Eutoeini (2)		
	<i>Luxiaria</i> Walker, 1860 (2)		
143	<i>Luxiaria emphatica</i> Prout, 1925	A	Our monitoring
144	<i>Luxiaria mitorrhaphes</i> Prout, 1925	A	Our monitoring
	Tribe Hypochrosiini (9)		
	<i>Fascellina</i> Walker, 1860 (4)		

145	<i>Fascellina albicordis</i> Prout, 1932	A	Our monitoring
146	<i>Fascellina aurifera</i> Warren, 1897	Z	Holloway, 1993
147	<i>Fascellina inornata</i> Warren, 1893	Northern Thailand	Stüning, 2000
147a	<i>Fascellina inornata pinratanai</i> Inoue, 1992	A	Inoue, 1992
	<i>Genusa</i> Walker, 1855 (1)		
148	<i>Genusa bigutta</i> Walker, 1855	Z	Holloway, 1993
	<i>Hypochrosis</i> Guenée, 1857 (4)		
149	<i>Hypochrosis amaurospila</i> Yazaki, 1995	Northern Thailand	Stüning, 2000
150	<i>Hypochrosis abstractaria</i> Walker, 1862	Z	Holloway, 1993
151	<i>Hypochrosis binexata</i> (Walker, 1863)	Z	Holloway, 1993
152	<i>Hypochrosis hyadaria</i> Guenee, 1857	A	Our monitoring
	Tribe Lithinini (1)		
	<i>Nadagara</i> Walker, 1861 (1)		
153	<i>Nadagara intractata</i> Walker, 1862	Z	Holloway 1993
	Tribe Macarini (6)		
	<i>Chiasmia</i> Hübner, [1823] 1816 (6)		
154	<i>Chiasmia emersaria</i> (Walker, 1861)	Z	Holloway 1993
155	<i>Chiasmia lannaensis</i> (Bänzinger & Fletcher, 1988)	A	Scoble, 1999
156	<i>Chiasmia nora</i> (Walker, 1861)	Z	Holloway 1993
157	<i>Chiasmia suthepensis</i> (Bänzinger & Fletcher, 1988)	A	Scoble, 1999
158	<i>Chiasmia translineata</i> (Walker, 1866)	A	Holloway 1993
159	<i>Chiasmia triangulata</i> (Hampson, 1891)	Northern Thailand	Scoble, 1999
	Tribe Ourapterygini (12)		
	<i>Ourapteryx</i> Leach, 1814 (12)		
160	<i>Ourapteryx astrigera</i> Inoue, 1993	A	Inoue, 1993b

161	<i>Ourapteryx clara clara</i> Butler, 1880	A, H	Inoue, 1993b
162	<i>Ourapteryx consociata</i> Inoue, 1993	A	Inoue, 1993b
163	<i>Ourapteryx contronivea</i> Inoue, 1993	A	Inoue, 1993b
164	<i>Ourapteryx diminuta</i> Inoue, 1993	A	Inoue, 1993b
165	<i>Ourapteryx fulvinervis</i> Warren, 1894	D	Inoue, 1993b
166	<i>Ourapteryx karsholti</i> Inoue, 1993	C	Inoue, 1993b
167	<i>Ourapteryx margaritata</i> Moore, 1868	A, B	Inoue, 1993b
168	<i>Ourapteryx nivea</i> Butler, 1883	Z	Hutacharearn and Tubtim, 1995
169	<i>Ourapteryx picticaudata</i> Walker, 1860	B, H	Inoue, 1993b
170	<i>Ourapteryx sciticaudaria</i> Walker, 1863	A	Inoue, 1993b
171	<i>Ourapteryx stueningi</i> Inoue, 1993	A	Inoue, 1993b
Tribe Plutodini (1)			
<i>Plutodes</i> Guenée, 1857 (1)			
172	<i>Plutodes flavescens</i> Butler, 1880	A	Our monitoring
Ennominae unallocated to tribe (8)			
<i>Metabraxas</i> Butler, 1881 (1)			
173	<i>Metabraxas atrogrisea</i> Inoue, 1992	A	Inoue, 1992
<i>Parapercnia</i> Wehrli, 1939 (1)			
174	<i>Parapercnia chionopepla</i> Inoue, 1992	A	Inoue, 1992
<i>Paracalicha</i> Sato, 1992 (1)			
175	<i>Paracalicha prasinaria</i> Sato, 1992	A	Sato, 1992
<i>Parectropis</i> Sato, 1980 (1)			
176	<i>Parectropis siamensis</i> Sato, 1996	A	Sato, 1996b
<i>Pseudomiza</i> Butler, 1889 (1)			
177	<i>Pseudomiza uniformis</i> Inoue, 1992	A	Sato, 1992

- Shangrilana* Inoue, 1994 (1)
- 178 *Shangrilana paradisea* Inoue, 1994 A Inoue, 1994c
- Sinameda* Warren, 1894 (1)
- 179 *Sinameda basistrigaria*(Moore, 1868) A Sato, 1995
- Telletrurona* Sato, 1996 (1)
- 180 *Telletrurona amnicosta* Sato, 1996 A Sato, 1996b
- Subfamily Geometrinae (22)
- Tribe Dysphaniini (1)
- Dysphania* Hübner, [1819] 1816 (1)
- 181 *Dysphania sagana*(Druce, 1882) Z Holloway, 1996
- Tribe Geometrini (19)
- Aporandria* Warren, 1894 (1)
- 182 *Aporandria specularia* (Guenée, 1857) Z Hutacharern and Tuntim, 1995; Holloway, 1996
- Dindica* Moore, 1888 (3)
- 183 *Dindica olivacea* Inoue, 1990 H Inoue, 1990
- 184 *Dindica para para* (Swinhoe, 1891) A Inoue, 1990
- 185 *Dindica polyphaenaria* (Guenée, 1857) H Inoue, 1990
- Eretmopus* Turner, 1910 (1)
- 186 *Eretmopus marinaria* (Guenée, 1857) Z Holloway, 1996
- Hemithea* Duponchel, 1829 (1)
- 187 *Hemithea evanescens* Inoue, 1992 A Inoue, 1992
- Herochroma* Swinhoe, 1893 (5)
- 188 *Herochroma cristata* (Warren, 1894) Z Inoue, 1999
- 189 *Herochroma hemiticheres* Prout, 1935 Z Inoue, 1999

- 190 *Herochroma thaiensis* Inoue, 1992 A Inoue, 1999
- 191 *Herochroma viridaria peperata* (Herbulot, 1989) Z Inoue, 1999
- 192 *Herochroma yazakii* Inoue (Inoue, 1999) Z Inoue, 1999
- Ornithospila* Warren, 1894 (1)
- 193 *Ornithospila lineata* (Moore, 1872) Z Hutacharern and
Tumtim, 1995
- Pelagodes* Holloway, 1996 (1)
- 194 *Pelagodes antiquadraria* Inoue, 1976 Z Inoue, 1994b
- Pingasa* Moore, [1887] 1884-7 (2)
- 195 *Pingasa chlora* Stoll, 1782 Z Hutacharern and
Tumtim, 1995
- 196 *Pingasa ruginaria* (Guenée, 1857) Z Hutacharern and
Tumtim, 1995
- Tanaorhinus* Butler, 1879 (3)
- 197 *Tanaorhinus kina flavinfra* Inoue, 1978 A Inoue, 1986
- 198 *Tanaorhinus rafflesii* (Moore, 1860) Z Hutacharern and
Tumtim, 1995
- 199 *Tanaorhinus viridiluteata* (Walker, 1861) Z Hutacharern and
Tumtim, 1995
- Timandromorpha* Inoue, 1944 (1)
- 200 *Timandromorpha energies* Prout, 1933 Z Hutacharern and
Tumtim, 1995;
Holloway, 1996
- Geometrinae unallocated to tribe (2)
- Neohipparchus* Inoue, 1944 (1)
- 201 *Neohipparchus vallata* Butler, 1878 Z Hutacharern and
Tumtim, 1995

	<i>Pseudobiston</i> Inoue, 1994 (1)		
202	<i>Pseudobiston pinratanai</i> Inoue, 1994	A	Inoue, 1996c
	Subfamily Larentiinae (15)		
	Tribe Cidariini (1)		
	<i>Ecliptopera</i> Warren, 1894 (1)		
203	<i>Ecliptopera rectilinea</i> Warren, 1894	A	Our monitoring
	Tribe Trichopterygini (6)		
	<i>Hypocometa</i> Warren, 1896 (1)		
204	<i>Hypocometa clauda</i> Warren, 1896	A	Hashimoto, 1995
	<i>Sauris</i> Guenée, [1857] (1)		
205	<i>Sauris fuscomarginata</i> Hashimoto, 1995	A	Hashimoto, 1995
	<i>Trichopterigia</i> Hampson, 1895 (4)		
206	<i>Trichopterigia atrofasciata</i> Hashimoto, 1995	A	Hashimoto, 1995
207	<i>Trichopterigia minuta</i> Inoue, 1992	A	Inoue, 1992
208	<i>Trichopterigia sanguinipunctata</i> (Warren, 1893)	A	Hashimoto, 1995
209	<i>Trichopterigia viridilineata</i> Hashimoto, 1995	A	Hashimoto, 1995
	Subfamily Oenochrominae (6)		
	<i>Abraxaphantes</i> Warren, 1894 (1)		
210	<i>Abraxaphantes perample</i> Swinhoe, 1890	Z	Hutacharern and Tumtim, 1995
	<i>Sarcinodes</i> Guenée, [1857] (5)		
211	<i>Sarcinodes sumatraria</i> (Walker, 1866)	Z	Holloway, 1996
212	<i>Sarcinodes carnaria</i> Guenée, 1857	Z	Hutacharern and Tumtim, 1995
213	<i>Sarcinodes debitaria</i> (Walker, 1863)	Z	Hutacharern and

			Tumtim, 1995
214	<i>Sarcinodes vultuaria</i> Guenée, 1857	Z	Holloway, 1996
215	<i>Sarcinodes yazakii</i> Inoue, 1992	A	Inoue, 1992

Subfamily Sterrhinae (2)

Antitrygodes Warren, 1895 (1)

216	<i>Antitrygodes cuneilinea</i> Walker, [1863]	Z	Hutacharern and Tumtim, 1995
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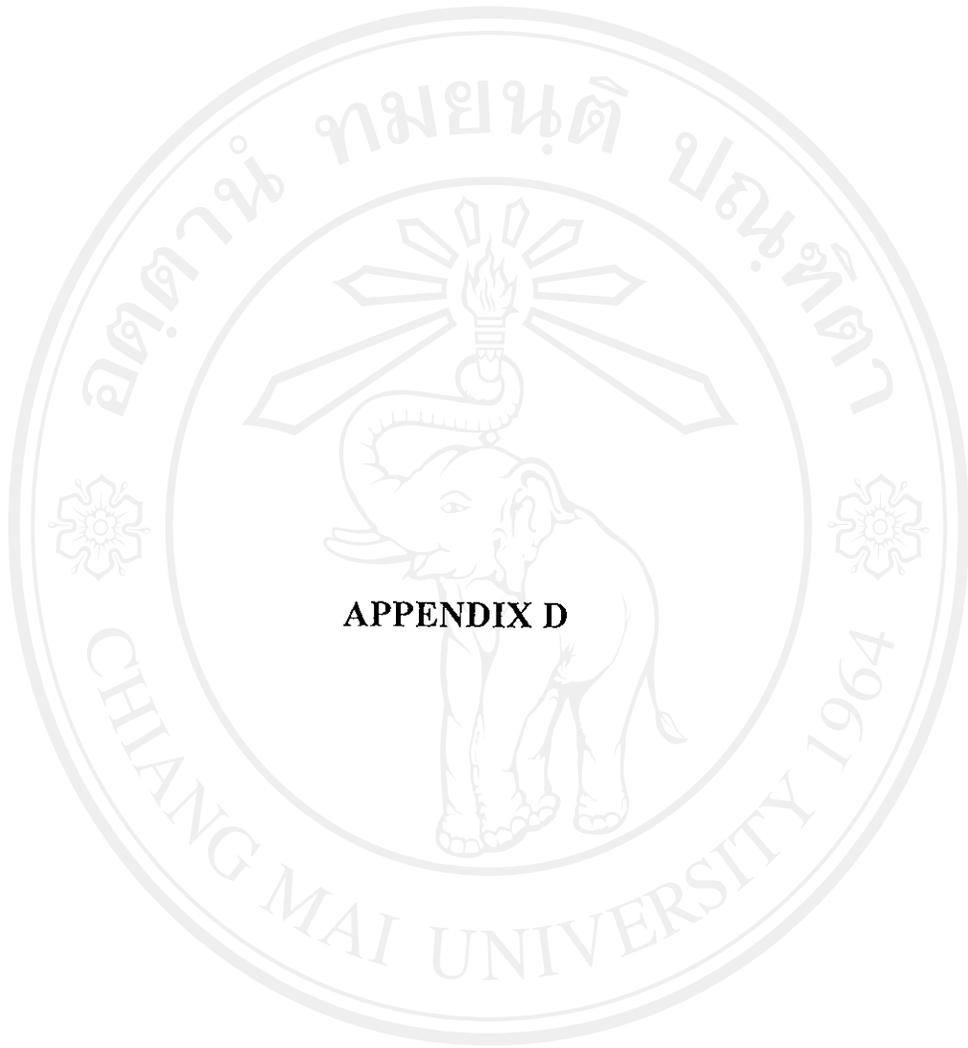
Somatina Guenée, [1857] (1)

217	<i>Somatina dentifasciaria</i> Inoue, 1992	A	Inoue, 1992
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Note: The locality record of Geometridae in Thailand; A = Doi Inthanon Doi Suthep-Pui and Pakia (Chiang Mai), B= Doi Phukha (Nan), C = Phu Luang and Phu Rua (Loei), D = Phuhin Rongkla and Thung Salaeng Luang (Phitsanulok), E = Nam Nao National Park (Phetchabun), F = NamProam Dam (Khon Kaen), G = Chulabhone Dam (Chaiyaphum), H = Khao Yai (Nakhon Nayok), I = Khao Soi Dow (Chanthaburi), J = Earawan and Tum Than Lod (Kanchanaburi), K = KhongNahka (Ranong), L = KhaoSok (Surat Thani), M = Khao Luang (Nakhon Sri Thammarat) and N = Num Tok Ton Sai (Phuket).

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APPENDIX D

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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Table A.5 Caddisflies from Doi Suthep-Pui and Doi Inthanon National Park capture with UV-dry light trap in 2002. The numbers of specimens are indicated follow by the location with the elevation in blanket.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rhyacophilidae												
<i>Rhyacophila petersorum</i>				2(S600)						1(S1200)		
<i>Rhyacophila suthepensis</i>				1(S600)					1(I1000)			
<i>Rhyacophila scissoides</i>		1(I1200)		1(S1200) 3(I1200)	1(I1200)				1(I1200)		1(S1200)	
<i>Rhyacophila malayana</i>											1(S1200)	
<i>Rhyacophila verugia</i>			1(I600)									
<i>Rhyacophila talita</i>	1(I1200)											
<i>Rhyacophila quana</i>									1(I1200)			
<i>Rhyacophila cornuta</i>								1(I1200)				
<i>Himalopsyche acharai</i>		1(I1200)										
Female Rhyacophilidae			3(S600) 1(I600) 2(I1000) 3(I1200)	1(S1200)		3(S600)					3(S1200)	2(S1200)

Hydropsychidae											
<i>Hydatomanicuse klanklini</i>										1(S600)	
<i>Hydropsyche bootes</i>		1(S600)	1(I1200)								
<i>Hydropsyche pallipenne</i>		2(S1000)			2(S600)						1(I600)
<i>Hydromanicus abiud</i>					1(S600)						
<i>Hydropsyche arcturus</i>									2(S1000)		
<i>Hydropsyche uvana</i>	3(I1200)	5(I600)	1(I1000) 2(I1200)								
<i>Hydropsyche adrastras</i>		1(I600)	1(I1000)							1(I1200)	
<i>Hydropsyche bacchus</i>		1(I1200)									
<i>Hydropsyche bacchus</i>		1(I600)									
<i>Hydropsyche briareus</i>											
<i>Hydropsyche briareus</i>			1(I600)		2(I600) 1(I600)						
<i>Hydromanicus serubabel</i>	1(I1200)	1(S600) 3(S1000) 2(I600)	6(S1000) 3(I600)		1(S600)					3(S600)	
<i>Hydromanicus inferior</i>			2(I1000)								
<i>Hydromanicus punctosalis</i>	1(I1200)										
<i>Hydromanicus elitakim</i>		3(I1200)	4(I1200)							3(S1200)	
<i>Hydromanicus sealthiel</i>											
<i>Hydromanicus truncatus</i>	2(I1200)	1(S1000)	1(I1200)							1(I1200)	2(S1200)
<i>Hydromanicus adonis</i>											1(I600)
<i>Cheumatopsyche cocles</i>										1(S600)	

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