

Table S2: Ultrastructural details of scales exhibiting different colours and (in the case of intact individuals) from different parts of the forewing

<i>Specimen</i>	<i>Type of specimen</i>	<i>Location of sample</i>	<i>Scale colour in glycerine</i>	<i>Scale thickness (um)</i>	<i>Ridge spacing (um)</i>	<i>Cross rib spacing (nm)</i>	<i>Microrib spacing (nm)</i>	<i>Ridge lamella length (um)</i>	<i>Ridge lamella overlap</i>	<i>No. of laminae in lumen</i>
14861	intact individual	basal/discal	yellow	1.48	1.9-2.5	600	138-150	1.35	2	4-8
14861	intact individual	basal/discal	yellow-orange	1.27	1.8-2.6	550-610	175	2.9-3.1	2-3	6
14861	intact individual	postdiscal	green	-	2.6	-	122	-	-	≤ 5
14861	intact individual	submarginal	blue	0.16 - 0.87	2.07-2.82	580	176	2.1	2-3	4
14861	intact individual	wing margin	brown	0.25	-	-	-	-	-	-
11808	coprolite	-	yellow	1.2	2.6	540	133-188	1.18	3-4	≤ 7
11808	coprolite	-	blue	1.25	1.9-2.2	530	172	2.9-3.2	3-4	≤ 7

Perforation factor: abbreviations refer to position on the scale as follows: d, distal; m, medial; p, proximal.

<i>perforation factor</i>	<i>Details of laminae in scale lumen</i>								<i>Lamina thickness (nm)</i>							
	<i>1: microribs+cr ossribs</i>	<i>2: large rod-like spacers</i>	<i>3: bead-like spacers</i>	<i>4: bead-like spacers</i>	<i>5: bead-like spacers</i>	<i>6: bead-like spacers</i>	<i>7: trabecular layer</i>	<i>8: granular base layer</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
0.05(p)-0.32(d)	y	y	y	y	y	y	y	y	40	124	110	87	72	66	59	-
0.05(p)-0.3(d)	y	y	y	y	y	n	y	y	-	98	89	81	77	63	55	47
-	y	y	y	y	-	-	-	-	-	-	-	-	-	-	-	-
0.15(p)	y	y	y	n	n	n	y	y	31	111	79	-	-	-	63	31
-	y	y	y	n	n	n	n	y	15	111	45	-	-	-	-	42
0.2(m)-0.32(d)	y	y	y	y	y	y	y	y	111	93	74	67	60	53	-	35
0.25 (d)	y	y	y	y	y	y	y	-	31	111	87	63	55	47	-	-