

These are electronic appendices to the Biology Letter by Willmott & Mallet 2004 Correlations between adult mimicry and larval host plants in ithomiine butterflies *Proc. R. Soc. Lond. B* (Suppl.), Biology Letters. Published online 1 April 2004 (DOI 10.1098/rsbl.2004.0184.)

Electronic appendices are refereed with the text. However, no attempt has been made to impose a uniform editorial style on the electronic appendices.

Electronic Appendix A Hostplant records and mimicry classification for five ithomiine communities.

Tribe	Genus	Species	Subspecies	Male mimicry ring	Female mimicry ring	Plant genus	Plant species	Delete
<b>ECUADOR NORTH MONTANE (Willmott, this study)</b>								
Dircennini	Dircenna	adina	lorica	OCNA	OCNA	Solanum	asperum	no
Dircennini	Dircenna	adina	lorica	OCNA	OCNA	Solanum	ovalifolium	no
Dircennini	Dircenna	adina	lorica	OCNA	OCNA	Solanum	sect. Torva1	no
Dircennini	Dircenna	adina	lorica	OCNA	OCNA	Solanum	sect. Torva3	no
Dircennini	Dircenna	paradoxa	praestigiosa	PANTHYALE	PANTHYALE	Dunalia	solanacea	no
Dircennini	Dircenna	paradoxa	praestigiosa	PANTHYALE	PANTHYALE	Solanum	sect. Torva1	no
Dircennini	Dircenna	paradoxa	praestigiosa	PANTHYALE	PANTHYALE	Solanum	sect. Torva2	no
Dircennini	Dircenna	paradoxa	praestigiosa	PANTHYALE	PANTHYALE	Solanum	sect. Torva3	no
Dircennini	Episcada	mira		LIBETHRIS	AGNOSIA	Solanum	aphyodendron	no
Dircennini	Hyalenna	sulmona	lobusa	PANTHYALE	PANTHYALE	Solanum	lepidotum	no
Dircennini	Pteronymia	alida	ssp	HEWITSONI	HEWITSONI	Solanum	nutans	no
Dircennini	Pteronymia	alissa	andreas	AGNOSIA	AGNOSIA	Solanum	abitaguense	no
Dircennini	Pteronymia	alissa	andreas	AGNOSIA	AGNOSIA	Solanum	aphyodendron	no
Dircennini	Pteronymia	artena	afrania	AGNOSIA	AGNOSIA	Lycianthes	multiflora	no
Dircennini	Pteronymia	sp		TICIDA-M	HEWITSONI	Solanum	nudum	no
Dircennini	Pteronymia	dispaena	inania	HEWITSONI	HEWITSONI	Solanum	cajanumense	no
Dircennini	Pteronymia	dispaena	inania	HEWITSONI	HEWITSONI	Solanum	calidum	no
Dircennini	Pteronymia	oneida	oneida	HEWITSONI	HEWITSONI	Solanum	deflexiflorum	no
Dircennini	Pteronymia	serrata	ssp	HEWITSONI	HEWITSONI	Solanum	deflexiflorum	no
Dircennini	Pteronymia	serrata	ssp	HEWITSONI	HEWITSONI	Solanum	nudum	yes
Dircennini	Pteronymia	serrata	ssp	HEWITSONI	HEWITSONI	Solanum	nutans	no
Godyridini	Godyris	duillia		DUILLIA	DUILLIA	Cestrum	microcalyx	no
Godyridini	Godyris	panthyale	panthyale	PANTHYALE	PANTHYALE	Cestrum	sp1	no
Godyridini	Greta	alphesiboea		DUILLIA	DUILLIA	Cestrum	microcalyx	no
Godyridini	Greta	andromica	andania	AGNOSIA	AGNOSIA	Cestrum	microcalyx	no
Godyridini	Greta	enigma	ssp	PANTHYALE	PANTHYALE	Cestrum	megalophyllum	no
Godyridini	Greta	enigma	ssp	PANTHYALE	PANTHYALE	Cestrum	sp1	no
Godyridini	Greta	hermana	joiceyi	JOICEYI	JOICEYI	Cestrum	megalophyllum	no
Godyridini	Greta	hermana	joiceyi	JOICEYI	JOICEYI	Cestrum	sp2	no
Godyridini	Greta	lydia		HEWITSONI	HEWITSONI	Cestrum	megalophyllum	no
Godyridini	Greta	ortygia	ortygia	PANTHYALE	PANTHYALE	Cestrum	megalophyllum	no
Napeogenini	Hyalyris	ocna	ssp	OCNA	OCNA	Solanum	asperum	no
Napeogenini	Hyalyris	ocna	ssp	OCNA	OCNA	Solanum	sect. Torva3	no
Napeogenini	Napeogenes	apulia	ssp	OCNA	OCNA	Lycianthes	multiflora	no
Oleriini	Oleria	fasciata	fasciata	SUSIANA	SUSIANA	Solanum	anceps	no
Oleriini	Oleria	makrena	makrenita	AGNOSIA	AGNOSIA	Lycianthes	multiflora	no
Oleriini	Oleria	santinea	ssp	BANJANA-M	BANJANA-M	Solanum	abitaguense	no
<b>ECUADOR SOUTH MONTANE (Willmott, this study)</b>								
Dircennini	Dircenna	adina	lorica	MESTRA	MESTRA	Solanum	sect. Torva2	no
Dircennini	Dircenna	paradoxa	praestigiosa	PANTHYALE	PANTHYALE	Solanum	hispidum	no
Dircennini	Episcada	apuleia	apuleia	APULEIA	APULEIA	Solanum	aphyodendron	no
Dircennini	Episcada	apuleia	apuleia	APULEIA	APULEIA	Solanum	aphyodendron	no
Dircennini	Episcada	apuleia	apuleia	APULEIA	APULEIA	Solanum	sp2	no
Dircennini	Episcada	mira		LIBETHRIS	AGNOSIA	Solanum	aphyodendron	no
Dircennini	Pteronymia	alida	ssp	APULEIA	APULEIA	Solanum	nutans	no
Dircennini	Pteronymia	alissa	andreas	AGNOSIA	AGNOSIA	Brugmansia	candida	no
Dircennini	Pteronymia	alissa	andreas	AGNOSIA	AGNOSIA	Solanum	abitaguense	no

Electronic Appendix A Cont. Hostplant records and mimicry classification for five ithomiine communities.

Tribe	Genus	Species	Subspecies	Male mimicry ring	Female mimicry ring	Plant genus	Plant species	Delete
<b>ECUADOR SOUTH MONTANE (Willmott, this study)</b>								
Dircennini	Pteronymia	ozia	ozia	OZIA	MESTRA	Solanum	aphyodendron	no
Dircennini	Pteronymia	teresita	thabena	OZIA	DUILLIA	Solanum	cajanumense	no
Dircennini	Pteronymia	ticida	ticida	TICIDA-M	HEWITSONI	Solanum	abitaguense	no
Dircennini	Pteronymia	ticida	ticida	TICIDA-M	HEWITSONI	Solanum	sp5	no
Dircennini	Pteronymia	zerlina	ssp	APULEIA	APULEIA	Solanum	sp5	no
Dircennini	Velamysta	phengites	phengites	PANTHYALE	PANTHYALE	Cuatresia	riparia	no
Godyridini	Godyris	duillia		DUILLIA	DUILLIA	Cestrum	microcalyx	no
Godyridini	Godyris	panthyale	panthyale	PANTHYALE	PANTHYALE	Cestrum	sp1	no
Godyridini	Greta	andromica	andania	AGNOSIA	AGNOSIA	Solanum	anceps	no
Godyridini	Greta	sp		AGNOSIA	AGNOSIA	Cestrum	microcalyx	no
Godyridini	Greta	depauperata	umbrosa	LAUTA	LAUTA	Solanum	sp1	yes
Godyridini	Greta	enigma	ssp	PANTHYALE	PANTHYALE	Cestrum	sp1	no
Godyridini	Greta	theudelinda	zalmunna	ZALMUNNA	ZALMUNNA	Solanum	sp3	no
Ithomiini	Ithomia	avella	epona	TICIDA-M	HEWITSONI	Cuatresia	riparia	no
Ithomiini	Ithomia	lagusa	linda	ANTEA	ANTEA	Cuatresia	riparia	no
Ithomiini	Ithomia	salapia	derasa	DERASA	DERASA	Witheringia	solanacea	no
Ithomiini	Ithomia	terra	terra	BANJANA-M	BANJANA-M	Cuatresia	riparia	no
Melinieini	Melinaea	menophilus	zaneka	AMICA	AMICA	Markea	sp	no
Oleriini	Megoleria	orestilla	orestilla	BANJANA-M	BANJANA-M	Gesneriaceae	unidentified	no
Tithoreini	Patricia	deryllidas	deryllidas	DERCYLLIDAS	DERCYLLIDAS	Capsicum	lycianthoides	no
<b>ECUADOR LOWLAND (Drummond, 1976)</b>								
Dircennini	Ceratinia	tutia	poecila	HERMIAS	MAMERCUS	Solanum	antillarum	No
Dircennini	Episcada	sulphurea	ssp	SALAPIA	SALAPIA	Solanum	sp. (7336)	No
Dircennini	Pteronymia	vestilla	sparsa	SALAPIA	SALAPIA	Solanum	nr. nudum	No
Godyridini	Godyris	zavaleta	matronalis	SALAPIA	SALAPIA	Cestrum	laevigatum	No
Godyridini	Godyris	zavaleta	matronalis	SALAPIA	SALAPIA	Cestrum	sp. (7334)	No
Godyridini	Heterosais	giulia	nephele	AGNOSIA	AGNOSIA	Cestrum	sp. (7324)	No
Godyridini	Brevioleria	arzalia	ssp	AURELIANA	AURELIANA	Cestrum	sp. (7353)	No
Godyridini	Pseudoscada	timna	ssp	AGNOSIA	AGNOSIA	Cestrum	sp. (7324)	No
Ithomiini	Ithomia	agnosia	agnosia	AGNOSIA	AGNOSIA	Physalis	pubescens	No
Ithomiini	Ithomia	amarilla		SALAPIA	SALAPIA	Cuatresia	sp. (7327)	No
Ithomiini	Ithomia	salapia	derasa	DERASA	DERASA	Physalis	angulata	No
Mechanitini	Forbestra	olivencia	juntana	HERMIAS	HERMIAS	Solanum	anceps	No
Mechanitini	Mechanitis	lysimnia	roqueensis	HERMIAS	HERMIAS	Solanum	macronotum	No
Mechanitini	Mechanitis	lysimnia	roqueensis	HERMIAS	HERMIAS	Solanum	pectinatum	No
Mechanitini	Mechanitis	lysimnia	roqueensis	HERMIAS	HERMIAS	Solanum	sp. (7334)	No
Mechanitini	Mechanitis	mazaeus	mazaeus	HERMIAS	HERMIAS	Solanum	nr. lancaeifolium	No
Mechanitini	Mechanitis	mazaeus	mazaeus	HERMIAS	HERMIAS	Solanum	sp. (7326)	No
Mechanitini	Mechanitis	mazaeus	mazaeus	HERMIAS	HERMIAS	Solanum	sp. (7333)	No
Mechanitini	Mechanitis	messenoides	deceptor	MOTHONE	MOTHONE	Solanum	pectinatum	No
Mechanitini	Mechanitis	messenoides	deceptor	MOTHONE	MOTHONE	Solanum	quitoense	No
Mechanitini	Mechanitis	messenoides	deceptor	MOTHONE	MOTHONE	Solanum	sessiliflorum	No
Mechanitini	Mechanitis	polymnia	ssp	HERMIAS	HERMIAS	Cyphomandra	hartwegii	No
Mechanitini	Mechanitis	polymnia	ssp	HERMIAS	HERMIAS	Lycopersicon	esculentum	No
Mechanitini	Mechanitis	polymnia	ssp	HERMIAS	HERMIAS	Solanum	quitoense	No
Mechanitini	Mechanitis	polymnia	ssp	HERMIAS	HERMIAS	Solanum	sessiliflorum	No

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Tribe	Genus	Species	Subspecies	Male mimicry ring	Female mimicry ring	Plant genus	Plant species	Delete
<b>ECUADOR LOWLAND (Drummond, 1976)</b>								
Mechanitini	Mechanitis	polymnia	ssp	HERMIAS	HERMIAS	Solanum	sp. (7334)	Yes
Mechanitini	Methona	confusa	psamathe	CONFUSA	CONFUSA	Brunfelsia	pauciflora	No
Mechanitini	Methona	confusa	psamathe	CONFUSA	CONFUSA	Brunfelsia	sp. (7330)	No
Mechanitini	Scada	zibia	quotidiana	DERASA	DERASA	Solanum	sp. (7331)	No
Mechanitini	Scada	zibia	batesi	SALAPIA	SALAPIA	Solanum	sp. (7331)	No
Mechanitini	Thyridia	psidii	ino	CONFUSA	CONFUSA	Cyphomandra	hartwegii	No
Napeogenini	Hypothyris	euclea	intermedia	HERMIAS	HERMIAS	Solanum	bicolor	No
Napeogenini	Hypothyris	fluonia	berna	HERMIAS	HERMIAS	Solanum	sp. (7311)	No
Napeogenini	Hypothyris	semifulva	satura	HERMIAS	HERMIAS	Solanum	schlechtendalianum	No
Napeogenini	Napeogenes	inachia	pozziana	SALAPIA	SALAPIA	Lycianthes	howardiana	No
Napeogenini	Napeogenes	sylphis	corena	AURELIANA	AURELIANA	Lycianthes	sp. (7325)	No
Oleriini	Oleria	onega	ssp	LERIDA	LERIDA	Lycianthes	maxonii	No
Oleriini	Oleria	onega	ssp	LERIDA	LERIDA	Solanum	evolvulifolium	No
Oleriini	Oleria	onega	ssp	LERIDA	LERIDA	Solanum	sp. (7310)	No
Oleriini	Oleria	onega	ssp	LERIDA	LERIDA	Solanum	sp. (7319)	No
<b>COSTA RICA (Haber, 1978, 2003)</b>								
Dircennini	Callithomia	hezia	hezia	HEZIA	HEZIA	Lycianthes	sanctaclarae	no
Dircennini	Ceratinia	tutia	dorilla	SCYLAX	SCYLAX	Solanum	aphyodendron	no
Dircennini	Dircenna	dero	ssp	DILUCIDA	SCYLAX	Solanum	chrysotrichum	no
Dircennini	Dircenna	dero	ssp	DILUCIDA	SCYLAX	Solanum	rudepannum	no
Dircennini	Dircenna	jemina	chiriquensis	DILUCIDA	DILUCIDA	Solanum	siparunoides	no
Dircennini	Dircenna	klugii	klugii	DILUCIDA	DILUCIDA	Solanum	chrysotrichum	yes-m
Dircennini	Dircenna	klugii	klugii	DILUCIDA	DILUCIDA	Solanum	rudepannum	yes-m
Dircennini	Dircenna	klugii	klugii	DILUCIDA	DILUCIDA	Solanum	umbellatum	no
Dircennini	Dircenna	olyras	relata	IN SIGNIS	SCYLAX	Solanum	chrysotrichum	yes-f
Dircennini	Dircenna	olyras	relata	IN SIGNIS	SCYLAX	Solanum	rudepannum	yes-f
Dircennini	Dircenna	olyras	relata	IN SIGNIS	SCYLAX	Solanum	umbellatum	no
Dircennini	Episcada	salvinia	opleri	SIMPLEX	SIMPLEX	Solanum	aphyodendron	no
Dircennini	Pteronymia	aletta	agalla	SCYLAX	SCYLAX	Solanum	rovirosanum	no
Dircennini	Pteronymia	artena	ssp	SIMPLEX	SIMPLEX	Lycianthes	escuitensis	no
Dircennini	Pteronymia	artena	ssp	SIMPLEX	SIMPLEX	Lycianthes	multiflora	no
Dircennini	Pteronymia	artena	ssp	SIMPLEX	SIMPLEX	Lycianthes	synanthera	no
Dircennini	Pteronymia	fulvimargo		DILUCIDA	DILUCIDA	Lycianthes	synanthera	no
Dircennini	Pteronymia	latilla	fulvescens	DILUCIDA	DILUCIDA	Solanum	brenesii	no
Dircennini	Pteronymia	latilla	fulvescens	DILUCIDA	DILUCIDA	Solanum	tuerckheimii	no
Dircennini	Pteronymia	lonera		DECUMANA	DECUMANA	Solanum	circinatum	no
Dircennini	Pteronymia	parva		PATILLA	PATILLA	Solanum	arboreum	no
Dircennini	Pteronymia	picta	notilla	DILUCIDA	SCYLAX	Solanum	tuerckheimii	no
Dircennini	Pteronymia	simplex	simplex	SIMPLEX	SIMPLEX	Solanum	aphyodendron	no
Dircennini	Pteronymia	simplex	simplex	SIMPLEX	SIMPLEX	Solanum	brenesii	no
Dircennini	Pteronymia	simplex	simplex	SIMPLEX	SIMPLEX	Solanum	pastillum	no
Dircennini	Pteronymia	simplex	simplex	SIMPLEX	SIMPLEX	Solanum	pertenuue	no
Dircennini	Pteronymia	simplex	simplex	SIMPLEX	SIMPLEX	Solanum	ramonense	no
Dircennini	Pteronymia	simplex	simplex	SIMPLEX	SIMPLEX	Solanum	rovirosanum	no
Dircennini	Pteronymia	simplex	simplex	SIMPLEX	SIMPLEX	Solanum	tuerckheimii	no
Godyridini	Godyris	nero		SIMPLEX	SIMPLEX	Cestrum	racemosum	no
Godyridini	Godyris	zavaleta	caesiopicta	IN SIGNIS	SCYLAX	Cestrum	nocturnum	no

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Tribe	Genus	Species	Subspecies	Male mimicry ring	Female mimicry ring	Plant genus	Plant species	Delete
<b>COSTA RICA (Haber, 1978, 2003)</b>								
Godyridini	Greta	morgane	oto	PATILLA	PATILLA	Cestrum	lanatum	no
Godyridini	Greta	morgane	oto	PATILLA	PATILLA	Cestrum	racemosum	no
Godyridini	Greta	morgane	oto	PATILLA	PATILLA	Cestrum	sp. "San Luis"	no
Godyridini	Greta	annette	championi	SIMPLEX	SIMPLEX	Cestrum	fragile	no
Godyridini	Greta	annette	championi	SIMPLEX	SIMPLEX	Cestrum	irazuense	no
Godyridini	Greta	annette	championi	SIMPLEX	SIMPLEX	Cestrum	lanatum	no
Godyridini	Greta	annette	championi	SIMPLEX	SIMPLEX	Cestrum	megalophyllum	no
Godyridini	Greta	annette	championi	SIMPLEX	SIMPLEX	Cestrum	rugulosum	no
Godyridini	Greta	annette	championi	SIMPLEX	SIMPLEX	Cestrum	sp. "Button Berry"	no
Godyridini	Greta	polissena	umbrana	SIMPLEX	SIMPLEX	Cestrum	fragile	no
Godyridini	Greta	polissena	umbrana	SIMPLEX	SIMPLEX	Cestrum	irazuense	no
Godyridini	Greta	polissena	umbrana	SIMPLEX	SIMPLEX	Cestrum	megalophyllum	no
Godyridini	Greta	polissena	umbrana	SIMPLEX	SIMPLEX	Cestrum	panamense	no
Godyridini	Greta	polissena	umbrana	SIMPLEX	SIMPLEX	Cestrum	rugulosum	no
Godyridini	Greta	polissena	umbrana	SIMPLEX	SIMPLEX	Cestrum	sp. "Button Berry"	no
Godyridini	Hypoleria	lavinia	cassotis	PATILLA	PATILLA	Cestrum	megalophyllum	no
Ithomiini	Ithomia	celemia	plaginota	SCYLAX	SCYLAX	Cuatresia	riparia	no
Ithomiini	Ithomia	diasia	hippocrenis	PATILLA	PATILLA	Witheringia	asterotricha	no
Ithomiini	Ithomia	diasia	hippocrenis	PATILLA	PATILLA	Witheringia	meiantha	no
Ithomiini	Ithomia	heraldica		SCYLAX	SCYLAX	Acnistus	arborescens	no
Ithomiini	Ithomia	heraldica		SCYLAX	SCYLAX	Cuatresia	riparia	yes
Ithomiini	Ithomia	heraldica		SCYLAX	SCYLAX	Lycianthes	amatitlanensis?	no
Ithomiini	Ithomia	heraldica		SCYLAX	SCYLAX	Witheringia	mori	no
Ithomiini	Ithomia	patilla		PATILLA	PATILLA	Brachistus	stramoniifolius	no
Ithomiini	Ithomia	patilla		PATILLA	PATILLA	Lycianthes	multiflora	no
Ithomiini	Ithomia	patilla		PATILLA	PATILLA	Witheringia	meiantha	yes
Ithomiini	Ithomia	patilla		PATILLA	PATILLA	Witheringia	solanacea	no
Ithomiini	Ithomia	patilla		PATILLA	PATILLA	Witheringia	sp.	no
Ithomiini	Ithomia	xenos	xenos	DILUCIDA	DILUCIDA	Acnistus	arborescens	no
Ithomiini	Ithomia	xenos	xenos	DILUCIDA	DILUCIDA	Cuatresia	riparia	no
Ithomiini	Ithomia	xenos	xenos	DILUCIDA	DILUCIDA	Witheringia	cuneata	no
Mechanitini	Mechanitis	lysimnia	utemaia	IMITATA	IMITATA	Solanum	rugosum	no
Mechanitini	Mechanitis	lysimnia	utemaia	IMITATA	IMITATA	Solanum	siparunoides	no
Mechanitini	Mechanitis	menapis	saturata	IMITATA	IMITATA	Solanum	acerifolium	no
Mechanitini	Mechanitis	menapis	saturata	IMITATA	IMITATA	Solanum	chrysotrichum	no
Mechanitini	Mechanitis	menapis	saturata	IMITATA	IMITATA	Solanum	quitoense	no
Mechanitini	Mechanitis	menapis	saturata	IMITATA	IMITATA	Solanum	siparunoides	yes
Mechanitini	Mechanitis	polymnia	isthmia	IMITATA	IMITATA	Jaltomata	repandidentata	no
Mechanitini	Mechanitis	polymnia	isthmia	IMITATA	IMITATA	Solanum	chrysotrichum	yes
Mechanitini	Mechanitis	polymnia	isthmia	IMITATA	IMITATA	Solanum	hartwegii	no
Mechanitini	Mechanitis	polymnia	isthmia	IMITATA	IMITATA	Solanum	jamaicense	no
Mechanitini	Mechanitis	polymnia	isthmia	IMITATA	IMITATA	Solanum	lanceifolium	no
Mechanitini	Mechanitis	polymnia	isthmia	IMITATA	IMITATA	Solanum	rudepannum	no
Mechanitini	Mechanitis	polymnia	isthmia	IMITATA	IMITATA	Solanum	rugosum	yes
Mechanitini	Mechanitis	polymnia	isthmia	IMITATA	IMITATA	Solanum	siparunoides	yes
Mechanitini	Scada	zibia	xanthina	AGNA	AGNA	Solanum	arboreum	no
Mechanitini	Scada	zibia	xanthina	AGNA	AGNA	Solanum	siparunoides	no
Mechanitini	Thyridia	psidii	melantho	SCYLAX	SCYLAX	Solanum	circinatum	no

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Tribe	Genus	Species	Subspecies	Male mimicry ring	Female mimicry ring	Plant genus	Plant species	Delete
<b>COSTA RICA (Haber, 1978, 2003)</b>								
Melineiini	Melinaea	lilis	imitata	IMITATA	IMITATA	Juanulloa	mexicana	no
Melineiini	Melinaea	lilis	imitata	IMITATA	IMITATA	Merinthopodium	neuranthum	no
Napeogenini	Hyalyris	excelsa	decumana	DECUMANA	DECUMANA	Solanum	accrescens	no
Napeogenini	Hyalyris	excelsa	decumana	DECUMANA	DECUMANA	Solanum	lanceifolium	no
Napeogenini	Hyalyris	excelsa	decumana	DECUMANA	DECUMANA	Solanum	siparunoides	no
Napeogenini	Hypothyris	euclea	valora	IMITATA	IMITATA	Solanum	rugosum	no
Napeogenini	Hypothyris	lycaste	callispila	SCYLAX	SCYLAX	Solanum	accrescens	no
Napeogenini	Napeogenes	tolosa	amara	SCYLAX	SCYLAX	Lycianthes	multiflora	no
Oleriini	Hyposcada	virginiana	evanides	SCYLAX	SCYLAX	Columnea	consanguinea	no
Oleriini	Hyposcada	virginiana	evanides	SCYLAX	SCYLAX	Columnea	glabra	no
Oleriini	Hyposcada	virginiana	evanides	SCYLAX	SCYLAX	Drymonia	conchocalyx	no
Oleriini	Oleria	paula	paula	PATILLA	PATILLA	Lycianthes	multiflora	no
Oleriini	Oleria	rubescens		PATILLA	PATILLA	Solanum	siparunoides	no
Oleriini	Oleria	vicina		SIMPLEX	SIMPLEX	Lycianthes	multiflora	no
Oleriini	Oleria	vicina		SIMPLEX	SIMPLEX	Lycianthes	synanthera	no
Oleriini	Oleria	vicina		SIMPLEX	SIMPLEX	Solanum	trizygum	no
Tithoreini	Eutresis	dilucida		DILUCIDA	DILUCIDA	Schultesianthus	megalandrus	no
Tithoreini	Eutresis	hypereia	theope	DILUCIDA	DILUCIDA	Schultesianthus	megalandrus	yes
Tithoreini	Eutresis	hypereia	theope	DILUCIDA	DILUCIDA	Solandra	grandiflora	no
Tithoreini	Olyras	crathis	staudingeri	DECUMANA	DECUMANA	Solandra	grandiflora	no
Tithoreini	Olyras	insignis	insignis	IN SIGNIS	IN SIGNIS	Schultesianthus	megalandrus	no
Tithoreini	Tithorea	harmonia	helicaon	SCYLAX	SCYLAX	Prestonia	portobellensis	no
Tithoreini	Tithorea	tarricina	pinthias	HEZIA	HEZIA	Prestonia	longifolia	no
<b>SOUTH-EAST BRAZIL (Brown, 1987)</b>								
Dircennini	Dircenna	dero	rhoeo	THEMISTO	THEMISTO	Solanum	mauritianum	no
Dircennini	Dircenna	dero	rhoeo	THEMISTO	THEMISTO	Solanum	megalochiton	no
Dircennini	Dircenna	dero	rhoeo	THEMISTO	THEMISTO	Solanum	paniculatum	no
Dircennini	Dircenna	dero	rhoeo	THEMISTO	THEMISTO	Solanum	robustum	no
Dircennini	Dircenna	dero	rhoeo	THEMISTO	THEMISTO	Solanum	variabile	no
Dircennini	Episcada	hymenaea	hymenaea	HYMENAEA	HYMENAEA	Cestrum	laevigatum	no
Dircennini	Episcada	hymenaea	hymenaea	HYMENAEA	HYMENAEA	Cestrum	schlechtendalianum	no
Dircennini	Episcada	hymenaea	hymenaea	HYMENAEA	HYMENAEA	Cestrum	sendtnerianum	no
Dircennini	Episcada	hymenaea	hymenaea	HYMENAEA	HYMENAEA	Solanum	caavurana	no
Dircennini	Episcada	hymenaea	hymenaea	HYMENAEA	HYMENAEA	Solanum	pseudocapsicum	no
Dircennini	Pteronymia	sylvo		AQUATA	AQUATA	Solanum	swartzianum	no
Godyridini	McClungia	cymo	salonica	PHILOCLEA	PHILOCLEA	Cestrum	laevigatum	no
Godyridini	McClungia	cymo	salonica	PHILOCLEA	PHILOCLEA	Cestrum	schlechtendalianum	no
Godyridini	McClungia	cymo	salonica	PHILOCLEA	PHILOCLEA	Cestrum	sendtnerianum	no
Godyridini	Pseudoscada	erruca		AQUATA	AQUATA	Cestrum	laevigatum	no
Godyridini	Pseudoscada	erruca		AQUATA	AQUATA	Cestrum	schlechtendalianum	no
Ithomiini	Ithomia	agnosia	zikani	AQUATA	AQUATA	Acnistus	arborescens	yes
Ithomiini	Ithomia	agnosia	zikani	AQUATA	AQUATA	Vassobia	breviflora	no
Ithomiini	Ithomia	dromo		AQUATA	AQUATA	Acnistus	arborescens	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Cyphomandra	divaricata	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Cyphomandra	fragrans	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Cyphomandra	sciadostylis	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Lycopersicon	esculentum	no

Electronic Appendix A Cont. Hostplant records and mimicry classification for five ithomiine communities.

Tribe	Genus	Species	Subspecies	Male mimicry ring	Female mimicry ring	Plant genus	Plant species	Delete
<b>SOUTH-EAST BRAZIL (Brown, 1987)</b>								
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Nicandra	physaloides	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Solanum	aculeatissimum	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Solanum	arcuatum	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Solanum	atropurpureum	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Solanum	brusquense	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Solanum	capsicoides	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Solanum	jatrophifolium	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Solanum	paniculatum	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Solanum	robustum	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Solanum	variabile	no
Mechanitini	Mechanitis	lysimnia	lysimnia	LYSIMNIA	LYSIMNIA	Solanum	viarum	no
Mechanitini	Mechanitis	polymnia	casabranca	ETHRA	ETHRA	Cyphomandra	fragrans	no
Mechanitini	Mechanitis	polymnia	casabranca	ETHRA	ETHRA	Lycopersicon	esculentum	no
Mechanitini	Mechanitis	polymnia	casabranca	ETHRA	ETHRA	Solanum	asperolanatum	no
Mechanitini	Mechanitis	polymnia	casabranca	ETHRA	ETHRA	Solanum	concinnum	no
Mechanitini	Mechanitis	polymnia	casabranca	ETHRA	ETHRA	Solanum	granulosoleprosum	no
Mechanitini	Mechanitis	polymnia	casabranca	ETHRA	ETHRA	Solanum	mauritianum	no
Mechanitini	Mechanitis	polymnia	casabranca	ETHRA	ETHRA	Solanum	megalochiton	no
Mechanitini	Mechanitis	polymnia	casabranca	ETHRA	ETHRA	Solanum	melongena	no
Mechanitini	Mechanitis	polymnia	casabranca	ETHRA	ETHRA	Solanum	paniculatum	no
Mechanitini	Mechanitis	polymnia	casabranca	ETHRA	ETHRA	Solanum	robustum	no
Mechanitini	Mechanitis	polymnia	casabranca	ETHRA	ETHRA	Solanum	variabile	no
Mechanitini	Methona	themisto	ssp	THEMISTO	THEMISTO	Brunfelsia	australis	no
Mechanitini	Methona	themisto	ssp	THEMISTO	THEMISTO	Brunfelsia	pauciflora	no
Mechanitini	Methona	themisto	ssp	THEMISTO	THEMISTO	Brunfelsia	uniflora	no
Mechanitini	Thyridia	psidii	cetoides	THEMISTO	THEMISTO	Cyphomandra	crassicaulis	no
Mechanitini	Thyridia	psidii	cetoides	THEMISTO	THEMISTO	Cyphomandra	divaricata	no
Mechanitini	Thyridia	psidii	cetoides	THEMISTO	THEMISTO	Cyphomandra	fragrans	no
Mechanitini	Thyridia	psidii	cetoides	THEMISTO	THEMISTO	Cyphomandra	sciadostylis	no
Napeogenini	Epityches	eupompe		PHILOCLEA	PHILOCLEA	Acnistus	arborescens	no
Napeogenini	Epityches	eupompe		PHILOCLEA	PHILOCLEA	Capsicum	flexuosum	no
Napeogenini	Hypo thyris	euclea	laphria	ETHRA	ETHRA	Solanum	granulosoleprosum	no
Napeogenini	Hypo thyris	euclea	laphria	ETHRA	ETHRA	Solanum	mauritianum	no
Napeogenini	Hypo thyris	ninonia	daeta	LYSIMNIA	LYSIMNIA	Solanum	brusquense	no
Napeogenini	Hypo thyris	ninonia	daeta	LYSIMNIA	LYSIMNIA	Solanum	concinnum	no
Napeogenini	Hypo thyris	ninonia	daeta	LYSIMNIA	LYSIMNIA	Solanum	insidiosum	no
Napeogenini	Hypo thyris	ninonia	daeta	LYSIMNIA	LYSIMNIA	Solanum	mauritianum	no
Napeogenini	Hypo thyris	ninonia	daeta	LYSIMNIA	LYSIMNIA	Solanum	megalochiton	no
Napeogenini	Hypo thyris	ninonia	daeta	LYSIMNIA	LYSIMNIA	Solanum	murinum	no
Napeogenini	Hypo thyris	ninonia	daeta	LYSIMNIA	LYSIMNIA	Solanum	paniculatum	no
Napeogenini	Hypo thyris	ninonia	daeta	LYSIMNIA	LYSIMNIA	Solanum	robustum	no
Napeogenini	Hypo thyris	ninonia	daeta	LYSIMNIA	LYSIMNIA	Solanum	swartzianum	no
Napeogenini	Hypo thyris	ninonia	daeta	LYSIMNIA	LYSIMNIA	Solanum	variabile	no
New Tribe	Aeria	olena	olena	AGNA	AGNA	Prestonia	coalita	no
New Tribe	Aeria	olena	olena	AGNA	AGNA	Prestonia	dusenii	no
Tithoreini	Tithorea	harmonia	pseudethra	ETHRA	ETHRA	Peltastes	peltatus	no
Tithoreini	Tithorea	harmonia	pseudethra	ETHRA	ETHRA	Prestonia	acutifolia	no
Tithoreini	Tithorea	harmonia	pseudethra	ETHRA	ETHRA	Prestonia	coalita	no

Electronic Appendix A Cont. Hostplant records and mimicry classification for five ithomiine communities.

Tribe	Genus	Species	Subspecies	Male mimicry ring	Female mimicry ring	Plant genus	Plant species	Delete
<b>SOUTH-EAST BRAZIL (Brown, 1987)</b>								
Tithoreini	Tithorea	harmonia	pseudethra	ETHRA	ETHRA	Prestonia	dusenii	no
Tithoreini	Tithorea	harmonia	pseudethra	ETHRA	ETHRA	Temnadenia	violacea	no

'Delete' column refers to whether or not records were deleted to correct for close phylogenetic relationships.

Electronic Appendix B Mimicry classification. Patterns occurring in more than one community are listed only once.

This paper	Mimicry complex classification			Mimicry characters (see below)																Comments
	Beccaloni (1997a)	Drummond (1976)	Haber (1978)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
<b>ECUADOR NORTH MONTANE</b>																				
SUSIANA	-	-	-	26	19	2	0	7	5	0	19	0	0	5	0	6	0	0	0	0
BANJANA-M	-	-	-	26	7	2	0	4	5	0	18	0	0	9	0	6	0	0	0	0
OCNA	-	-	-	24	0	0	0	9	7	0	17	0	0	6	1	1	5	0	0	0
TICIDA-M	-	-	-	14	20	0	0	10	8	3	23	0	0	12	0	1	5	0	0	0
PANTHYALE	-	-	-	13	17	0	4	10	9	1	23	0	0	13	0	3	0	0	0	0
OZIA	-	-	-	14	20	0	0	10	7	0	21	0	0	10	1	1	2	0	0	0
HEWITSONI	-	-	-	30	8	0	4	8	10	5	22	0	0	11	0	4	0	0	0	0
JOICEYI	-	-	-	20	12	0	3	0	6	5	10	2	0	4	0	0	6	0	0	VFW discocellular spot black
DUILLIA	-	-	-	17	20	0	1	10	11	0	14	0	0	16	0	2	0	0	0	0
LIBETHRIS	-	-	-	10	16	0	4	8	7	0	3	0	0	10	0	3	4	0	0	0
<b>ECUADOR SOUTH MONTANE</b>																				
ANTEA	-	-	-	23	0	0	0	8	1	0	15	0	0	2	0	1	5	0	0	0
MESTRA	-	-	-	23	0	0	0	8	7	0	16	0	0	6	0	1	3	0	0	0
APULEIA	-	-	-	18	7	0	3	10	8	0	6	0	0	12	0	6	0	0	0	0
ZALMUNNA	-	-	-	16	18	0	0	8	9	0	4	3	0	3	0	6	6	0	0	Geographic variant of JOICEYI
LAUTA	-	-	-	16	17	0	4	10	10	0	7	0	0	13	0	3	0	0	0	0
DERCYLLIDAS	-	-	-	22	1	0	5	6	3	2	13	0	1	8	0	3	1	0	0	0
AMICA	-	-	-	2	9	5	6	11	4	4	0	0	0	0	1	5	0	0	0	0
<b>ECUADOR LOWLAND</b>																				
AGNOSIA	Clearwing	White transparent	-	12	14	0	0	4	7	0	24	0	0	10	0	6	0	0	0	0
LERIDA	Small Dark Transparent	White transparent	-	25	2	1	0	4	0	0	18	0	0	8	0	6	0	0	0	0
AURELIANA	Orange-tip	Orange-tip transparent	-	8	13	0	2	10	8	0	24	0	0	8	0	6	0	0	0	0
CONFUSA	Large Yellow Transparent	Yellow clearwing transparent; Large transparent clearwing	-	27	4	1	0	8	7	0	20	1	0	10	1	1	0	1	1	1
SALAPIA	Small Yellow Transparent	Yellow clearwing transparent	-	19	1	0	0	4	7	0	8	0	0	8	1	6	0	0	0	0
DERASA	Small Yellow Transparent	Yellow opaque transparent	-	19	1	0	0	4	2	6	8	1	0	2	0	6	0	0	0	0
HERMIAS	Tiger	Yellow, orange and black Tiger; Yellow spot canopy Tiger	-	5	10	5	6	3	4	4	0	0	3	10	1	6	0	0	0	0
MAMERCUS	Yellow-bar Tiger	Yellow-bar canopy Tiger	-	2	9	5	6	11	4	4	0	0	2	15	1	5	0	0	0	0
MOTHONE	Orange and black Tiger	Orange and black Tiger	-	0	9	5	5	11	4	4	0	0	2	15	1	5	0	0	0	0
<b>COSTA RICA</b>																				
SIMPLEX	-	-	Clearwing	11	15	0	0	10	8	0	24	0	0	1	0	6	0	0	0	Members are montane and increase opacity of white forewing spots from SE to NW Central America, unlike PATILLA
PATILLA	-	-	Clearwing	12	14	0	0	5	7	0	24	0	0	1	0	6	0	0	0	0
AGNA	-	-	Black and yellow	19	1	0	0	4	4	0	8	0	0	8	1	6	0	0	0	Geographic variant of SALAPIA
IN SIGNIS	-	-	Black and yellow	28	3	2	0	8	7	0	9	0	0	8	1	1	0	0	0	Reduction in intensity of yellow from C. America to W. Ecuador not matched by AGNA or DILUCIDA members
DILUCIDA	-	-	Golden-translucent	29	3	2	0	8	7	0	12	0	0	10	1	1	0	0	0	0

Electronic Appendix B Cont. Mimicry classification. Patterns occurring in more than one community are listed only once.

This paper	Mimicry complex classification			Haber (1978)	Mimicry characters (see below)																Comments
	Beccaloni (1997a)	Drummond (1976)			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
<b>COSTA RICA</b>																					
DECUMANA	-	-		Black and rust	6	5	7	0	3	4	0	2	0	0	7	1	1	0	0	0	0 HEZIA members show parallel variation in Colombia not followed by DECUMANA members
HEZIA	-	-		Black and rust	7	19	7	0	3	4	0	0	0	0	14	0	1	0	0	0	0
SCYLAX	-	-		Tiger	3	6	6	6	3	4	0	0	0	1	10	1	1	0	0	0	0
IMITATA	-	-		Tiger	3	6	6	6	3	4	4	0	0	0	10	1	1	0	0	0	0 Most members also have end FW discal cell yellow (orange in IMITATA)
<b>SOUTH-EAST BRAZIL</b>																					
AQUATA	-	-		-	21	15	3	0	8	7	0	11	0	0	10	0	3	0	0	0	0
HYMENAEA	-	-		-	9	17	0	4	10	8	5	3	0	0	10	0	3	4	0	0	0
PHILOCLEA	-	-		-	15	15	0	0	8	7	0	5	0	0	8	0	6	4	0	0	0
THEMISTO	-	-		-	27	4	1	0	8	7	0	20	1	0	10	1	1	0	1	1	1 Geographic variant of CONFUSA
ETHRA	-	-		-	4	1	2	6	2	4	0	1	0	1	8	0	1	0	0	0	0
LYSIMNIA	-	-		-	1	11	4	6	1	4	5	1	0	1	8	1	1	0	0	0 Diffrers from ETHRA principally in white DFW subapical spot; <i>Mechanitis lysimnia</i> has both ETHRA and LYSIMNIA patterns, which are otherwise broadly sympatric.	

### Mimicry characters

#### 1. DFW ground colour (wing excluding black marginal and discal markings)

0: opaque; orange. 1: opaque; orange, yellow discal band, white subapical spot. 2: opaque; orange, yellow postdiscal band. 3: opaque; orange, yellow postdiscal band and subapical spots. 4: opaque; orange, yellow postdiscal band, yellow subapical spot. 5: opaque; orange, scattered yellow postdiscal and subapical markings. 6: opaque; yellow, large subapical, submarginal, postdiscal and discal spots. 7: opaque; yellow, small, subapical, submarginal, postdiscal and discal spots. 8: translucent/opaque; colourless, very broad orange postdiscal band. 9: translucent; colourless. 10: translucent; colourless, opaque yellow postdiscal band and tornal spot. 11: translucent; colourless, white postdiscal and subapical spots. 12: translucent; colourless, white postdiscal band. 13: translucent; colourless, white postdiscal, tornal and apical spots. 14: translucent; colourless, yellow base discal cell. 15: translucent; colourless, yellow discal and postdiscal band. 16: translucent; colourless, yellow postdiscal, tornal and submarginal spots. 17: translucent; colourless, yellow/orange in distal half. 18: translucent; colourless, yellowish postdiscal band. 19: translucent; dense yellow. 20: translucent; dense yellow/orange. 21: translucent; faint white to colourless. 22: translucent; pale green/brown. 23: translucent; smoky grey. 24: translucent; smoky grey, yellow base discal cell. 25: translucent; white discal, postdiscal and submarginal spots. 26: translucent; whitish, broken postdiscal band, subapical and subapical spots. 27: translucent; yellow. 28: translucent; yellow, large, partially fused, submarginal, postdiscal and discal spots. 29: translucent; yellow, large, partially fused, submarginal, postdiscal and discal spots, orange along cubital vein. 30: translucent; yellow/orange.

#### 2. DFW discal band

0: absent. 1: black; broad band. 2: black; broad band, extending to anal margin base Cu2-Cu1 and distal margin along M3. 3: black; broad bar extending as dark scaling along veins. 4: black; broad, even band. 5: black; broad, into base cell Cu2-Cu1, extending along veins M3 and M2. 6: black; broad, uneven band. 7: black; discocellular bar. 8: black; discocellular spot. 9: black; discocellular spots. 10: black; disjointed band. 11: black; fused with apex. 12: black; large, uneven discocellular spot. 13: black; narrow bar. 14: black; tapering band. 15: black; thick discocellular bar. 16: black; thin bar. 17: black; thin discocellular bar. 18: black; uneven discocellular spot. 19: black; very broad band, into base cell Cu2-Cu1, extending along veins M3 and M2. 20: black; very thin discocellular line.

#### 3. DFW cell bar

0: absent. 1: black; bar. 2: black; broad bar. 3: black; line. 4: black; oval spot. 5: black; spot. 6: black; thick bar. 7: black; very broad filling basal third wing.

#### 4. DFW costa

0: black. 1: black then yellow/orange distal of discocellolars. 2: black/orange. 3: orange. 4: orange to basal of discocellolars, then black. 5: orange/black. 6: orange/yellow/black.

#### 5. DFW apex

0: black, white subapical spot; quadrate marking. 1: black, white subapical spot; very broad (apical third). 2: black, yellow subapical spot; very broad (apical third). 3: black, yellow subapical spots; very broad (apical third). 4: black; broad. 5: black; broad, extending to white postdiscal band. 6: black; broad, subapical green/brown spots. 7: black; broad, with white subapical and apical spots. 8: black; medium. 9: black, white subapical spots; medium. 10: black; narrow. 11: black; very broad (apical third).

## Electronic Appendix B Cont. Mimicry classification.

### Mimicry characters

#### 6. DFW distal margin

0: black with orange submarginal line; fused. 1: black with white spots; medium, even. 2: black with white submarginal spots; medium, even. 3: black, medium, crenellated. 4: black; broad, fused. 5: black; crenellated. 6: black; highly serrate. 7: black; medium, even. 8: black; narrow, even. 9: black; narrow, serrate. 10: black; narrow, slightly serrate. 11: black; very narrow, slightly serrate.

#### 7. DFW anal margin

0: black. 1: black, orange at base. 2: black, orange cubital vein. 3: black, yellow at very base. 4: orange. 5: orange and black. yellow and black.

#### 8. DHW ground colour

0: opaque; orange. 1: opaque; yellow discal area, orange postdiscal area. 2: semi-opaque; orange. 3: translucent; colourless. 4: translucent; colourless, large yellow subapical and submarginal spots. 5: translucent; colourless, yellow in discal cell and basal two thirds. 6: translucent; colourless, yellowish discal band. 7: translucent; colourless, yellowish submarginal spots. 8: translucent; dense yellow. 9: translucent; dense yellow, orange at distal edge in posterior half. 10: translucent; dense yellow/orange. 11: translucent; faint white to colourless. 12: translucent; orange, becoming yellow in middle. 13: translucent; pale green/brown. 14: translucent; pale whitish to colourless, yellowish submarginal spots, broad red-brown anal margin. 15: translucent; smoky grey. 16: translucent; smoky grey, yellow in basal half. 17: translucent; smoky grey, yellow in basal half, orange along anal margin. 18: translucent; whitish. 19: translucent; whitish, discal cell black. 20: translucent; yellow. 21: translucent; yellow in discal cell and basal two thirds. 22: translucent; yellow/orange. 23: translucent; yellow/orange in discal cell and cells posterior of vein Cu1, white submarginal spots in apex. 24: transparent; colourless.

#### 9. DHW discocellular marking

0: absent. 1: black; band. 2: black; large discocellular spot. 3: black; narrow discocellular spot.

#### 10. DHW discal band

0: absent. 1: black; broad band. 2: black; fused with margin. 3: black; line of spots.

#### 11. DHW distal margin

0: absent. 1: black with narrow dark orange line; medium, even. 2: black with white submarginal spots; broad, even. 3: black with white submarginal spots; medium, dentate. 4: black with white submarginal spots; very broad, dentate. 5: black with white submarginal spots; very broad, extending along veins, even. 6: black with/without white submarginal spots; broad, even. 7: black, yellow submarginal spots; broad, slightly broader at apex, even. 8: black; broad, even. 9: black; broad, slightly dentate. 10: black; medium, even. 11: black; medium, serrate. 12: black; narrow, even. 13: black; narrow, serrate. 14: black; very broad at apex, tapering towards tornus, even. 15: black; very broad, fused with discal band. 16: dark brown; very narrow in cells Cu2-M3, very broad in (almost filling) cell M3-M2.

#### 12. Antennal clubs

0: black. 1: yellow.

#### 13. VHW distal margin

0: black, large white submarginal spots. 1: black, white submarginal spots. 2: dark brown; very narrow in cells Cu2-M3, very broad in (almost filling) cell M3-M2. 3: orange. 4: orange and black, small white submarginal spots. 5: orange/black. 6: orange/black, white submarginal spots.

#### 14. VHW base costa

0: same as margins or variable. 1: green, broad band. 2: orange triangle. 3: white spot. 4: yellow stripe. 5: yellow triangle. 6: yellow/orange triangle.

#### 15. Ventral thorax

0: black with yellow/white stripes. 1: black with white spots.

#### 16. Ventral abdomen

0: yellow/white. 1: black with white dashes.

Electronic Appendix C Matching interactions between pairs of ithomiine taxa, mimicry complex and larval hostplant.

PLANT GENUS	PLANT SPECIES	MIMICRY	ITHOMIINE TAXON 1	ITHOMIINE TAXON 2	TRIBE GENUS	SPECIES	CLOSELY GROUP	RELATED SPP
<b>ECUADOR NORTH MONTANE, MALE</b>								
Cestrum	megalophyllum	PANTHYALE	Greta enigma ssp	Greta ortygia ortygia			X	
Cestrum	microcalyx	DUILLIA	Greta alphonesiboea	Godyris duillia			X	
Cestrum	sp1	PANTHYALE	Greta enigma ssp	Godyris panthyale panthyale			X	
Lycianthes	multiflora	AGNOSIA	Oleria makrena makrenita	Pteronymia artena afrania	X			
Solanum	asperum	EQUATORIA	Hyalyris ocna ssp	Dircenna adina lorica	X			
Solanum	deflexiflorum	HEWITSONI	Pteronymia oneida oneida	Pteronymia serrata ssp			X	
Solanum	nutans	HEWITSONI	Pteronymia alida ssp	Pteronymia serrata ssp				X
Solanum	sect. Torva3	EQUATORIA	Hyalyris ocna ssp	Dircenna adina lorica	X			
<b>ECUADOR NORTH MONTANE, FEMALE</b>								
Cestrum	megalophyllum	PANTHYALE	Greta enigma ssp	Greta ortygia ortygia			X	
Cestrum	microcalyx	DUILLIA	Greta alphonesiboea	Godyris duillia		X		
Cestrum	sp1	PANTHYALE	Greta enigma ssp	Godyris panthyale panthyale	X	X		
Lycianthes	multiflora	AGNOSIA	Oleria makrena makrenita	Pteronymia artena afrania	X			
Solanum	asperum	EQUATORIA	Hyalyris ocna ssp	Dircenna adina lorica	X			
Solanum	deflexiflorum	HEWITSONI	Pteronymia oneida oneida	Pteronymia serrata ssp			X	
Solanum	nudum	HEWITSONI	Pteronymia sp	Pteronymia serrata ssp				X
Solanum	nutans	HEWITSONI	Pteronymia alida ssp	Pteronymia serrata ssp			X	
Solanum	sect. Torva3	EQUATORIA	Hyalyris ocna ssp	Dircenna adina lorica	X			
Solanum	aphyodendron	AGNOSIA	Episcada mira	Pteronymia alissa andreas	X			
<b>ECUADOR SOUTH MONTANE, BOTH SEXES</b>								
Cestrum	sp1	PANTHYALE	Greta enigma ssp	Godyris panthyale panthyale	X			
<b>ECUADOR LOWLAND, BOTH SEXES</b>								
Cestrum	sp. (7324)	AGNOSIA	Heterosais giulia nephele	Pseudoscada timna ssp	X			
Solanum	sp. (7334)	HERMIAS	Mechanitis lysimnia roqueensis	Mechanitis polymnia ssp			X	
<b>COSTA RICA, MALE</b>								
Cestrum	fragile	SIMPLEX	Greta annette championi	Greta polissena umbrana			X	
Cestrum	irazuense	SIMPLEX	Greta annette championi	Greta polissena umbrana			X	
Cestrum	megalophyllum	SIMPLEX	Greta annette championi	Greta polissena umbrana			X	
Cestrum	rugulosum	SIMPLEX	Greta annette championi	Greta polissena umbrana			X	
Cestrum	sp. "Button Berry"	SIMPLEX	Greta annette championi	Greta polissena umbrana			X	
Cuatresia	riparia	SCYLAX	Ithomia celemia plaginota	Ithomia heraldica				X
Lycianthes	multiflora	SIMPLEX	Pteronymia artena ssp	Oleria vicina	X			
Lycianthes	multiflora	PATILLA	Oleria paula paula	Ithomia patilla	X			
Lycianthes	synanthera	SIMPLEX	Pteronymia artena ssp	Oleria vicina	X			
Schultesianthus	megalandrus	DILUCIDA	Eutresis hypereia	Eutresis dilucida			X	
Solanum	aphyodendron	SIMPLEX	Pteronymia simplex simplex	Episcada salvinia opleri		X		
Solanum	chrysotrichum	DILUCIDA	Dircenna dero ssp	Dircenna klugii klugii			X	
Solanum	chrysotrichum	IMITATA	Mechanitis menapis saturata	Mechanitis polymnia isthmia			X	
Solanum	rudepannum	DILUCIDA	Dircenna dero ssp	Dircenna klugii klugii			X	
Solanum	rugosum	IMITATA	Mechanitis lysimnia utemaria	Mechanitis polymnia isthmia			X	
Solanum	rugosum	IMITATA	Hypothisis euclea valora	Mechanitis polymnia isthmia	X			
Solanum	rugosum	IMITATA	Hypothisis euclea valora	Mechanitis lysimnia utemaria	X			

Electronic Appendix C Cont. Matching interactions between pairs of ithomiine taxa, mimicry complex and larval hostplant.

PLANT GENUS	PLANT SPECIES	MIMICRY	ITHOMIINE TAXON 1	ITHOMIINE TAXON 2	TRIBE GENUS SPECIES	CLOSELY GROUP	RELATED SPP
<b>COSTA RICA, MALE</b>							
Solanum	siparunoides	IMITATA	<i>Mechanitis lysimnia utemai</i>	<i>Mechanitis menapis saturata</i>			X
Solanum	siparunoides	IMITATA	<i>Mechanitis menapis saturata</i>	<i>Mechanitis polymnia isthmia</i>			X
Solanum	siparunoides	IMITATA	<i>Mechanitis lysimnia utemai</i>	<i>Mechanitis polymnia isthmia</i>			X
Solanum	tuerckheimii	DILUCIDA	<i>Pteronymia picta notilla</i>	<i>Pteronymia latilla fulvescens</i>		X	
Witheringia	meiantha	PATILLA	<i>Ithomia patilla</i>	<i>Ithomia diasia hippocrenis</i>			X
<b>COSTA RICA, FEMALE</b>							
Cestrum	fragile	SIMPLEX	<i>Greta annette championi</i>	<i>Greta polissena umbrana</i>			X
Cestrum	irazuense	SIMPLEX	<i>Greta annette championi</i>	<i>Greta polissena umbrana</i>			X
Cestrum	megalophyllum	SIMPLEX	<i>Greta annette championi</i>	<i>Greta polissena umbrana</i>			X
Cestrum	rugulosum	SIMPLEX	<i>Greta annette championi</i>	<i>Greta polissena umbrana</i>			X
Cestrum	sp. "Button Berry"	SIMPLEX	<i>Greta annette championi</i>	<i>Greta polissena umbrana</i>		X	
Cuatresia	riparia	SCYLAX	<i>Ithomia celemia plaginota</i>	<i>Ithomia heraldica</i>			X
Lycianthes	multiflora	PATILLA	<i>Pteronymia artena ssp</i>	<i>Oleria vicina</i>	X		
Lycianthes	multiflora	SIMPLEX	<i>Oleria paula paula</i>	<i>Ithomia patilla</i>		X	
Lycianthes	synanthera	SIMPLEX	<i>Pteronymia artena ssp</i>	<i>Oleria vicina</i>		X	
Schultesianthus	megalandrus	DILUCIDA	<i>Eutresis hypereia</i>	<i>Eutresis dilucida</i>			X
Solanum	aphyodendron	SIMPLEX	<i>Pteronymia simplex simplex</i>	<i>Episcada salvinia opleri</i>	X		
Solanum	chrysotrichum	IMITATA	<i>Mechanitis menapis saturata</i>	<i>Mechanitis polymnia isthmia</i>			X
Solanum	chrysotrichum	SCYLAX	<i>Dircenna dero ssp</i>	<i>Dircenna olyras relata</i>			X
Solanum	rudepannum	SCYLAX	<i>Dircenna dero ssp</i>	<i>Dircenna olyras relata</i>			X
Solanum	rugosum	IMITATA	<i>Mechanitis lysimnia utemai</i>	<i>Mechanitis polymnia isthmia</i>			X
Solanum	rugosum	IMITATA	<i>Hypothyris euclea valora</i>	<i>Mechanitis polymnia isthmia</i>	X		
Solanum	rugosum	IMITATA	<i>Hypothyris euclea valora</i>	<i>Mechanitis lysimnia utemai</i>	X		
Solanum	siparunoides	IMITATA	<i>Mechanitis lysimnia utemai</i>	<i>Mechanitis menapis saturata</i>			X
Solanum	siparunoides	IMITATA	<i>Mechanitis menapis saturata</i>	<i>Mechanitis polymnia isthmia</i>			X
Solanum	siparunoides	IMITATA	<i>Mechanitis lysimnia utemai</i>	<i>Mechanitis polymnia isthmia</i>			X
Witheringia	meiantha	PATILLA	<i>Ithomia patilla</i>	<i>Ithomia diasia hippocrenis</i>			X
<b>SOUTH-EAST BRAZIL, BOTH SEXES</b>							
Acnistus	arborescens	AQUATA	<i>Ithomia agnoscia zikani</i>	<i>Ithomia drymo</i>			X
Solanum	brusquense	LYSIMNIA	<i>Mechanitis lysimnia lysimnia</i>	<i>Hypothyris ninonia daeta</i>	X		
Solanum	granulosoleprosum	ETHRA	<i>Mechanitis polymnia casabranca</i>	<i>Hypothyris euclea laphria</i>			X
Solanum	mauritianum	ETHRA	<i>Mechanitis polymnia casabranca</i>	<i>Hypothyris euclea laphria</i>			X
Solanum	paniculatum	LYSIMNIA	<i>Mechanitis lysimnia lysimnia</i>	<i>Hypothyris ninonia daeta</i>			X
Solanum	robustum	LYSIMNIA	<i>Mechanitis lysimnia lysimnia</i>	<i>Hypothyris ninonia daeta</i>			X
Solanum	variabile	LYSIMNIA	<i>Mechanitis lysimnia lysimnia</i>	<i>Hypothyris ninonia daeta</i>			X

Electronic Appendix D Pairs of co-mimetic ithomiine taxa recorded on the same hostplants.

ITHOMIINE TAXON 1	ITHOMIINE TAXON 2	TRIBE	GENUS	SPECIES GROUP	CLOSELY RELATED
<i>Dircenna dero</i> ssp	<i>Dircenna klugii</i> klugii				X
<i>Dircenna dero</i> ssp	<i>Dircenna olyras</i> relata				X
<i>Episcada mira</i>	<i>Pteronymia alissa</i> andreas		X		
<i>Eutresis hypereia</i>	<i>Eutresis dilucida</i>				X
<i>Heterosais giulia nephele</i>	<i>Pseudoscada timna</i> ssp		X		
<i>Hyalyris ocna</i> ssp	<i>Dircenna adina</i> lorica	X			
<i>Hypothyris euclea</i> valora	<i>Mechanitis lysimnia</i> utemaiia		X		
<i>Hypothyris euclea</i> valora	<i>Mechanitis polymnia</i> isthmia		X		
<i>Ithomia agnoscia</i> zikani	<i>Ithomia drymo</i>				X
<i>Ithomia celemia</i> plaginota	<i>Ithomia heraldica</i>				X
<i>Ithomia patilla</i>	<i>Ithomia diasia hippocrenis</i>				X
<i>Mechanitis lysimnia</i> lysimnia	<i>Hypothyris ninonia</i> daeta	X			
<i>Mechanitis lysimnia</i> roqueensis	<i>Mechanitis polymnia</i> ssp				X
<i>Mechanitis lysimnia</i> utemaiia	<i>Mechanitis menapis</i> saturata				X
<i>Mechanitis lysimnia</i> utemaiia	<i>Mechanitis polymnia</i> isthmia				X
<i>Mechanitis menapis</i> saturata	<i>Mechanitis polymnia</i> isthmia				X
<i>Mechanitis polymnia</i> casabranca	<i>Hypothyris euclea</i> laphria	X			
<i>Oleria makrena</i> makrenita	<i>Pteronymia artena</i> afrania		X		
<i>Oleria paula</i> paula	<i>Ithomia patilla</i>	X			
<i>Greta alpheusiboea</i>	<i>Godyris duillia</i>		X		
<i>Greta annette</i> championi	<i>Greta polissena</i> umbrana			X	
<i>Greta enigma</i> ssp	<i>Godyris panthale</i> panthale		X		
<i>Greta enigma</i> ssp	<i>Godyris panthale</i> panthale		X		
<i>Greta enigma</i> ssp	<i>Greta ortygia</i> ortygia			X	
<i>Pteronymia alida</i> ssp	<i>Pteronymia serrata</i> ssp				X
<i>Pteronymia artena</i> ssp	<i>Oleria vicina</i>	X			
<i>Pteronymia oneida</i> oneida	<i>Pteronymia serrata</i> ssp			X	
<i>Pteronymia picta</i> notilla	<i>Pteronymia latilla</i> fulvescens			X	
<i>Pteronymia simplex</i> simplex	<i>Episcada salvinia</i> opleri		X		
<i>Pteronymia</i> sp	<i>Pteronymia serrata</i> ssp				X