

PLATE III.

Figures 5a-i.—*Lepidopleurus dorsuosus*, n. sp.

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| Figure 5a.—Side view of the three anterior valves and ligament × 6 diam. | Figure 5e.—Upper surface of posterior valve × 7 diam.        |
| „ 5b.—Under surface of anterior valve × 7 diam.                          | „ 5f.—Under surface of posterior valve × 7 diam.             |
| „ 5c.—Half of upper surface of an intermediate valve × 7 diam.           | „ 5g.—Portion of upper surface of girdle, greatly magnified. |
| „ 5d.—Half of under surface of an intermediate valve × 7 diam.           | „ 5h.—Portion of under surface of girdle, greatly magnified. |
|  | „ 5i.—Angle of an intermediate valve × 7 diam.               |

Figures 6a-i.—*Lepidopleurus dallii*, n. sp.

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| Figure 6a.—Upper surface of anterior valve × 5 diam.   | Figure 6e.—Upper surface of posterior valve × 5 diam.           |
| „ 6b.—Under surface of anterior valve × 5 diam.        | „ 6f.—Under surface of posterior valve × 5 diam.                |
| „ 6c.—Upper surface of an intermediate valve × 5 diam. | „ 6g.—Half of upper surface of an intermediate valve × 10 diam. |
| „ 6d.—Under surface of an intermediate valve × 5 diam. | „ 6h.—Portion of girdle.  |
|  | „ 6i.—Angle of an intermediate valve × 10 diam.                 |

Figures 7a-e.—*Chiton murrayi*, n. sp.

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| Figure 7a.—Under surface of anterior valve × 7½ diam.           | Figure 7d.—Portion of upper surface of the shell, highly magnified. |
| „ 7b.—Half of under surface of an intermediate valve × 7½ diam. | „ 7e.—Isolated scales from girdle, highly magnified.                |
| „ 7c.—Under surface of posterior valve × 7½ diam.               |   |

Figures 8a-g.—*Plaxiphora carpenteri*, n. sp.

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| Figure 8a.—Upper surface of anterior valve × 4 diam.   | Figure 8d.—Under surface of an intermediate valve × 4 diam. |
| „ 8b.—Under surface of anterior valve × 4 diam.        | „ 8e.—Upper surface of posterior valve × 4 diam.            |
| „ 8c.—Upper surface of an intermediate valve × 4 diam. | „ 8f.—Under surface of posterior valve × 4 diam.            |
|  | „ 8g.—Half of upper surface of second valve × 8 diam.       |

Figures 9a-m.—*Cryptoplax striatus*, Lam. 2 diam.

„ 10a-m.—*Cryptoplax oculatus*, Quoy and Gaim. × 4 diam.

„ 11a-m.—*Cryptoplax burrowi*, E. A. Smith. These figures were drawn by Mr Smith × 3 diam.

„ 12a-m.—*Cryptoplax larviformis*, Blainv., natural size.

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| Figure a.—Upper surface of first valve. | Figure g.—Upper surface of third valve. |
| „ b.—Under surface of first valve.      | „ h.—Under surface of third valve.      |
| „ c.—Side view of first valve.          | „ i.—Side view of third valve.          |
| „ d.—Upper surface of second valve.     | „ k.—Upper surface of last valve.       |
| „ e.—Under surface of second valve.     | „ l.—Under surface of last valve.       |
| „ f.—Side view of second valve.         | „ m.—Side view of last valve.           |

Figures 13, 13a-c.—*Plaxiphora simplex*, Carp. MS.

Figure 13.—Side view, natural size.

„ 13a.—Under surface, natural size.

Figure 13b.—Sutural tuft, greatly magnified.

„ 13c.—Peripheral tufts, greatly magnified.