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# A CONTRIBUTION TO THE STUDY ON THE PLANKTON AND THE ALLIED PROTOZOA IN THE NORTHERN WATERS OF JAPAN

## I. A List of the Littoral Foraminifera of Hokkaido

BY

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(With one Text Figure)

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### 北部日本に於ける浮游生物並びに 其他の原生動物に就て

#### 1. 北海道沿岸の有孔蟲目錄

羽 田 良 禾

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The following list of the Foraminifera is of the first part of the results from the survey on the Plankton and the allied Protozoa which are found in the waters of Hokkaido, Sakhalin, Kurile Islands and the adjacent regions.

The materials were collected during 1928-1929, not only by dredging the sea-bottom, but also by drawing the plankton net on the surface of the sea-water, several times by the Oshoro Marine Biological station, twice in the bay of Akkeshi and once in the port of Nemuro. Owing to the difficulty in collecting the material from deep water, the depth in this case did not exceed fifteen fathoms; hence the species in the present work are confined to shallow water forms with an exception of one species which is pelagic.

The species and varieties are identified after the classification of J. A. CUSHMAN in his work "A Monograph of the Foraminifera of the North Pacific Ocean." In the present paper sixty-seven known species, four varieties and one new species cover eight families of the Foraminifera. No species of the other two families, known as Gromiidae and Chillostomellidae, has yet been secured.

The pelagic form which the writer was fortunate enough to obtain with the plankton net, is represented by a single species—*Globigerina bulloides*—as is noted in the following page.

The further reports of the investigation which is going on, together with that of the investigation of the other classes will appear under the same title later.

## ORDER FORAMINIFERA

### Family *Astrorhizidae*

1. *Protonina difflugiformis* (H. B. BRADY).

**Hab.** Oshoro, rare; Akkeshi, rare; Nemuro, rare.

2. *Saccammina sphaerica* G. O. SARS.

**Hab.** Nemuro, rare.

### Family *Lituolidae*

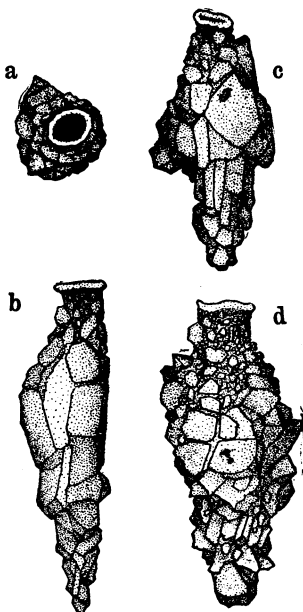
3. *Reophax enormis* new species.

**Description.** Test elongate, usually tapering towards the initial end, composed of a few irregular chambers arranged in a nearly straight series, apertural end drawn out into a short tubular neck; sutures slightly depressed, occasionally scarcely perceptible with incomplete septa; walls consisting of highly coarse sand grains united together with a poor amount of the cementing material and giving an irregular appearance; aperture situated at the end of the short cylindrical neck with a single or a few openings; colour varying with the aggregated material of the walls.

Length up to 0.95 mm.

**Hab.** The inlet of Oshoro; Mutsu Bay.

**Remarks.** The species which is mostly composed of sharp angular quartz-sand grains is comparatively common in those localities. It is more or less similar to the irregular specimens of *Reophax scorpiurus* and *Reophax excentricus* in the general contour, how-



*Reophax enormis* n. sp.  $\times 50$ .

a. apertural view.

b, c, d. side view.

ever, it is easily distinguished from the other species of the genus *Reophax* by the characteristic sutural depression and the rough surface with sharp angular sand grains.

4. *Haplophragmoides canariensis* (D'ORBIGNY).  
**Hab.** Oshoro, rare.
5. *Haplophragmoides emaciatum* (H. B. BRADY).  
**Hab.** Oshoro, rare.
6. *Ammobaculites cassis* (PARKER).  
**Hab.** Nemuro, common.
7. *Trochammina globigeriniformis* (PARKER and JONES).  
**Hab.** Oshoro, rare; Nemuro, common.

#### Family *Textulariidae*

8. *Spiroplectina biformis* (PAKKER and JONES).  
**Hab.** Oshoro, rare.
9. *Textularia conica* D'ORBIGNY.  
**Hab.** Oshoro, rare.
10. *Bolivina robusta* H. B. BRADY.  
**Hab.** Oshoro, rare; Akkeshi, rare.
11. *Bolivina porrecta* H. B. BRADY.  
**Hab.** Oshoro, rare.
12. *Bolivina textularioides* REUSS.  
**Hab.** Oshoro, rare.
13. *Bolivina seminuda* CUSHMAN.  
**Hab.** Oshoro, rare.
14. *Verneuilina polystropha* (REUSS).  
**Hab.** Oshoro, common; Akkeshi, common; Nemuro, rare.
15. *Verneuilina spinulosa* REUSS.  
**Hab.** Oshoro, rare.
16. *Buliminella convoluta* (WILLIAMSON).  
**Hab.** Oshoro, rare.
17. *Buliminella elegantissima* (D'ORBIGNY).  
**Hab.** Oshoro, common; Akkeshi, rare.

Family *Lagenidae*

18. *Lagena globosa* (MONTAGU).  
**Hab.** Oshoro, rare.
19. *Lagena apiculata* (REUSS).  
**Hab.** Oshoro, rare.
20. *Lagena laevis* (MONTAGU).  
**Hab.** Oshoro, rare.
21. *Lagena laevigata* (REUSS).  
**Hab.** Oshoro, rare; Akkeshi, rare.
22. *Lagena gracillima* (SEGUENZA).  
**Hab.** Oshoro, rare; Nemuro, rare,
23. *Lagena striata* (D'ORBIGNY).  
**Hab.** Oshoro, rare.
24. *Lagena costata* (WILLIAMSON).  
**Hab.** Oshoro, rare.
25. *Lagena lucida* (WILLIAMSON).  
**Hab.** Oshoro, rare; Akkeshi, rare; Nemuro, rare.
26. *Lagena squamosa* (MONTAGU).  
**Hab.** Oshoro, rare.
27. *Lagena orbignyana* (SEGUENZA), var.  
**Hab.** Oshoro, rare.
28. *Lagena variata* H. B. BRADY.  
**Hab.** Oshoro, rare.
29. *Polymorphina lactea* (WALKER and JACOB), var. *novangliae* CUSHMAN.  
**Hab.** Oshoro, rare.
30. *Polymorphina lactea* (WALKER and JACOB), var. *diffusa* JONES and CHAPMAN.  
**Hab.** Nemuro, rare.
31. *Polymorphina communis* D'ORBIGNY.  
**Hab.** Oshoro, rare.
32. *Polymorphina sordanii* D'ORBIGNY.  
**Hab.** Oshoro, common.
33. *Uvigerina tenuistriata* REUSS.

**Hab.** Oshoro, rare.

34. *Siphogenerina raphanus* (PARKER and JONES).

**Hab.** Oshoro, common.

Family *Glogigerinidae*

35. *Globigerina bulloides* D'ORBIGNY.

**Hab.** Oshoro, common; Akkeshi, rare.

Family *Rotaliidae*

36. *Discorbis globularis* (D'ORBIGNY).

**Hab.** Oshoro, rare.

37. *Discorbis vilardeboana* (D'ORBIGNY).

**Hab.** Oshoro, rare; Akkeshi, rare.

38. *Discorbis opercularis* (D'ORBIGNY).

**Hab.** Oshoro, rare.

39. *Cymbalopora poeyi* (D'ORBIGNY).

**Hab.** Oshoro, rare.

40. *Truncatulina lobatula* (WALKER and JACOB).

**Hab.** Oshoro, common.

41. *Pulvinulina oblonga* (WILLIAMSON).

**Hab.** Oshoro, rare.

42. *Pulvinulina exigua* H. B. BRADY.

**Hab.** Oshoro, common; Akkeshi, abundant; Nemuro, rare.

43. *Patellina corrugata* WILLIAMSON.

**Hab.** Oshoro, rare.

44. *Rotalia broeckhiana* KARRER.

**Hab.** Akkeshi, common; Nemuro, rare.

45. *Rotalia beccarii* (LINNAEUS).

**Hab.** Oshoro, common.

46. *Rotalia calcar* (D'ORBIGNY).

**Hab.** Oshoro, rare; Akkeshi, rare.

Family *Nummulitidae*

47. *Nonionina boueana* D'ORBIGNY.  
**Hab.** Oshoro, common; Akkeshi, common.
48. *Nonionina scapha* (FICHTEL and MOLL).  
**Hab.** Oshoro, common; Akkeshi, common; Nemuro, rare.
49. *Nonionina auris* D'ORBIGNY.  
**Hab.** Oshoro, common; Akkeshi, rare.
50. *Polystomella striatopunctata* (FICHTEL and MOLL).  
**Hab.** Oshoro, common; Nemuro, rare.
51. *Polystomella crispa* (LINNAEUS).  
**Hab.** Oshoro, rare; Akkeshi, common; Nemuro, rare.
52. *Polystomella macella* (FICHTEL and MOLL).  
**Hab.** Oshoro, rare; Akkeshi, common.
53. *Polystomella decipiens* COSTA.  
**Hab.** Oshoro, common; Akkeshi, common; Nemuro, rare.
54. *Polystomella faba* (FICHTEL and MOLL).  
**Hab.** Oshoro, common; Akkeshi, common.
55. *Polystomella sibirica* GOËS.  
**Hab.** Akkeshi, rare.

Family *Miliolidae*

56. *Cornuspira involvens* (REUSS).  
**Hab.** Oshoro, rare.
57. *Cornuspira carinata* (COSTA).  
**Hab.** Oshoro, rare.
58. *Spiroloculina grata* TERQUEM.  
**Hab.** Oshoro, common.
59. *Spiroloculina milletti* WIESNER.  
**Hab.** Oshoro, rare.
60. *Vertebralina striata* D'ORBIGNY.  
**Hab.** Oshoro, rare.
61. *Quinqueloculina seminulum* (LINNAEUS).

- Hab.** Oshoro, common; Akkeshi, rare.
62. *Quinqueloculina vurgaris* D'ORBIGNY.  
**Hab.** Oshoro, rare; Akkeshi, rare.
63. *Quinqueloculina curta* CUSHMAN.  
**Hab.** Oshoro, common; Akkeshi, rare; Nemuro, rare.
64. *Quinqueloculina rugosa* D'ORBIGNY.  
**Hab.** Oshoro, rare.
65. *Quinqueloculina agglutinans* D'ORBIGNY.  
**Hab.** Oshoro, rare; Akkeshi, rare.
66. *Massilina secans* (D'ORBIGNY).  
**Hab.** Oshoro, common.
67. *Triloculina trigonula* (LAMARCK).  
**Hab.** Oshoro, common.
68. *Triloculina oblonga* (MONTAGU).  
**Hab.** Oshoro, rare.
69. *Triloculina terquemina* (H. B. BRADY).  
**Hab.** Oshoro, rare.
70. *Triloculina transversistriata* (H. B. BRADY).  
**Hab.** Oshoro, rare.
71. *Triloculina circularis* BORNEMANN, var. *sublineata* H. B. BRADY.  
**Hab.** Oshoro, rare.
72. *Bitoculina anomala* SCHLUMBERGER.  
**Hab.** Oshoro, rare.

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## 摘 要

予は北海道、樺太、千島を中心とせる浮游生物の研究、特に原生動物の浮游生活をなす者に就きて研究す。本報文は其の一部なり。

爰に記したる有孔蟲は全体として見るときは嚴格には浮游生物とは云ひ難からんも、其の内には多くの浮游生活をなす者を含む故を以て、本文にて忍路、厚岸、根室近海に於て予自身海底、又は海水面より採集せる材料よりして前表に擧げたる如く、1新種 (*Reophax enormis* n. sp.) 並に 67種 4變種を 8科に亘りて列記せり。其の内浮游生物として採集網に入り來る者は *Globierina bulloides* 耳なりき。次に此等のものを科別にすれば下の如し。

<i>Astrorhizidae</i>	科	2 屬	2 種	
<i>Lituolidae</i>	科	4 屬	5 種	
<i>Textulariidae</i>	科	5 屬	10 種	
<i>Lagenidae</i>	科	4 屬	14 種	3 變種
<i>Globigerinidae</i>	科	1 屬	1 種	
<i>Rotaliidae</i>	科	6 屬	11 種	
<i>Nummulitidae</i>	科	2 屬	9 種	
<i>Miliolidae</i>	科	7 屬	16 種	1 變種

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