

# SIPHONOPHORA COLLECTED DURING THE 35TH CRUISE OF THE R. V. "VITYAZ" IN THE EASTERN PART OF THE INDIAN OCEAN

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The distribution pattern of fifty eight species of Siphonophores collected during the 35th Cruise of the R. V. "Vityaz" in the eastern part of the Indian Ocean is presented. The greater concentration of species appears to be around the Equator extending between 5°N and 10°S. *Marrus antarcticus* Totton 1954, considered to be a deep or mid-water form associated with the Antarctic zone and with waters that have recently left the zone, was encountered at Lat. 9°57'S and Long. 91° 32'E at 125-150 m depth. A new genus and species of Physonectae, *Frillagalma vityazi* Daniel 1966, has been recorded and published.

## INTRODUCTION

The Siphonophora collected during the 35th Cruise of the U. S. S. R. Research Vessel "Vityaz" in Indian Ocean from 101 plankton samples collected at 46 Stations by Juday net, Indian Ocean Standard net, Isaacs-Kidd Trawl, Ring Trawl, and Sigbee's Trawl, were studied. In this paper the latitudinal distribution pattern of 58 species are presented (Figs. 1, 2). The greater concentration of species (about 48 in number) appears to be around the equator extending between 5° N and 10° S. Of these, a single nectophore of *Marrus antarcticus* Totton 1954, hitherto considered to be a deep or mid-water form associated with the antarctic zone and with waters that have recently left the zone, was encountered at Lat. 09° 57'S and Long. 91° 32'E at 125-150 m depth. At Stn 5212 (Lat. 05° 11'S and Long. 91° 15'E) four nectophores with frilled ridges of a new genus and species, *Frillagalma vityazi* belonging to the suborder Physonectae were recorded and published (Daniel 1966). Three species *Maresearsia praeclara* Totton, 1954, *Sulculeolaria angusta* Totton, 1954, and *Chuniphyes moserae* Totton, 1954 are recorded for the second time.

The list of Siphonophora is as follows :—

1. *Physalia physalis* (Linne) 1758
2. *Rhizophysa* sp.
3. *Agalma okeni* Eschscholtz, 1825
4. *A. elegans* (Sars) 1846
5. *Halistemma rubra* (Vogt) 1852 (Referred to as *Stephanomia rubra* in Fig. 1).
6. *Nanomia bijuga* (Delle Chiaje), 1841
7. *Marrus antarcticus* Totton, 1954
8. *Cordagalma cordiformis* Totton, 1932
9. *Frillagalma vityazi* Daniel, 1966
10. *Nectopyramis spinosa* Sears, 1952
11. *Rosacea plicata* Quoy and Gaimard, 1827
12. *Praya dubia* (Quoy and Gaimard) 1824



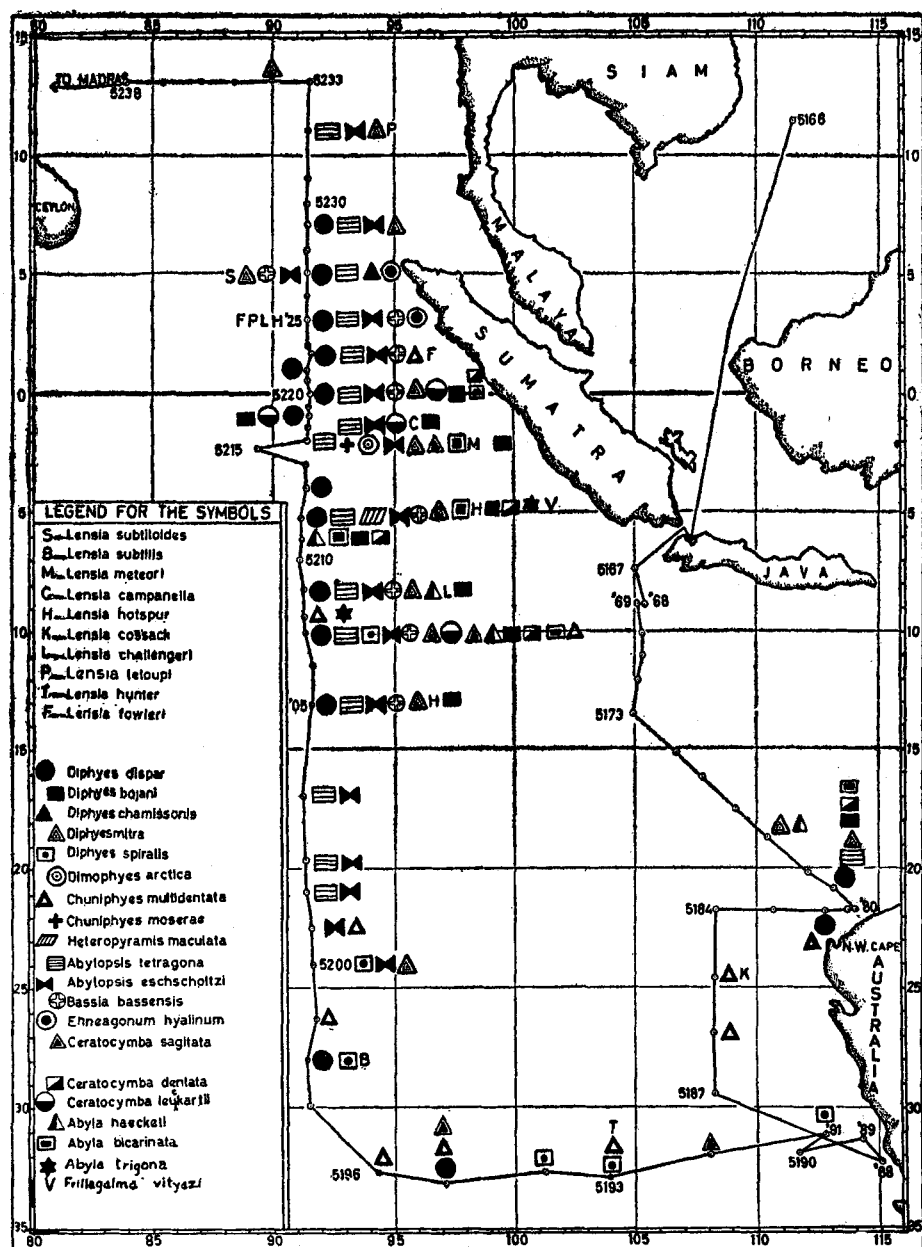


FIG. 2. Map showing the distribution pattern of 30 species of Siphonophora collected during the 35th Cruise of R. V. "Vityaz" in the Indian Ocean.

13. *Amphicaryon acaule* Chun, 1888
14. *Maresearsia praeclara* Totton, 1954
15. *Maresearsia* sp.
16. *Vogtia spinosa* Kefferstein and Ehlers, 1861
17. *V. pentacantha* Kolliker 1853
18. *V. glabra* Bigelow, 1918
19. *Hippopodius hippopus* (Forsk.) 1776
20. *Sulculeolaria quadrivalvis* Blainville, 1830/33
21. *S. monoica* (Chun) 1888
22. *S. chuni* (Lens & Van Riemsdijk) 1908
23. *S. angusta* Totton, 1954
24. *S. turgida* (Gegenbaur) 1854
25. *S. biloba* (Sars) 1846
26. *Lensia subtiloides* (Lens & Van Riemsdijk) 1908
27. *L. subtilis* (Chun) 1886
28. *L. meteori* (Leloup) 1934
29. *L. campanella* (Moser) 1925
30. *L. hotspur* Totton, 1954
31. *L. cossack* Totton, 1941
32. *L. hunter* Totton, 1941
33. *L. leloupi* Totton, 1954
34. *L. fowleri* (Bigelow) 1911
35. *L. challengerii* Totton, 1954
36. *Chelophyes contorta* (Lens & Van Riemsdijk) 1908
37. *C. appendiculata* (Eschscholtz) 1827
38. *Diphyes dispar* Chamisso & Eysenhardt, 1821
39. *D. bojani* Eschscholtz, 1825
40. *D. chamissonis* Huxley, 1859
41. *Eudoxoides mitra* (Huxley) 1859 (Referred to as *Diphyes mitra* in Fig. 2)
42. *E. spiralis* (Bigelow) 1911 (Referred to as *Diphyes spiralis* in Fig. 2).
43. *Dimophyes artica* (Chun) 1897
44. *Chuniphyes multidentata* Lens & Van Riemsdijk 1908
45. *C. moserae* Totton, 1954
46. *Heteropyramis maculata* Moser, 1925
47. *Abylopsisteträgona* (Otto) 1823
48. *A. eschscholtzi* (Huxley) 1859
49. *Bassia bassensis* (Quoy & Gaimard) 1834
50. *Enneagonum hyalinum* Quoy & Gaimard, 1827
51. *Ceratocymba leukartii* (Huxley) 1859
52. *C. dentata* (Bigelow) 1918
53. *C. sagittata* (Quoy & Gaimard) 1827
54. *Abyla trigona* Quoy & Gaimard, 1827
55. *A. haeckeli* Lens & Van Riemsdijk, 1908
56. *A. bicarinata* Moser, 1925
57. *Porpita porpita* (Linne) 1758 (Order Chondrophora)
58. *Veilella veilella* (Linne) 1758 (Order Chondrophora)

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