



[http://app.pan.pl/SOM/app64-Drage\\_etal\\_SOM.pdf](http://app.pan.pl/SOM/app64-Drage_etal_SOM.pdf)

SUPPLEMENTARY ONLINE MATERIAL FOR

**Sequence of post-moult exoskeleton hardening preserved  
in a trilobite mass moult assemblage from the Lower  
Ordovician Fezouata Konservat-Lagerstätte, Morocco**

Harriet B. Drage, Thijs R.A. Vandenbroucke, Peter Van Roy,  
and Allison C. Daley

Published in *Acta Palaeontologica Polonica* 2019 64 (2): 261-273.  
<https://doi.org/10.4202/app.00582.2018>

**Supplementary Online Material**

**SOM 1.** Measurements (in mm) of *Symphysurus ebbstadi* specimens.

**SOM 2.** Measurements of cuticle thickness (in mm) from sections of *Symphysurus ebbstadi* specimens

### **SOM 1. Measurements (in mm) of *Symphysurus ebbestadi* specimens**

1: Length: 47.7mm full - 14.8 (incomp) pyg - 17.6 ce - 17 th

Width: 25.1 (incomp) pyg - 26 ce - 26.6 (incomp) th - 10.2 1st ax ring - 8.3 8th ax ring

2: Length lower specimen: 50.2mm (incomp?) full - 16.4 pyg - 17.5 (incomp?) ce - 20.8 th

Width lower specimen: all incomp

Length upper specimen: 38.6 (incomp) full - 17.6 ce - pyg missing

Width upper specimen: 28.1 (incomp?) ce - 29.3 th - 11.8 1st ax ring - 5.8 left adaxial 1st th segment - 5.5 left abaxial 1st th segment - 18.2 glabella ant - 12.3 glabella post

3: Length right specimen: 43.4mm full - 12.8 pyg - 14.8 ce - 17.1 th

Width right specimen: 24.5 pyg - 29 ce - 27 th - 11.2 1st ax ring - 7.9 8th ax ring - 6 left adaxial 1st th segment - 5.1 left abaxial 1st th segment - 16 glabella ant - 11.9 glabella post (occ ring location)

Length left specimen: 19.9 th

Width left specimen: 11 2nd ax ring - 9.1 8th ax ring

4: Length: 18.4mm ce - 19.2 th

Width: 31.8 ce - 34.2 th - 12.4 1st ax ring - 8.9 8th ax ring

5: Too poorly preserved

6: Too poorly preserved

7: Length: 11.4 ce

Width: 25.4 ce - 25.3 th - 15.3 glabella ant - 11.3 glabella post - 10.2 1st ax ring - 6.1 left adaxial 1st th segment - 3.7 left abaxial 1st th segment

8: Length: 47 (incomp) full - 14.4 (incomp?) ce - 23.2 th

Width: 23.5 (incomp) pyg - 32.9 ce - 32.9 th - 13.1 1st ax ring - 9.5 8th ax ring - 6.1 left adaxial 1st th segment - 5.3 left abaxial 1st th segment

9: Length: 14.4mm pyg - 20.1 th

Width: 28.5 th - 26.9 pyg - 11 1st ax ring - 8 8th ax ring - 5.9 right adaxial 2nd th segment - 6.1 right abaxial 2nd th segment - 11.8 glabella post

<b>Specimen</b>	<b>Length P:T:C</b>	<b>C W (mm)</b>	<b>C L (mm)</b>	<b>C W/L</b>	<b>T W (mm)</b>	<b>T L (mm)</b>	<b>T W/L</b>	<b>P W (mm)</b>	<b>P L (mm)</b>	<b>P W/L</b>
<b>1</b> <b>MGL 102127</b>	X	26	17.6	1.48	X	17	X	X	X	X
<b>2</b> <b>MGL 102128</b>	1:1.07:1.27 X	28.1 X	17.6 17.5	1.6 X	29.3 X	X 20.8	X X	X X	X 16.4	X X
<b>3</b> <b>MGL 102129</b>	1:1.16:1.34	29	14.8	1.96	27	17.1	1.58	24.5	12.8	1.91
<b>4</b> <b>MGL 102130</b>	X	31.8	18.4	1.73	34.2	19.2	1.78	X	X	X
<b>5</b> <b>MGL 102131</b>	X	X	X	X	X	X	X	X	X	X
<b>6</b> <b>MGL 102132</b>	X	X	X	X	X	X	X	X	X	X
<b>7</b> <b>MGL 102133</b>	X	25.4	11.4	2.23	25.3	X	X	X	X	X
<b>8</b> <b>MGL 102134</b>	X	32.9	14.4	2.28	32.9	23.2	1.42	X	X	X
<b>9</b> <b>MGL 102135</b>	X	X	X	X	28.5	20.1	1.42	26.9	14.4	1.87

**SOM 2. Measurements of cuticle thickness (in mm) from sections of *Symphysurus ebbstadi* specimens**

Cephalon

<b>Specimen</b>										<b>Mean</b>	<b>Median</b>
<b>1 (MGL 102127), Slice 7.1</b>	0.76	0.59	0.68	0.5	0.49	0.46	0.3	0.2		0.4975	0.495
<b>4 (MGL 102130), Slice 3.4</b>	0.83	0.7	0.61	0.42	0.29	0.3	0.22	0.3		0.45875	0.36
<b>7 (MGL 102133), Slice 6.4</b>	0.11	0.17	0.12	0.11	0.063	0.051	0.063			0.098142857	0.11
<b>8 (MGL 102134), Slice 12.1</b>	0.14	0.13	0.17	0.13	0.073	0.081	0.097			0.117285714	0.13

Thorax

<b>Specimen</b>											<b>Mean</b>	<b>Median</b>
<b>1 (MGL 102127), Slice 10.2</b>	0.33	0.34	0.33	0.25	0.3	0.31	0.25	0.21	0.36		0.297777778	0.305
<b>4 (MGL 102130), Slice 1.3</b>	0.18	0.24	0.19	0.15	0.22	0.19	0.27	0.18	0.24		0.206666667	0.198333333
<b>7 (MGL 102133), Slice 5.2</b>	0.093	0.072	0.075	0.14	0.11	0.11	0.13	0.069	0.071		0.096666667	0.094833333
<b>8 (MGL 102134), Slice 12.3</b>	0.076	0.044	0.083	0.07	0.097	0.099	0.058	0.061	0.068		0.072888889	0.071444444