

- A. Three distichals, not succeeded by palmars.
- I. Ten to twenty cirri, generally with less than fifteen joints.
- (a) Arm-joints triangular till some distance from the disk, and considerably wider than long, 1. *parvicirra*, Müll., sp.
- (b) Arm-joints relatively long, becoming quadrate about the fifteenth, 2. *quadrata*, n. sp.
- II. Thirty or more cirri of fifteen to twenty joints.
- (a) Arm-joints short; lower joints of distichal pinnules not specially marked, 3. *trichoptera*, Müll., sp.
- (b) Arm-joints of moderate length; lower joints of distichal pinnules rather large and carinate, *japonica*, Müll., sp.
- B. Palmar series developed above the distichals.
- I. Two palmars, the axillary not a syzygy.
- (a) Post-palmars like palmars.
1. Ten cirri, *multifida*, Müll., sp.
2. Twenty cirri; one or two further divisions, like palmars, *variabilis*, Bell.
- (b) Post-palmar series of three joints, the axillary with a syzygy.
1. Fifty cirri on a hemispherical centro-dorsal, *grandicalyx*, Carpenter.
2. Centro-dorsal reduced, with few or no cirri.
- a. Further division like palmars; centro-dorsal stellate, *alternans*, Carpenter.
- β. Further division like post-palmars.
- (i.) Fifteen to twenty small cirri, *briareus*, Bell, sp.
- (ii.) Centro-dorsal stellate, without cirri.
- Rays well separated; mouth radial, 4. *divaricata*, n. sp.
- Rays closely united, and the interradianal perisome plated; mouth interradianal, *magnifica*, Carpenter, MS.
- II. Palmar series at outside of ray two-jointed, without a syzygy; the inner series three-jointed, with a syzygy.
- (a) Post-palmars of two joints, the axillary not a syzygy; pinnule joints carinate, 5. *belli*, n. sp.
- (b) Post-palmars of three joints, the axillary with a syzygy.
1. Fifteen cirri; rays quite free, 6. *duplex*, n. sp.
2. No functional cirri; rays closely united, 7. *nobilis*, n. sp.
- III. Three palmars, the axillary with a syzygy.
- a. No further division. Centro-dorsal bears functional cirri.
1. Ten to twenty-five cirri, generally with less than fifteen joints, 1. *parvicirra*, Müll., sp.
2. Thirty or more cirri, of fifteen to twenty joints.
- (a) Lower pinnules not specially large.
- Arm-joints short; lower joints of distichal pinnules not carinate, 3. *trichoptera*, Müll., sp.
- Arm-joints of moderate length; lower joints of distichal pinnules rather large and carinate, *japonica*, Müll., sp.
- (b) Distichal and palmar pinnules very large and stout, *robustipinna*, Carpenter.
- b. Post-palmar series present.
1. No functional cirri; post-palmars of two joints, the axillary not a syzygy, 8. *littoralis*, n. sp.
2. Cirrus-sockets not entirely obliterated; post-palmars like palmars.
- (a) Ten to thirty cirri.
- (i.) Ten to twenty cirrus-joints.
- a. No further division, 1. *parvicirra*, Müll., sp.