

The first two or three pairs of pinnules long and flagellate, with numerous short and wide joints.

- A. Third pinnule equal to, or not much shorter than the second.
- I. Joints of the third pinnule mostly wider than long, as in the first and second.
 Arm-joints triangular, but quite short.
- a. Forty or more cirrus-joints. Axillaries as wide as long. Arms smooth. Third pinnule most like the second, 1. *eschrichti*, Müll., sp.
- b. Less than forty cirrus-joints. Axillaries wider than long. Arm-joints overlap. Third pinnule most like the fourth, 2. *antarctica*, n. sp.
- II. Third pinnule has fewer but much longer joints than the first and second.
- a. Less than forty cirrus-joints. Arm-joints triangular.
1. Arm-joints short and much wider than long, 3. *australis*, n. sp.
2. Arm-joints as long as or longer than wide, 4. *rhomboidea*, n. sp.
- b. Over forty cirrus-joints. Arm-joints quadrate, and as long as or longer than wide, *magellanica*, Bell.
- B. Third pinnule composed of a few elongated joints, and much shorter than the second.
- I. About forty cirrus-joints. The middle arm-joints quadrate, 5. *quadrata*, n. sp.
- II. Twenty-five to thirty cirrus-joints. The middle arm-joints triangular; genital pinnules plated, *barentsi*, Carpenter.

1. *Antedon eschrichti*, Müll., sp. (Pl. I. figs. 8, *a-d*; Pl. XXIV. figs. 4-14, woodcut, figs. 4, c, d, on p. 154).

Specific formula— $A. \frac{c}{c}$.

1841. *Alecto Eschrichtii*, Müller, Monatsber. d. k. preuss. Akad. d. Wiss. Berlin, 1841, p. 183.
1849. *Comatula (Alecto) Eschrichtii*, Müller, Abhandl. d. k. Akad. d. Wiss. Berlin, 1847 [1849], p. 254.
1854. *Alecto Eschrichtii*, Stimpson (?), Mar. Invert. Grand Manan, 1853 [1854], p. 12.
1857. *Alecto Eschrichtii*, Lütken, Vidensk. Meddel. nat. Foren. Kjøbenhavn, 1857, p. 55.
1860. *Alecto glacialis*, Walker, Journ. Dublin Soc., 1860 [1862], vol. iii. p. 70.
1862. *Comatula Eschrichtii*, Dujardin and Hupé, Hist. Nat. des Zoophytes, Echinodermes Paris, 1862, p. 199.
1866. *Antedon Eschrichti*, Lovén, Öfversigt k. Vetensk.-Akad. Förhandl., 1866, No. 9, pp. 224, 230, figs. *i-m*.
1866. *Antedon Eschrichtii*, Verrill, Proc. Boston Soc. Nat. Hist., 1866, vol. x. p. 343.
1872. *Antedon eschrichtii*, Wyville Thomson, Proc. Roy. Soc. Edin., 1872, vol. vii. p. 764.
1876. *Comatula Eschrichtii*, Quenstedt, Petrefactenkunde Deutschlands, 1876, Bd. iv. Asteriden und Encriniden, p. 165, Tab. 96, fig. 16.
1879. *Antedon Eschrichtii*, P. H. Carpenter, Trans. Linn. Soc. Lond. (Zool.), ser. 2, 1879, vol. ii. p. 29.
1880. *Antedon Eschrichtii*, d'Urban, Ann. and Mag. Nat. Hist., 1880, ser. 5, vol. vi. p. 261.
1881. *Antedon Eschrichtii*, Duncan and Sladen, Memoir Arctic Echinodermata, London, 1881, p. 73, pl. vi. figs. 1-4.
1882. *Antedon Eschrichtii*, Hoffmann, Niederländ. Arch. Zool., 1882, Supplement Bd. i, Lief 3, p. 1.
1882. *Antedon eschrichti*, Bell, Proc. Zool. Soc. Lond., 1882, p. 534.
1882. *Antedon eschrichti*, P. H. Carpenter, *Ibid.*, p. 746.