

not to be the work of one who begins to study a group, as is often the case, but can only be done properly after laborious and continuous research. Moreover, the study of the literature is enormously encumbered by the circumstance, that descriptions of single species often lie buried in obscure periodicals. This circumstance, I hope, will be considered, when my report is found to be far from complete.

The collection of Pycnogonida brought home by the Challenger and placed in my hands numbers about 120 specimens. They were in an excellent state of preservation, and to facilitate the work, the bottles of spirit in which they were put, were furnished with labels indicating the station, latitude, longitude, bottom temperature, and the nature of the sea-bed where they were dredged. Some of the specimens were not obtained from any of the 361 dredging stations, but were collected on the shore (near Cape Town, *e.g.*), or dredged in shallow water (Bahia, Kerguelen). Over a course of 68,890 miles the dredge was let down at 361 stations, and Pycnogonids were procured on only twenty-six occasions. The 120 specimens of Pycnogonida brought home belong to thirty-six species, and thirty-three of these I have been obliged to consider and describe as new to science. The greatest depth where a Pycnogonid was found was 2650 fathoms; the greatest depth dredged during the cruise was 4575 fathoms.

In the following list I have given the range in depth at which species of Pycnogonida were found by the Challenger, and also recently during the cruise of the "Knight Errant":—

Shore,	.	.	.	.	<i>Discoarachne brevipes</i> , Hoek.
"	.	.	.	.	<i>Hannonia typica</i> , Hoek.
7 to 20 fathoms,	.	.	.	.	<i>Phoxichilidium fluminense</i> , Kröyer.
"	"	"	.	.	<i>Phoxichilidium insigne</i> , Hoek.
10 to 120	"	.	.	.	<i>Nymphon brachyrhynchus</i> , Hoek.
25 to 120	"	.	.	.	<i>Nymphon brevicaudatum</i> , Miers.
25	"	.	.	.	<i>Nymphon fuscum</i> , Hoek.
38	"	.	.	.	<i>Ascorhynchus minutus</i> , Hoek.
"	"	.	.	.	<i>Pallene languida</i> , Hoek.
38 to 40	"	.	.	.	<i>Pallene laevis</i> , Hoek.
38 to 120	"	.	.	.	<i>Pallene australiensis</i> , Hoek.
45, 55, 175	"	.	.	.	<i>Phoxichilidium patagonicum</i> , Hoek.
53	"	.	.	.	<i>Pycnogonum litorale</i> , Ström.
55, 70, 120	"	.	.	.	<i>Colossendeis megalonyx</i> , Hoek.
83	"	.	.	.	<i>Nymphon brevicollum</i> , Hoek.
83 to 540	"	.	.	.	<i>Nymphon grossipes</i> , Oth. Fabr., sp.
120	"	.	.	.	<i>Colossendeis robusta</i> , Hoek.
150	"	.	.	.	<i>Ascorhynchus orthorhynchus</i> , Hoek.
375 to 540	"	.	.	.	<i>Nymphon robustum</i> , Bell.
400 to 1600	"	.	.	.	<i>Colossendeis leptorhynchus</i> , Hoek.
515, 530, 540	"	.	.	.	<i>Nymphon strömii</i> , Kröyer.
540	"	.	.	.	<i>Nymphon macronyx</i> , G. O. Sars.
"	"	.	.	.	<i>Colossendeis proboscidea</i> , Sab., sp.
600	"	.	.	.	<i>Phoxichilidium patagonicum</i> , var. <i>elegans</i> , Hoek.