

Table S 3. MANOVA and LDA results for shape variation in the forewing of *H. erato* and *H. melpomene*. (A) MANOVA and LDA results including all 18 landmarks. (B) MANOVA and LDA results including subset of landmarks. Only the scores of samples along significant PC axes were used as determined by permutation.

A. All 18 landmarks						
Permutation (Jackstraw): N significant PCs						6.00
	Pillai	F	DF	p		
Manova PC 1-6 ~ species	0.66	86.60	1,280	< 2.2e-16		
Manova PC 1-6 ~ sex	0.24	14.41	1,280	2.86E-14		
Manova PC 1-6 ~ species*sex	0.04	1.68	1,280	0.1271		
Manova each PC ~ species	Pillai	F	DF	p	variance explained	
PC1		84.96	1,280	7.91E-18	0.23	
PC2		134.95	1,280	1.11E-25	0.17	
PC3		12.40	1,280	5.03E-04	0.09	
PC4		3.53	1,280	6.14E-02	0.07	
PC5		5.31	1,280	2.19E-02	0.07	
PC6		15.69	1,280	9.51E-05	0.06	
Manova each PC ~ sex	Pillai	F	DF	p	variance explained	
PC1		33.06	1,280	2.36E-08	0.23	
PC2		18.18	1,280	2.76E-05	0.17	
PC3		0.67	1,280	4.15E-01	0.09	
PC4		0.48	1,280	4.87E-01	0.07	
PC5		30.59	1,280	7.37E-08	0.07	
PC6		1.57	1,280	2.11E-01	0.06	

LDA classification ~ species	
Species	posterior
<i>H. erato</i>	94.29
<i>H. melpomene</i>	87.23

LDA classification ~ sex	
Sex	posterior
male	74.65
female	67.65

B. Subset landmarks						
Permutation (Jackstraw): N significant PCs						5.00
	Pillai	F	DF	p		
Manova PC 1-6 ~ species	0.22	15.49	1,280	2.07E-13		
Manova PC 1-6 ~ sex	0.20	13.95	1,280	3.77E-12		
Manova PC 1-6 ~ species*sex	0.02	1.36	1,280	0.238		
Manova each PC ~ species	Pillai	F	DF	p	variance explained	
PC1		9.32	1,280	2.49E-03	0.23	
PC2		45.03	1,280	1.09E-10	0.19	
PC3		9.46	1,280	2.32E-03	0.15	
PC4		2.36	1,280	1.26E-01	0.10	
PC5		0.02	1,280	9.01E-01	0.08	
Manova each PC ~ sex	Pillai	F	DF	p	variance explained	
PC1		45.25	1,280	9.90E-11	0.23	
PC2		0.00	1,280	9.53E-01	0.19	
PC3		12.12	1,280	5.80E-04	0.15	
PC4		0.48	1,280	4.90E-01	0.10	
PC5		3.33	1,280	6.91E-02	0.08	

LDA classification ~ species	
Species	posterior
<i>H. erato</i>	61.43
<i>H. melpomene</i>	68.09

LDA classification ~ sex	
Sex	posterior
male	67.61
female	63.24