

"AURELIA"-CRUISE REPORTS  
ON THE BENTHIC FAUNA OF THE SOUTHERN NORTH SEA



REPORT 4: TRAWL SURVEY JANUARY-FEBRUARY 1973

G.J. VAN NOORT, F. VAN LEEUWEN AND F. CREUTZBERG

4

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Report 4: Trawl survey January-February 1973.

by

G.J.van NOORT, F. van LEEUWEN and F. CREUTZBERG

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(The "Aurelia"-cruise reports on the benthic fauna of the southern North Sea are edited by G.J. van Noort).

## INTRODUCTION

Since April 1972 a series of trawl surveys with the R.V. "Aurelia" are carried out in the southern North Sea with the object of obtaining information on distribution, constitution and fluctuations of the benthic fauna. The surveys were made with a 5½ m beam trawl which is an adapted copy of the 6 m beam trawl used by the Netherlands Institute for Fishery Investigations, IJmuiden in the Demersal Young Fish Survey programme. The mesh size in the cod end, however, was kept smaller: 5 x 5 mm<sup>2</sup>. The hauls, therefore, were more or less selective with relatively high efficiency for crawling or swimming epifauna such as small demersal fishes, shrimps, crabs, asteroids, ophiuroids and some gastropods. For large fish as well as for infauna the efficiency was low. Since the efficiency of the fishing gear for different species has so far not sufficiently been estimated, the numbers given in the tables of this report should not be read as "numbers present" but as "numbers caught" per 10.000 m<sup>2</sup>. The hauls were of 10 min duration and the distances covered by the fishing net were estimated with the aid of a Decca Track Plotter.

The position of the stations is given on p. 4 and 5. At each station only one haul was made. The catches were sorted on board, large animals were counted and a number of species were measured (all fishes and some echinoderms). For the estimation of the number of smaller animals (and the length of the shrimps) a subsample was taken from the catch. The length distributions of the common fish species and some echinoderms are given in this report, whereas the length distributions of the shrimps are to be found in a special report on shrimps of the four surveys carried out during 1972 and 1973 (VAN LEEUWEN, NIOZ interne verslagen, nr. 1974-8).

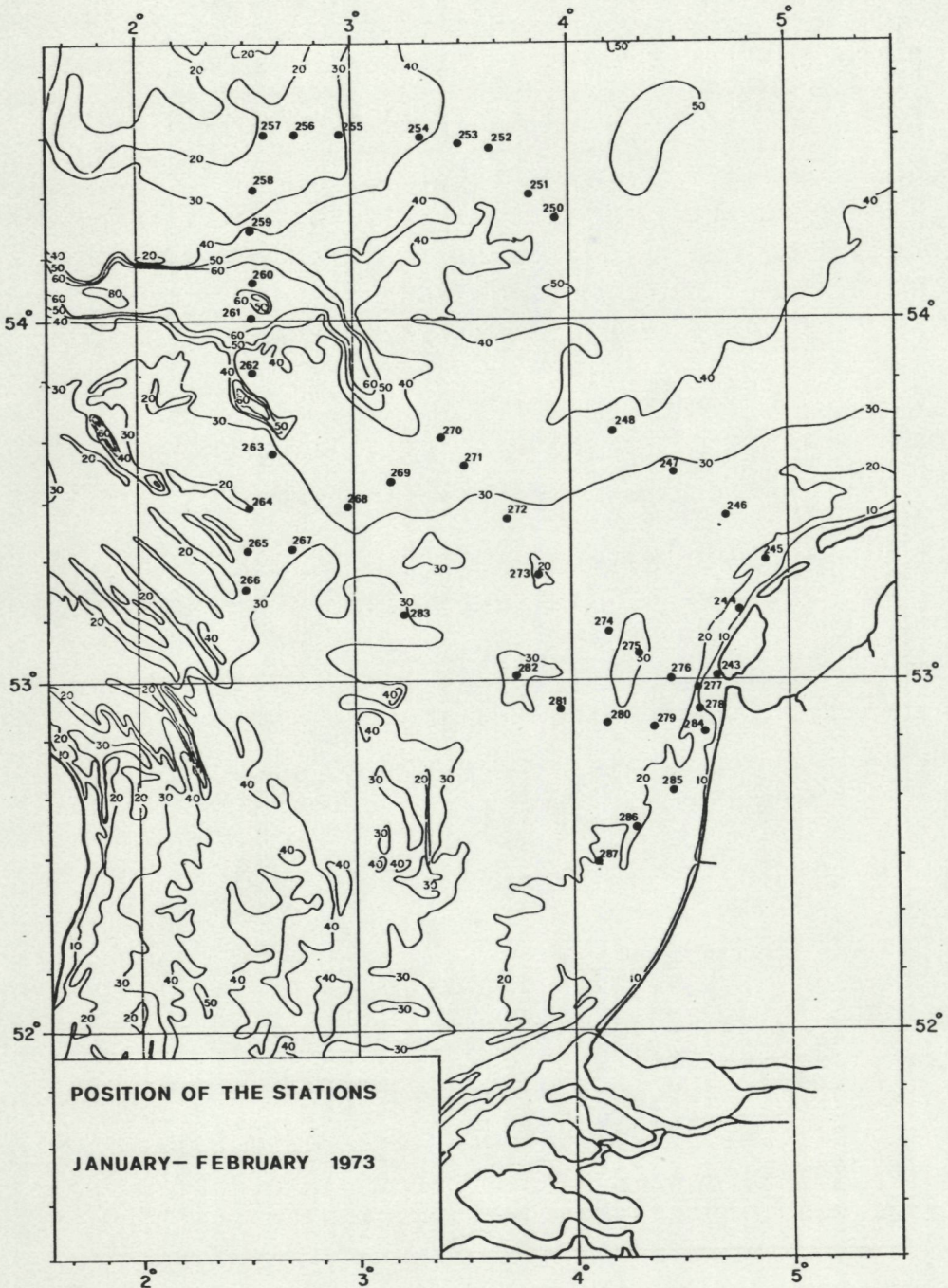
It should be noted that not all animals were counted consistently. Worms, for instance, were not taken into account. Also very small animals such as amphipods, isopods, and mysids were omitted whereas a number of molluscs, especially those belonging to the infauna, were not always counted. Fishes, crabs, shrimps, and echinoderms, on the other hand, were registered consistently. Every species is given a number indicating the relevant charts or tables.

The fourth cruise, described in this report, lasted from January 29th to February 8th 1973:

January	29th:	haul nr.	243-248	February	5th	haul nr.	278-282
"	30th	" "	250-258	"	6th	" "	283
"	31th	" "	259-267	"	8th	" "	284-289
February	1st	" "	268-277				

The participants were: R. Dapper, M. Fonds, B.R. Kuipers, J.Y. Witte and the students H. Klinkhamer, F. van Leeuwen, M.M. Rutgers van der Loeff, M.A.H.J. den Teuling, Miss C.H.N. Veldhuis and G. Verbuurt. Computer assistance has been rendered by R. Dapper.

HAUL NO.	POSITION N. E.	DEPTH M.	SURFACE C	BOTTOM C	SURFACE % Sal.	BOTTOM % Sal.	SECCHI M.
243	5302 0442	8.0	5.3	5.3	31.6	31.7	1.0
244	5310 0445	13.0	5.4	5.4	32.5	32.5	2.3
245	5315 0440	12.5	5.4	5.4	32.8	32.8	1.3
246	5325 0441	31.0	7.0	7.0	35.3	35.3	4.0
247	5335 0427	29.5	7.0	6.9	34.9	34.9	2.0
248	5341 0412	41.0	5.9	6.8	34.8	34.8	-
250	5414 0355	47.5	6.9	6.8	34.8	34.9	-
251	5422 0345	45.5	6.9	6.7	34.8	34.8	8.0
252	5429 0337	45.0	6.8	6.6	34.9	34.8	10.0
253	5430 0328	46.5	6.8	6.4	34.8	-	9.0
254	5431 0314	41.0	6.2	-	34.9	-	9.0
255	5431 0259	37.5	6.0	-	34.8	34.8	-
256	5431 0246	30.0	6.2	6.2	34.7	34.8	10.0
257	5430 0234	23.5	6.2	6.3	34.8	34.9	>10.0
258	5422 0232	31.0	6.2	6.5	34.8	34.8	>10.0
259	5413 0231	48.5	6.6	6.7	34.8	34.8	-
260	5406 0232	36.0	7.0	7.1	34.8	34.8	8.0
261	5401 0233	36.0	7.0	7.1	34.8	34.8	8.0
262	5352 0232	28.0	6.7	6.8	34.8	-	8.5
263	5339 0238	15.0	6.5	6.5	34.8	-	-
264	5329 0230	13.0	6.4	6.4	34.8	34.7	8.0
265	5322 0230	16.0	6.2	6.2	34.7	34.7	8.0
266	5316 0232	18.5	6.2	6.2	34.7	34.7	5.0
267	5322 0242	19.0	6.1	6.2	34.7	34.7	-
268	5329 0259	18.5	6.2	6.3	34.8	-	-
269	5335 0311	21.0	6.1	6.3	34.8	34.8	-
270	5341 0323	23.5	6.2	6.5	34.8	34.8	5.0
271	5337 0336	21.0	6.6	6.4	34.7	34.7	4.0
272	5328 0344	16.5	6.4	6.3	34.7	34.7	3.5
273	5319 0351	15.0	7.1	7.2	35.0	35.0	4.5
274	5308 0410	16.5	7.6	7.4	53.3	35.3	5.0
275	5305 0419	20.0	6.0	-	35.3	-	-
276	5259 0427	15.5	5.6	6.5	32.5	34.7	-
277	5259 0434	13.5	5.2	-	31.3	-	3.0
278	5254 0434	35.0	5.4	-	33.1	33.1	2.5
279	5253 0423	23.5	7.3	6.4	35.0	35.0	>10.0
280	5253 0410	23.5	7.0	6.5	35.4	35.1	7.0
281	5253 0357	24.5	7.2	7.4	35.2	35.2	5.0
282	5256 0349	31.5	7.6	7.7	35.3	35.3	3.5
283	5311 0314	29.5	6.8	6.9	35.3	34.9	-
284	5251 0436	13.5	5.2	-	31.2	31.3	1.0
285	5241 0428	17.0	5.7	5.6	32.8	32.8	3.0
286	5236 0417	24.0	6.0	6.0	33.6	33.7	5.5
287	5229 0405	24.5	6.2	6.4	34.2	34.3	4.0



THE OCCURRENCE OF BENTHIC ORGANISMS AT DIFFERENT STATIONS IN NUMBERS CAUGHT PER 10.000 M2

NR:	SPECIES	243	244	245	246	247	248	250	251	252	253	254	255	256	257	258
003:	CLUPEA HARENGUS	-	-	8	-	-	8	-	-	-	-	-	-	-	-	-
004:	SPRATTUS SPRATTUS	1	32	8	-	2	-	55	-	-	-	-	-	-	-	-
006:	ENGRAULIS ENCRASICOLUS	-	-	-	-	-	-	8	-	-	-	-	73	4	5	2
008:	OSMERUS EPERLANUS	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
010:	MERLANGIUS MERLANGUS	8	7	20	12	69	42	452	133	6	48	85	38	32	1	16
012:	TRISOPTERUS LUSCUS	8	1	-	2	2	-	-	-	-	-	-	-	-	-	-
013:	TRISOPTERUS MINUTUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
016:	GADUS MORHUA	2	-	-	3	-	-	3	-	-	-	3	-	-	-	-
020:	RHINONEMUS CIMBRIUS	-	-	-	-	-	35	36	4	-	-	-	-	-	-	-
021:	CILIATA MUSTELLA	8	-	8	-	-	-	-	-	-	-	-	-	-	-	-
022:	GASTEROSTEUS ACULEATUS	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-
023:	ENTELURUS AEQUOREUS	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-
025:	SYNGNATHUS ROSTELLATUS	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
028:	TRACHURUS TRACHURUS	-	-	-	-	-	-	23	-	-	-	-	-	-	-	-
030:	TRACHINUS VIPERA	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
031:	CENTRONOTUS GUNELLUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
032:	LUMPENUS LAMPRETAEFORMIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
034:	HYPEROPLUS LANCEOLATUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
035:	AMMODYTES SPEC.	1	-	27	3	2	-	-	-	-	-	-	-	-	-	-
036:	CALLIONYMUS LYRA	-	-	-	27	114	213	84	102	26	48	16	-	-	2	11
037:	CALLIONYMUS RETICULATUS	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
041:	POMATOSCHISTUS MICROPS	300	15	-	-	-	-	-	-	-	-	-	-	-	-	-
042:	POMATOSCHISTUS PICTUS	-	5	-	159	44	-	-	-	-	-	-	-	-	-	-
043:	POMATOSCHISTUS LOZANOI	950	179	439	136	148	-	-	-	-	-	-	-	279	43	-
044:	POMATOSCHISTUS MINUTUS	2676	604	604	386	812	-	7	8	-	9	5	32	947	252	478
045:	POMATOSCHISTUS NORVEGICUS	-	-	-	-	-	-	46	297	-	635	266	600	-	-	60
046:	EUTRIGLA GURNARDUS	-	-	-	-	2	-	37	199	6	18	16	11	4	-	-
047:	TRIGLA LUCERNA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
051:	AGONUS CATAPHRACTUS	-	-	4	-	2	-	3	-	-	-	-	-	-	-	-
054:	CYCLOPTERUS LUMPUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
055:	LEPIDORHOMBUS WHIFF-IAGONIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
057:	ARNOGLOSSUS LATERNA	-	-	-	2	4	38	60	36	9	9	3	12	-	-	2
058:	SCOPHTHALMUS MAXIMUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
060:	HIPPOGLOSSOIDES PLATESSOIDES	-	-	-	-	-	19	23	12	-	18	14	-	-	-	-
061:	LIMANDA LIMANDA	32	8	187	20	184	20	328	156	42	36	51	189	101	23	50
062:	PLATICHTYS FLESUS	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
063:	PLEURONECTES PLATESSA	37	9	63	12	15	4	17	12	-	-	-	-	-	1	1
065:	BUGLOSSIDIUM LUTEUM	-	-	-	5	-	54	27	-	-	-	3	49	54	39	41
066:	SOLEA SOLEA	12	1	-	-	2	4	3	-	-	-	-	-	-	-	-

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THE OCCURRENCE OF BENTHIC ORGANISMS AT DIFFERENT STATIONS IN NUMBERS CAUGHT PER 10.000 M2

NR:	SPECIES	259	260	261	262	263	264	265	266	267	268	269	270	271	272
003:	CLUPEA HARENGUS	-	3	-	-	-	-	-	-	-	-	-	-	-	-
004:	SPRATTUS SPRATTUS	30	12	8	31	-	5	64	10	9	26	85	3	33	16
006:	ENGRAULIS ENCRASICOLUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
008:	OSMERUS EPERLANUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
010:	MERLANGIUS MERLANGUS	108	191	33	26	6	5	1	5	80	60	51	50	84	48
012:	TRISOPTERUS LUSCUS	-	5	1	-	-	-	-	-	-	-	1	-	41	6
013:	TRISOPTERUS MINUTUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
016:	GADUS MORHUA	2	-	-	-	-	-	-	-	-	2	-	-	-	-
020:	RHINONEMUS CIMBRIUS	-	88	52	4	-	-	-	-	-	-	7	18	42	5
021:	CILIATA MUSTELLA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
022:	GASTEROSTEUS ACULEATUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
023:	ENTELURUS AEQUOREUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
025:	SYNGNATHUS ROSTELLATUS	-	-	-	-	-	-	1	1	4	-	-	-	2	-
028:	TRACHURUS TRACHURUS	-	-	4	-	1	-	-	-	-	-	-	-	-	-
030:	TRACHINUS VIPERA	-	-	-	-	17	14	4	6	-	-	-	-	-	-
031:	CENTRONOTUS GUNELLUS	-	-	-	-	-	1	-	-	-	-	-	-	-	-
032:	LUMPENUS LAMPRETAIFORMIS	-	-	43	-	-	-	-	-	-	-	-	-	-	-
034:	HYPEROFLUS LANCEOLATUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
035:	AMMODYTES SPEC.	-	-	-	-	10	26	5	6	-	-	-	-	-	-
036:	CALLIONYMUS LYRA	4	12	7	9	2	-	-	3	7	11	8	52	211	61
037:	CALLIONYMUS RETICULATUS	-	-	-	-	-	-	-	11	5	-	-	2	9	12
041:	POMATOSCHISTUS MICROPS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
042:	POMATOSCHISTUS PICTUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
043:	POMATOSCHISTUS LOZANOI	-	-	3	-	5	19	141	384	364	66	-	-	-	24
044:	POMATOSCHISTUS MINUTUS	4	-	1	-	33	122	98	20	17	243	-	16	-	16
045:	POMATOSCHISTUS NORVEGICUS	68	36	82	119	11	7	-	-	50	13	-	130	-	62
046:	EUTRIGLA GURNARDUS	44	35	7	69	3	-	-	-	-	-	-	-	2	7
047:	TRIGLA LUCERNA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
051:	AGONUS CATAPHRACTUS	10	2	-	-	3	-	-	-	-	3	-	-	-	1
054:	CYCLOPTERUS LUMPUS	-	-	-	-	-	-	-	-	-	-	-	-	2	-
055:	LEPIDORHOMBUS WHIFF-IAGONIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
057:	ARNOGLOSSUS LATERNA	22	17	5	20	1	4	10	1	-	2	9	11	11	5
058:	SCOPHTHALMUS MAXIMUS	-	-	-	-	-	-	-	-	-	-	-	-	2	-
060:	HIPPOGLOSSOIDES PLATESSOIDES	-	24	35	16	1	-	-	-	-	-	10	-	22	7
061:	LIMANDA LIMANDA	118	121	57	80	26	59	38	4	6	27	78	92	69	69
062:	PLATICTHYS FLESUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
063:	PLEURONECTES PLATESSA	16	13	4	8	4	3	1	5	2	-	6	11	15	4
065:	BUGLOSSIDIUM LUTEUM	16	-	-	4	29	66	133	79	239	331	19	34	151	202
066:	SOLEA SOLEA	-	-	-	2	-	-	-	-	-	2	4	-	-	-

THE OCCURRENCE OF BENTHIC ORGANISMS AT DIFFERENT STATIONS IN NUMBERS CAUGHT PER 10.000 M2

NR:	SPECIES	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287
003:	CLUPEA HARENGUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
004:	SPRATTUS SPRATTUS	3	-	-	-	-	-	-	-	5	-	11	6	3	-	-
006:	ENGRAULIS ENCRASICOLUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
008:	OSMERUS EPERLANUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
010:	MERLANGIUS MERLANGUS	23	8	8	-	7	3	5	2	8	299	19	3	3	1	6
012:	TRISOPTERUS LUSCUS	3	-	-	-	53	-	5	-	-	-	8	-	4	-	1
013:	TRISOPTERUS MINUTUS	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
016:	GADUS MORHUA	-	-	-	-	3	-	-	-	-	9	3	-	-	-	3
020:	RHINONEMUS CIMBRIUS	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
021:	CILIATA MUSTELLA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
022:	GASTEROSTEUS ACULEATUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
023:	ENTELURUS AEQUOREUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
025:	SYNGNATHUS ROSTELLATUS	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-
028:	TRACHURUS TRACHURUS	-	-	-	-	-	-	-	-	-	-	-	6	-	1	5
030:	TRACHINUS VIPERA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
031:	CENTRONOTUS GUNELLUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
032:	LUMPENUS LAMPRETAIFORMIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
034:	HYPEROPLUS LANCEOLATUS	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-
035:	AMMODYTES SPEC.	-	-	-	-	-	-	15	86	3	-	13	-	-	-	-
036:	CALLIONYMUS LYRA	40	33	15	11	-	3	-	7	20	98	27	-	9	3	10
037:	CALLIONYMUS RETICULATUS	8	11	-	10	-	-	5	64	28	195	-	-	3	-	20
041:	POMATOSCHISTUS MICROPS	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-
042:	POMATOSCHISTUS PICTUS	5	16	3	16	-	61	-	18	-	-	-	11	-	-	-
043:	POMATOSCHISTUS LOZANDI	172	121	29	198	4	34	847	186	174	-	13	11	8	94	27
044:	POMATOSCHISTUS MINUTUS	489	572	162	459	11	1142	1617	400	320	-	1510	723	1044	383	724
045:	POMATOSCHISTUS NORVEGICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
046:	EUTRIGLA GURNARDUS	-	2	3	3	-	-	-	-	-	-	-	-	-	-	-
047:	TRIGLA LUCERNA	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-
051:	AGONUS CATAPHRACTUS	-	-	-	-	1	-	-	-	-	4	-	-	-	-	-
054:	CYCLOPTERUS LUMPUS	-	-	-	-	-	-	-	-	-	22	-	-	1	-	-
055:	LEPIDORHOMBUS WHIFF-IAGONIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
057:	ARNOGLOSSUS LATERNA	-	2	11	3	-	-	-	4	10	18	-	-	-	-	-
058:	SCOPHTHALMUS MAXIMUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
060:	HIPPGLOSSOIDES PLATESSOIDES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
061:	LIMANDA LIMANDA	4	4	8	6	4	7	15	2	8	235	3	16	12	1	3
062:	PLATICTHTYS FLESUS	-	-	-	-	-	3	-	-	3	4	-	-	1	-	7
063:	PLEURONECTES PLATESSA	-	-	10	-	10	37	26	-	-	4	-	-	13	3	5
065:	BUGLOSSIDIUM LUTEUM	138	188	69	-	-	-	36	38	111	674	146	-	1	3	14
066:	SOLEA SOLEA	-	-	-	-	-	3	-	-	-	-	-	3	-	-	-

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THE OCCURRENCE OF BENTHIC ORGANISMS AT DIFFERENT STATIONS IN NUMBERS CAUGHT PER 10.000 M2

NR!	SPECIES	243	244	245	246	247	248	250	251	252	253	254	255	256	257	258
101!	PROCESSA EDULIS	-	-	-	-	132	90	19	-	-	-	-	-	-	-	-
102!	PANDALUS MONTAGUI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
103!	PANDALINE BREVIROSTRIS	-	-	-	-	-	-	-	-	72	-	-	-	-	-	-
104!	HIPPOLYTE VARIANS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
105!	PONTOPHILUS TRISPINOSUS	-	30	27	22	265	-	-	-	-	-	-	-	-	71	2
107!	CRANGON ALLMANI	-	-	-	-	1710	-	6	7	39	-	-	-	-	10	55
108!	CRANGON CRANGON	19170	2190	8150	316	133	-	-	-	-	-	-	-	-	-	-
109!	PAGURUS BERNHARDUS	-	19	74	615	116	198	97	8	316	137	164	364	543	131	1263
113!	CORYSTES CASSIVELAUNUS	-	-	-	-	-	-	34	16	-	27	3	3	-	-	-
115!	INACHUS DORSETTENSIS	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-
116!	MACROPODIA ROSTRATA	-	-	-	1830	44	91	37	-	6	-	11	-	-	-	-
117!	MACROPODIA TENUIROSTRIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
118!	HYAS COARCTATUS	-	-	-	-	-	-	8	4	6	-	3	-	-	-	2
120!	MACROPIPIUS ARCUATUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123!	MACROPIPIUS HOLSATIS	81	38	259	225	1728	182	68	4	15	-	3	34	-	1	2
124!	MACROPIPIUS MARMOREUS	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
126!	CARCINUS MAENAS	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2
128!	PINNOTHERES PISUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
133!	EBALIA TUMEFACATA	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-
134!	EBALIA CRANCHII	-	-	-	-	-	1094	71	12	9	-	-	-	-	1	-
135!	NEPHROPS NORVEGICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138!	PYCNOGONIUM LITTIRALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
201!	ASTERIAS RUBENS	50	17	153	8376	487	277	34	43	79	161	144	287	132	16	26
202!	ASTROPECTEN IRREGULARIS	-	-	-	810	30	274	302	297	91	170	253	276	43	-	-
204!	PSAMMECHINUS MILLIARIS	-	-	-	-	-	-	13	47	426	-	3	41	256	9	370
206!	SPATANGUS PURPUREUS	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
207!	ECHINOCARDIUM CORDATUM	1026	-	549	210	-	2280	-	63	-	46	8	63	-	-	-
208!	ECHINOCARDIUM FLAVESCENS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210!	OPHIOTRIX FRAGILIS	-	-	-	-	-	-	153	649	-	1414	362	126	16	-	-
211!	AMPHIURA FILIFORMIS	-	-	-	-	-	91200	-	-	-	-	-	-	16	-	-
212!	OPHIURA ALBIDA	-	-	-	-	739	41222	1880	8	1718	18	8	26203	1125	4	22
213!	OPHIURA TEXTURATA	76	-	-	1830	103	-	26	-	116	73	61	-	-	-	-
214!	OPHIURA AFFINIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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1

THE OCCURRENCE OF BENTHIC ORGANISMS AT DIFFERENT STATIONS IN NUMBERS CAUGHT PER 10.000 M2

NR:	SPECIES	259	260	261	262	263	264	265	266	267	268	269	270	271	272
101:	PROCESSA EDULIS	-	31	1	-	-	-	-	-	-	-	-	-	-	-
102:	PANDALUS MONTAGUI	-	2	-	-	-	-	-	-	-	-	-	-	-	-
103:	PANDALINE BREVIROSTRIS	-	4	-	-	-	-	-	-	-	-	-	-	-	15
104:	HIPPOLYTE VARIANS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
105:	PONTOPHILUS TRISPINOSUS	-	-	-	-	-	44	74	41	-	-	-	-	-	-
107:	CRANGON ALLMANI	34	187	92	59	15	49	74	181	798	454	-	-	76	263
108:	CRANGON CRANGON	-	-	-	-	-	14	17	1	-	21	-	-	-	-
109:	PAGURUS BERNHARDUS	144	69	64	119	97	147	74	90	86	44	-	-	45	31
113:	CORYSTES CASSIVELAUNUS	6	11	-	-	1	-	-	-	7	8	1	3	-	6
115:	INACHUS DORSETTENSIS	-	-	-	6	-	-	-	-	-	-	-	-	-	-
116:	MACROPODIA ROSTRATA	-	-	-	1	-	-	-	22	17	8	-	-	-	-
117:	MACROPODIA TENUIROSTRIS	-	3	-	-	-	1	-	22	17	8	-	-	-	-
118:	HYAS COARCTATUS	-	-	-	1	-	-	-	3	-	-	-	-	-	-
120:	MACROPIPIUS ARCUATUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123:	MACROPIPIUS HOLSATUS	118	14	3	-	3	-	1	3	66	444	-	5	-	18
124:	MACROPIPIUS MARMOREUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
126:	CARCINUS MAENAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128:	PINNOTHERES PISUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
133:	EBALIA TUMEFACIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134:	EBALIA CRANCHII	6	-	-	-	-	-	-	3	-	-	24	-	-	-
135:	NEPHROPS NORVEGICUS	-	58	23	-	-	-	-	-	-	-	-	-	-	16
138:	PYCNOGONIUM LITTORALE	-	-	-	-	1	-	-	-	-	-	-	-	-	-
201:	ASTERIAS RUBENS	190	21	63	643	158	83	31	15	1904	298	310	154	105	16
202:	ASTROPECTEN IRREGULARIS	6	18	13	119	95	55	25	10	-	126	310	73	19	-
204:	PSAMMECHINUS MILIARIS	96	-	-	1012	41	-	-	-	-	24	-	32	19	-
206:	SPATANGUS PURPUREUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207:	ECHINOCARDIUM CORDATUM	-	111	305	4582	-	-	4	-	-	-	-	-	-	-
208:	ECHINOCARDIUM FLAVESCENS	-	-	3	476	-	-	-	116	32	39986	988	155	3722	-
210:	OPHIOTRIX FRAGILIS	-	-	-	536	27	-	-	-	-	-	-	-	-	-
211:	AMPHIURA FILIFORMIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
212:	OPHIURA ALBIDA	6	1616	162	-	1	2	3	3	2848	550	-	1264	-	-
213:	OPHIURA TEXTURATA	18	5	-	167	-	-	18	150	83	1264	-	729	11881	931
214:	OPHIURA AFFINIS	-	-	-	-	-	-	-	3	-	-	-	-	-	31

THE OCCURRENCE OF BENTHIC ORGANISMS AT DIFFERENT STATIONS IN NUMBERS CAUGHT PER 10.000 M2

NR!	SPECIES	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287
101!	PROCESSA EDULIS	-	-	-	-	-	-	-	-	-	-	145	-	-	-	-
102!	PANDALUS MONTAGUI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
103!	PANDALINE BREVIROSTRIS	12	-	-	-	-	-	-	-	-	-	384	-	-	20	-
104!	HIPPOLYTE VARIANS	8	-	-	2	-	13	5	-	-	-	66	-	-	5	-
105!	PONTOPHILUS TRISPINOSUS	49	146	25	322	4	-	135	225	128	186	66	120	290	10	17
107!	CRANGON ALLMANI	754	35	4	25	11	-	-	15	38	466	6680	-	8	-	7
108!	CRANGON CRANGON	8	140	153	571	196	7050	2480	360	96	31	39	2830	1310	480	690
109!	FAGURUS BERNHARDUS	54	105	40	68	31	258	61	46	76	90	125	97	10	362	122
113!	CORYSTES CASSIVELAUNUS	11	2	-	-	-	-	-	-	-	-	-	-	-	-	-
115!	INACHUS DORSETTENSIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
116!	MACROPODIA ROSTRATA	11	12	11	13	1	-	5	-	-	-	40	-	-	16	9
117!	MACROPODIA TENUIROSTRIS	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
118!	HYAS COARCTATUS	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
120!	MACROPIPUS ARCUATUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123!	MACROPIPUS HDLSATUS	24	59	27	29	6	78	51	-	3	31	1020	13	3	18	31
124!	MACROPIPUS MARMOREUS	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-
126!	CARCINUS MAENAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128!	PINNOTHERES PISUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
133!	EBALIA TUMEFACIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134!	EBALIA CRANCHII	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-
135!	NEPHROPS NORVEGICUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138!	PYCNOGONIUM LITTIRALE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
201!	ASTERIAS RUBENS	231	518	477	305	571	1136	3254	356	227	1887	914	44	146	1155	367
202!	ASTROPECTEN IRREGULARIS	27	17	5	8	-	-	10	4	5	18	40	-	-	-	-
204!	PSAMMECHINUS MILIARIS	5	-	-	-	-	-	-	-	3	-	13	-	-	-	-
206!	SPATANGUS PURPUREUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207!	ECHINOCARDIUM CORDATUM	-	5	8	-	-	34	-	-	3	5	1855	-	-	4	1
208!	ECHINOCARDIUM FLAVESCENS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210!	OPHIOTRIX FRAGILIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
211!	AMPHIURA FILIFORMIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
212!	OPHIURA ALBIDA	104	437	32	52	7	-	-	2	88	-	384	-	-	-	-
213!	OPHIURA TEXTURATA	385	63	24	42	11	54	36	29	40	-	305	66	1	-	7
214!	OPHIURA AFFINIS	-	-	3	16	-	-	-	-	23	-	-	-	-	-	4

THE OCCURRENCE OF BENTHIC ORGANISMS AT DIFFERENT STATIONS IN NUMBERS CAUGHT PER 10.000 M2

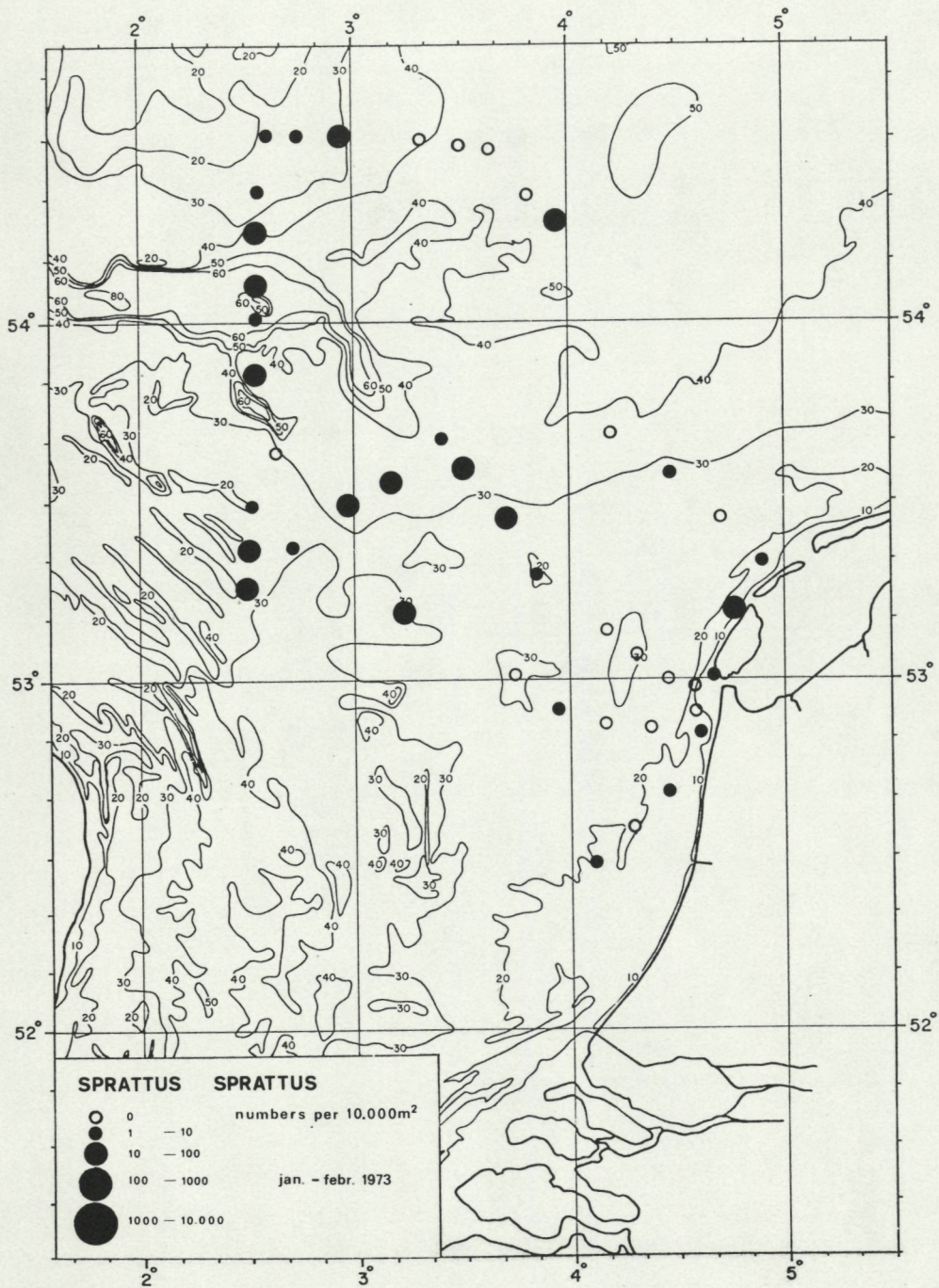
NR!	SPECIES	243	244	245	246	247	248	250	251	252	253	254	255	256	257	258
301:	NUCULA TURGIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
306:	MYTILUS EDULIS	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308:	CHLAMYS OPERCULARIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
318:	CYPRINA ISLANDICA	-	-	-	-	-	-	-	-	20	-	-	-	-	4	-
323:	CARDIUM ECHINATUM	-	-	-	-	-	34	-	-	-	-	-	-	-	-	-
325:	VENUS STRIATULA	-	-	-	-	-	49	-	-	-	-	3	-	-	-	-
329:	SPISULA ELLIPTICA	-	-	-	-	-	91	21	-	-	-	-	-	-	-	-
331:	MACTRA CORALINA	26	-	-	-	-	-	-	-	-	-	3	-	-	-	2
332:	DONAX VITTATUS	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
336:	ANGULUS FABULA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337:	ANGULUS TENUIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338:	CULTELLUS PELLUCIDUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
345:	CORBULA GIBBA	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-
347:	TURRITELLA COMMUNIS	-	-	-	-	-	91	8	-	-	-	-	-	-	-	-
352:	APORRHAIIS PESPELICANI	-	-	-	-	-	-11400	600	-	-	-	-	-	-	-	-
353:	NATICA CATENA	-	-	-	-	-	182	21	-	91	-	-	-	-	-	-
354:	NATICA POLIANUS	-	-	-	-	-	-	-	-	-	27	14	63	39	16	26
357:	NEPTUNEA ANTIQUA	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-
358:	BUCCINUM UNDATUM	-	-	-	-	-	-	-	8	-	9	-	-	-	-	-
402:	SEPIOLA ATLANTICA	-	1	-	45	-	30	50	59	46	52	50	87	39	1	74
404:	ALLOTEUTHIS SUBULATA	-	-	-	-	-	-	-	8	3	-	8	-	-	-	-
501:	PECTINARIA SPEC.	2201	5	-	-	-	-	-	8	-	-	-	-	-	-	2
502:	APHRODITE ACULEATA	-	-	-	-	-	4	92	23	-	43	5	3	-	-	-

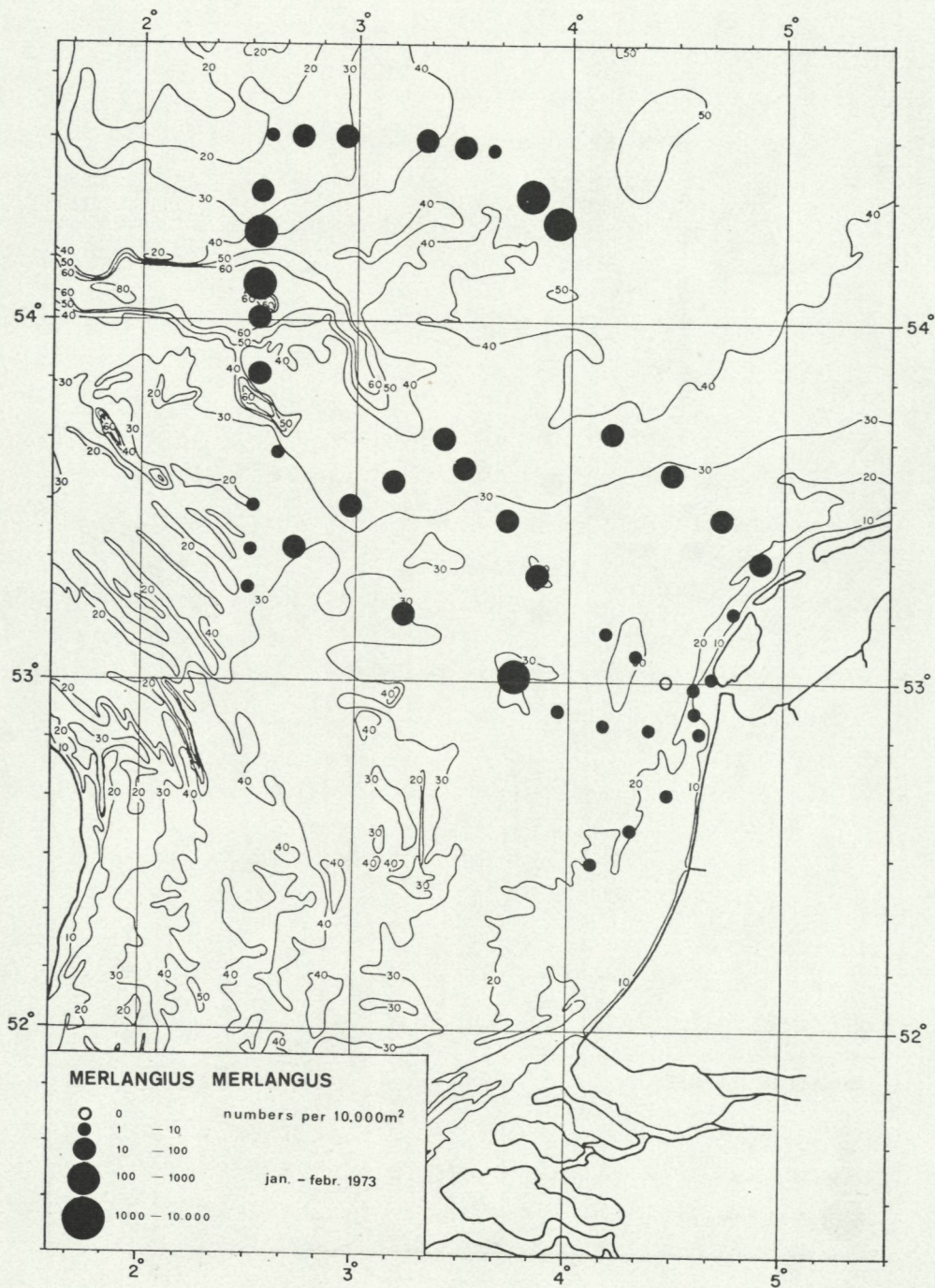
THE OCCURRENCE OF BENTHIC ORGANISMS AT DIFFERENT STATIONS IN NUMBERS CAUGHT PER 10.000 M2

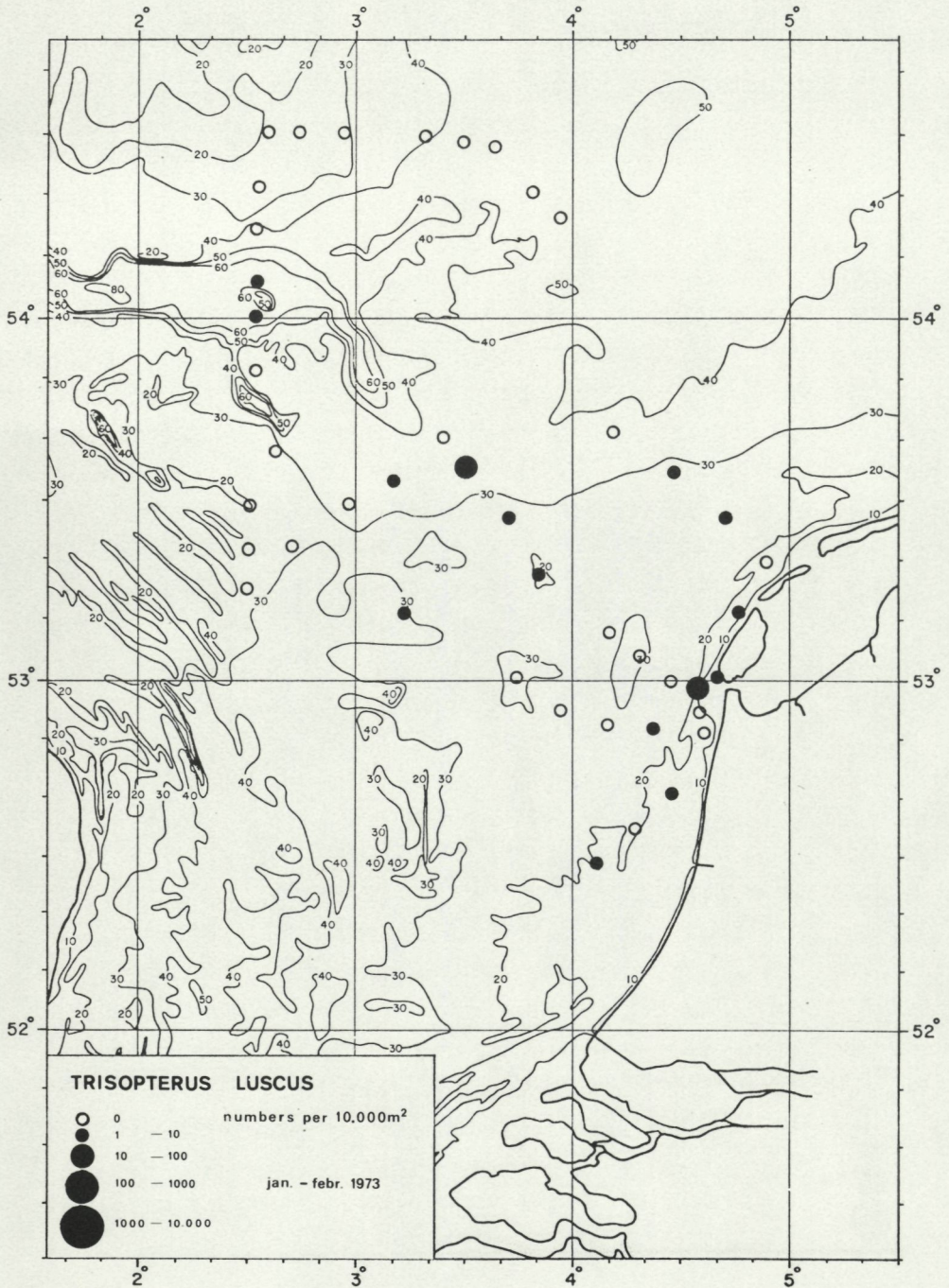
NR:	SPECIES	259	260	261	262	263	264	265	266	267	268	269	270	271	272
301	NUCULA TURGIDA	-	3	1	-	-	-	-	-	-	-	-	-	-	124
306	MYTILUS EDULIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	CHLAMYS OPERCULARIS	-	3	-	-	-	-	-	-	-	-	-	3	2	-
318	CYPERINA ISLANDICA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	CARDIUM ECHINATUM	-	-	-	-	-	3	-	1	17	-	310	6	19	31
325	VENUS STRIATULA	-	3	-	-	-	-	-	-	-	16	-	-	-	-
329	SPISULA ELLIPTICA	4	-	-	-	-	-	-	1	17	16	-	-	-	-
331	MACTRA CORALINA	-	-	3	-	-	-	-	-	-	-	-	-	-	-
332	DONAX VITTATUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
336	ANGULUS FABULA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	ANGULUS TENUIS	-	14	16	-	-	-	-	-	-	-	310	-	-	-
338	CULTELLUS PELLUCIDUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
345	CORBULA GIBBA	-	-	-	1309	1	-	-	-	-	-	1550	713	735	-
347	TURRITELLA COMMUNIS	-	-	-	-	-	-	-	-	-	-	-	16	77	-
352	APORRHAIUS PESPELICANI	-	-	-	-	-	4	1	4	50	-	-	-	-	16
353	NATICA CATENA	10	-	-	-	-	-	-	-	-	-	-	-	-	-
354	NATICA POLIANUS	-	-	-	-	-	-	-	-	-	-	-	5	-	-
357	NEPTUNEA ANTIQUA	-	-	15	179	23	-	3	-	-	-	-	-	-	-
358	BUCCINUM UNDATUM	18	2	15	179	23	4	1	1	-	-	-	-	4	-
402	SEPIOLA ATLANTICA	-	3	23	-	4	1	1	-	-	-	-	6	6	-
404	ALLOTEUTHIS SUBULATA	-	-	-	-	3	-	-	-	-	-	-	-	-	-
501	PECTINARIA SPEC.	-	-	21	-	-	-	-	-	-	-	-	-	6	-
502	APHRODITE ACULEATA	20	3	1	71	-	-	-	-	-	2	-	6	-	-

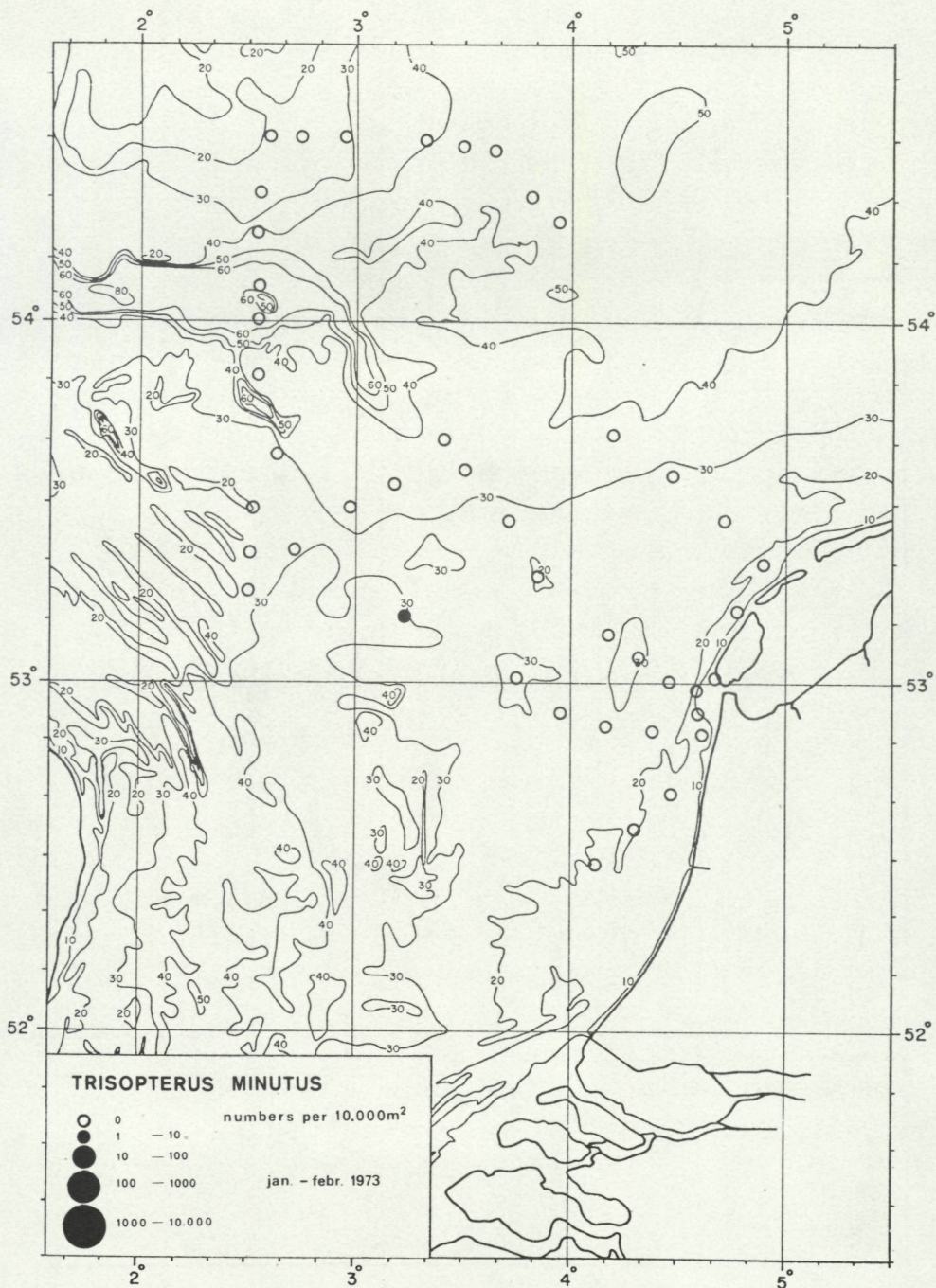
THE OCCURRENCE OF BENTHIC ORGANISMS AT DIFFERENT STATIONS IN NUMBERS CAUGHT PER 10.000 M2

NR:	SPECIES	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287
301:	NUCULA TURGIDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
306:	MYTILUS EDULIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308:	CHLAMYS OPERCULARIS	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
318:	CYPERINA ISLANDICA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323:	CARDIUM ECHINATUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
325:	VENUS STRIATULA	14	-	-	-	-	-	-	2	-	-	-	3	-	-	-
329:	SPISULA ELLIPTICA	5	-	-	-	-	-	-	4	-	-	-	34	-	-	4
331:	MACTRA CORALINA	27	6	3	5	-	3	-	-	-	-	-	3	-	-	-
332:	DONAX VITTATUS	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
336:	ANGULUS FABULA	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337:	ANGULUS TENUIS	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
338:	CULTELLUS PELLUCIDUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
345:	CORBULA GIBBA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
347:	TURRITELLA COMMUNIS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
352:	APORRHAIIS PESPELICANI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
353:	NATICA CATENA	36	6	-	13	-	-	-	-	5	-	-	-	-	-	-
354:	NATICA POLIANUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
357:	NEPTUNEA ANTIQUA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
358:	BUCCINUM UNDATUM	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
402:	SEPIOLA ATLANTICA	-	-	3	-	1	-	-	20	5	-	-	-	-	-	-
404:	ALLOTEUTHIS SUBULATA	-	3	3	-	-	-	-	5	25	44	-	-	-	-	-
501:	PECTINARIA SPEC.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
502:	APHRODITE ACULEATA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

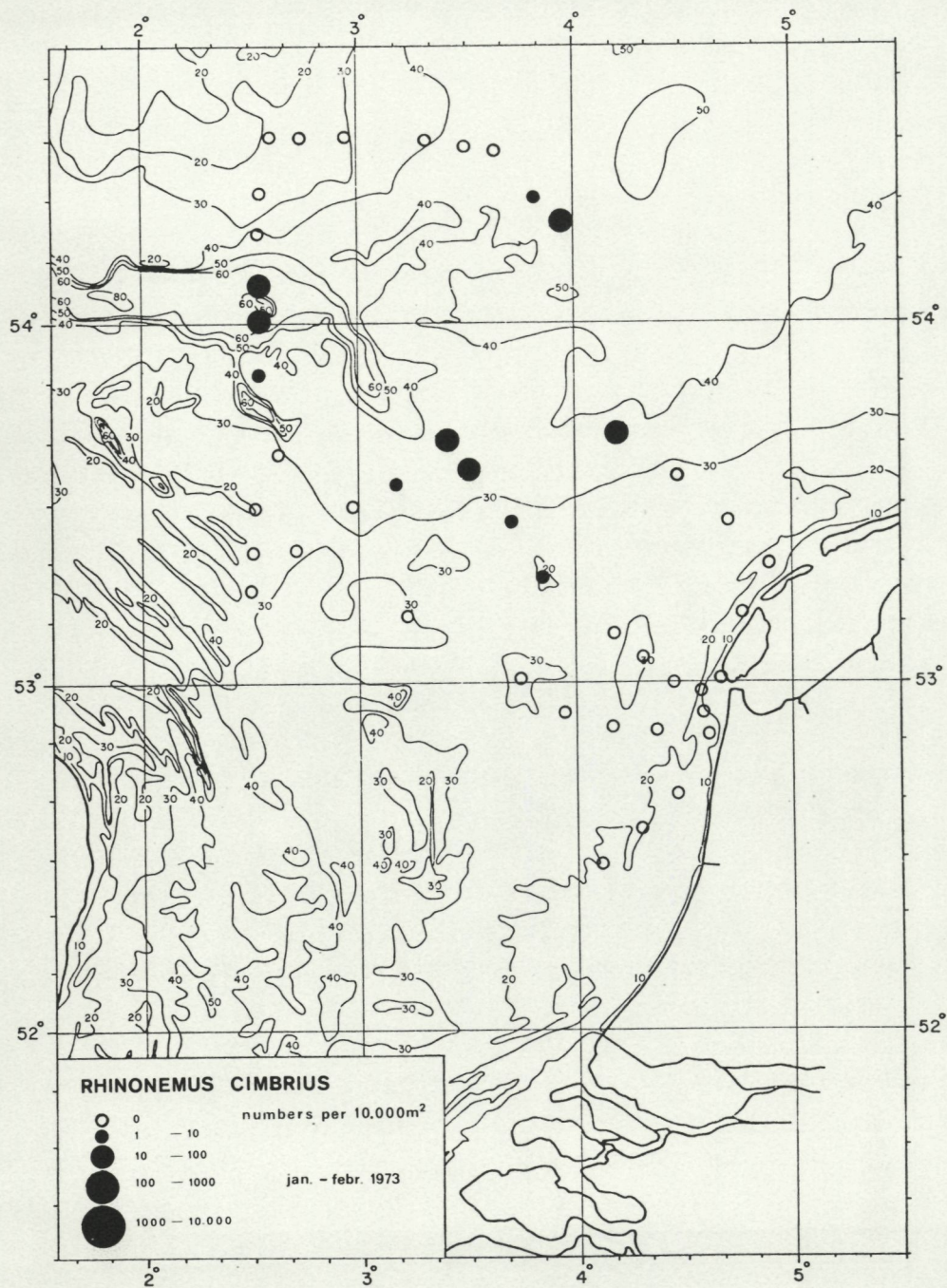


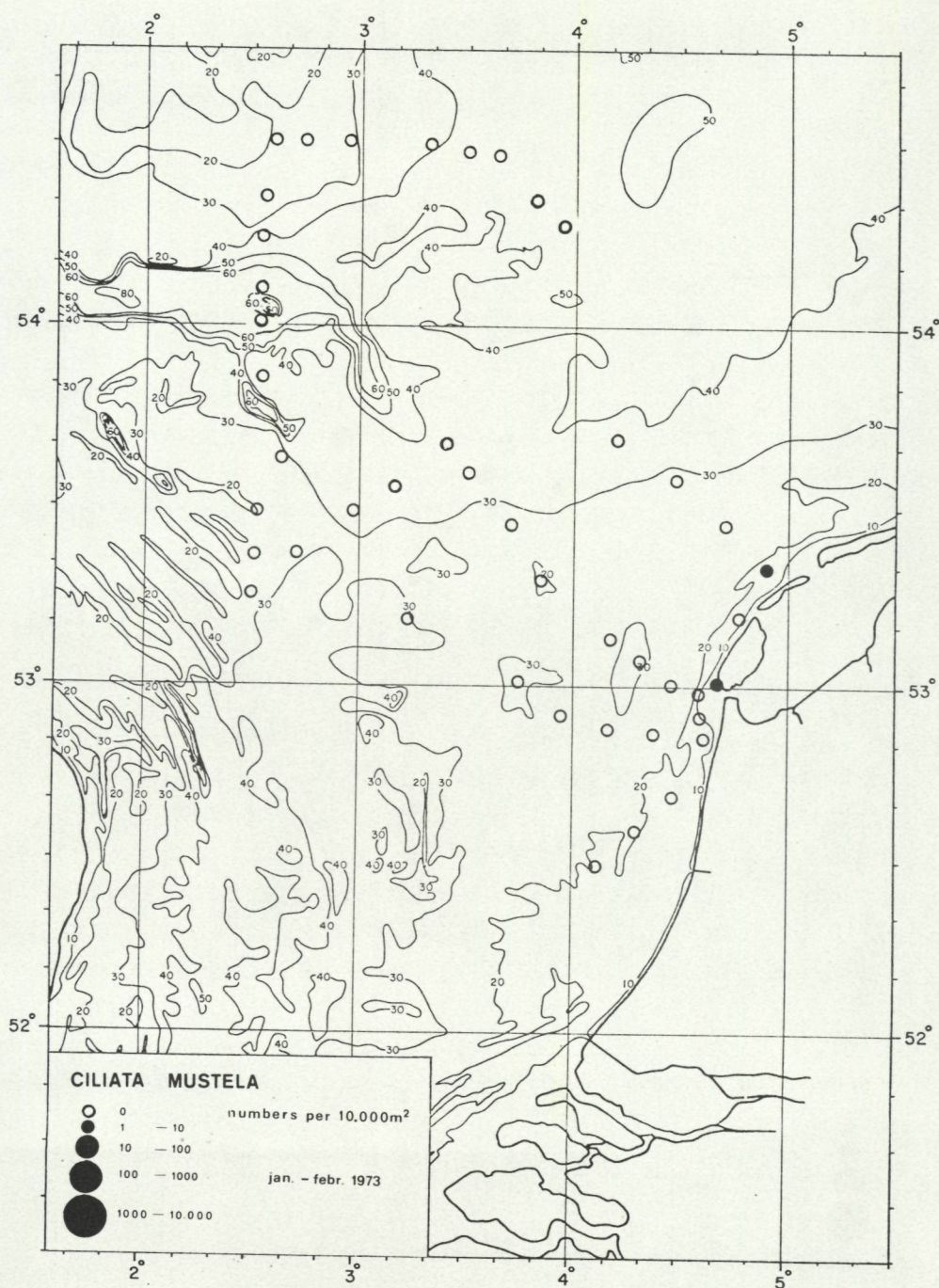


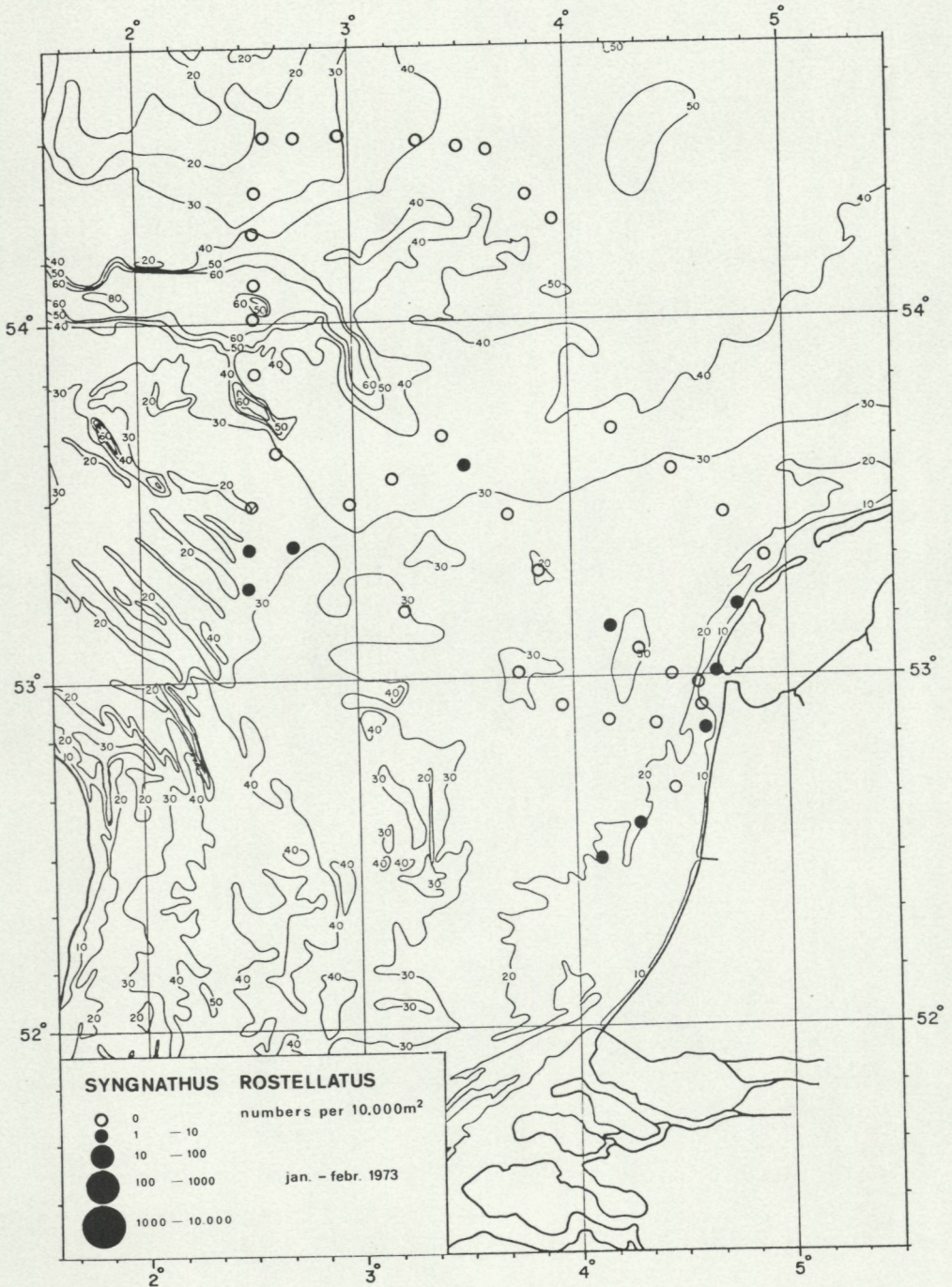


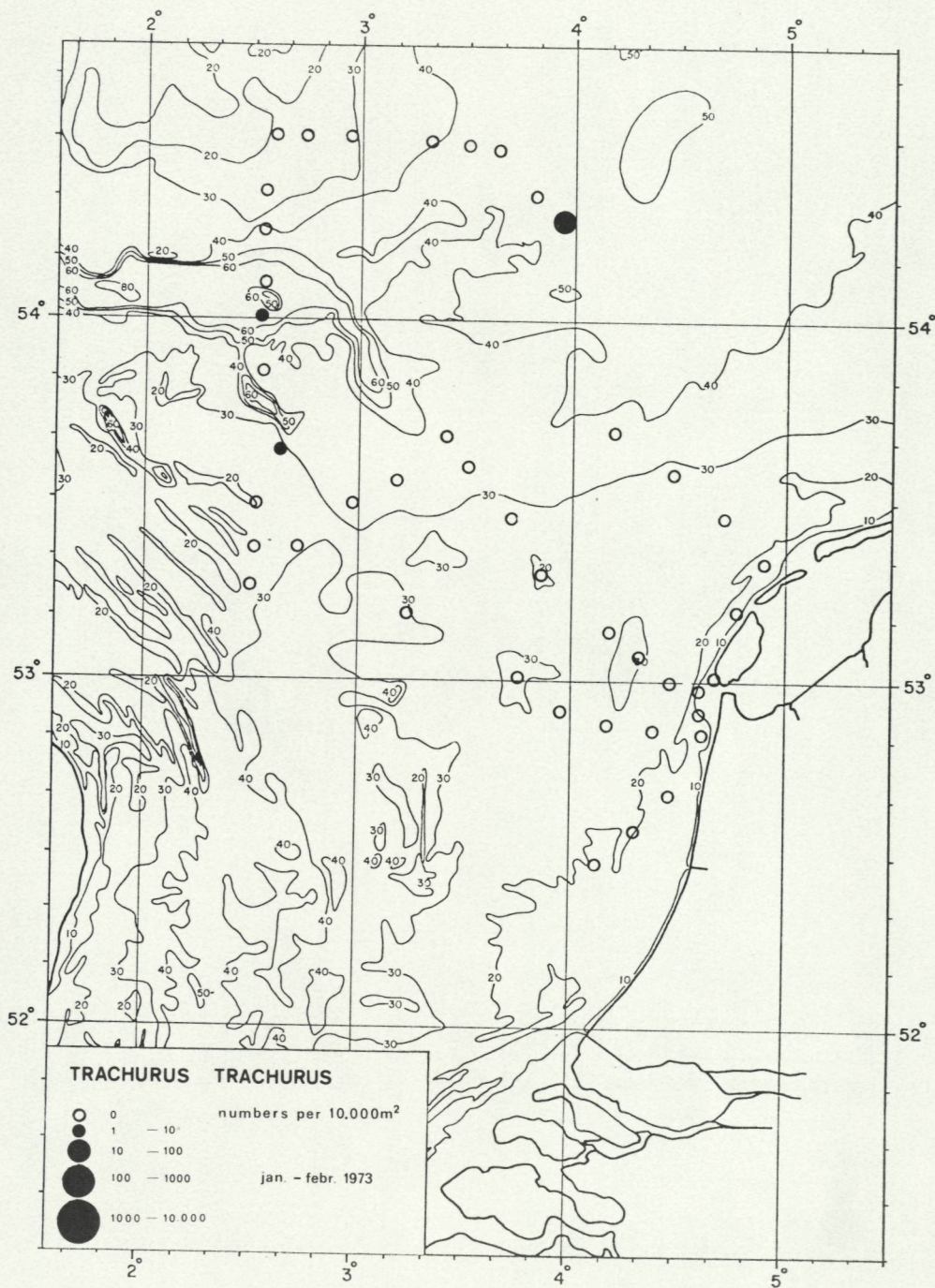


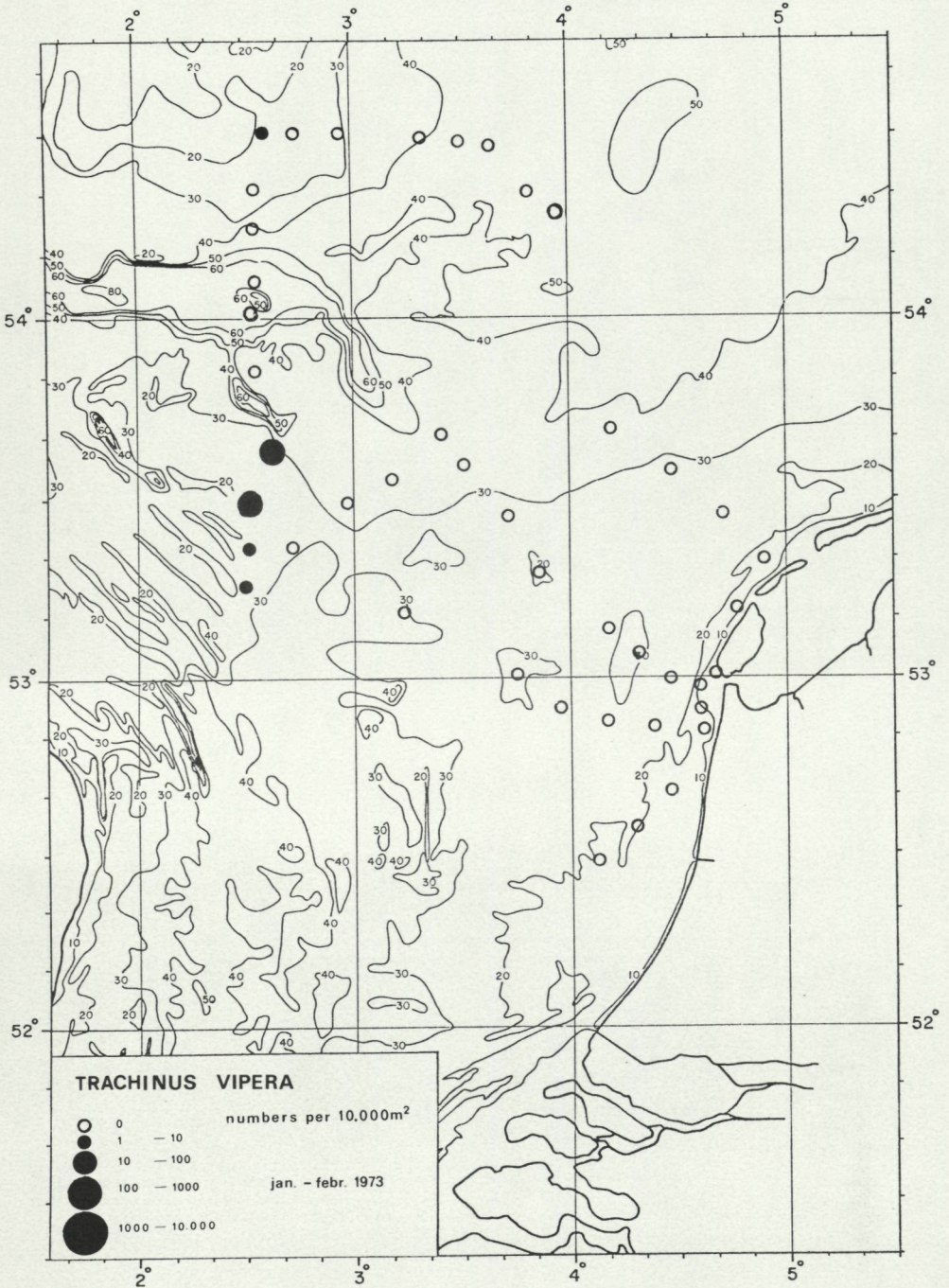
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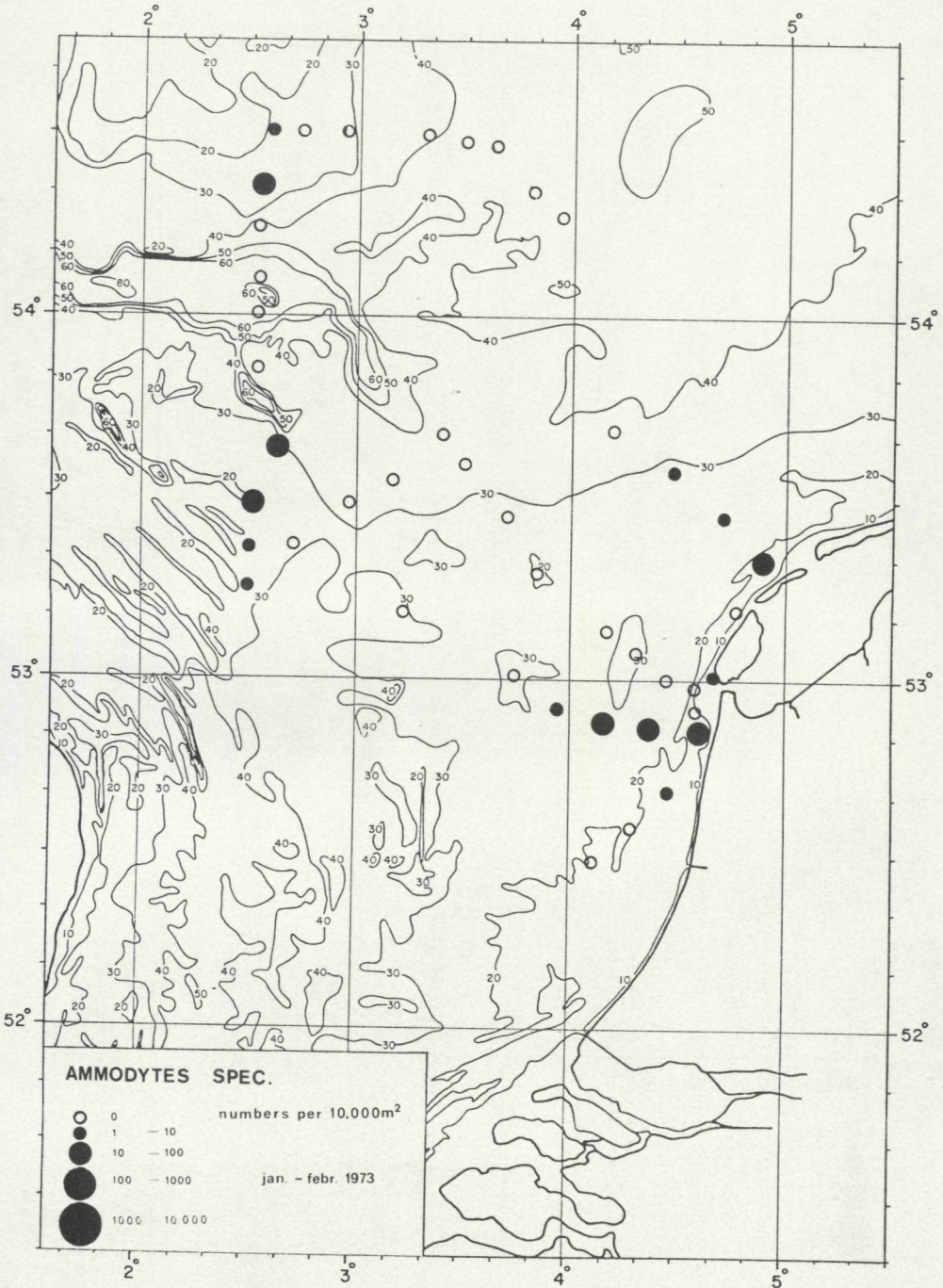


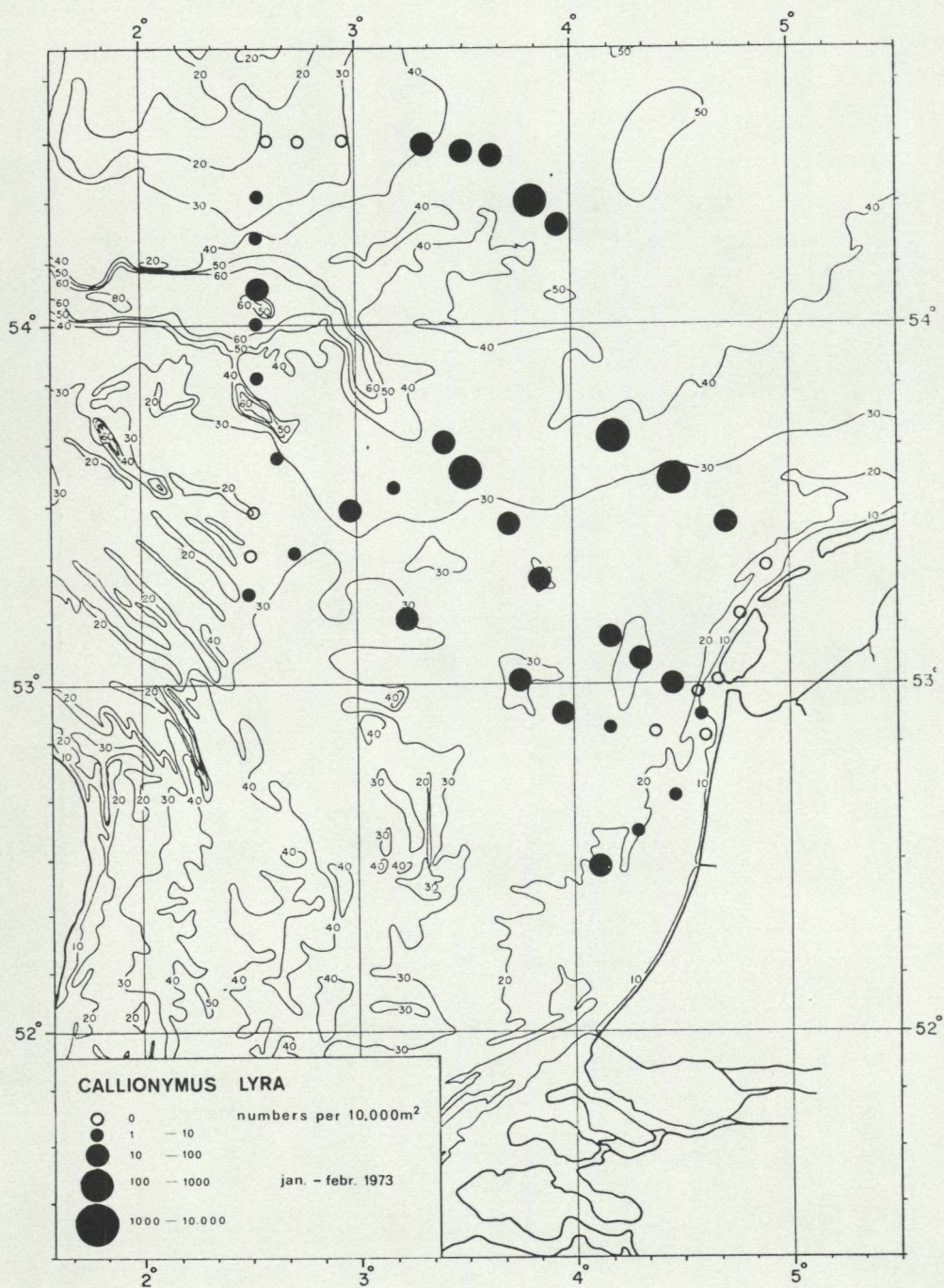


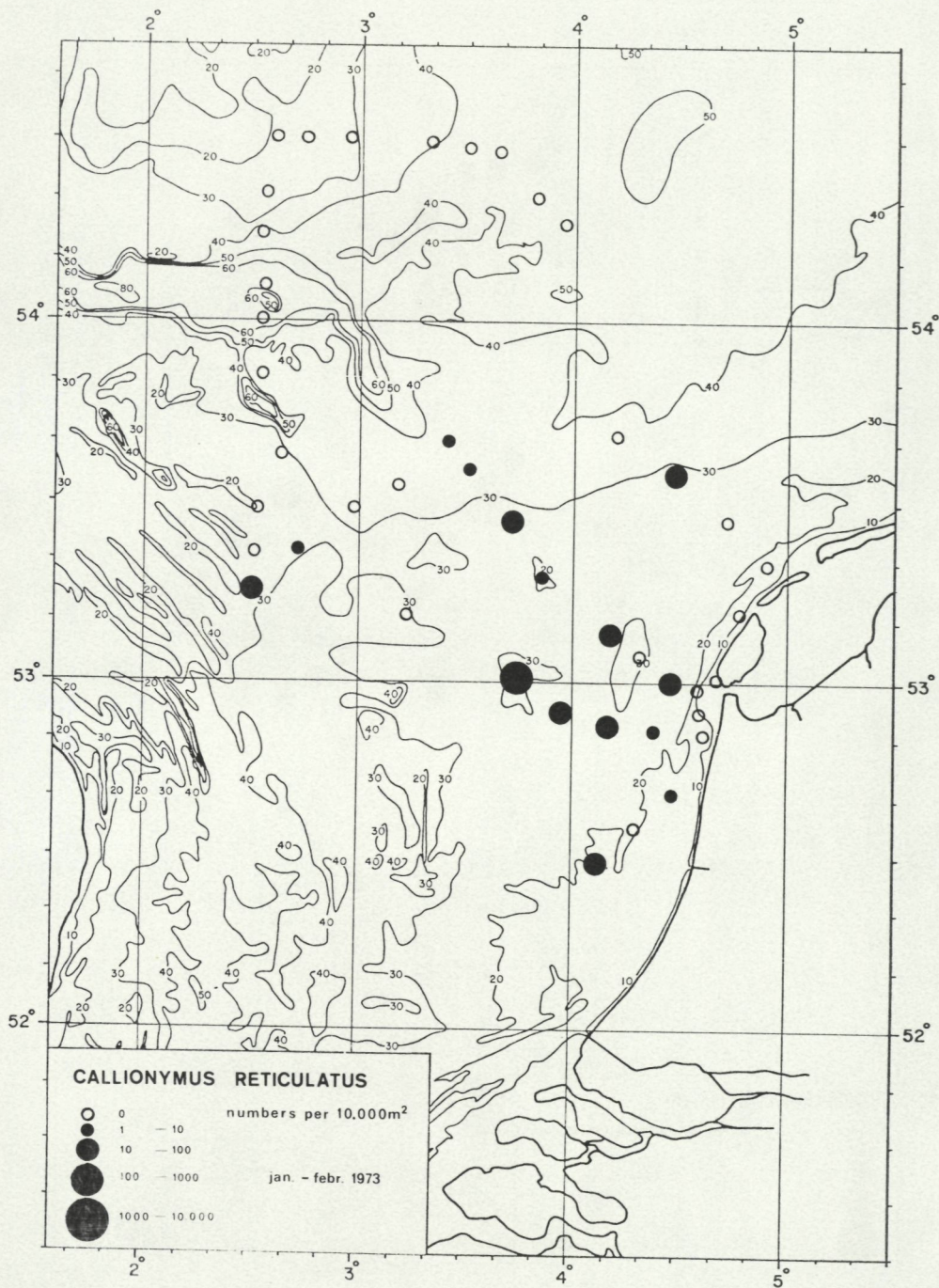


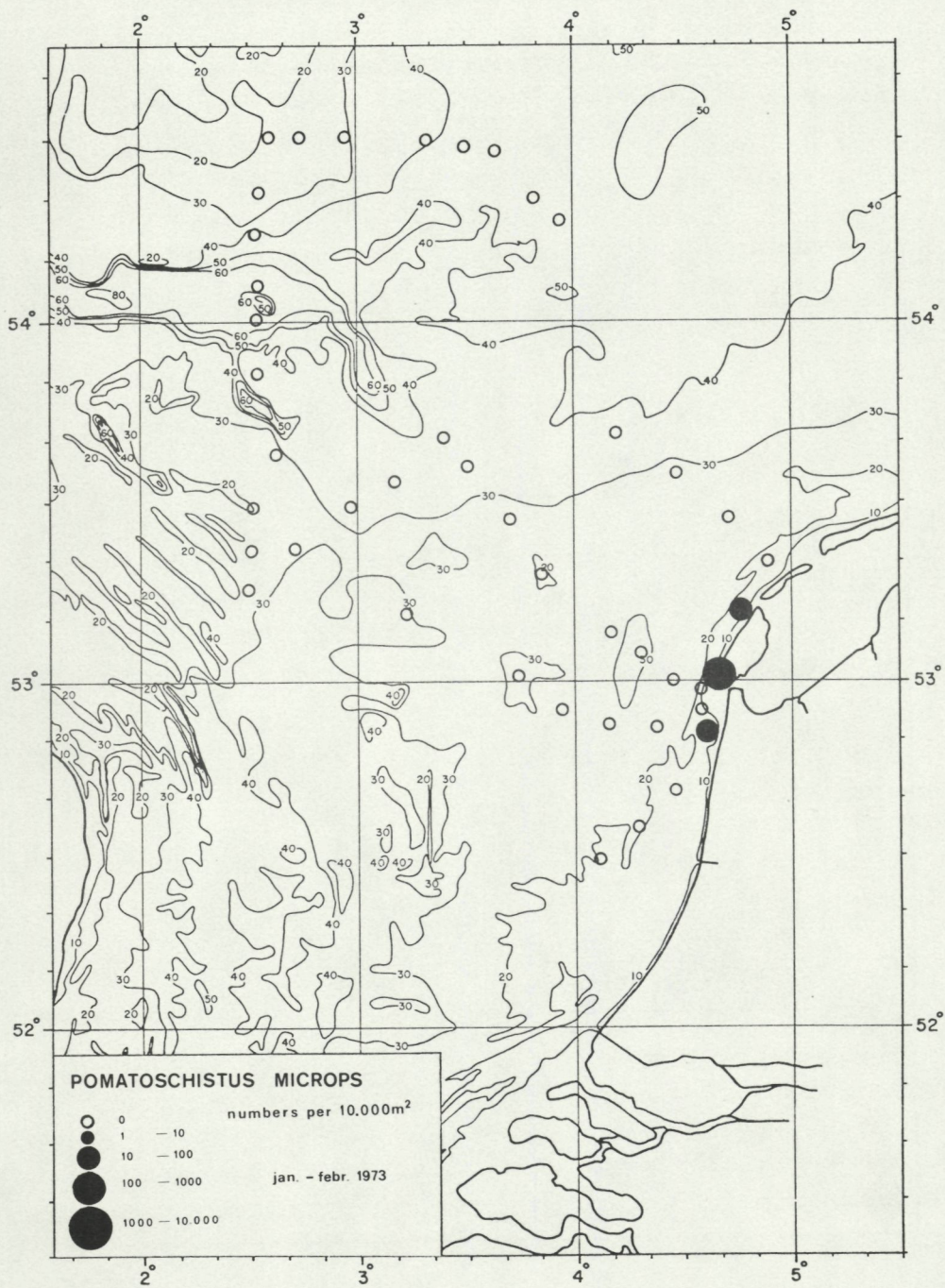


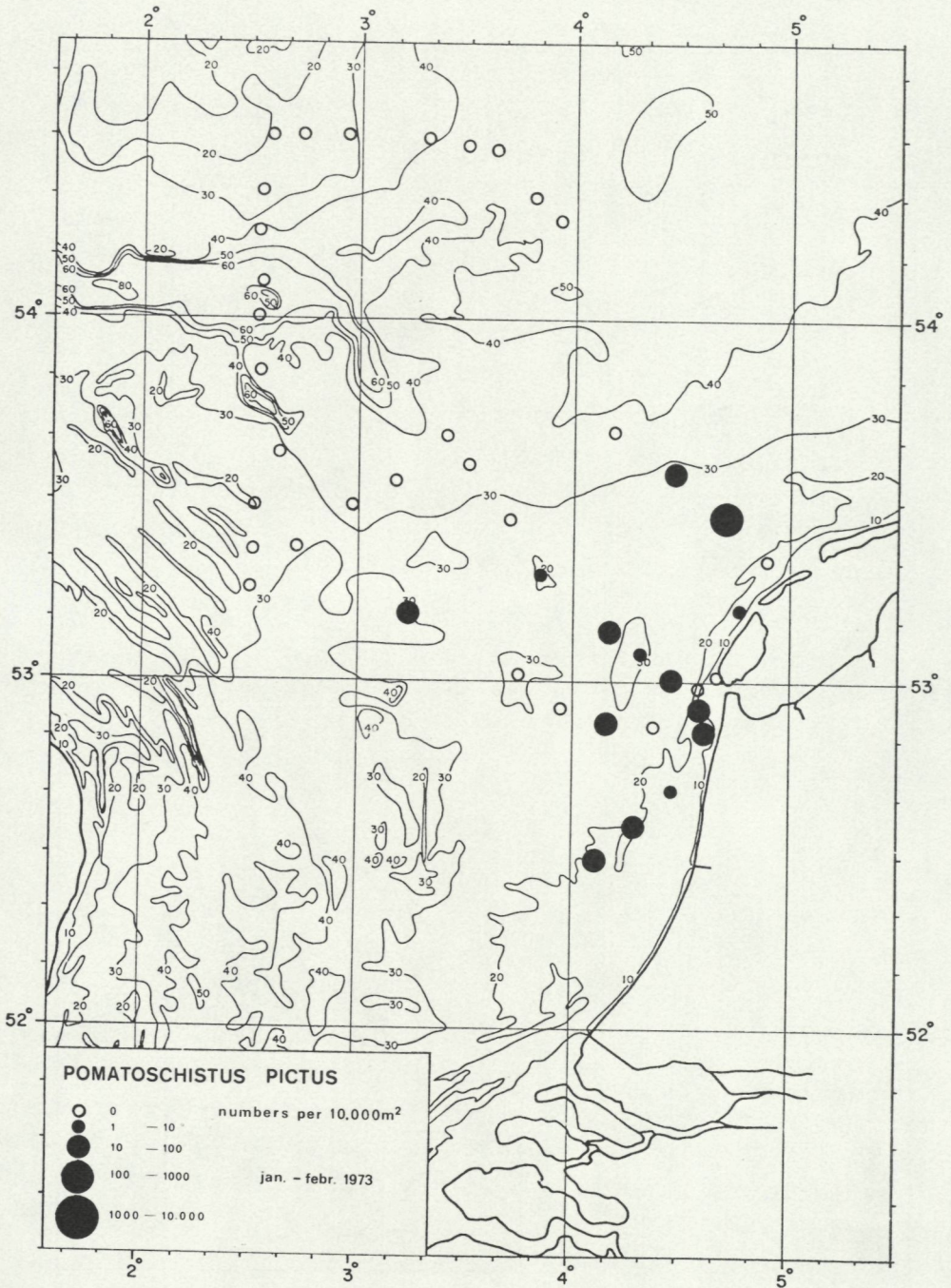


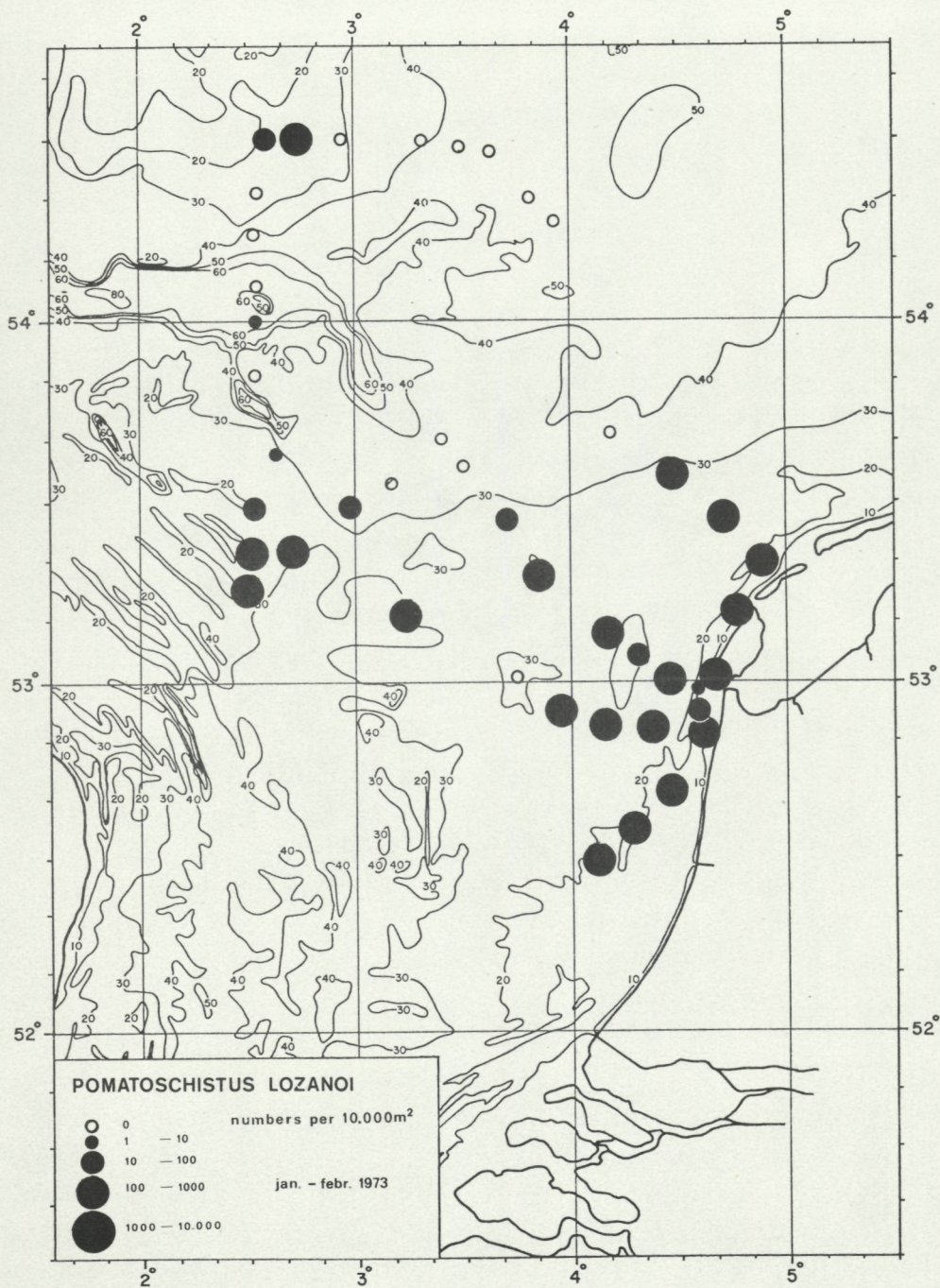


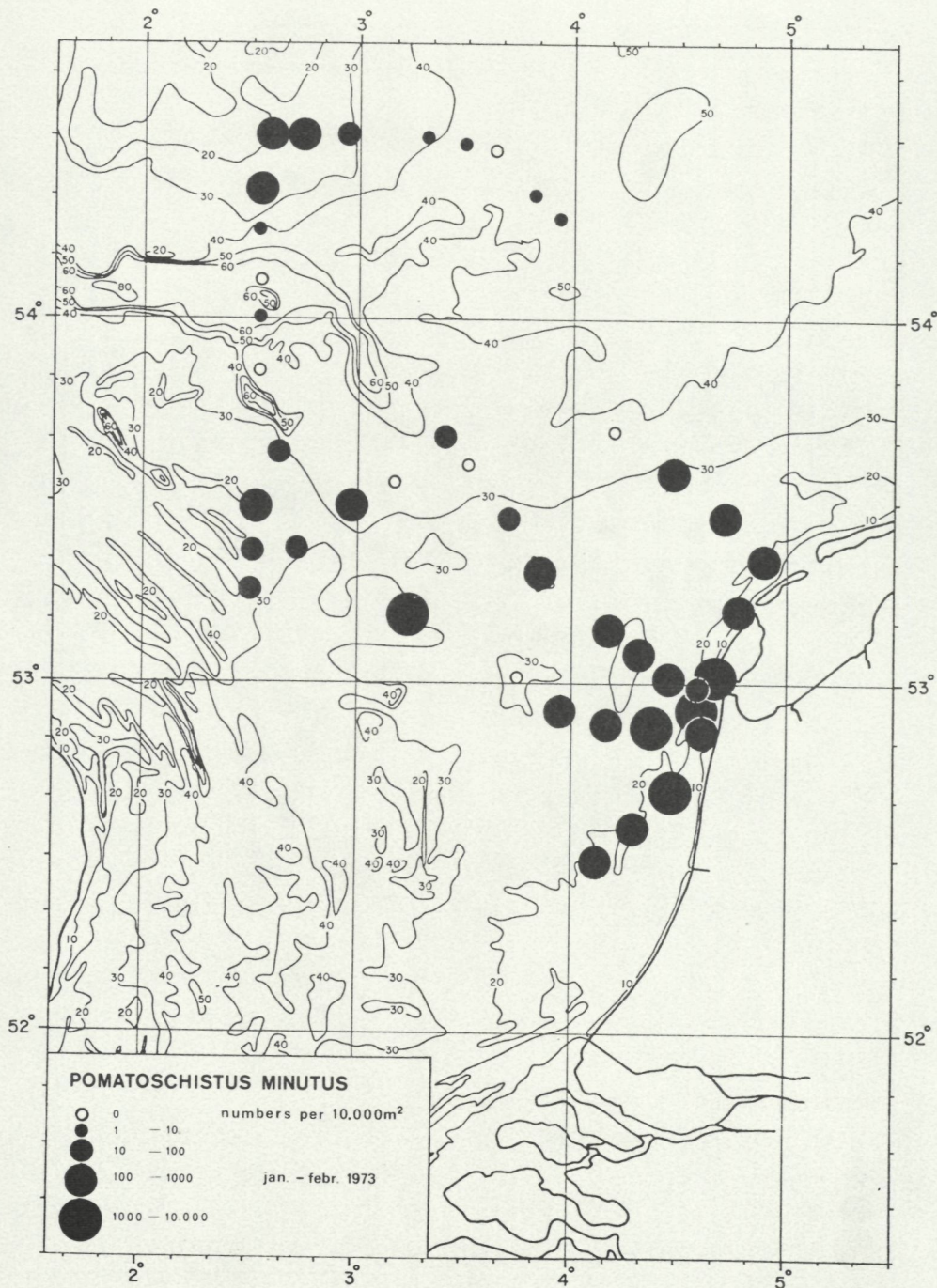


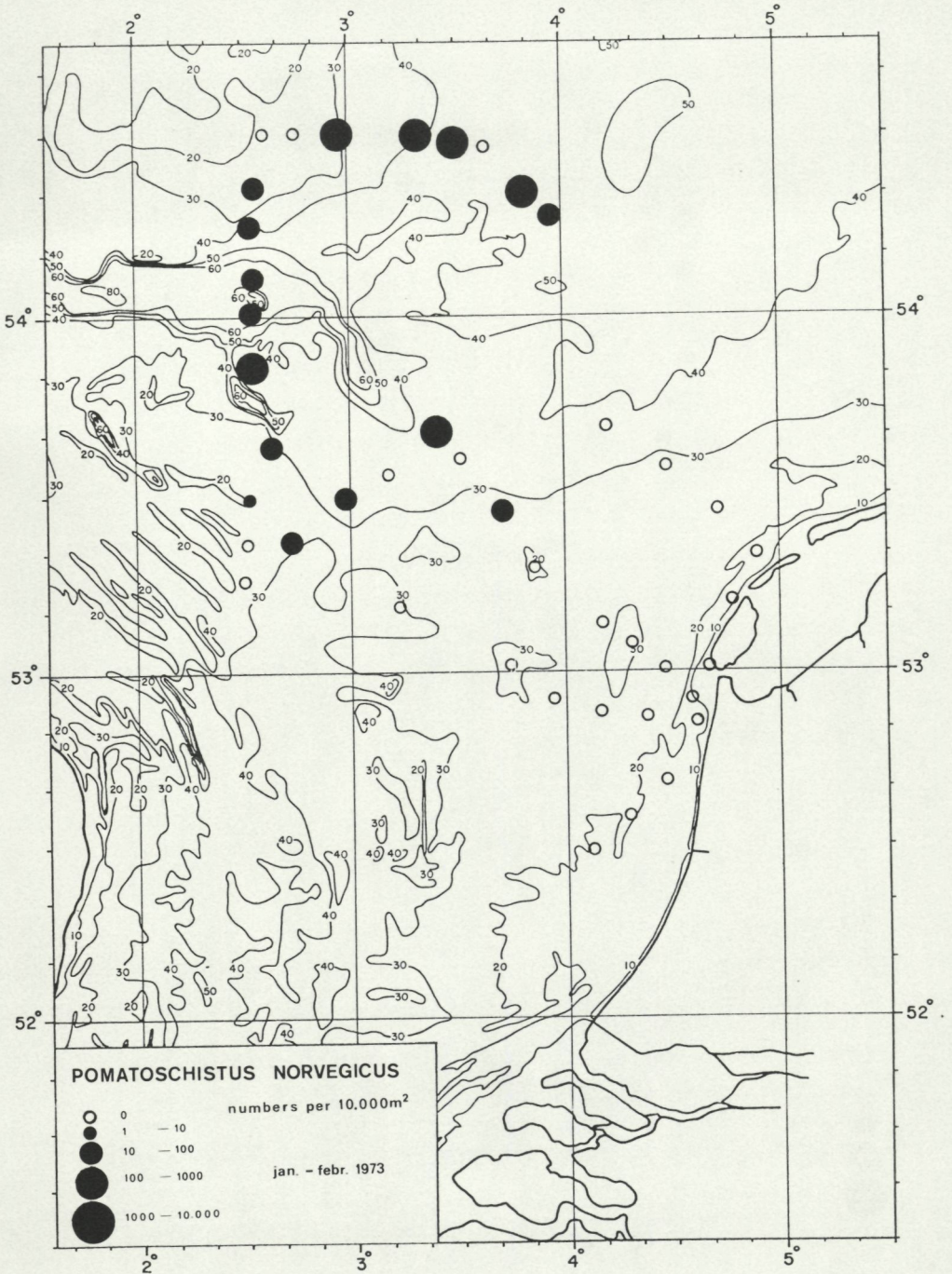


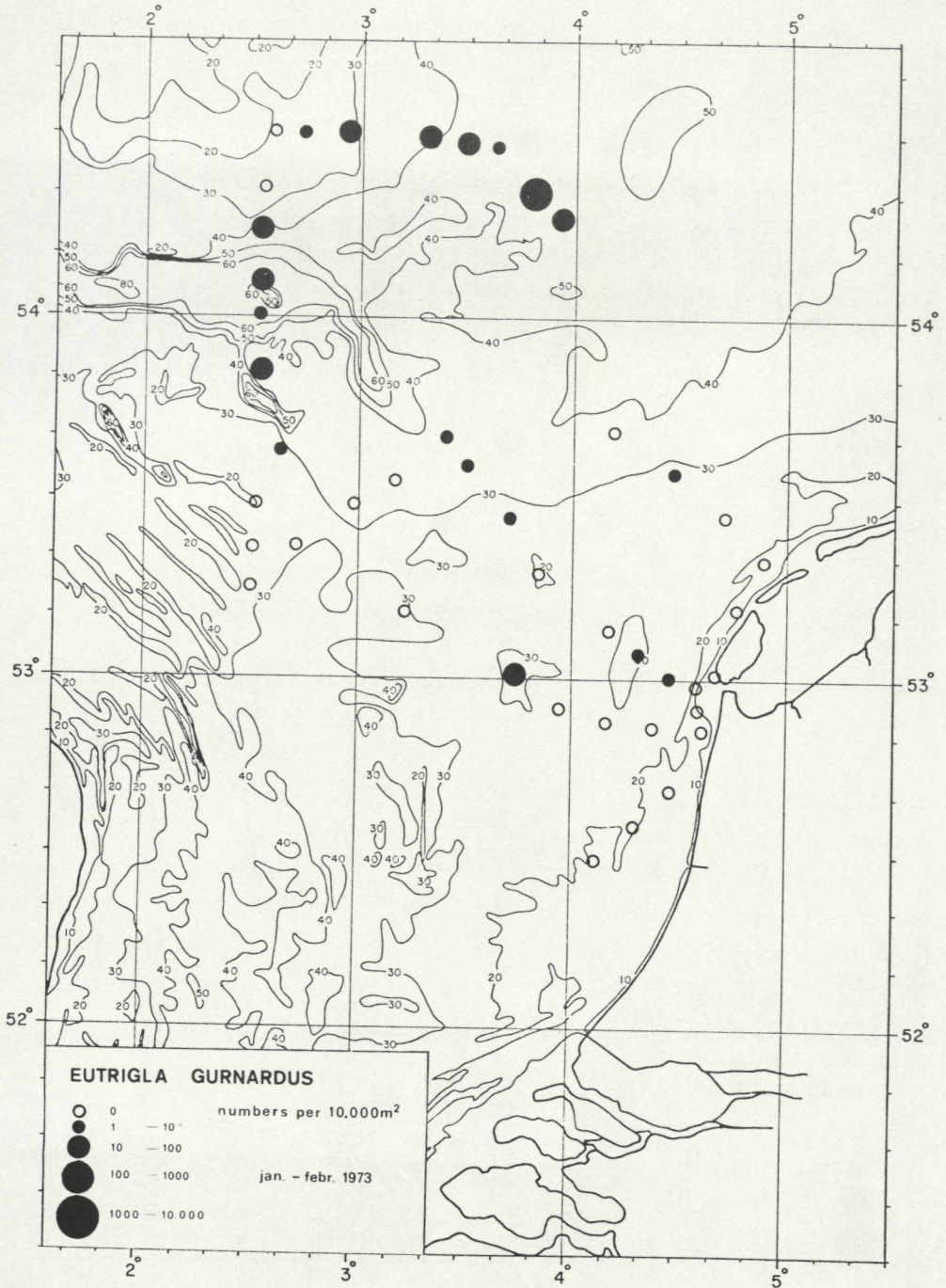


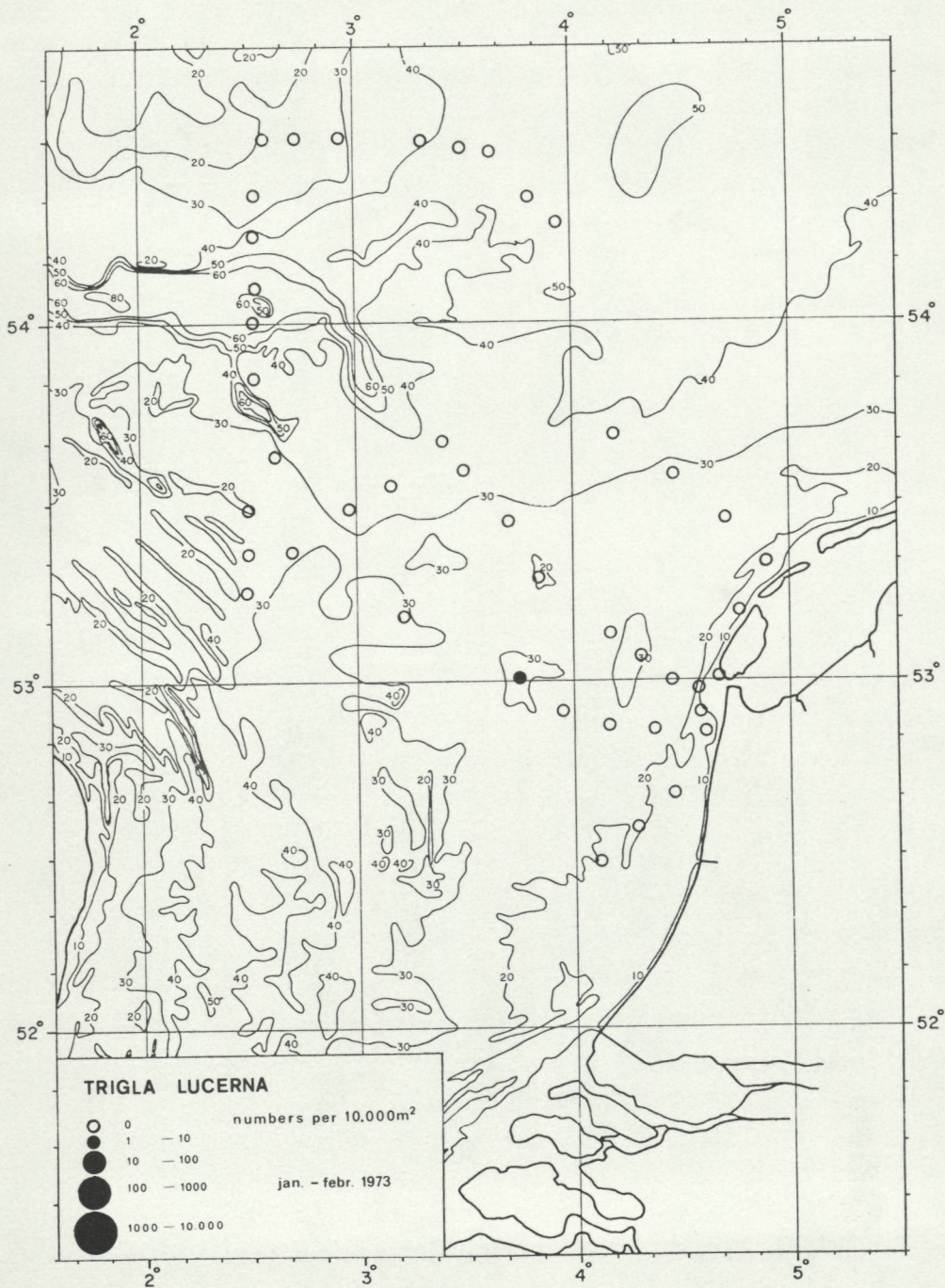


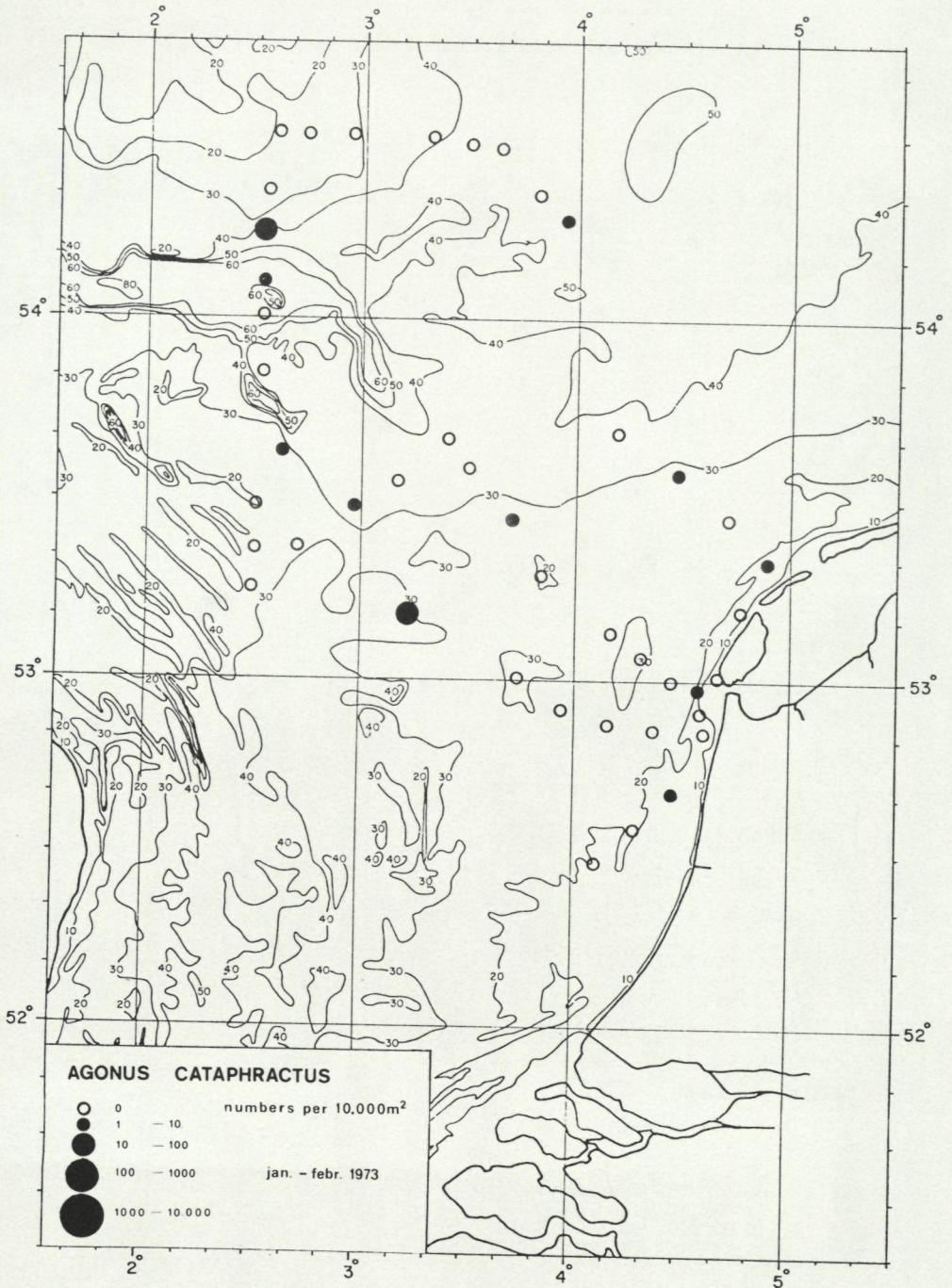


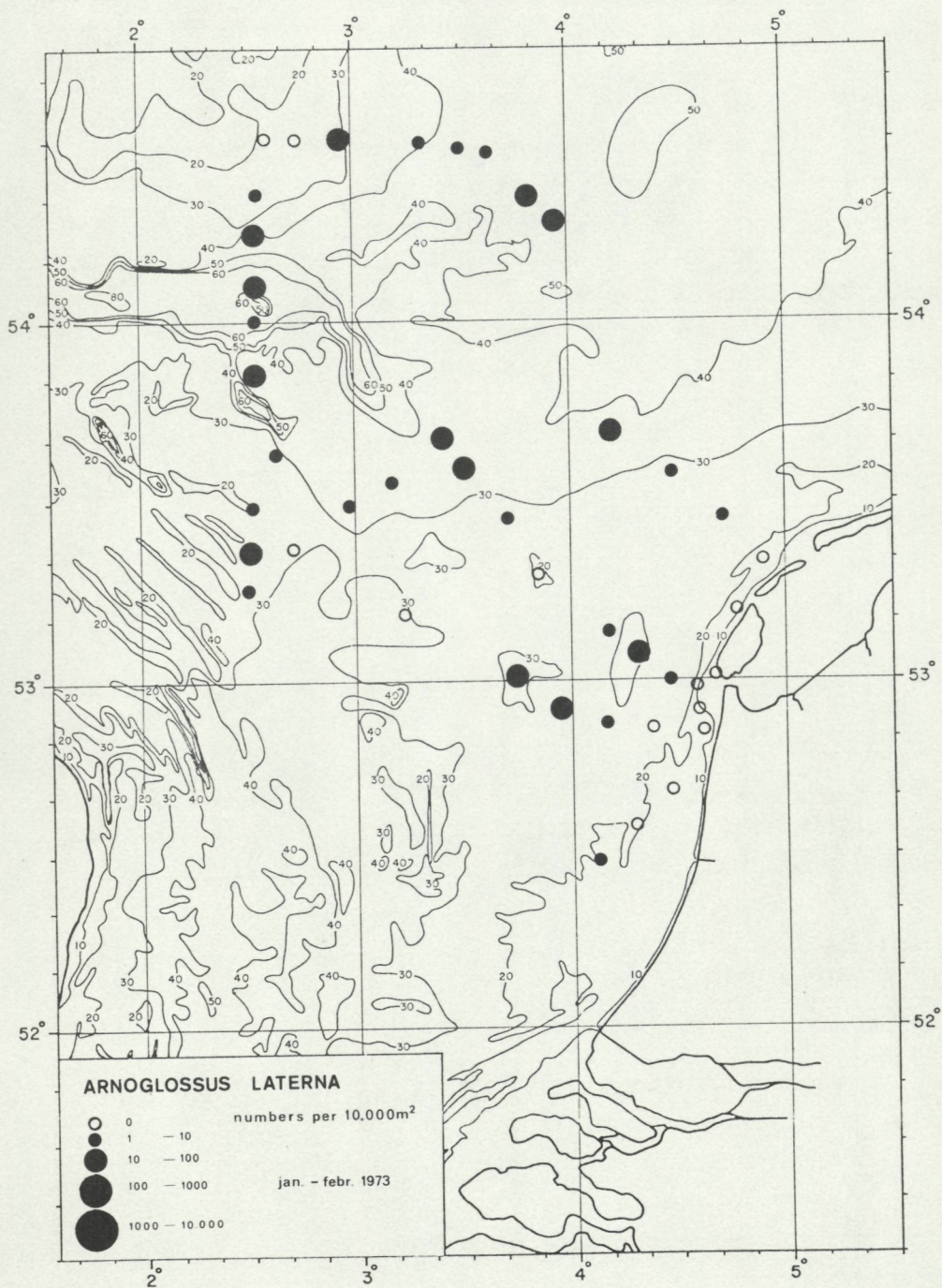


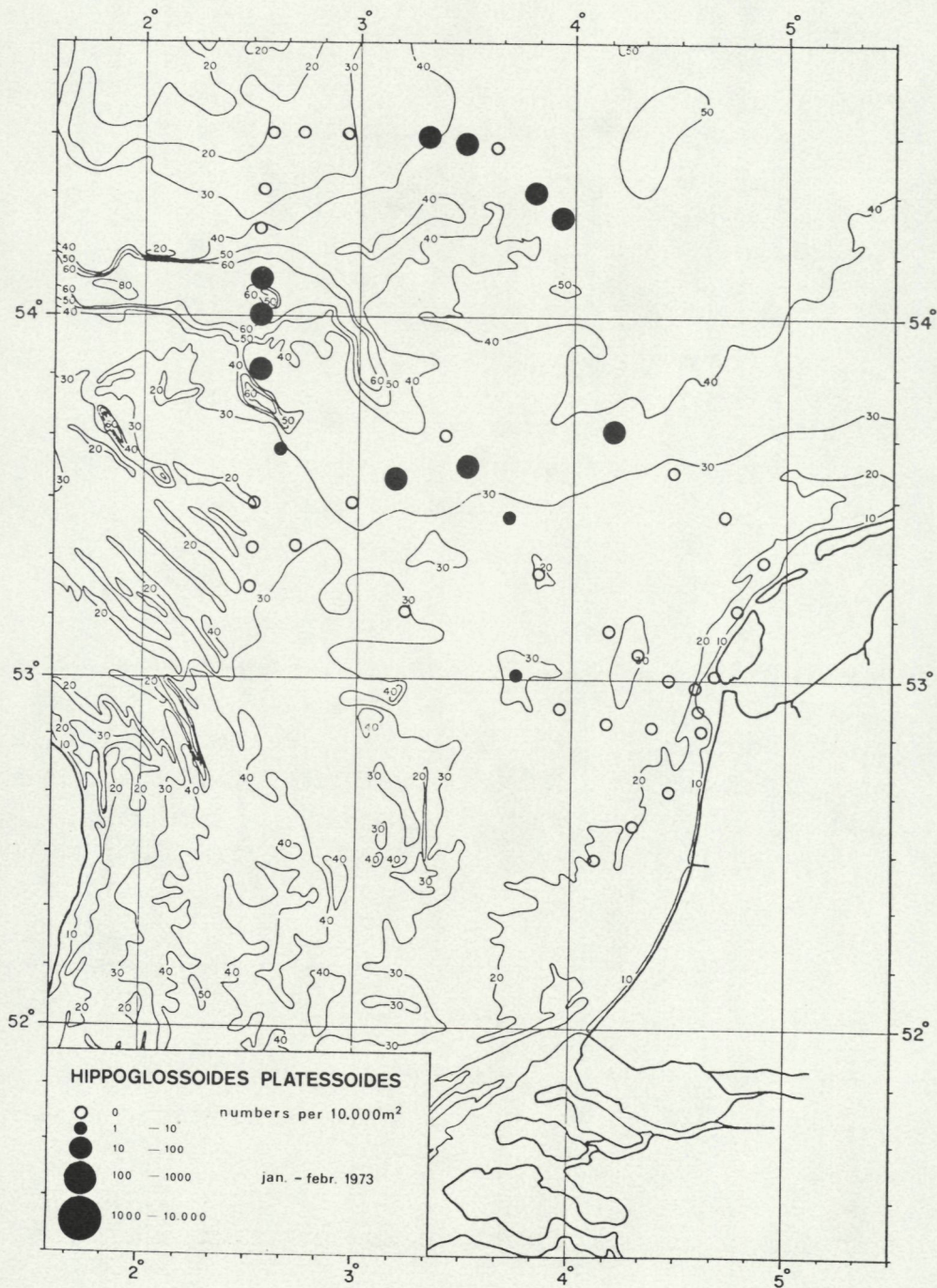


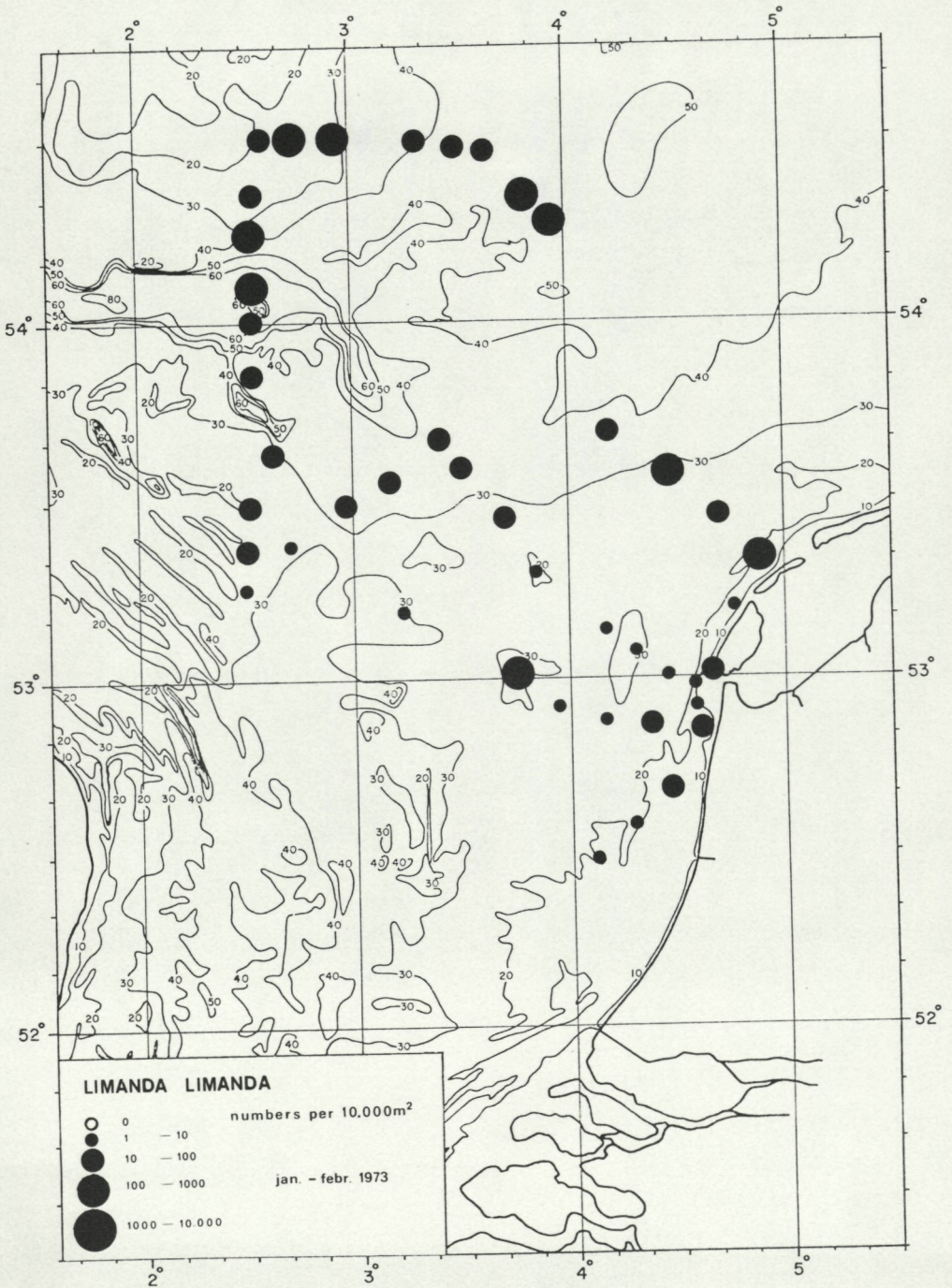


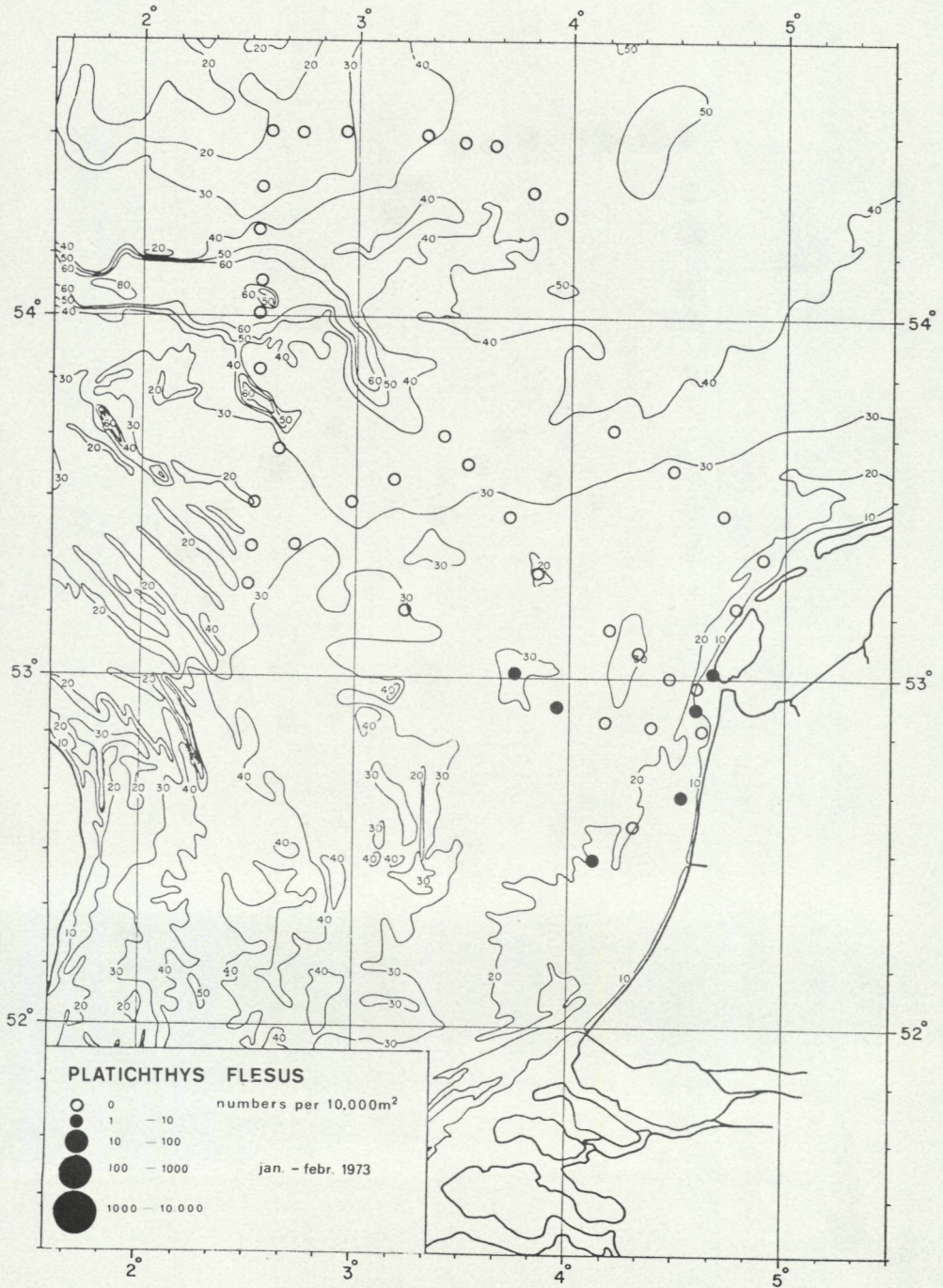


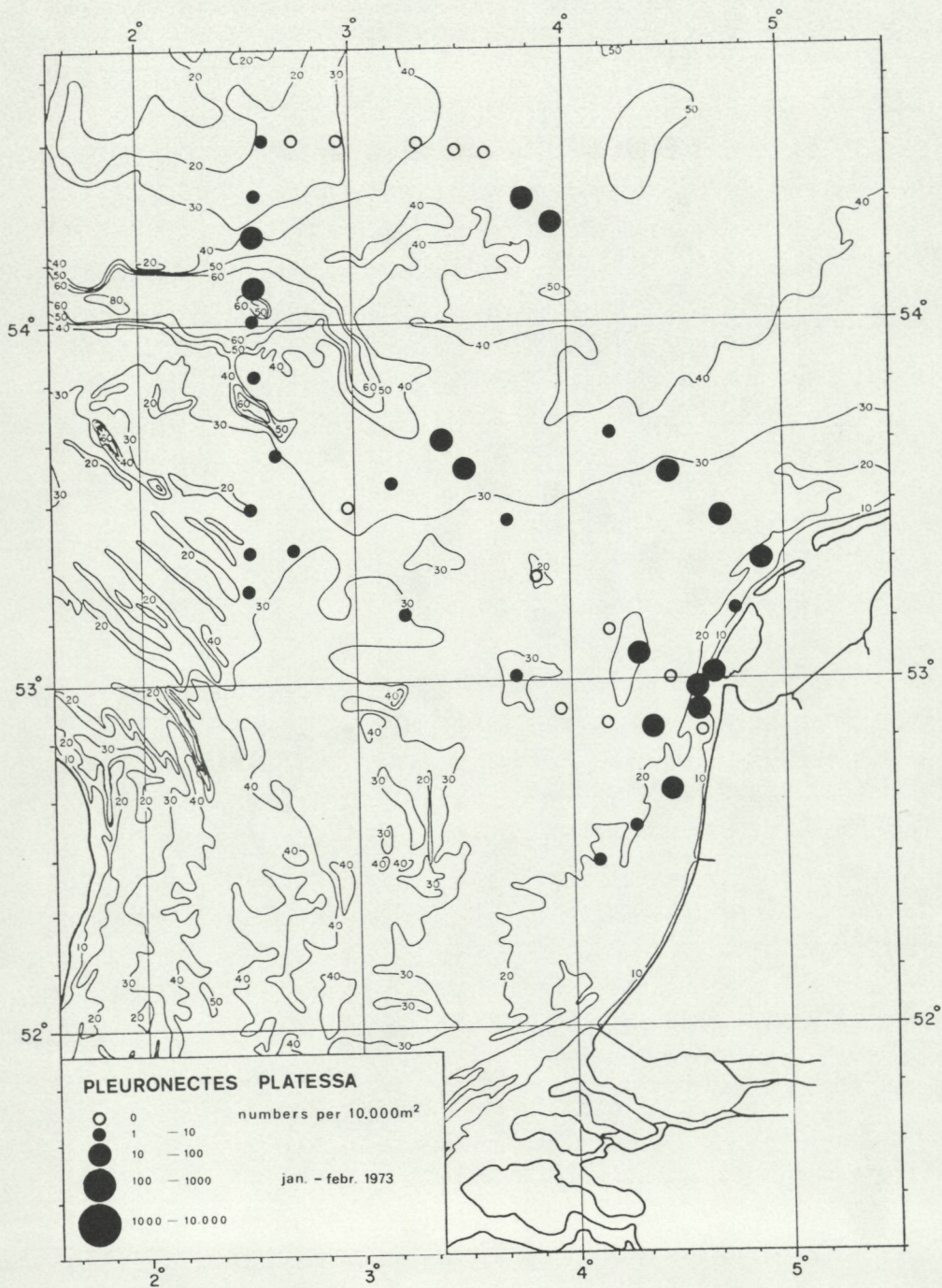


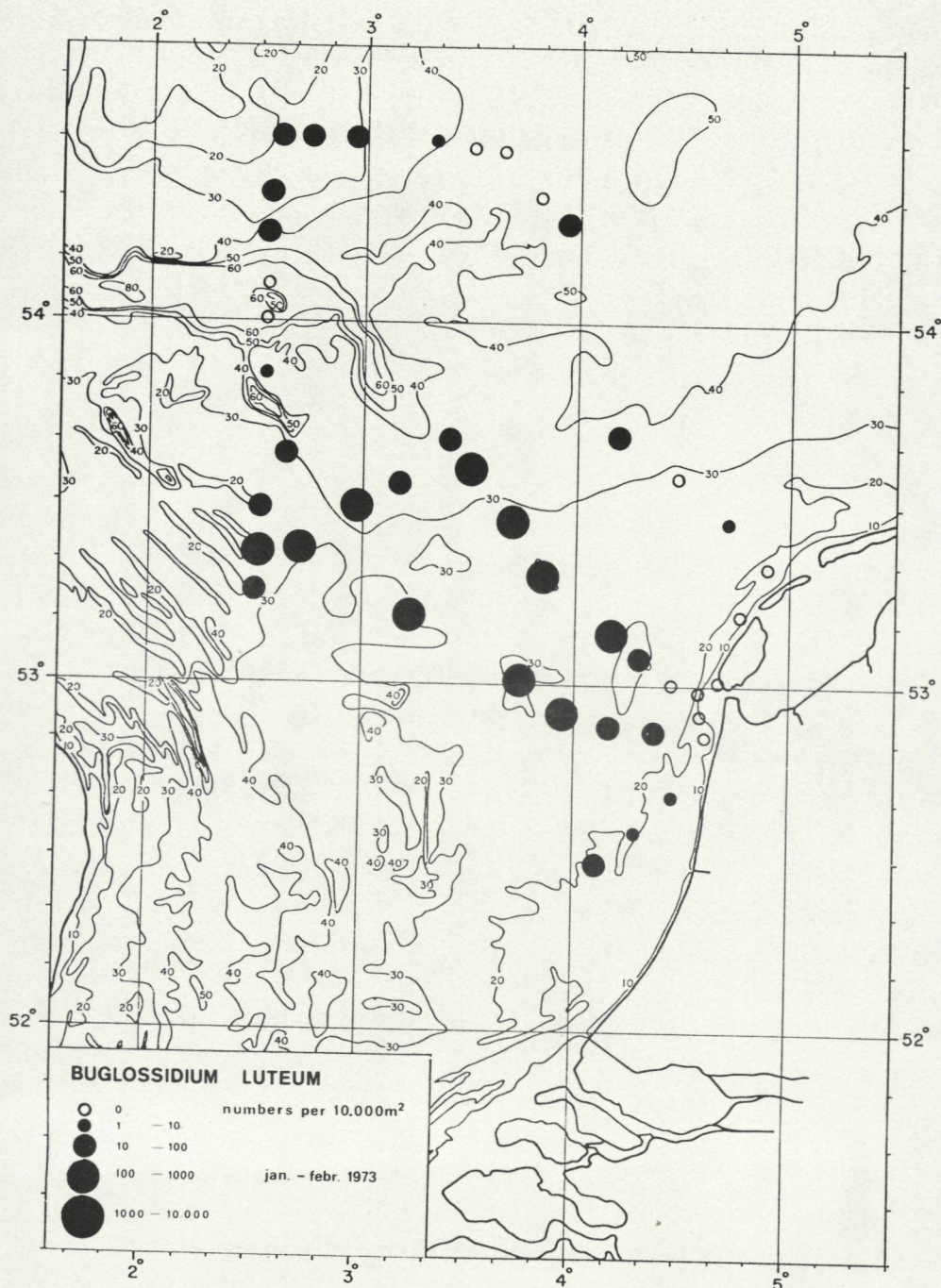


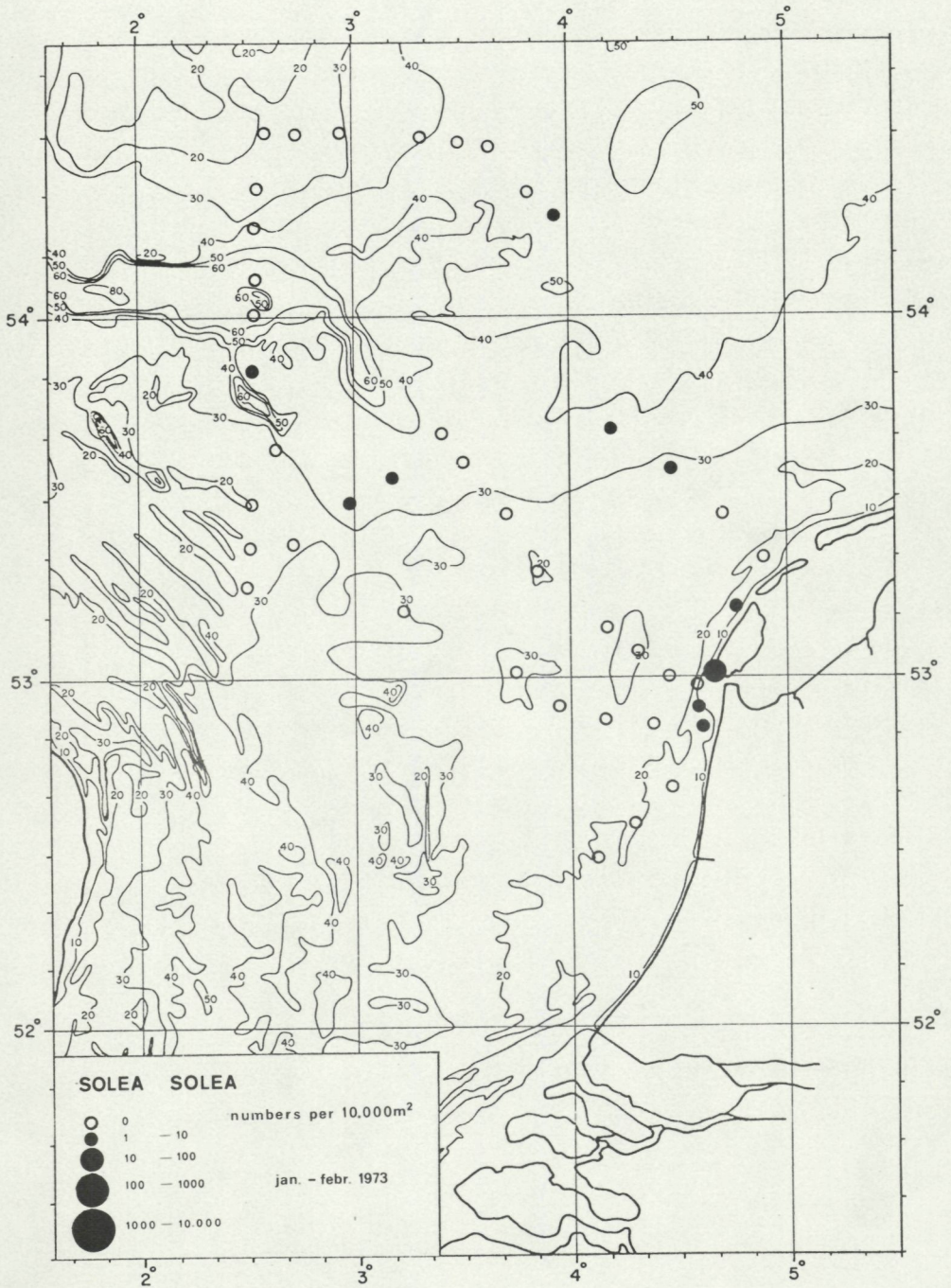


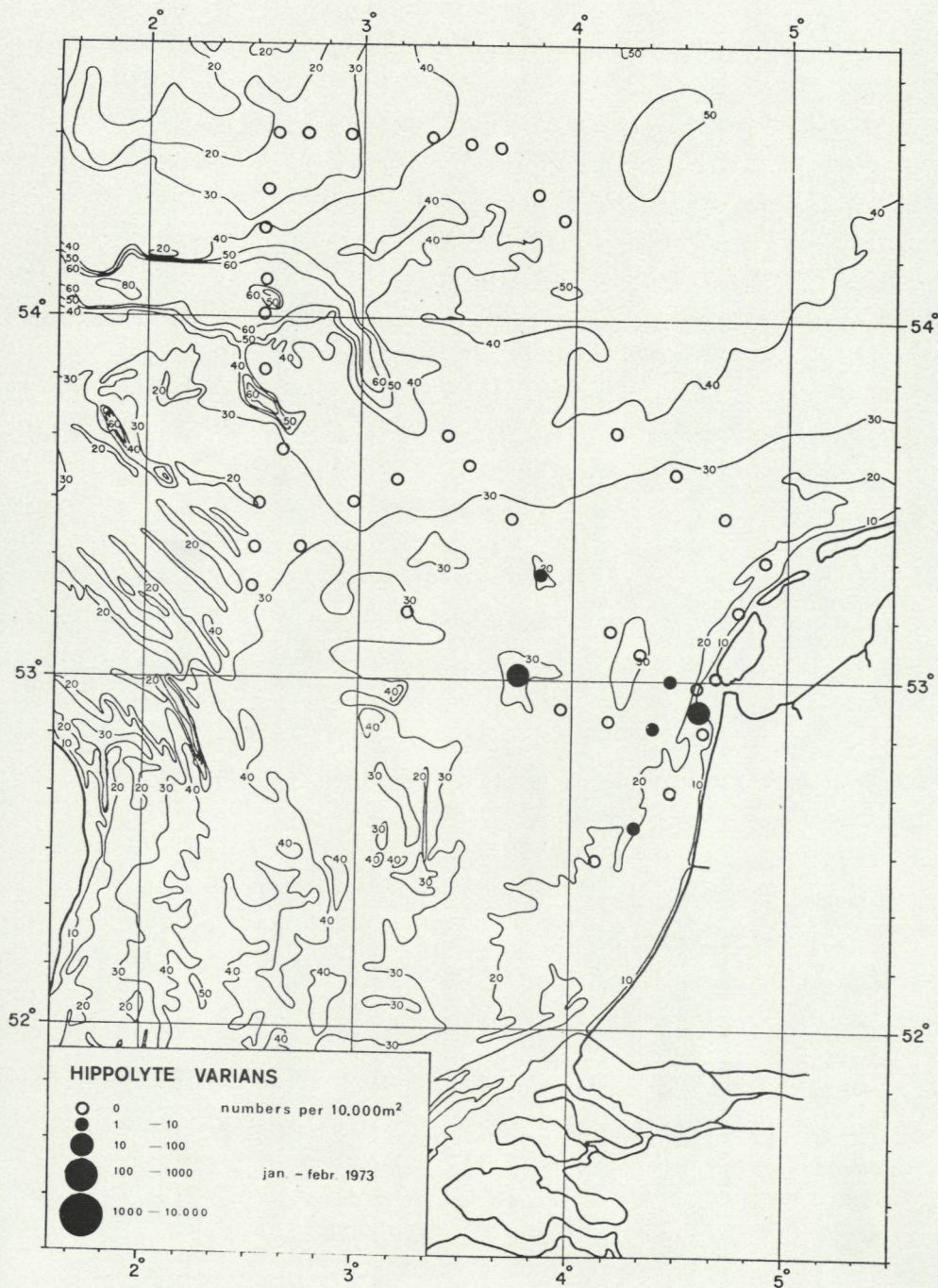


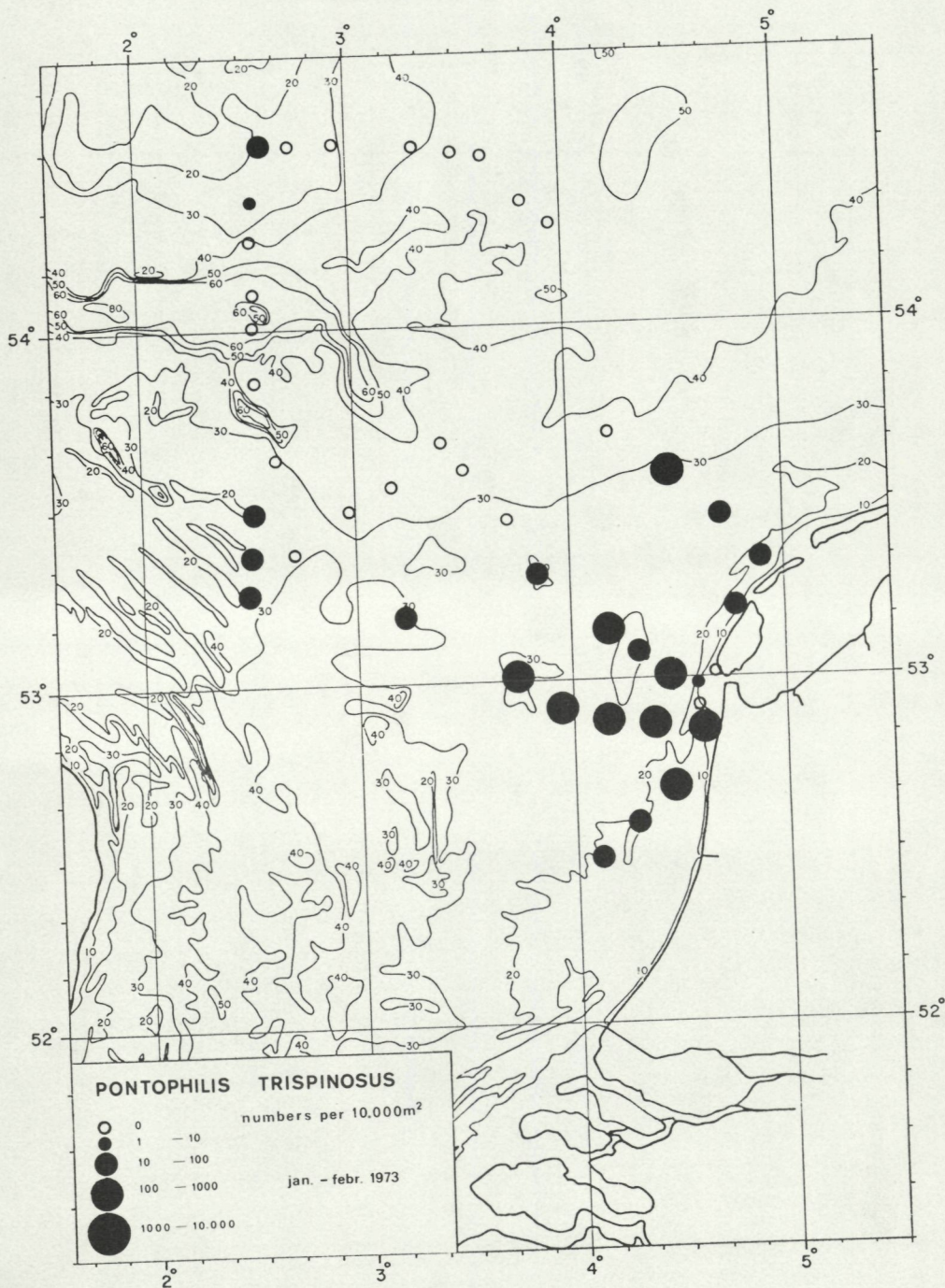


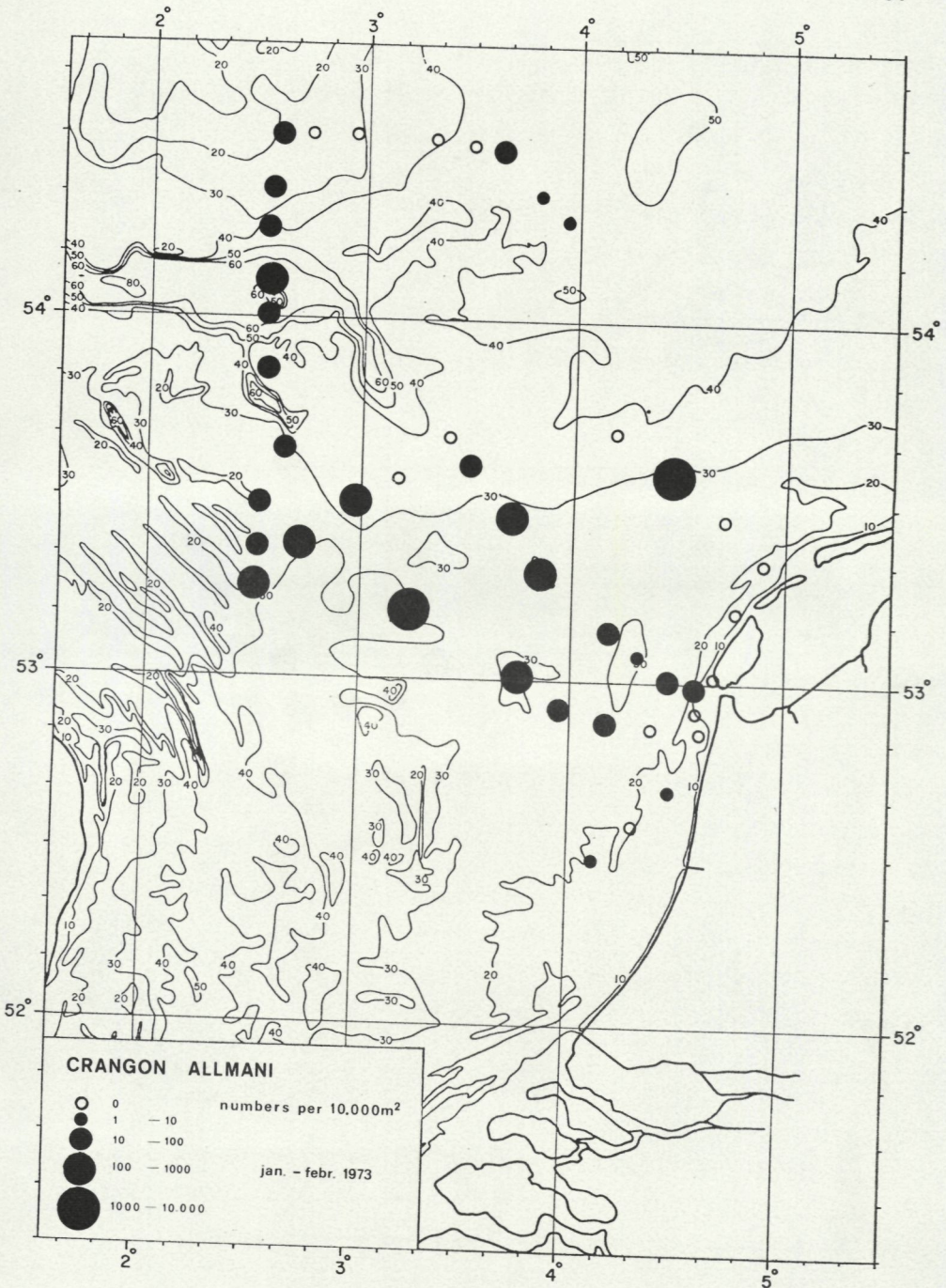


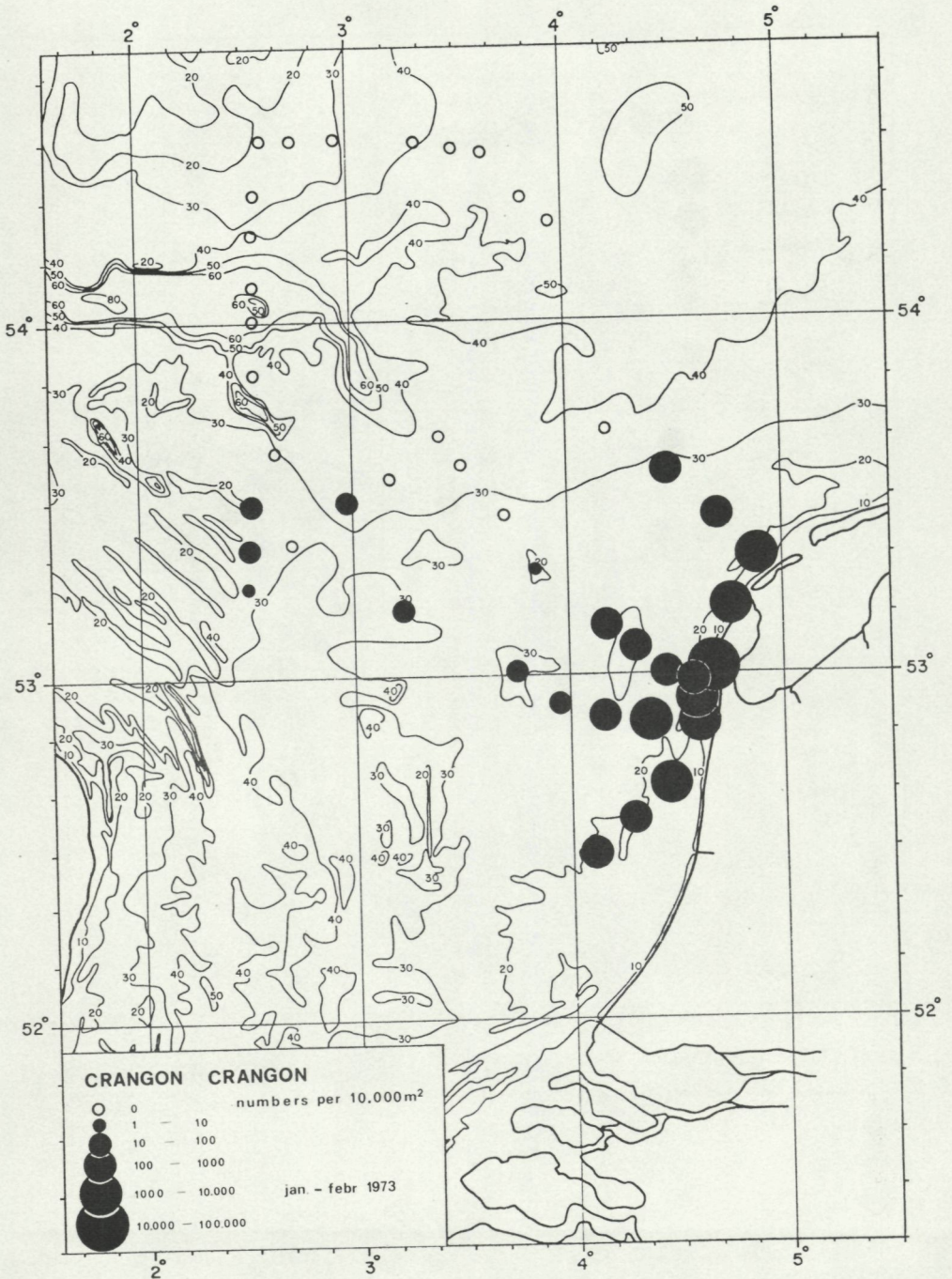


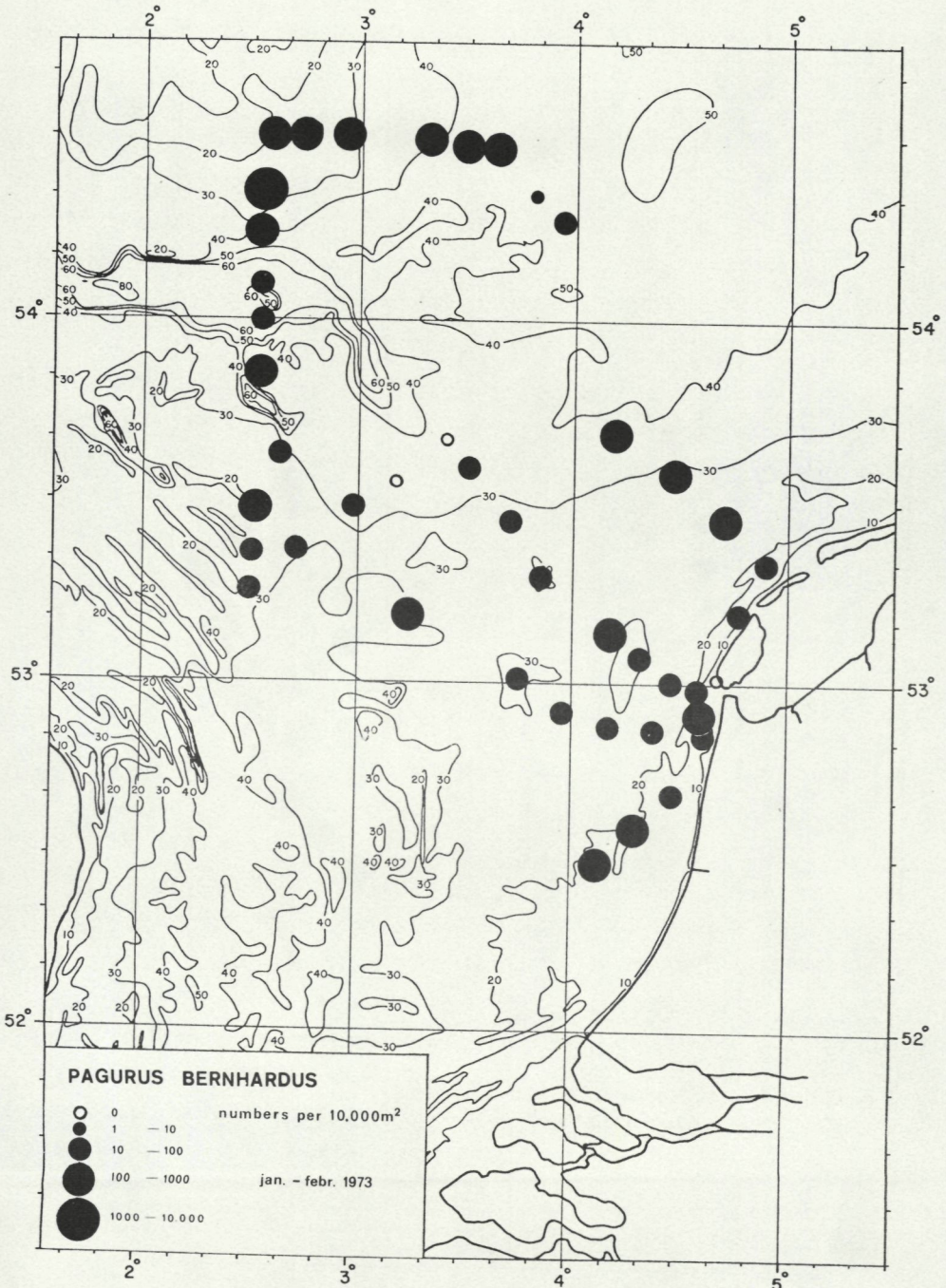


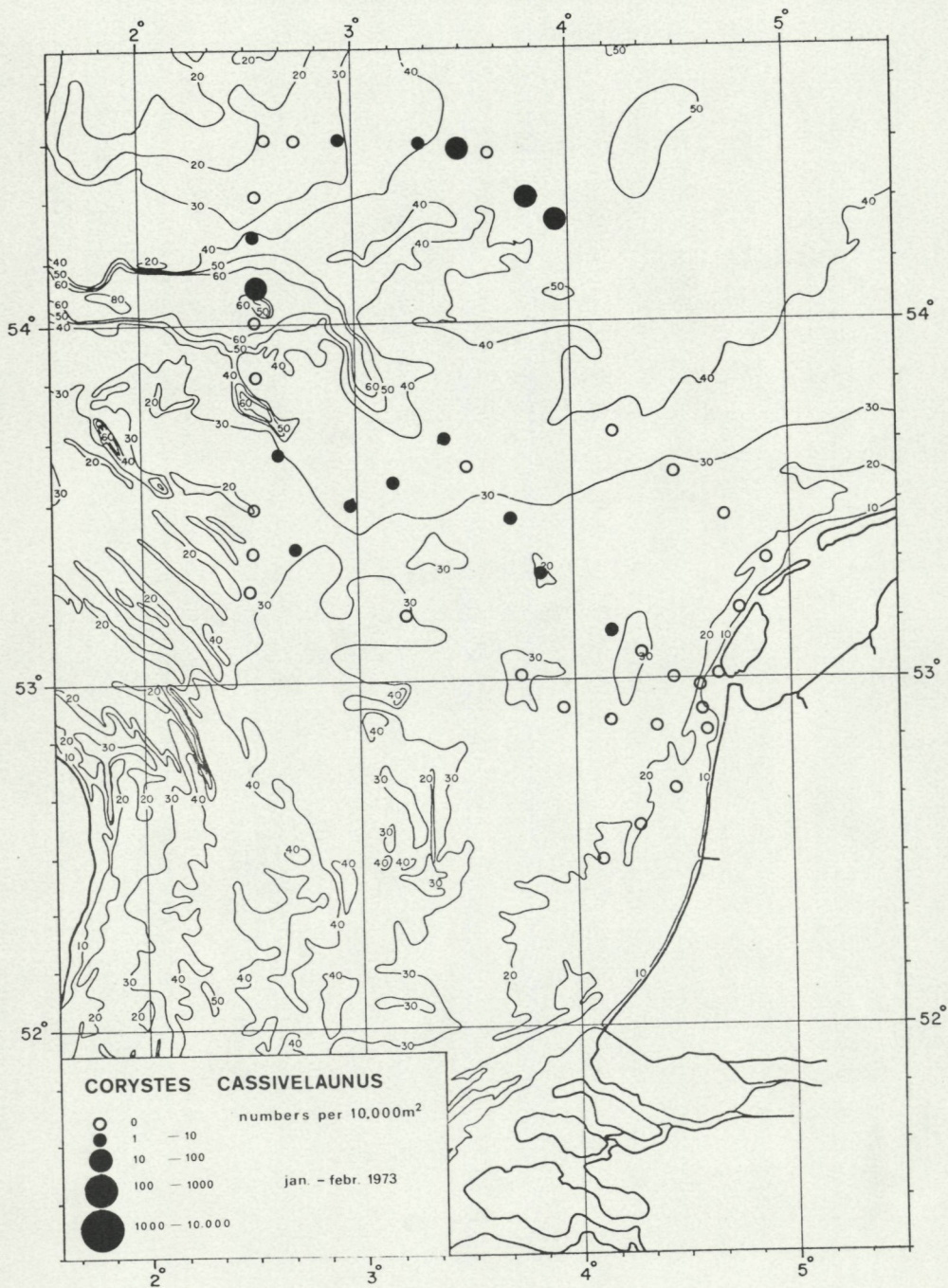


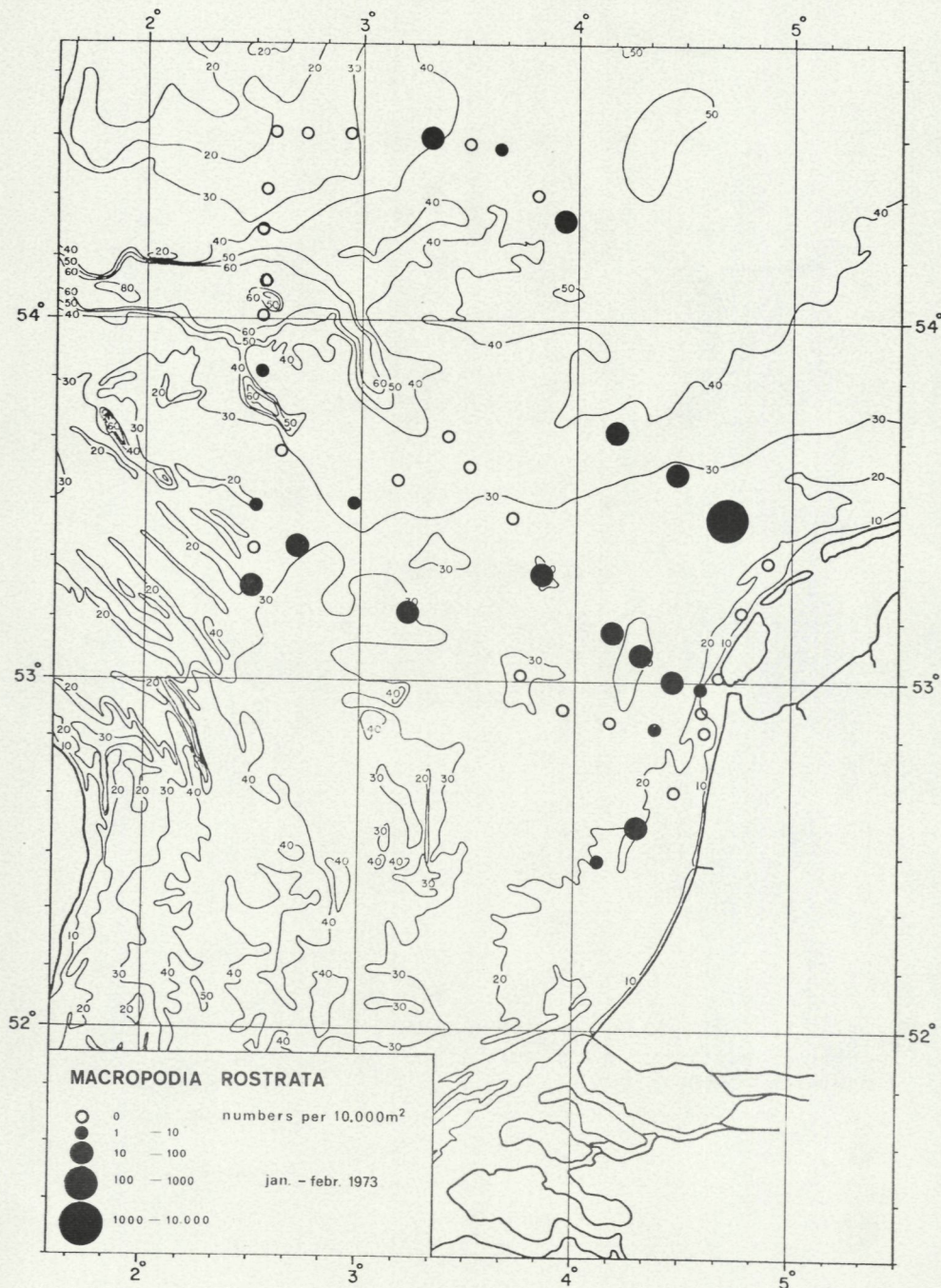


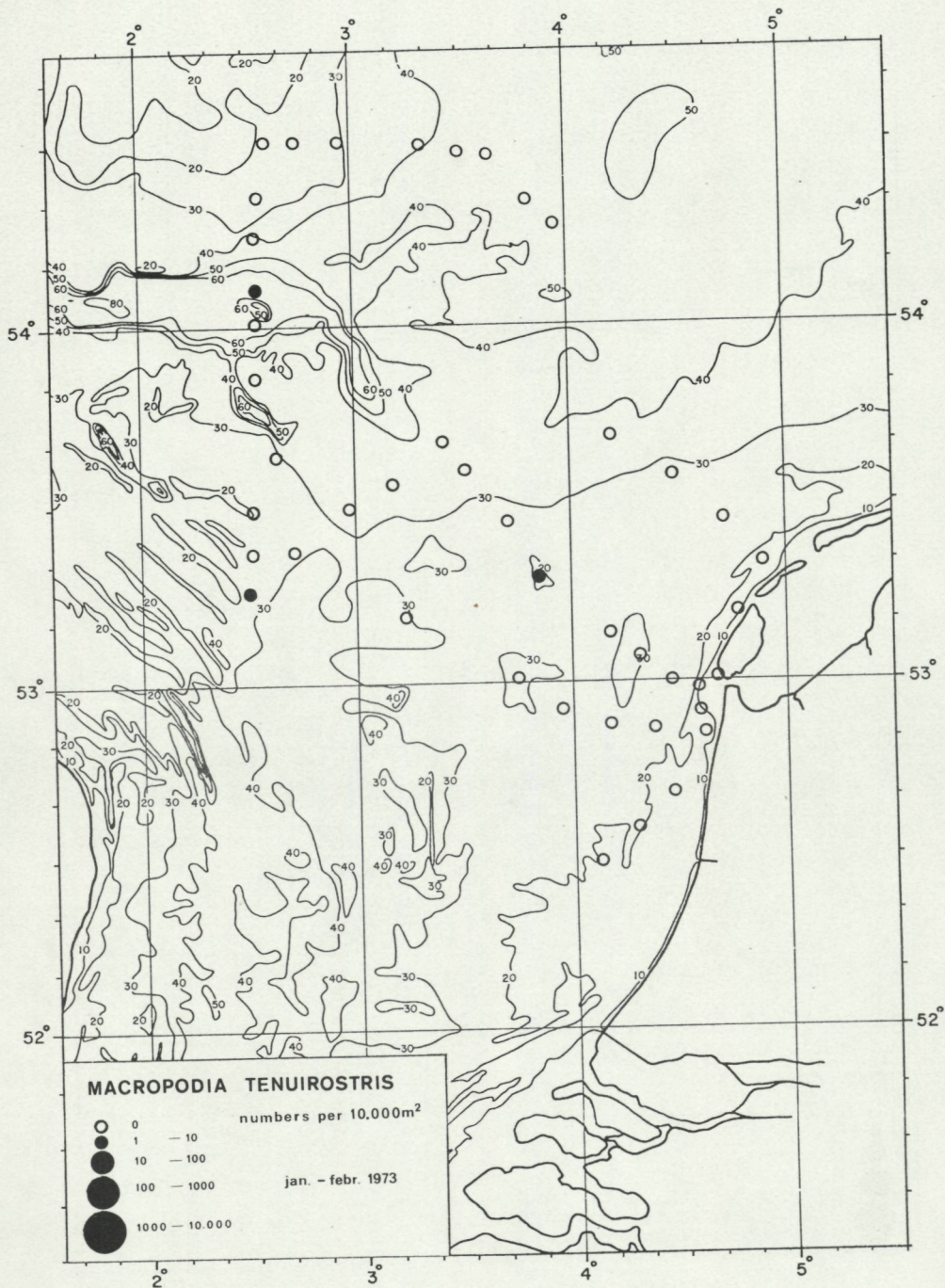


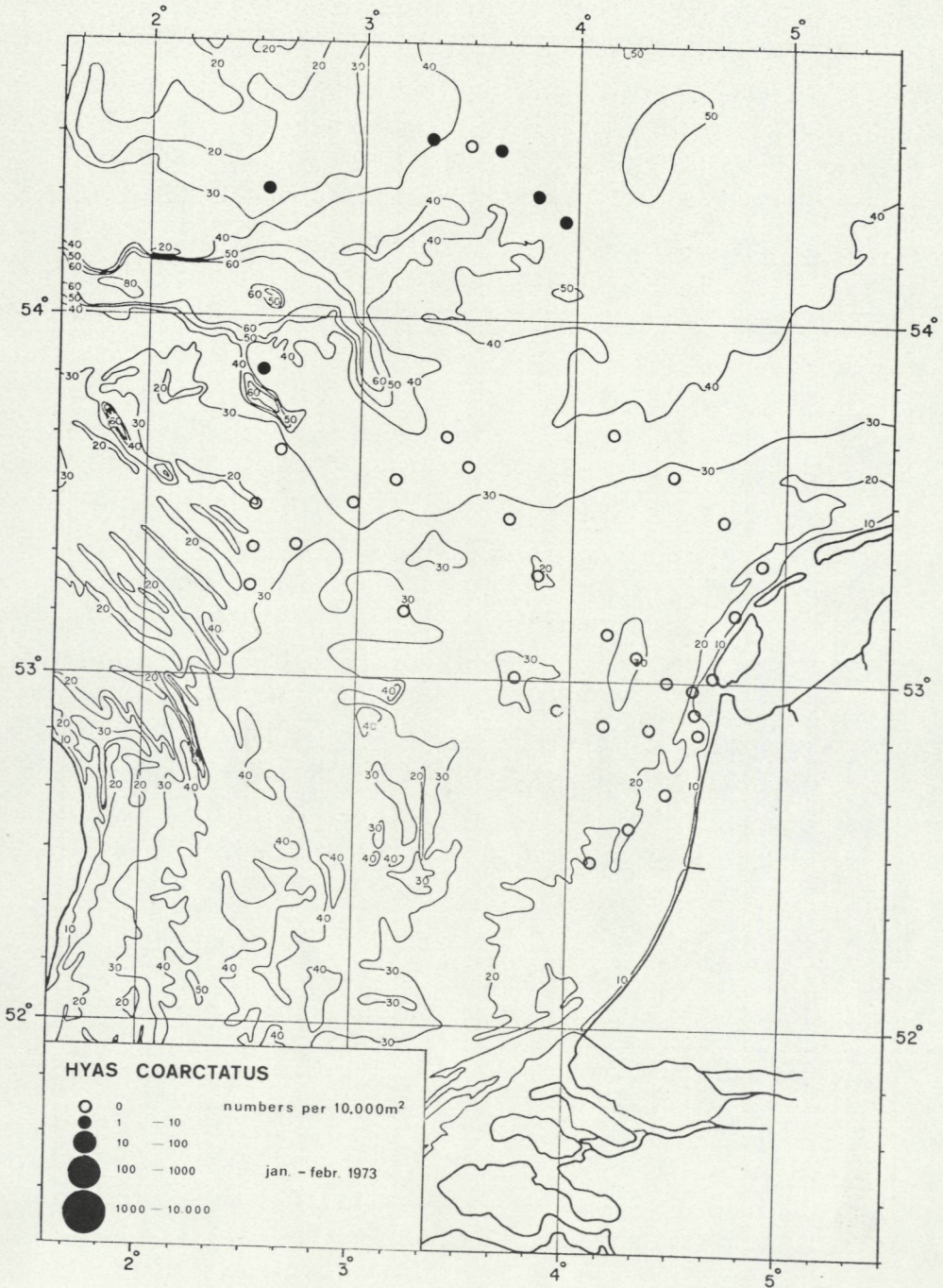


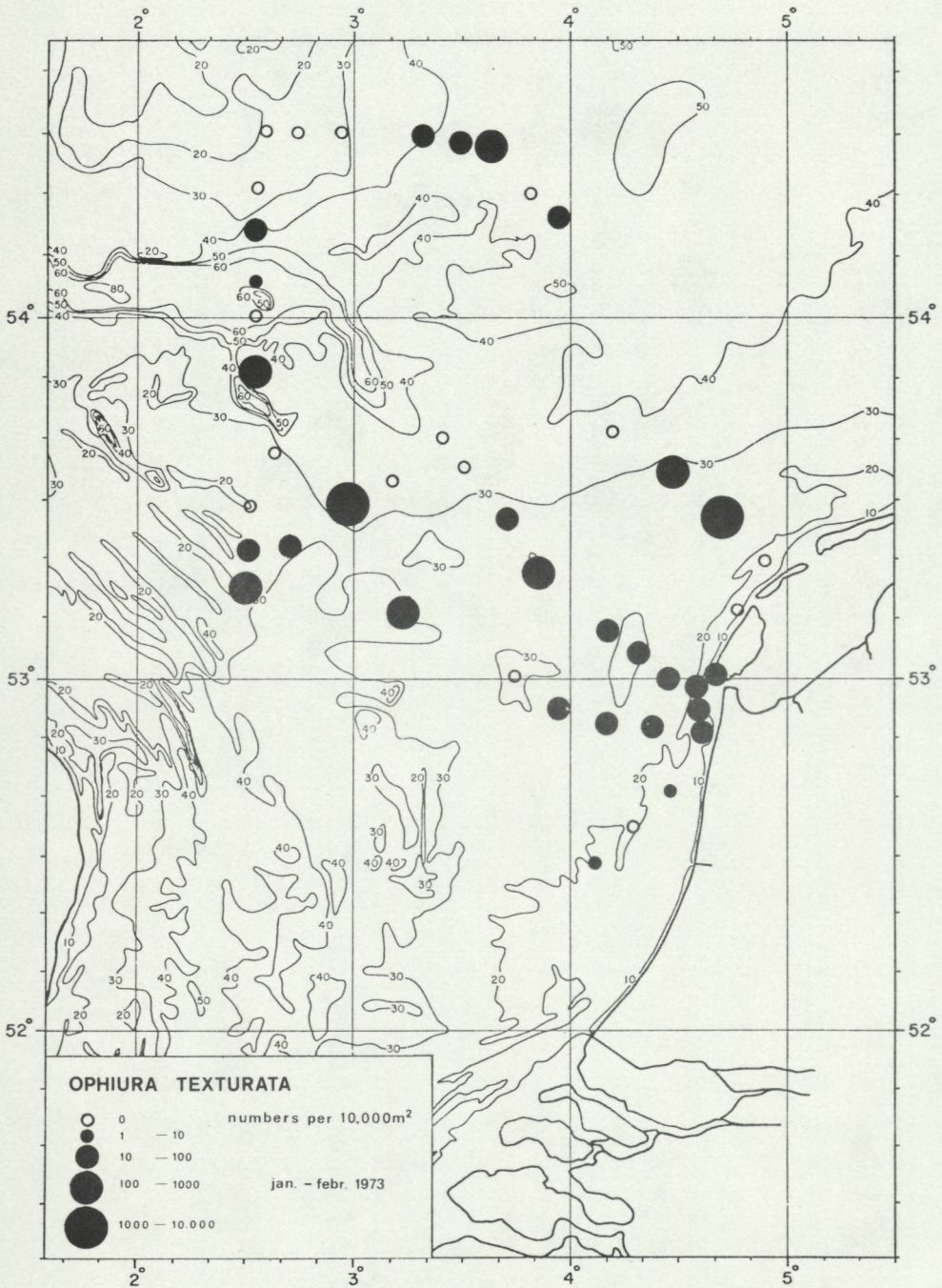


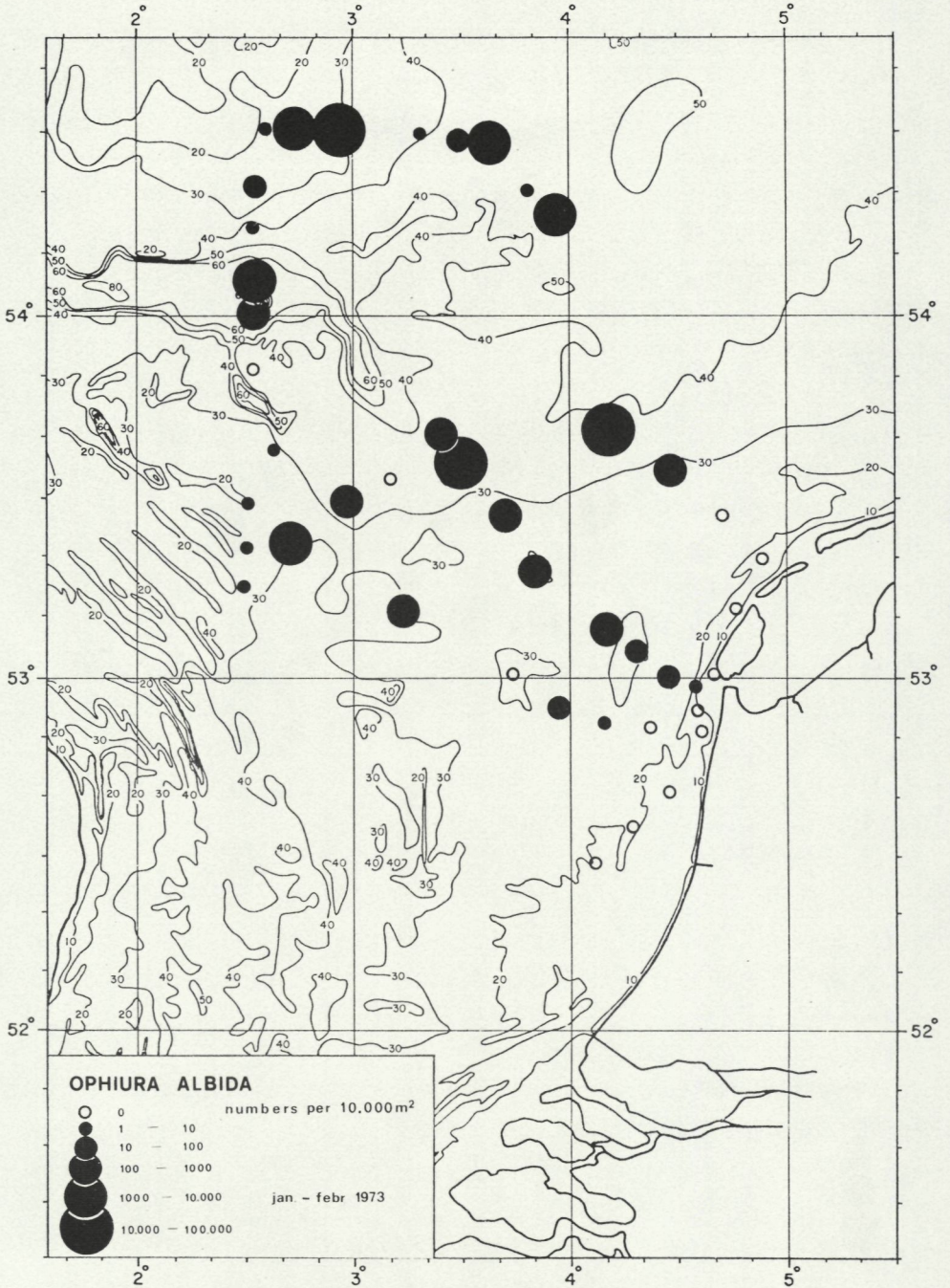


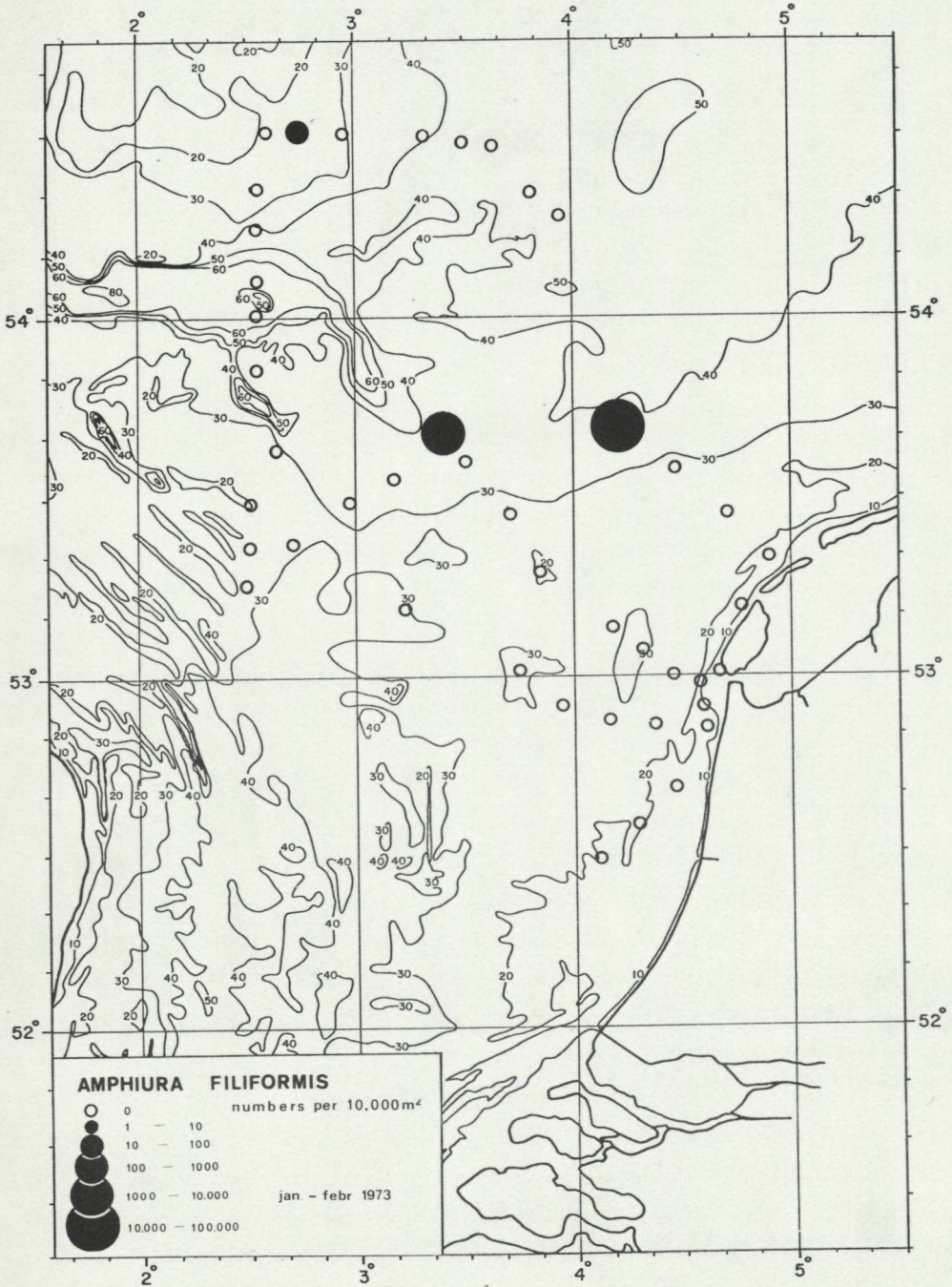


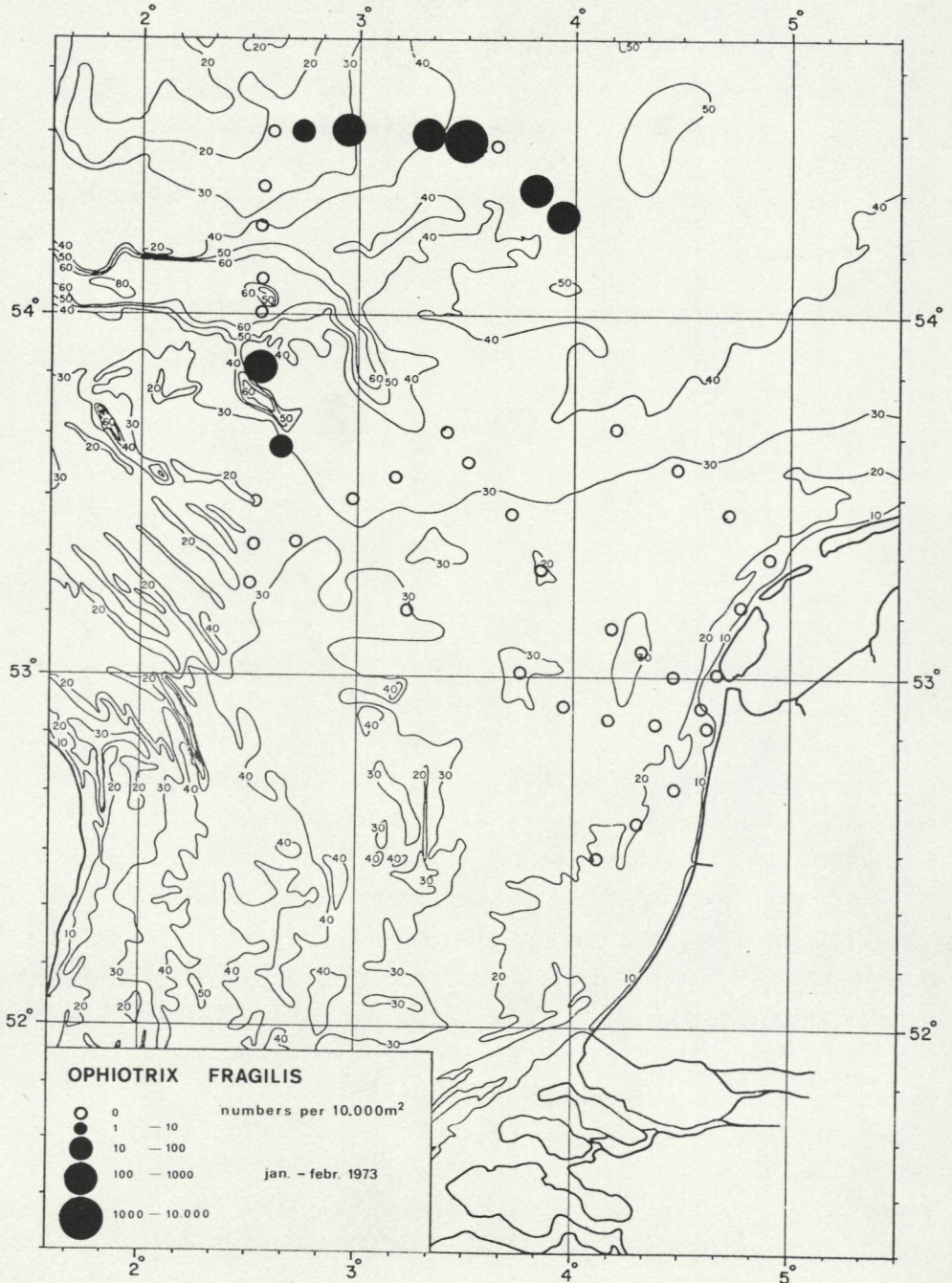


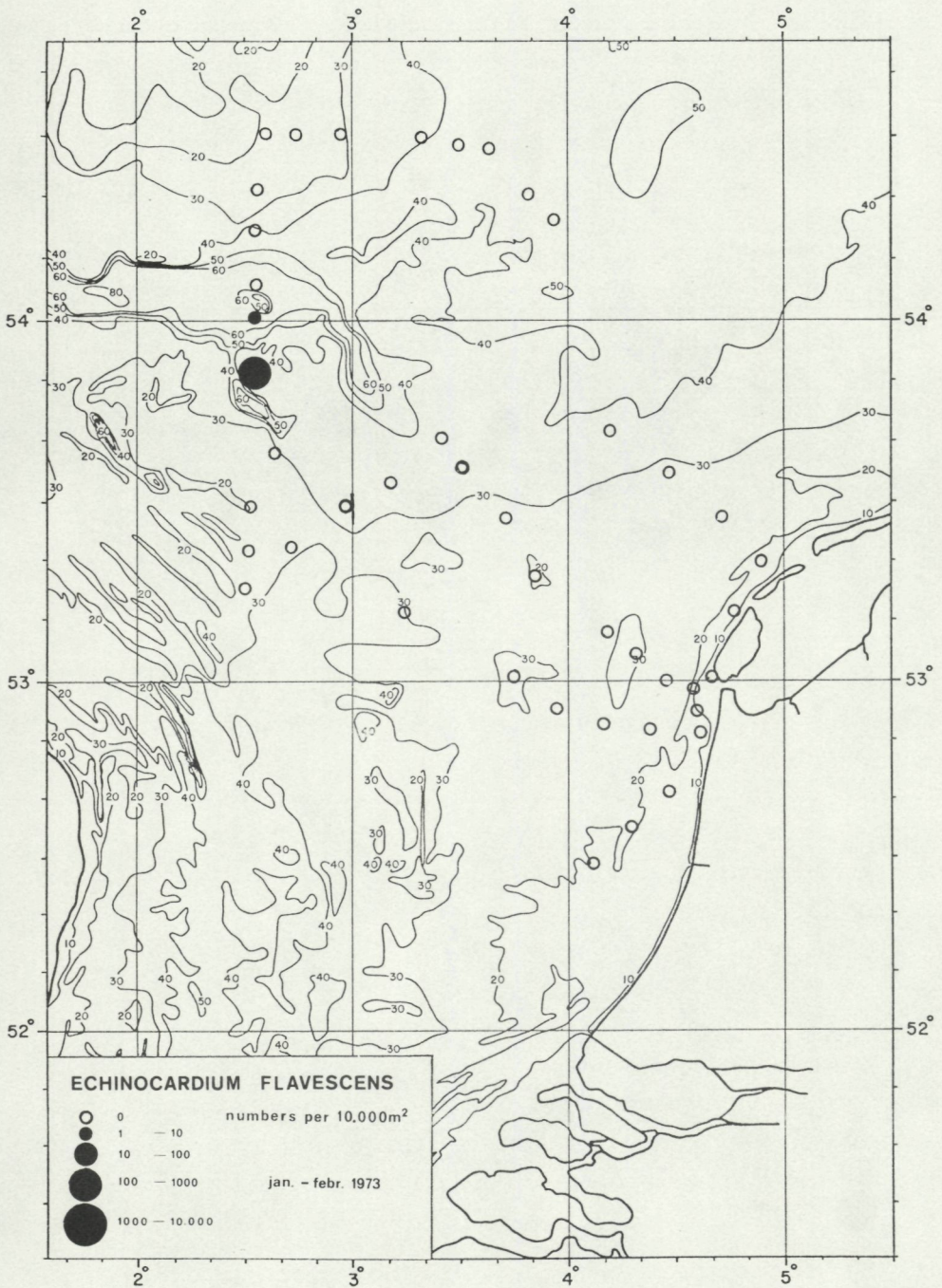


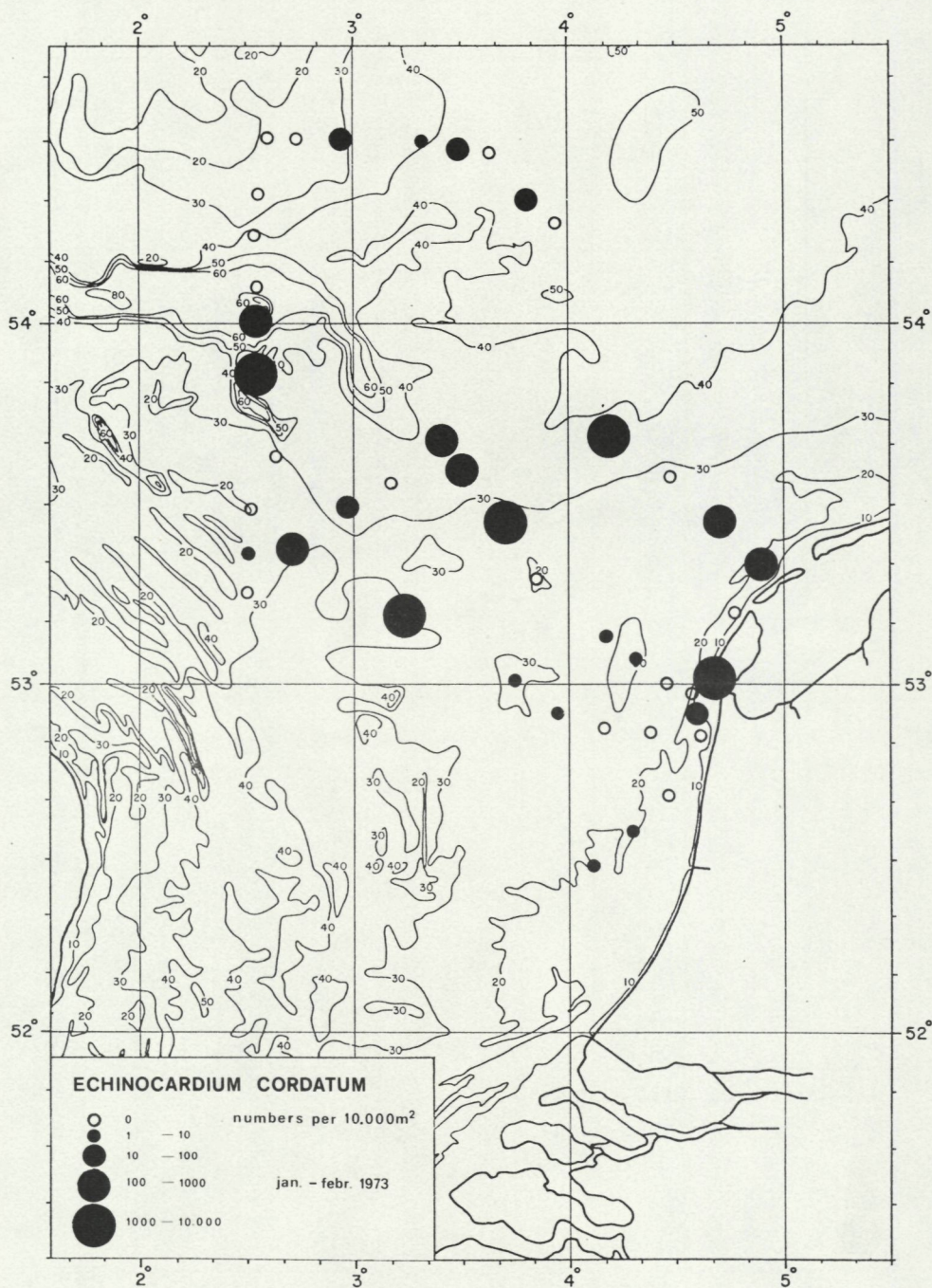


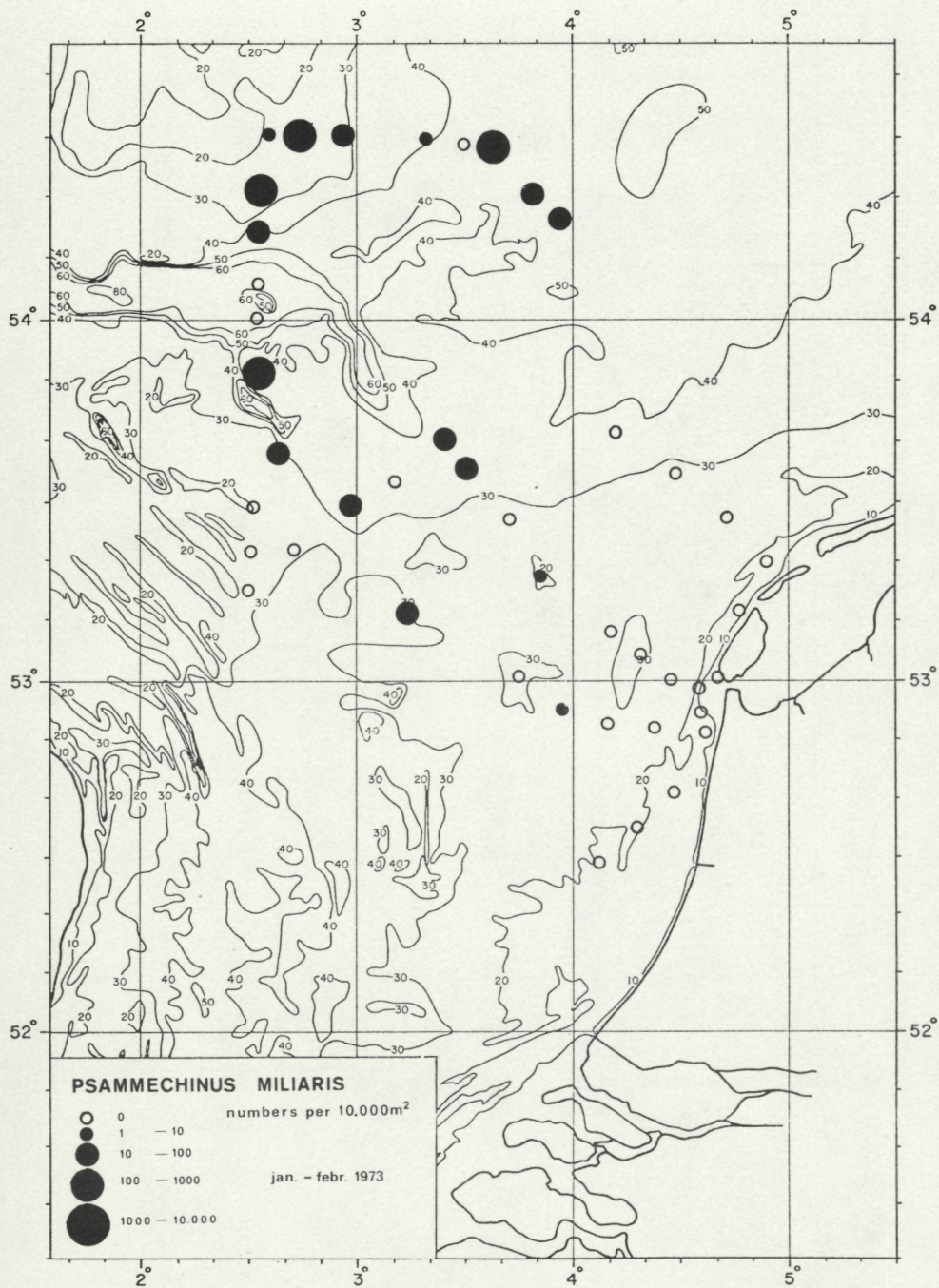


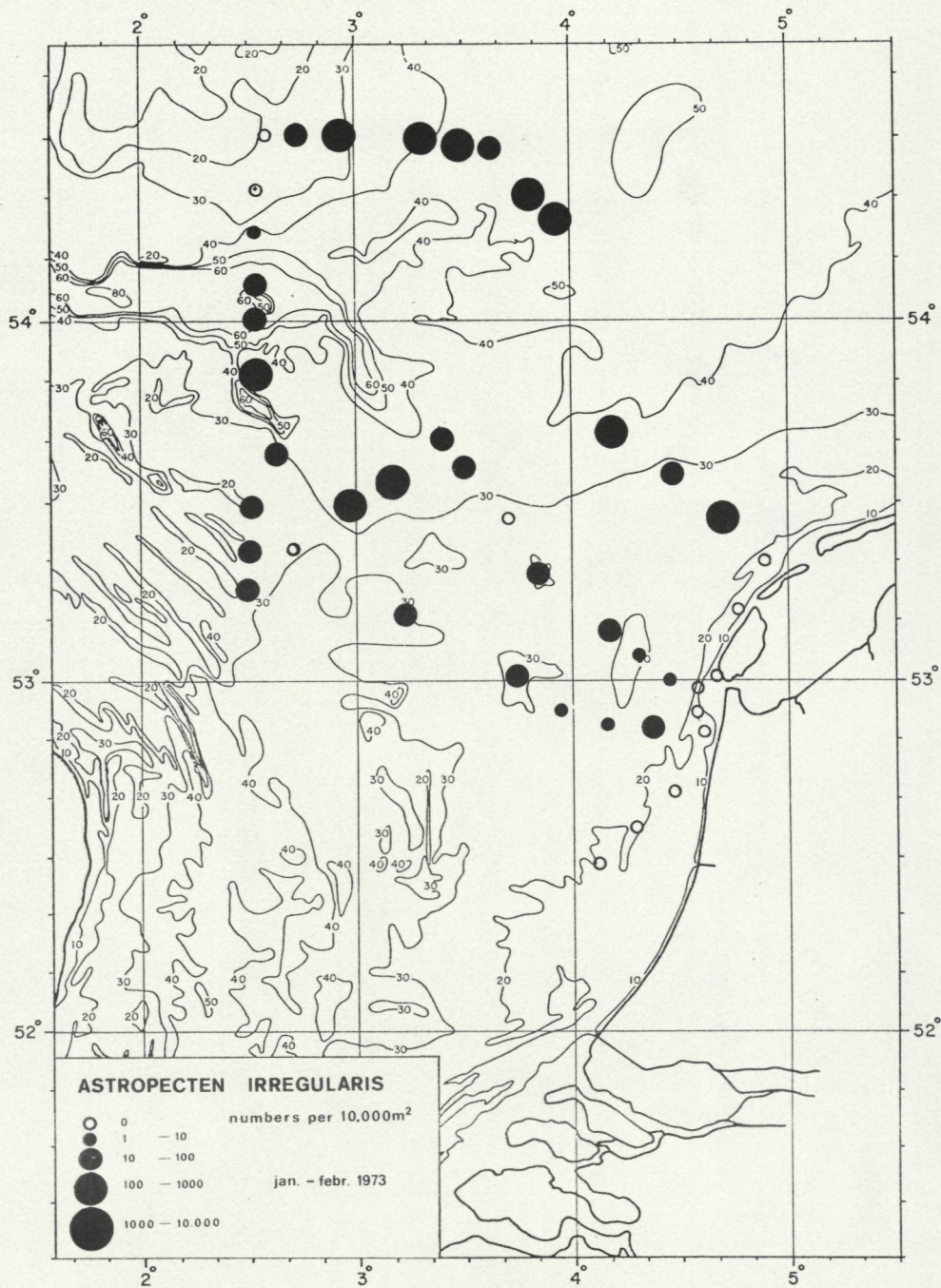


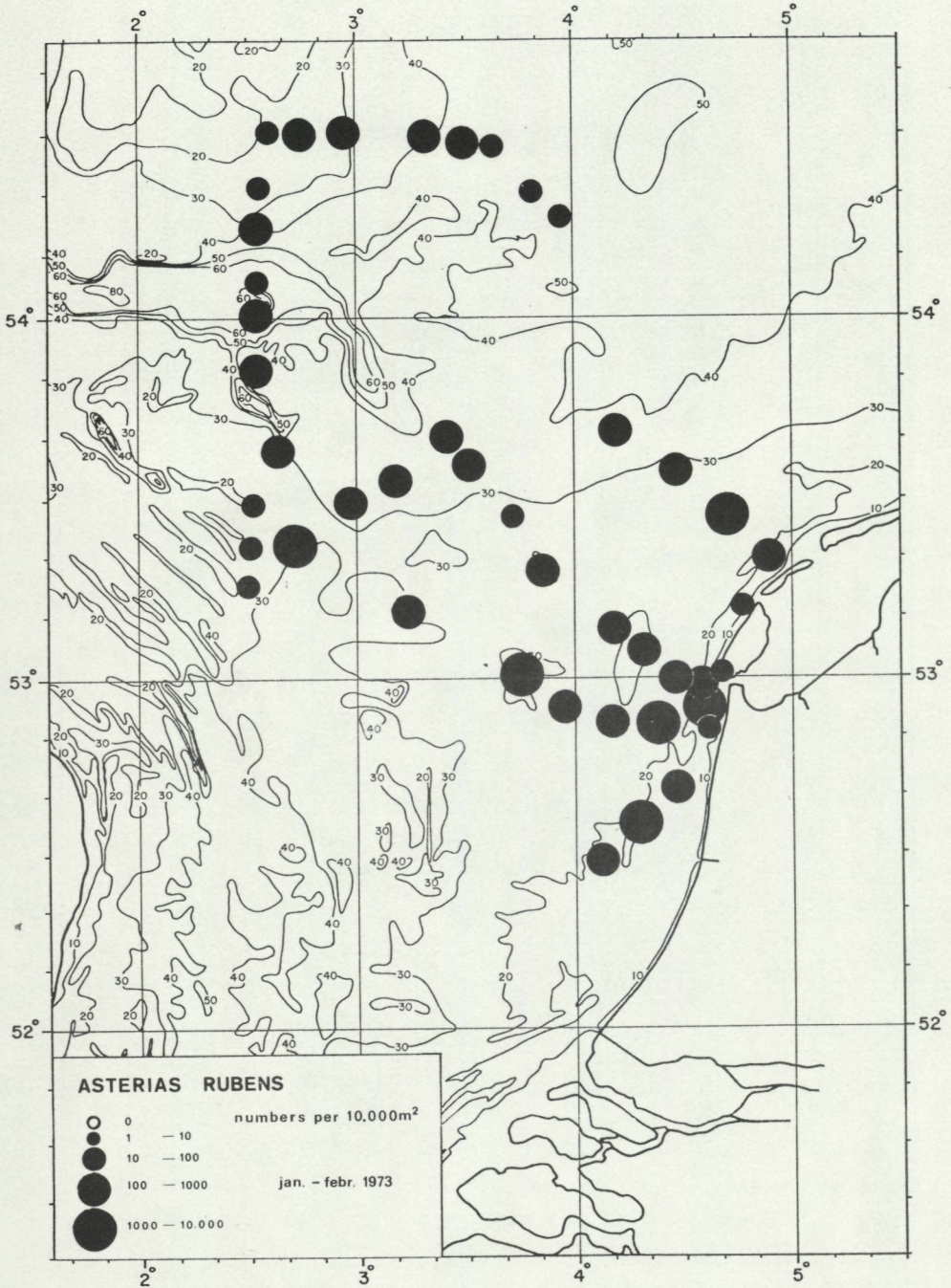


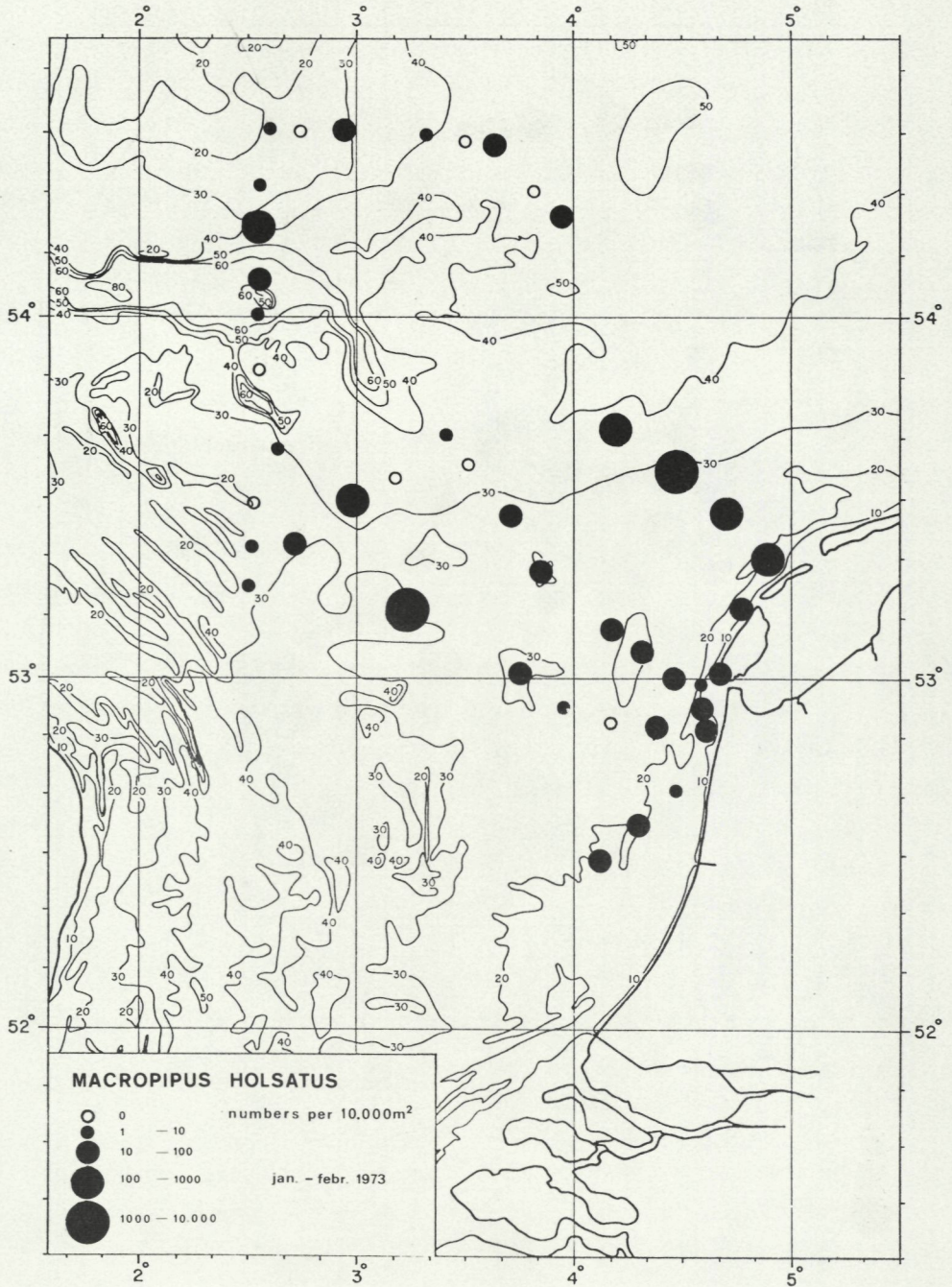


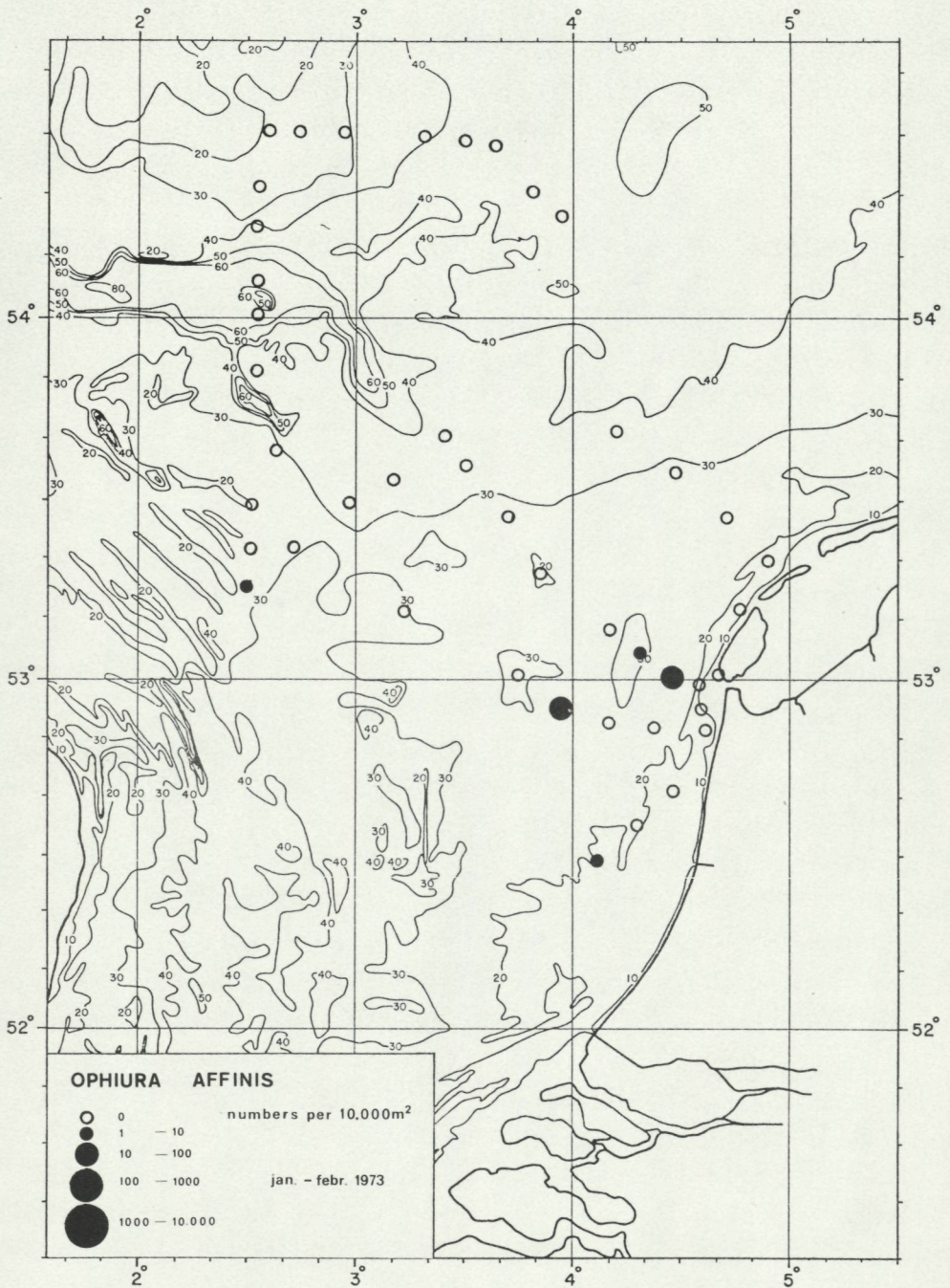


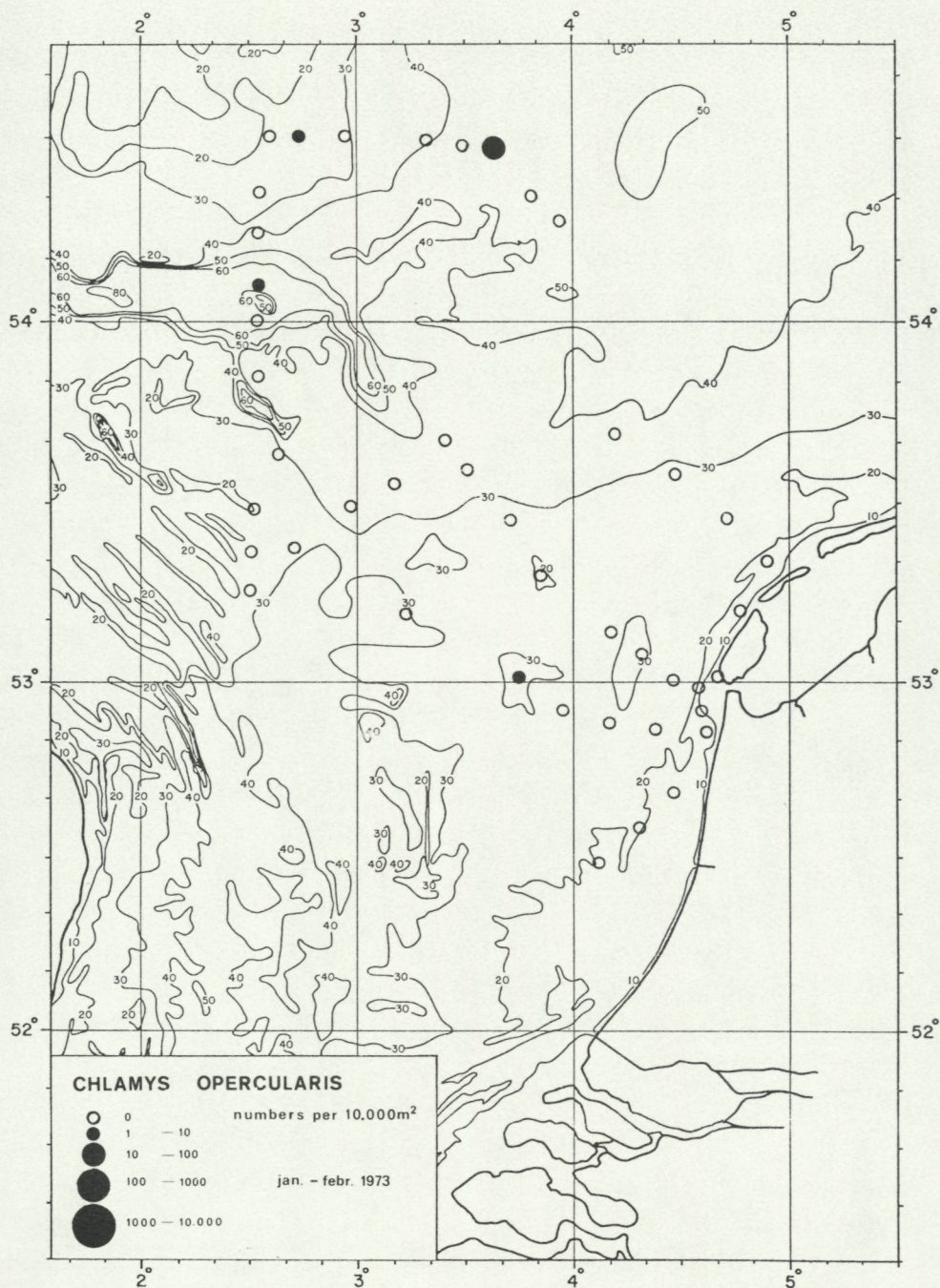


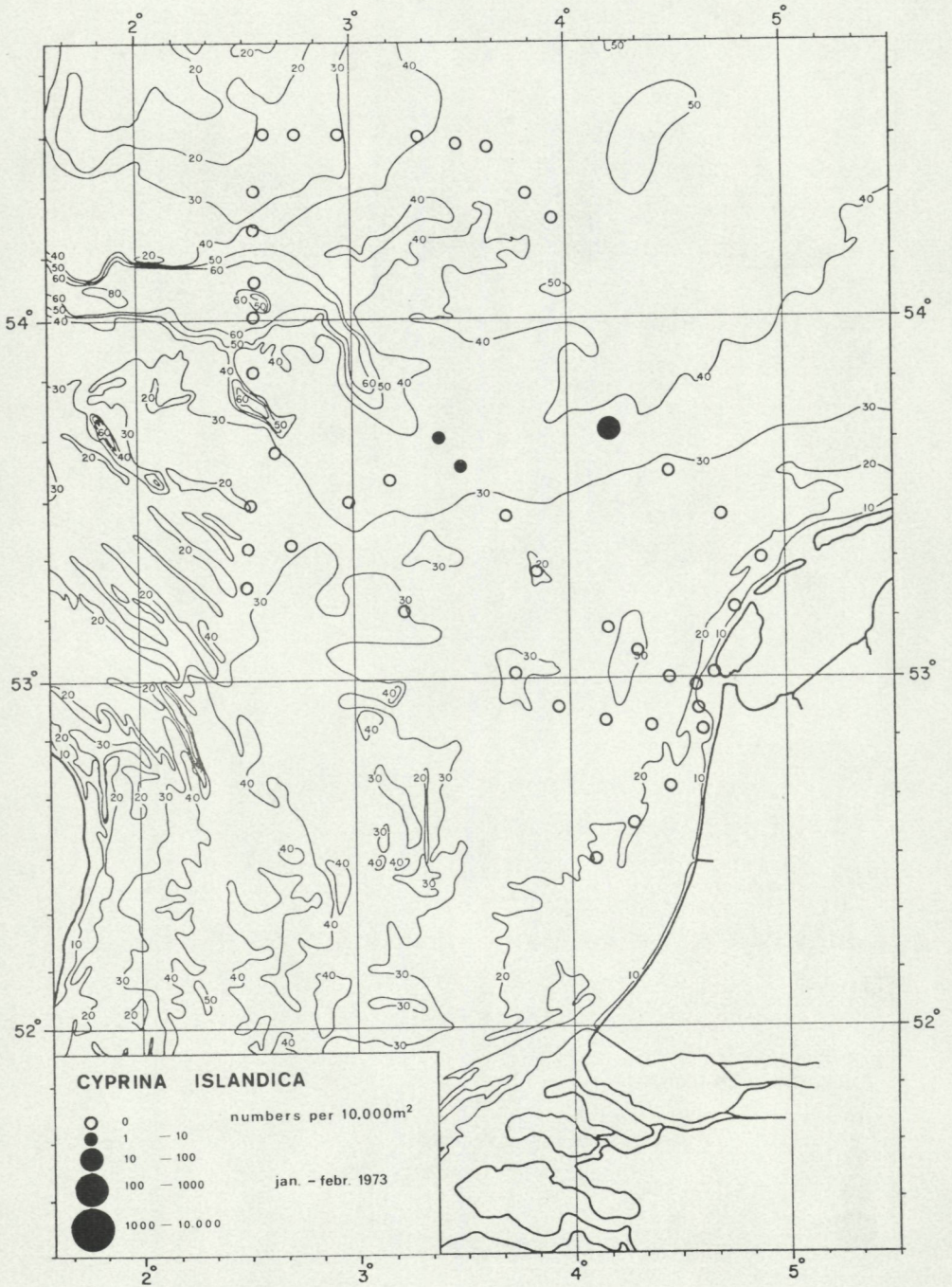


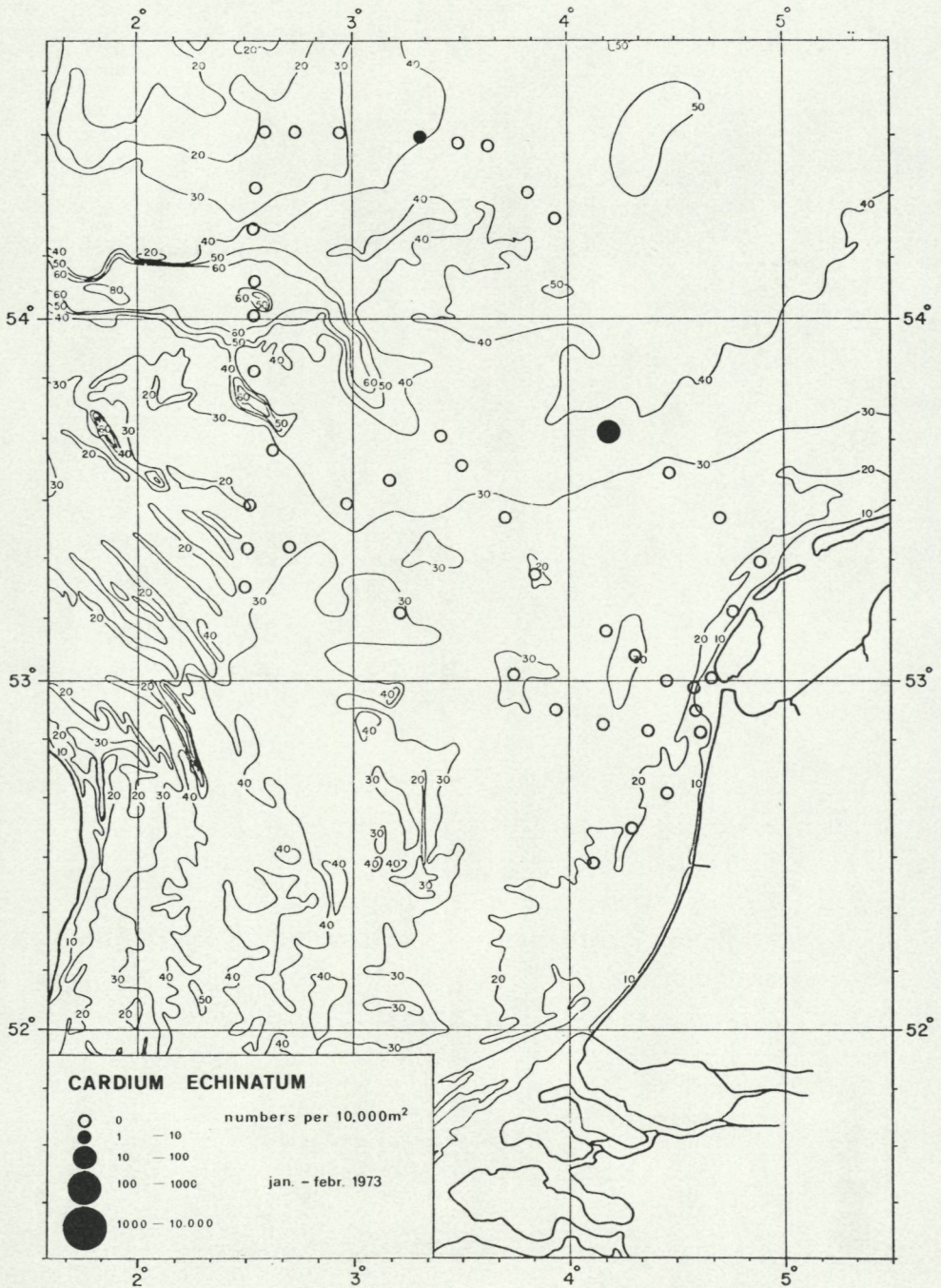


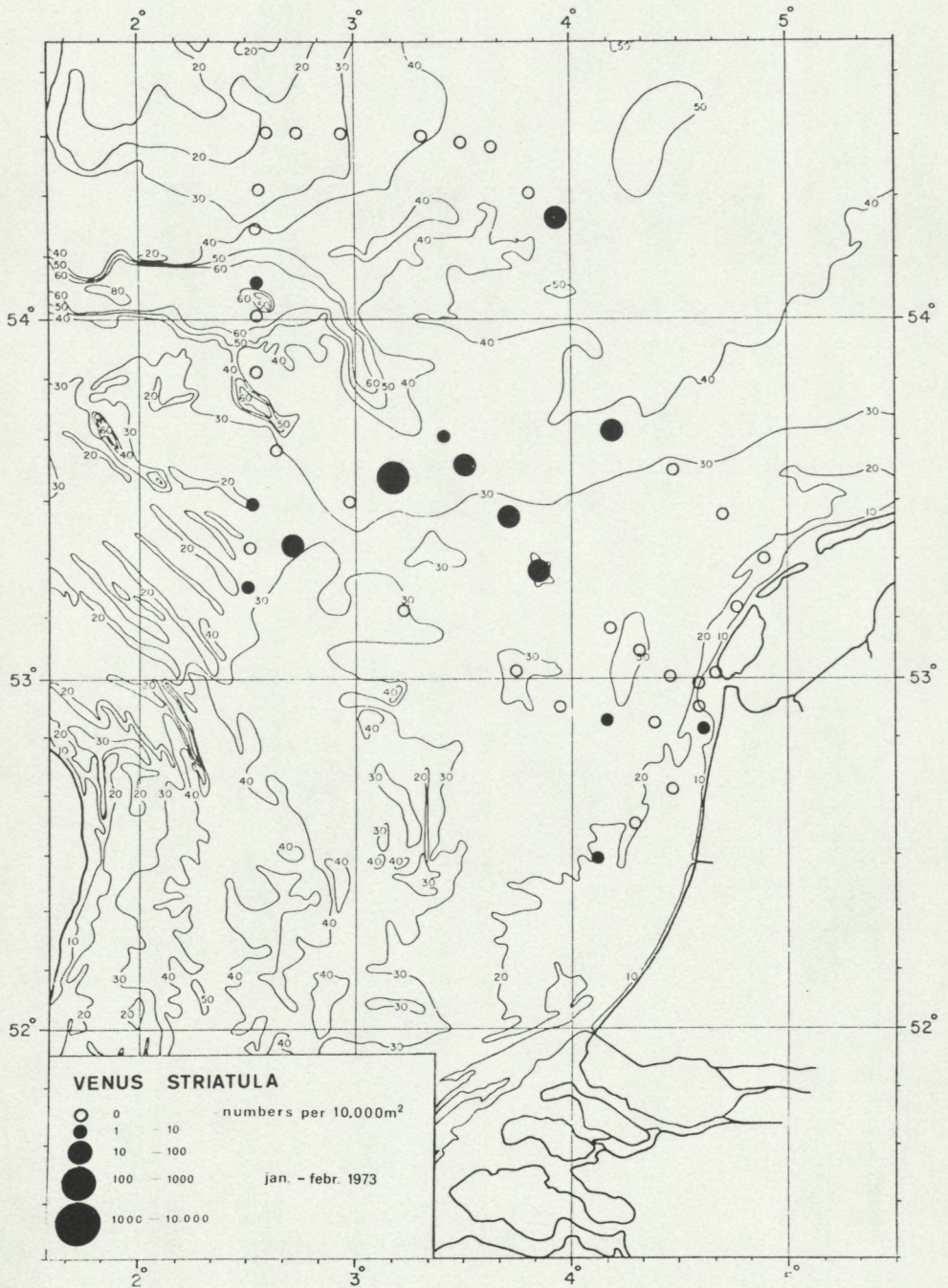


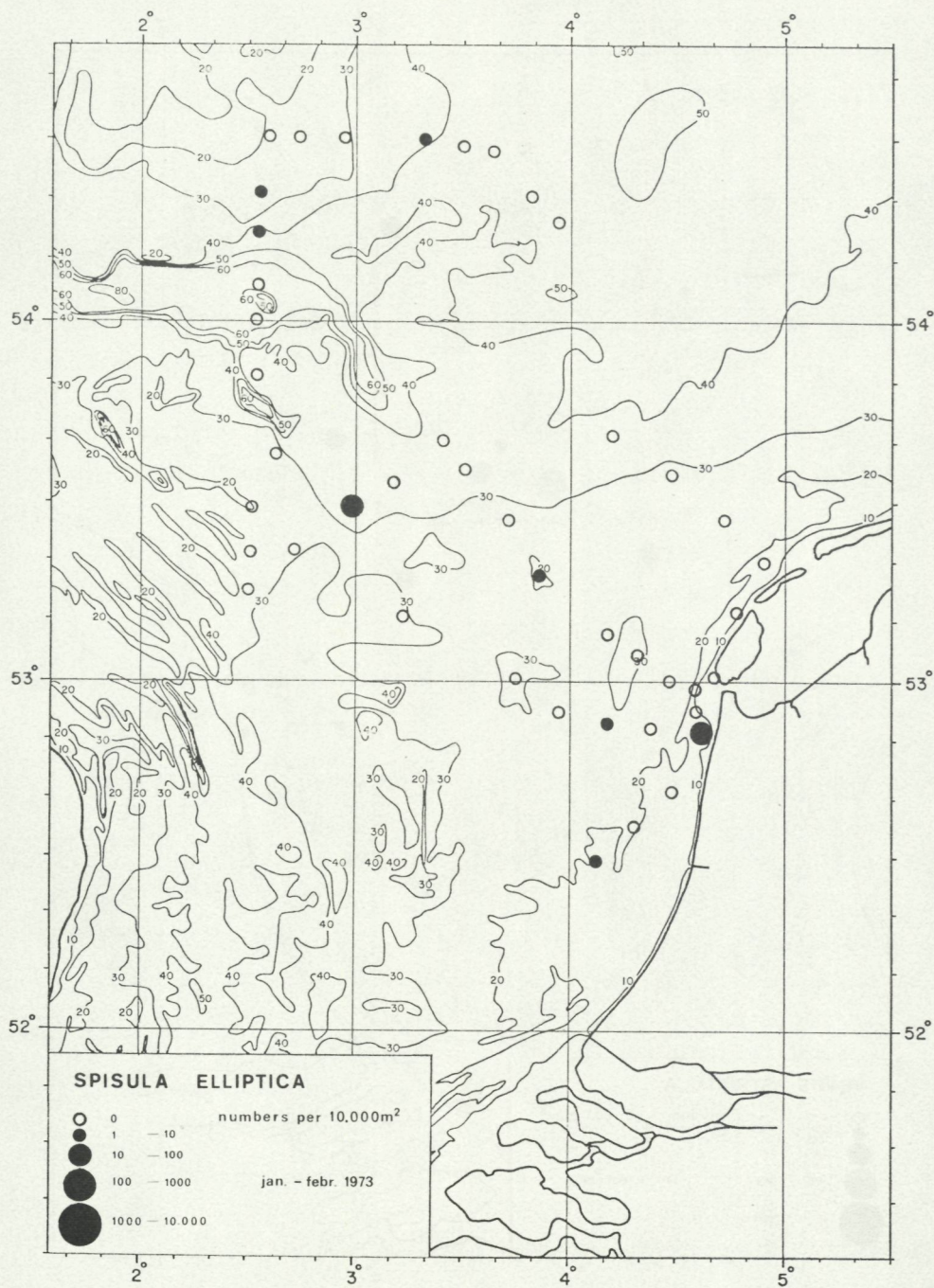


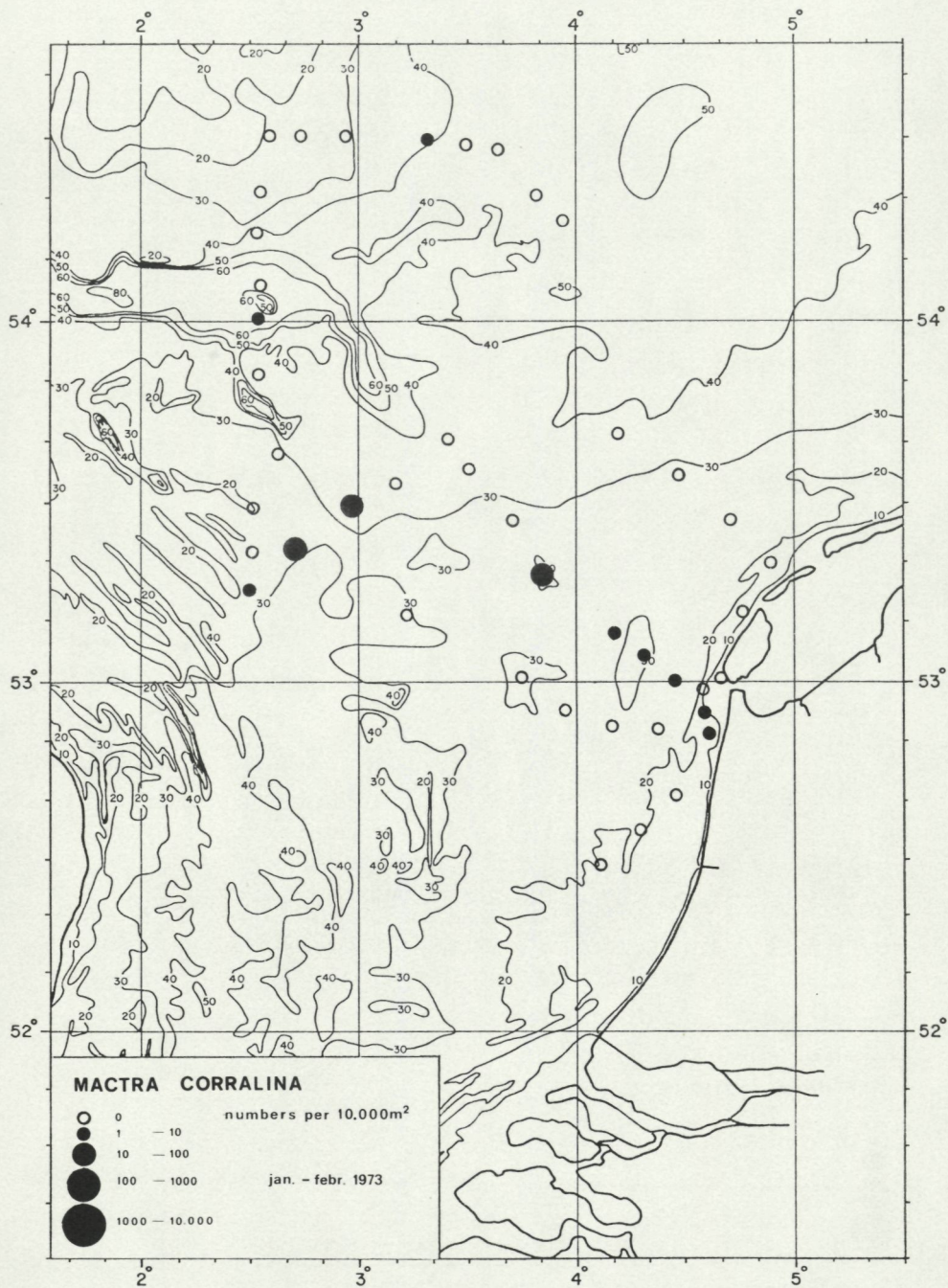


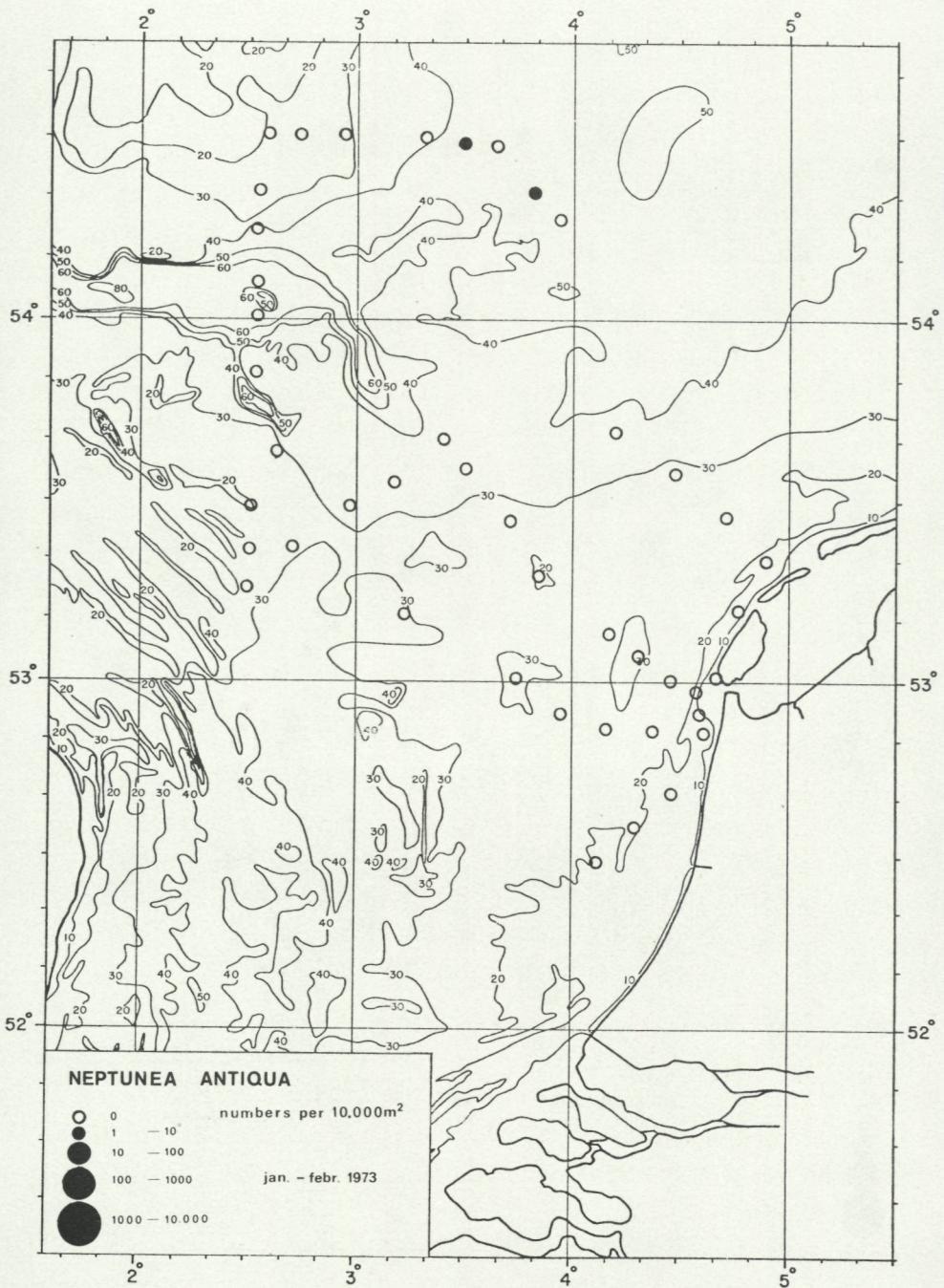


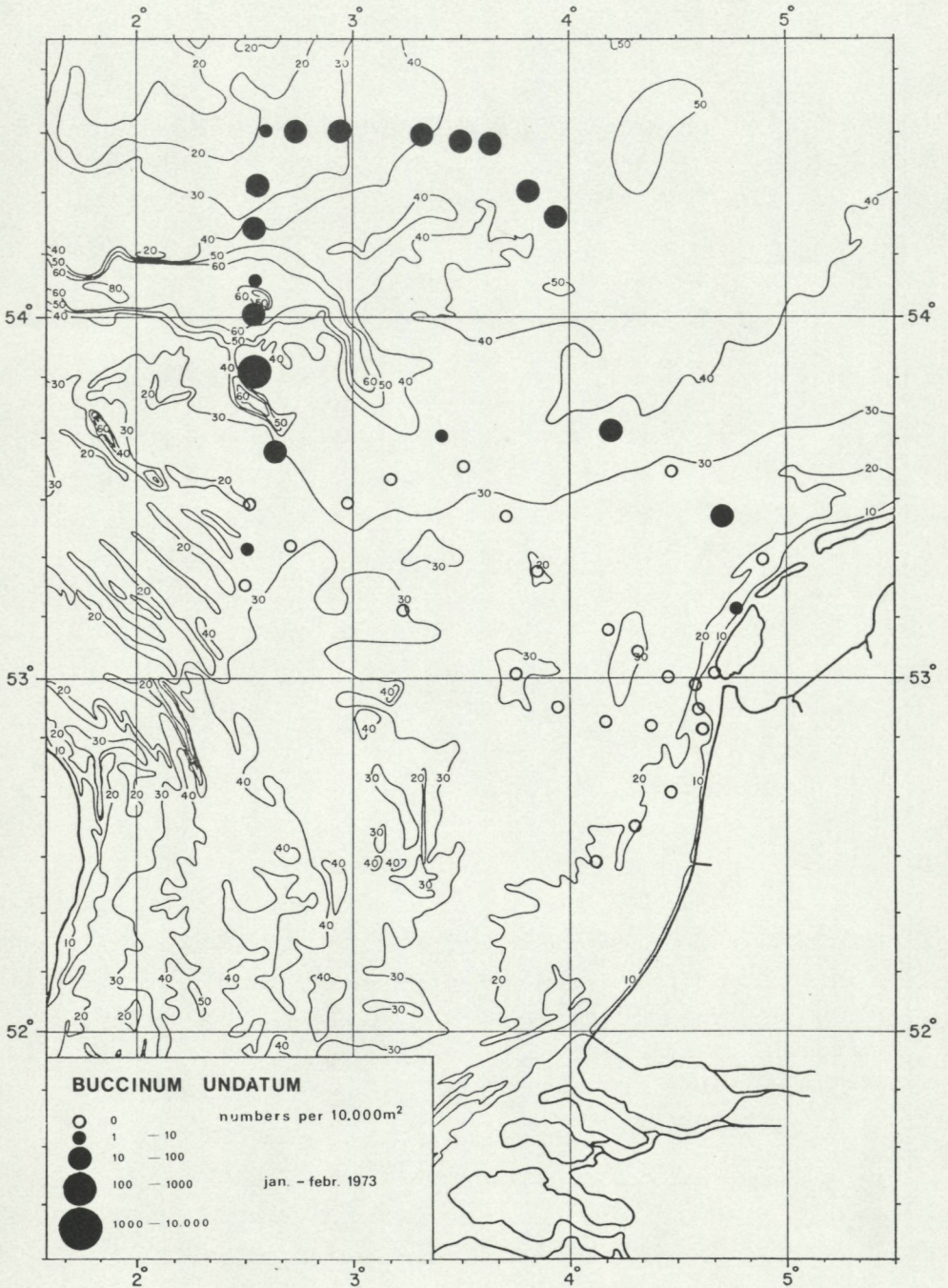


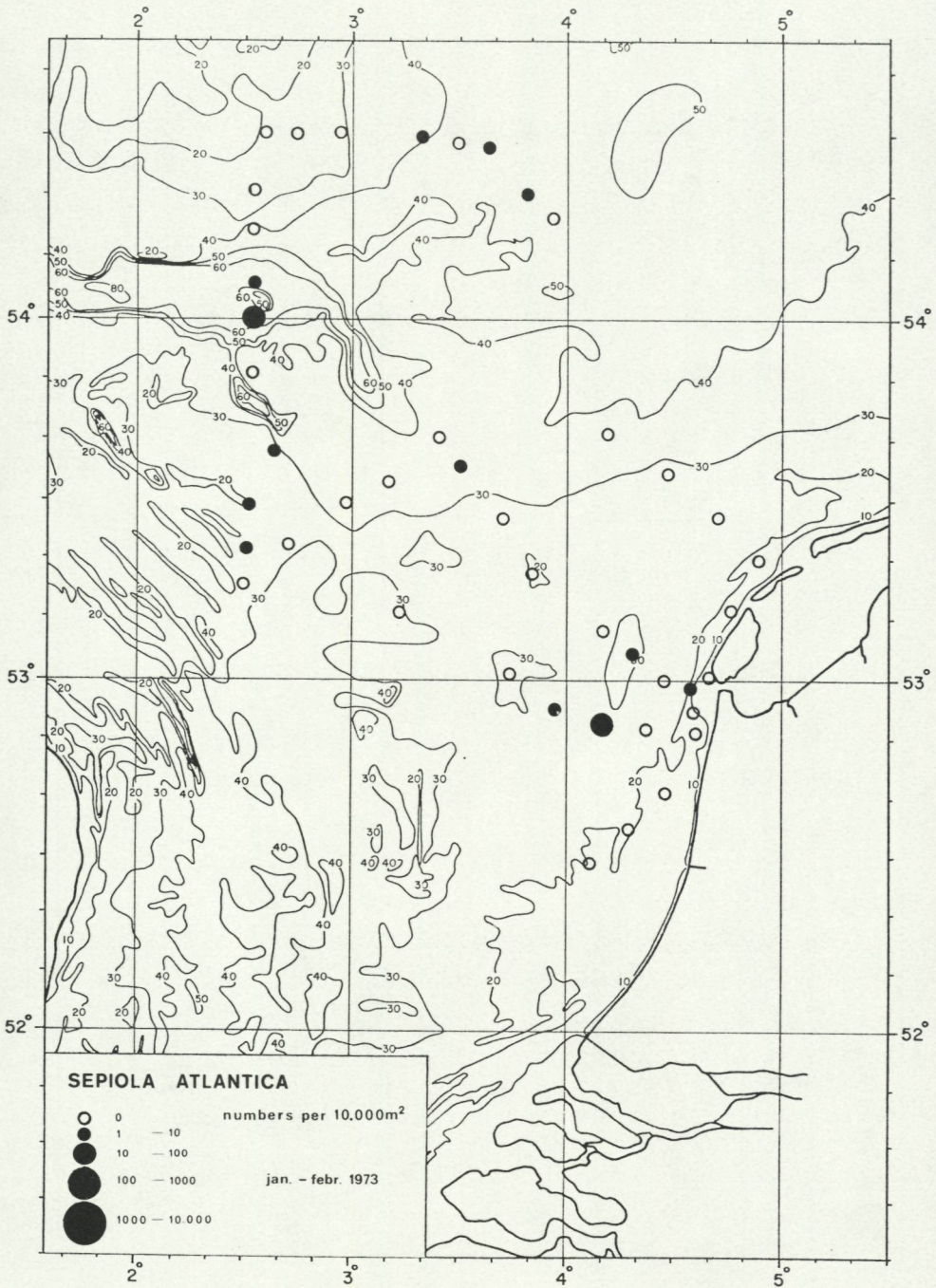


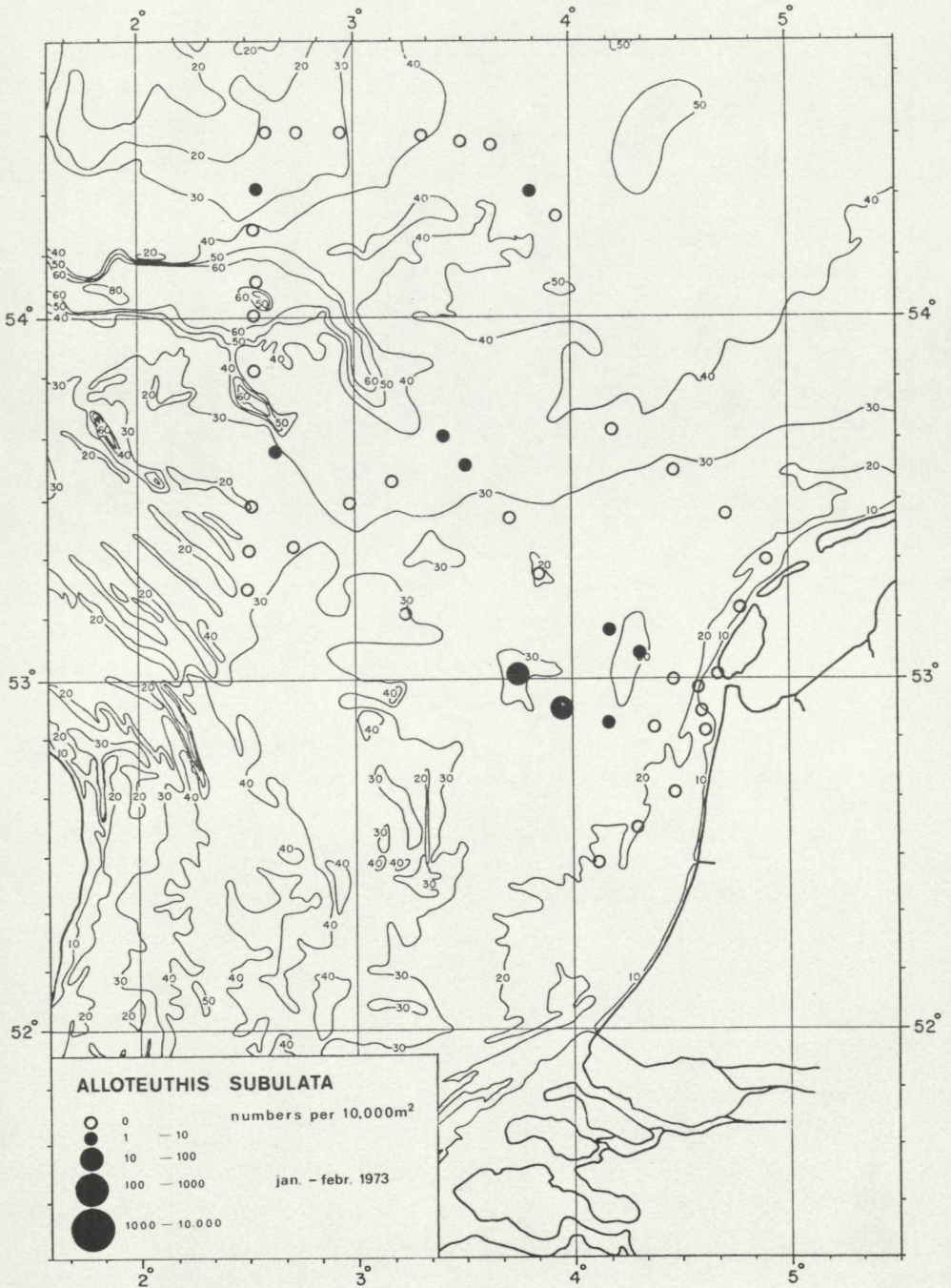


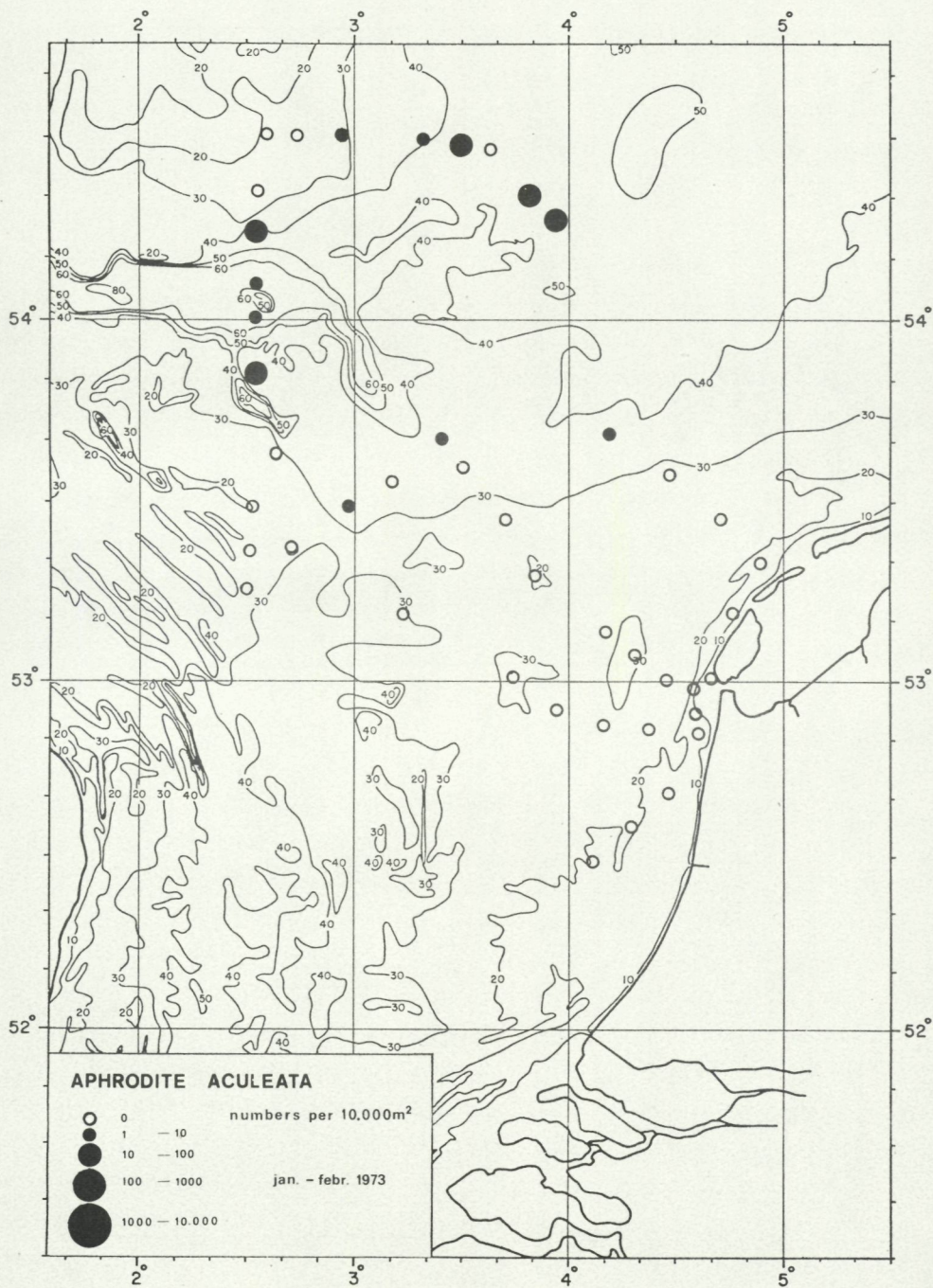












SPRATTUS SPRATTUS NR 004  
 LENGTH DISTRIBUTION IN 1.0 CM

-	1	2	3	4	5	6	7	8	9	10	11	12	13	14
243	-	-	-	-	-	-	-	1	-	-	-	-	-	-
244	-	-	-	-	-	5	8	6	-	-	4	1	-	-
245	-	-	-	-	-	-	-	-	-	1	-	-	1	-
247	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250	-	-	-	-	2	1	2	3	7	5	1	-	-	-
255	-	-	-	-	-	-	-	1	2	11	11	-	-	-
256	-	-	-	-	-	-	-	-	-	-	1	-	-	-
257	-	-	-	1	2	-	-	-	-	-	-	-	-	-
258	-	-	-	-	-	-	-	-	-	1	-	-	-	-
259	-	-	-	-	-	-	-	-	-	5	4	2	4	-
260	-	-	-	-	-	-	-	-	-	1	4	2	-	-
261	-	-	-	-	2	-	-	-	-	1	1	2	-	-
262	-	-	-	-	4	12	9	1	-	-	-	-	-	-
264	-	-	-	-	4	-	-	-	-	-	-	-	-	-
265	-	-	-	-	-	-	15	19	3	2	-	-	-	-
266	-	-	-	1	1	3	-	2	-	-	-	-	-	-
267	-	-	-	-	-	-	-	-	-	2	2	-	1	-
268	-	-	-	-	-	-	-	-	3	7	2	4	-	-
269	-	-	-	-	-	-	-	-	12	33	12	3	-	-
270	-	-	-	-	-	-	-	1	1	-	-	-	-	-
271	-	-	-	-	-	-	3	10	-	-	2	-	-	-
272	-	-	-	-	-	-	-	-	2	2	4	2	1	-
273	-	-	-	-	-	-	-	1	-	2	-	-	-	-
281	-	-	-	-	-	1	1	-	-	-	-	-	-	-
283	-	-	-	-	-	-	2	-	-	1	-	-	1	-
284	-	-	-	-	-	-	-	1	-	-	1	-	-	-
285	-	-	-	-	-	-	-	1	-	-	-	-	-	1
287	-	-	-	-	-	-	-	-	-	-	-	1	-	-
-	-	-	-	2	15	22	40	47	31	73	50	17	8	1

MERLANGIUS MERLANGUS NR 010  
LENGTH DISTRIBUTION IN 1.0 CM

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				
243								1	1	2	1	1	1	1		1			1	1		1														
244											1	1	1		1																					
245											1	1	1	1	1	1	1																			
246											1	1	2	3	2	4	3	4	2	1	1	3	2			1	4									
247											1	1	1	1	2	1	3	4	2	1	1	1	1	1		1	1									
248											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
250											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
251											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
252											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
253											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
254											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
255											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
256											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
257											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
258											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
259											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
260											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
261											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
262											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
263											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
264											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
265											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
266											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
267											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
268											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
269											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
270											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
271											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
272											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
273											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
274											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
275											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
277											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
278											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
279											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
280											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
281											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
282											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
283											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
284											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
285											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
286											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
287											1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
								9	11	23	42	70	90	106	83	80	76	47	41	25	30	36	42	25	33	16	15	5	3	6	2	1				

TRISOPTERUS LUSCUS NR 012  
LENGTH DISTRIBUTION IN 1.0 CM

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
243	-	-	-	-	-	-	-	-	-	1	-	1	2	-	2	1	-	-	-	-	-	-
244	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-
246	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
247	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
261	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
269	-	-	-	-	-	-	-	2	-	-	-	3	1	5	3	4	1	-	-	-	-	1
271	-	-	-	-	-	-	-	-	-	1	-	1	1	1	1	-	-	-	-	-	-	-
272	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-	-	-	-
273	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-	-	-
277	-	-	-	-	-	-	-	-	-	-	2	4	3	2	5	5	8	4	2	1	-	-
279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
283	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-
285	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	3	-	1	-	-	2	1	2	7	8	13	6	16	7	9	4	3	1	1

GABUS MORHUA NR 016  
LENGTH DISTRIBUTION IN 1.0 CM

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
243	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
246	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
259	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
277	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	1	2	-	-	2	3	1	1	-	1

RHINONEMUS CIMBRIUS NR 020  
LENGTH DISTRIBUTION IN 1.0 CM

-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
248	-	-	-	-	-	-	-	-	-	2	2	-	1	1	-	1	-	-	-	1	1	-	-	-	-
250	-	-	-	-	-	-	-	-	-	1	1	4	3	1	-	2	-	-	1	-	-	-	1	-	-
251	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	1	-	-
260	-	-	-	-	-	-	2	1	6	1	6	9	6	7	5	2	3	3	-	1	1	-	-	-	1
261	-	-	-	-	-	-	-	1	3	2	5	10	3	4	7	3	1	-	-	1	-	-	-	-	1
262	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-
269	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-
270	-	-	-	-	-	-	-	-	-	1	1	1	1	1	3	1	-	1	1	-	-	-	-	-	-
271	-	-	-	-	-	-	-	-	-	-	3	4	3	-	2	2	2	2	2	-	-	-	-	-	-
272	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-
273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
-	-	-	-	-	-	-	2	2	9	6	19	25	20	17	21	10	9	7	4	4	3	-	1	1	1

SYNGNATHUS ROSTELLATUS NR 025  
LENGTH DISTRIBUTION IN 1.0 CM

-	1	2	3	4	5	6	7	8	9	10	11	12	13	14
243	-	-	-	-	-	-	-	-	-	1	-	-	-	-
244	-	-	-	-	-	-	-	-	-	-	-	-	1	-
265	-	-	-	-	-	-	-	-	-	1	-	-	-	-
266	-	-	-	-	-	-	-	-	-	-	-	-	-	1
267	-	-	-	-	-	-	-	-	-	1	-	-	1	-
271	-	-	-	-	-	-	-	-	-	-	-	-	1	-
274	-	-	-	-	-	-	-	-	-	-	-	1	-	-
284	-	-	-	-	-	1	1	-	-	-	-	1	-	-
286	-	-	-	-	-	-	-	-	-	-	1	-	-	-
287	-	-	-	-	-	-	-	-	-	1	1	-	2	-
-	-	-	-	-	-	1	1	-	-	4	2	1	5	1

TRACHURUS TRACHURUS NR 028  
LENGTH DISTRIBUTION IN 1.0 CM

-	1	2	3	4	5	6	7	8	9	10	11	12
250	-	-	-	-	-	-	2	2	1	3	1	-
261	-	-	-	-	-	-	-	1	1	-	-	1
263	-	-	-	-	-	-	-	-	1	-	-	-
-	-	-	-	-	-	-	2	3	3	3	1	1

AMMODYTES SPEC. NR 035  
LENGTH DISTRIBUTION IN 1.0 CM

-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
243	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
245	-	-	-	-	-	-	-	-	1	-	-	-	2	1	1	2
246	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-
247	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
257	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
258	-	-	-	-	-	-	-	-	2	3	2	-	-	-	-	-
263	-	-	-	-	-	-	1	1	1	-	-	-	2	2	-	-
264	-	-	-	-	-	-	-	-	9	6	3	2	-	-	-	-
265	-	-	-	-	-	-	2	1	-	1	-	-	-	-	-	-
266	-	-	-	-	1	-	1	2	-	-	-	-	-	-	-	-
279	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
280	-	-	-	-	-	-	-	6	28	5	-	-	-	-	-	-
281	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
284	-	-	-	-	1	-	-	-	-	-	-	-	1	1	1	-
285	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
-	-	-	-	-	2	-	4	12	43	16	5	3	8	6	2	2

TRACHINUS VIPERA NR 030  
LENGTH DISTRIBUTION IN 1.0 CM

-	1	2	3	4	5	6	7	8	9	10	11	12	13
257	-	-	-	-	-	-	-	-	-	-	-	1	-
263	-	-	-	-	-	-	1	-	-	4	4	3	-
264	-	-	-	-	-	-	-	-	3	3	3	1	1
265	-	-	-	-	-	-	-	-	-	1	-	1	1
266	-	-	-	-	-	2	-	1	-	-	-	1	-
-	-	-	-	-	-	-	3	-	4	8	7	7	2

CALLIONYMUS LYRA NR 036  
LENGTH DISTRIBUTION IN 1.0 CM

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
246							2	3	4		2	1	5	6	4	1	1	1					
247							1		1	3	5	11	9	6	6	4	3	1					
248											1	4	7	5	2	2	7	1	2	3			
250							1	1			1	4	7	7	8	4	1	1	1				
251											1	1	4	3	4	4	4	1	1	1			
252												1	2	2	2	2	2	1					
253												3	3	3	3	3	3	1					
254												1	1	1	1	1	2	1					
258												2	1	1	1	1	1	1					
259						1					1	1	1	1	1	1	1	1			2	1	
260												1	1	1	1	2	1	1					
261											1	1	2	1	1	1	1	1					
262											1	1	2	1	1	1	1	1					
263												1	1	1	1	1	1	1					
266												1	1	1	3	1	1	1					
267												1	1	1	2	1	1	1				1	
268												1	1	1	1	1	1	1					
269												1	1	1	1	1	1	1					
270												4	9	7	4	5	1	2					
271											2	35	21	5	7	4	5	3	2				
272											1	4	3	7	9	4	5	4	2			1	
273												1	1	1	6	1	1	2				1	
274												1	1	1	4	5	1	7				1	
275												1	1	1	2	1	2	1				1	
276												1	1	1	2	1	1	1				1	
278												1	1	1	1	1	1	1				1	
280												1	1	1	1	1	1	1				1	
281												1	1	1	1	1	1	1				1	
282												2	2	2	5	1	3	2				2	
283												1	1	2	1	1	1	1				1	
285												1	1	1	1	1	1	1				1	
286												1	1	1	1	1	1	1				1	
287												1	1	1	1	1	1	1				1	
						1	1	6	20	21	15	54	52	71	60	77	39	43	29	18	12	6	4

CALLIONYMUS RETICULATUS NR 037  
LENGTH DISTRIBUTION IN 1.0 CM

	1	2	3	4	5	6	7	8	9	10
247	-	-	-	-	1	3	3	1	-	-
266	-	-	-	1	-	3	3	1	-	-
267	-	-	-	-	-	2	-	-	1	-
270	-	-	-	-	-	-	2	1	-	-
271	-	-	-	-	-	2	2	-	-	-
272	-	-	-	-	2	-	1	2	-	-
273	-	-	-	-	-	2	1	2	-	-
274	-	-	-	-	-	3	3	-	-	1
276	-	-	-	-	-	3	1	-	-	-
279	-	-	-	-	1	-	-	-	-	-
280	-	-	-	1	8	6	13	1	-	-
281	-	-	-	1	-	3	4	2	-	1
282	-	-	-	1	1	13	12	6	1	2
285	-	-	-	-	-	2	-	-	-	-
287	-	-	-	-	3	7	4	-	-	-
-	-	-	-	3	14	38	51	18	6	5

POMATOSCHISTUS MICROPS NR 041  
LENGTH DISTRIBUTION IN 0.5 CM

	1	2	3	4	5	6	7	8
243	-	-	-	-	-	2	8	2
244	-	-	-	-	-	-	1	2
284	-	-	-	-	-	-	-	1
-	-	-	-	-	-	2	9	5

POMATOSCHISTUS PICTUS NR 042  
LENGTH DISTRIBUTION IN 0.5 CM

	1	2	3	4	5	6	7	8	9
244	-	-	-	-	-	-	-	1	-
246	-	-	-	-	3	2	1	-	-
247	-	-	-	-	-	3	-	-	-
273	-	-	-	-	-	3	1	-	-
274	-	-	-	-	-	-	1	-	-
275	-	-	-	-	-	1	5	-	-
276	-	-	-	-	-	1	7	1	-
278	-	-	-	-	-	-	4	3	1
280	-	-	-	-	-	-	1	-	-
283	-	-	-	-	-	-	-	1	-
284	-	-	-	-	-	1	1	1	-
285	-	-	-	-	2	9	7	-	-
286	-	-	-	-	6	-	-	-	-
287	-	-	-	-	-	-	-	-	-
-	-	-	-	-	8	15	36	9	1

POMATOSCHISTUS LOZANOI NR 043  
LENGTH DISTRIBUTION IN 0.5 CM

	1	2	3	4	5	6	7	8	9	10	11	12
243	-	-	-	-	-	1	6	13	12	5	10	4
244	-	-	-	-	-	-	3	4	5	2	2	2
245	-	-	-	-	-	-	3	2	1	-	-	-
246	-	-	-	-	-	2	6	2	2	-	-	-
247	-	-	-	-	-	9	15	8	2	-	-	-
256	-	-	-	-	-	7	14	4	4	-	-	-
257	-	-	-	-	-	-	-	-	-	-	-	-
261	-	-	-	-	-	-	-	-	-	-	-	-
263	-	-	-	-	-	1	4	2	1	-	-	-
264	-	-	-	-	-	6	18	40	26	17	5	1
265	-	-	-	-	-	3	20	29	31	14	4	1
266	-	-	-	-	-	1	2	7	8	4	1	-
267	-	-	-	-	-	2	1	2	5	-	-	-
268	-	-	-	-	-	1	10	11	9	5	2	-
273	-	-	-	-	-	1	4	9	6	3	-	-
274	-	-	-	-	-	1	7	2	-	1	-	-
275	-	-	-	-	-	1	5	10	12	7	5	-
276	-	-	-	-	-	-	-	-	-	-	-	-
277	-	-	-	-	-	-	-	-	-	1	1	-
278	-	-	-	-	-	-	-	-	-	4	-	-
279	-	-	-	-	-	1	4	12	16	17	5	-
280	-	-	-	-	-	2	12	23	25	15	7	-
281	-	-	-	-	-	-	13	14	13	5	1	-
283	-	-	-	-	-	-	4	6	5	3	1	-
284	-	-	-	-	-	1	1	8	11	8	4	-
285	-	-	-	-	-	-	6	15	11	8	4	-
287	-	-	-	-	-	9	4	7	-	2	1	-
-	-	-	-	-	-	3	40	145	268	220	125	40
-	-	-	-	-	-	-	-	-	-	-	-	10

POMATOSCHISTUS MINUTUS NR 044  
LENGTH DISTRIBUTION IN 0.5 CM

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
243	-	-	-	-	-	-	7	14	18	23	16	17	9	3	-
244	-	-	-	-	-	1	1	11	16	11	5	2	1	-	-
245	-	-	-	-	-	-	2	5	7	6	1	1	-	-	-
246	-	-	-	-	-	-	1	3	5	4	4	4	2	-	-
247	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
251	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
253	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-
254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
256	-	-	-	-	-	1	21	28	10	1	-	-	-	-	-
257	-	-	-	-	-	12	42	52	35	18	8	1	-	-	-
258	-	-	-	-	-	1	7	15	15	6	5	1	-	-	-
259	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
261	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
263	-	-	-	-	-	-	-	4	8	3	3	3	1	1	1
264	-	-	-	-	-	-	-	2	11	23	10	4	2	1	-
265	-	-	-	-	-	-	1	3	24	27	11	8	2	2	-
266	-	-	-	-	-	-	-	1	3	7	2	1	1	-	-
267	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
268	-	-	-	-	-	-	1	7	13	9	5	2	-	-	-
270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
272	-	-	-	-	-	-	-	-	-	1	1	3	2	-	-
273	-	-	-	-	-	-	-	3	15	18	6	3	2	-	-
274	-	-	-	-	-	-	6	22	40	29	8	3	1	-	-
275	-	-	-	-	-	-	4	19	17	14	4	1	1	-	-
276	-	-	-	-	-	-	2	6	16	19	3	5	-	-	-
277	-	-	-	-	-	1	3	1	-	2	-	-	-	-	-
278	-	-	-	-	-	3	11	15	17	12	2	3	10	3	-
279	-	-	-	-	-	-	2	14	25	18	6	3	3	2	1
280	-	-	-	-	-	-	-	7	12	16	2	3	2	1	-
281	-	-	-	-	-	1	8	25	32	35	8	3	1	1	-
283	-	-	-	-	-	1	3	10	14	18	6	9	4	1	-
284	-	-	-	-	-	-	5	22	24	35	15	4	5	-	-
285	-	-	-	-	-	-	3	23	17	12	14	4	4	-	-
286	-	-	-	-	-	-	5	12	12	8	3	2	1	-	-
287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	23	124	351	481	451	205	94	40	13	1

POMATOSCHISTUS NORVEGICUS NR 045  
LENGTH DISTRIBUTION IN 0.5 CM

-	1	2	3	4	5	6	7	8	9	10
250	-	-	-	-	-	2	2	2	1	-
251	-	-	-	-	-	11	21	16	-	-
253	-	-	-	-	-	8	36	23	1	1
254	-	-	-	-	1	17	50	30	2	-
255	-	-	-	-	-	2	5	1	-	-
258	-	-	-	-	-	2	7	6	1	-
259	-	-	-	-	-	-	23	11	-	-
260	-	-	-	-	-	-	8	5	2	-
261	-	-	-	-	1	4	35	18	4	-
262	-	-	-	-	-	-	-	2	-	-
263	-	-	-	-	-	1	4	2	1	-
264	-	-	-	-	-	-	3	2	-	-
267	-	-	-	-	-	-	2	-	1	-
268	-	-	-	-	-	-	1	-	1	-
270	-	-	-	-	-	2	1	3	1	1
272	-	-	-	-	-	-	2	2	-	-
-	-	-	-	-	2	49	200	123	15	2

EUTRIGLA GURNARDUS NR 046  
LENGTH DISTRIBUTION IN 1.0 CM

-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
247	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-	-	-	1	5	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-
251	-	-	-	-	-	-	-	-	2	5	15	14	12	2	1	-	-	-	-	-	-	-	-	-	-	-
252	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
253	-	-	-	-	-	-	-	1	-	-	2	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-
254	-	-	-	-	-	-	-	-	1	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	1	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
256	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
259	-	-	-	-	-	-	-	-	-	-	2	9	5	6	-	-	-	-	-	-	-	-	-	-	-	-
260	-	-	-	-	-	-	-	-	-	-	2	8	-	2	-	-	-	-	-	-	-	-	-	-	-	-
261	-	-	-	-	-	-	-	-	-	-	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-
262	-	-	-	-	-	-	-	-	-	-	2	25	15	7	5	-	-	2	1	-	-	-	-	-	-	1
263	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-
270	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
271	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
272	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
274	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
275	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
276	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
282	-	-	-	-	-	-	-	-	-	-	1	1	1	2	1	1	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	1	-	3	5	8	34	79	40	22	7	1	1	2	1	-	-	-	1	-	-	1

AGONUS CATAPHRACTUS NR 051														
LENGTH DISTRIBUTION IN 1.0 CM														
-	1	2	3	4	5	6	7	8	9	10	11	12	13	14
245	-	-	-	-	-	-	-	-	1	-	-	-	-	-
247	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250	-	-	-	-	-	-	-	-	-	-	-	-	-	1
259	-	-	-	-	1	2	1	-	-	1	-	-	-	-
260	-	-	-	-	-	-	1	-	-	-	-	-	-	-
263	-	-	-	-	1	1	-	-	-	-	-	-	-	-
268	-	-	-	-	-	1	1	-	-	-	-	-	-	-
272	-	-	-	-	-	-	-	1	-	-	-	-	-	-
277	-	-	-	-	-	-	-	-	-	-	-	-	1	-
282	-	-	-	-	1	1	1	1	1	-	-	-	-	-
285	-	-	-	-	-	-	-	1	-	-	-	-	-	-
-	-	-	-	-	3	5	4	4	2	1	-	-	1	1

ARNOGLOSSUS LATERNA NR 057  
 LENGTH DISTRIBUTION IN 1.0 CM

-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
246	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
247	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-
248	-	-	-	-	1	-	-	-	-	6	1	-	-	2	-	-
250	-	-	-	-	-	3	3	-	-	4	8	5	-	-	-	-
251	-	-	-	-	1	-	-	-	2	1	2	3	-	-	-	-
252	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-
253	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-
254	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
255	-	-	-	-	-	-	-	-	-	2	1	-	1	-	-	-
258	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
259	-	-	-	-	4	1	-	-	-	2	1	1	2	-	-	-
260	-	-	-	-	1	-	-	-	-	3	4	2	1	-	-	-
261	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1
262	-	-	-	-	-	-	-	-	-	2	5	3	3	4	-	-
263	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
264	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-
265	-	-	2	1	1	3	-	-	-	1	-	-	-	-	-	-
266	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
268	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
269	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
270	-	-	-	-	1	1	-	-	-	-	4	1	-	-	-	-
271	-	-	-	-	-	1	-	-	-	1	7	4	2	-	-	-
272	-	-	-	-	-	-	1	1	-	1	-	1	-	-	-	-
274	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
275	-	-	-	-	-	1	1	2	-	-	-	-	-	-	-	-
276	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
280	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-
281	-	-	-	-	2	1	1	-	-	-	-	-	-	-	-	-
282	-	-	-	-	-	2	1	-	-	-	-	1	-	-	-	-
287	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
-	-	-	2	2	13	15	10	5	3	24	37	26	13	7	-	1

HIPPOGLOSSOIDES PLATESSOIDES NR 060  
 LENGTH DISTRIBUTION IN 1.0 CM

-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
248	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	1	-	-	-	-
250	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	4	2	1	-	-	1	-	-	-
251	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	-	-	-
253	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2	1	-	-	-	-	-	-
254	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-
260	-	-	-	-	-	-	-	-	2	-	-	-	-	1	2	4	2	1	2	-	1	-	-	-
261	-	-	-	-	-	-	-	-	2	1	1	-	-	1	8	4	3	2	2	1	-	1	-	-
262	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	3	2	2	1	1	-	1	-
263	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	1	2	-	-	-
271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	4	2	-	-	1	-	-	-
272	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-
282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	4	1	1	1	-	8	17	20	19	11	10	5	5	1	1	-





BUGLOSSIDUM LUTEUM NR 065  
LENGTH DISTRIBUTION IN 0.5 CM

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
246	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-
248	-	-	-	-	-	-	-	-	-	2	-	1	4	3	1	-	1	1	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-	1	-	-	-	1	2	2	-	1	-	1	1	1	-	-	-	-	-	-
254	-	-	-	-	-	-	-	-	-	-	-	3	2	2	1	3	1	1	1	1	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-	1	2	4	3	1	2	3	2	1	1	1	1	-	-	-	-	-
256	-	-	-	-	-	-	-	-	-	2	4	5	5	2	2	3	2	2	3	4	1	1	-	-	-	-
257	-	-	-	-	-	-	-	-	-	4	6	3	3	2	-	1	-	1	1	1	1	-	-	-	-	-
258	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
259	-	-	-	-	-	-	-	-	-	-	-	4	2	2	1	1	1	1	3	2	2	1	2	-	-	-
262	-	-	-	-	-	-	-	-	-	-	1	17	11	1	2	1	2	2	2	2	2	1	2	1	-	-
263	-	-	-	-	-	-	1	3	-	1	2	26	16	2	2	6	6	4	4	4	4	4	-	1	-	-
264	-	-	-	-	-	-	6	6	2	-	3	17	15	8	2	5	1	2	3	3	1	1	-	-	-	-
265	-	-	-	-	-	-	-	-	-	-	3	17	15	8	2	5	1	2	3	3	1	1	-	-	-	-
266	-	-	-	-	-	-	-	-	-	-	3	31	21	13	10	8	13	8	8	3	3	5	3	-	-	-
267	-	-	-	-	-	-	-	-	-	-	3	50	55	14	9	9	28	9	14	14	1	5	3	-	-	-
268	-	-	-	-	-	-	-	-	-	-	-	23	50	14	9	9	9	14	14	1	2	2	-	-	-	1
269	-	-	-	-	-	-	-	-	-	-	-	1	1	2	2	2	1	1	1	4	4	2	-	-	-	2
270	-	-	-	-	-	-	-	-	-	-	-	1	2	1	1	1	1	1	1	5	4	1	-	-	-	-
271	-	-	-	-	-	-	-	-	-	-	-	2	12	9	9	7	5	5	2	9	7	7	-	-	-	-
272	-	-	-	-	-	-	-	-	-	-	3	15	15	12	5	12	7	5	5	5	3	3	-	-	-	-
273	-	-	-	-	-	-	-	-	-	-	-	8	35	35	16	16	5	3	3	3	3	3	-	3	-	-
274	-	-	-	-	-	-	-	-	-	-	-	5	11	21	24	-	-	-	5	3	3	3	-	3	-	-
275	-	-	-	-	-	-	-	-	-	1	1	1	2	3	4	4	3	3	5	3	2	2	1	-	-	-
279	-	-	-	-	-	-	-	-	-	-	-	1	1	2	3	3	2	1	1	1	1	-	-	-	-	-
280	-	-	-	-	-	-	-	-	-	1	1	5	4	4	4	2	2	1	1	1	1	1	-	-	-	-
281	-	-	-	-	-	-	-	-	-	1	1	12	8	9	6	6	1	1	1	3	3	1	1	-	-	-
282	-	-	-	-	-	-	3	9	3	1	3	9	23	44	29	9	3	3	3	3	3	3	-	6	3	-
285	-	-	-	-	-	-	5	-	-	-	-	5	15	15	-	5	-	-	5	-	-	-	-	-	-	-
286	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
287	-	-	-	-	-	-	-	-	-	-	-	2	3	2	2	3	1	1	1	-	-	-	-	-	-	-
-	-	-	-	-	-	-	16	19	13	5	27	184	273	266	153	105	78	75	67	62	33	19	8	7	2	1

SOLEA SOLEA NR 066  
LENGTH DISTRIBUTION 1.0 CM

	-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
243	-	-	-	-	-	-	-	1	3	2	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
244	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
247	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
248	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
278	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
284	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	1	-	1	3	2	5	1	-	-	-	-	-	-	-	-	-	-	1	-	2	2	-	1	-	-	-	1	-	1	-	1

PSAMECHINUS MILIARIS NR 204  
LENGTH DISTRIBUTION 0.1 CM

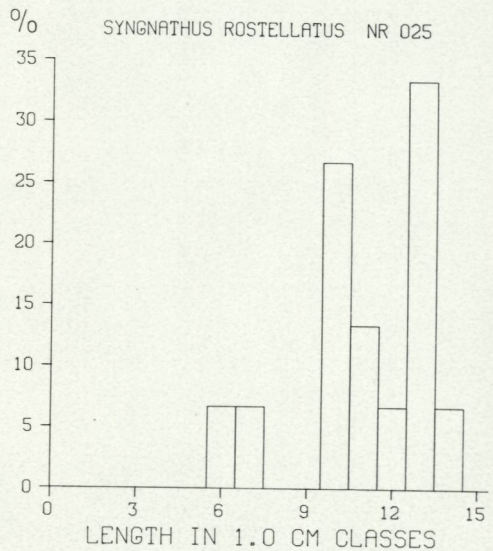
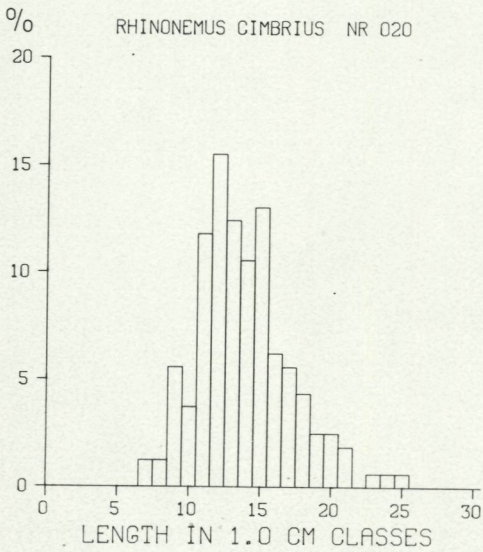
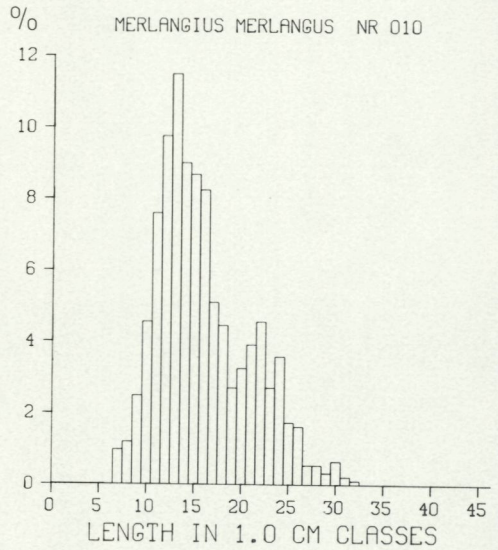
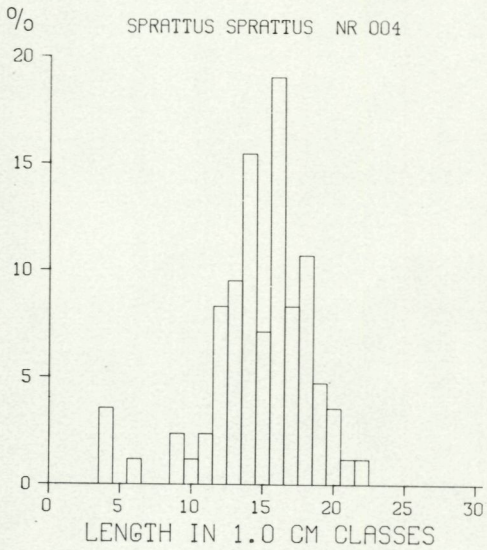
	-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
251	-	-	-	-	1	-	1	1	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
256	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	9	8	5	2	5	1	-	-	-	-	-	-
257	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
258	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-
259	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	10	8	6	10	8	6	10	4	2	-	-	-	-	-	-	-	-	-	-	-
262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	3	2	1	5	3	-	1	-	-	-	-	-	-	-	-	-
263	-	-	-	-	-	-	2	1	1	2	3	-	-	1	-	1	-	1	1	1	2	-	1	4	3	1	1	1	-	-	-	-	-	-	1
268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	1	-	3	2	2	2	6	-	3	2	1	3	1	11	12	10	15	18	16	11	6	8	4	4	1	1	1	1	1	-	-

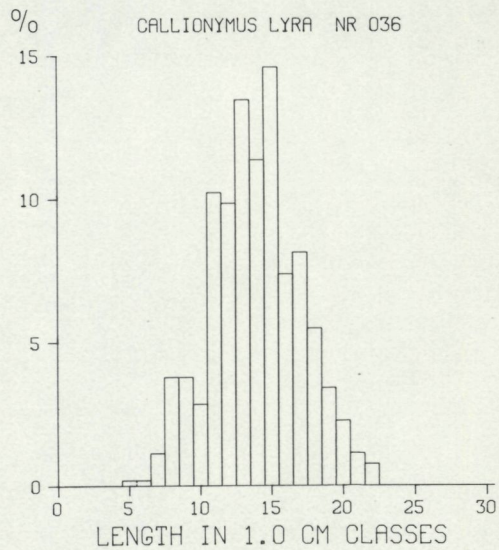
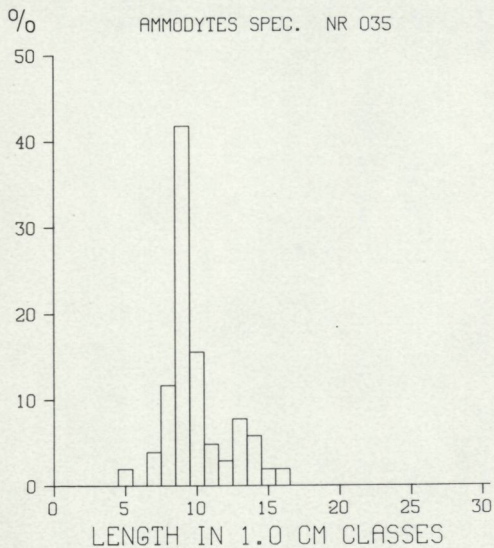
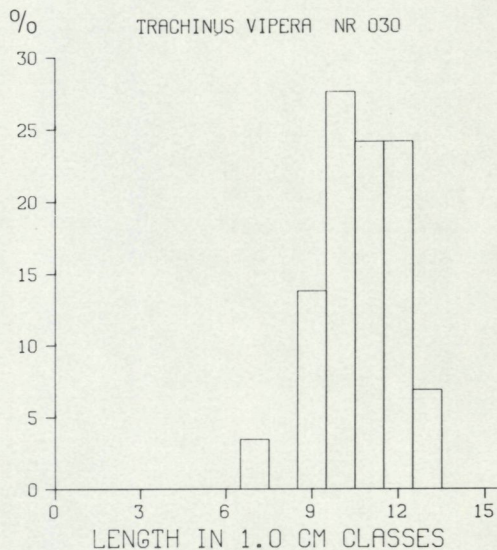
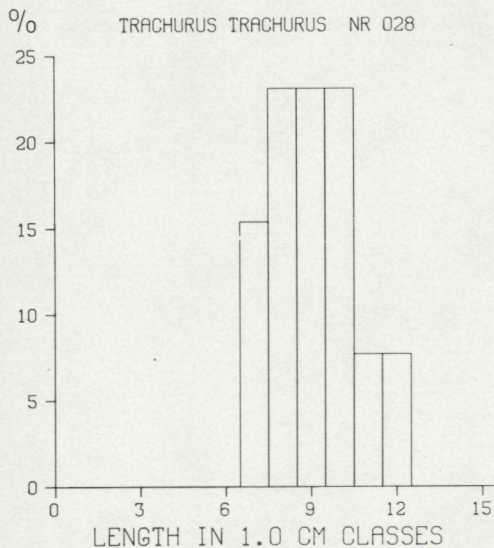
ECHINOCARDIUM CORDATUM NR 207  
 LENGTH DISTRIBUTION 0.1 CM

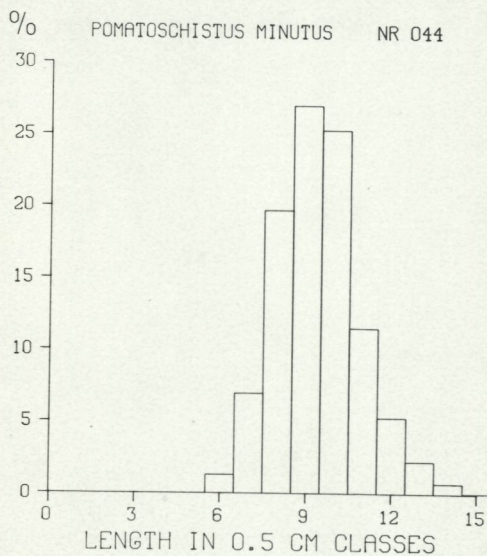
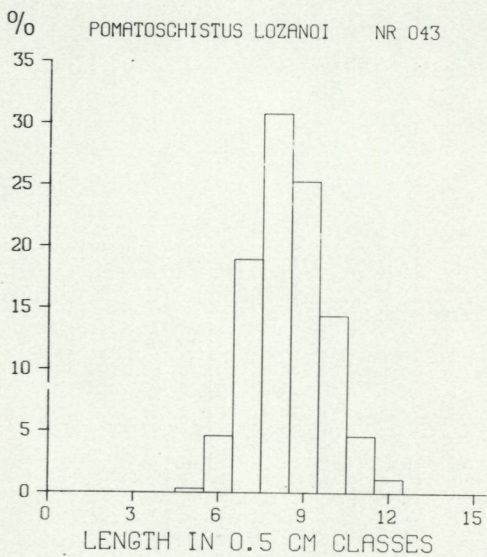
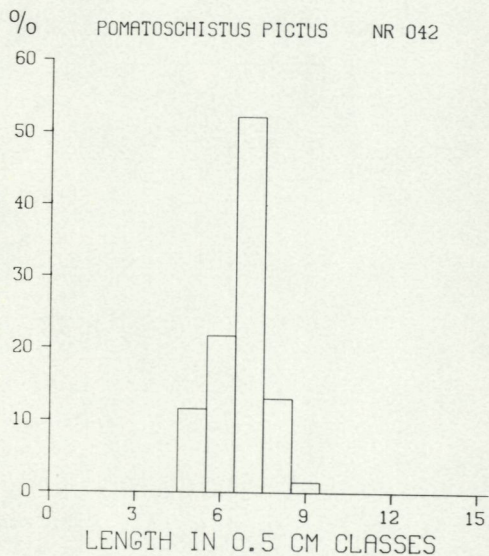
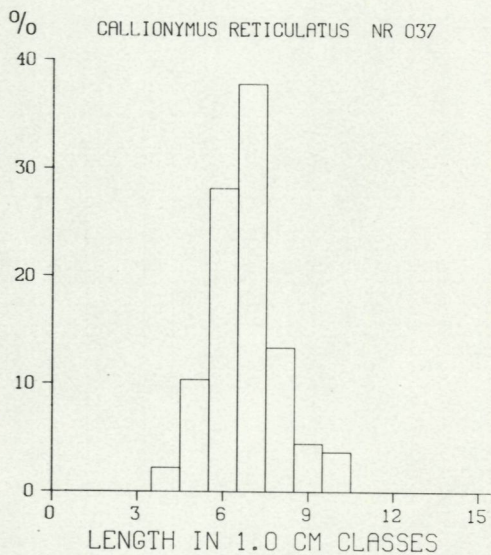
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243	-	-	-	-	-	-	-	-	2	3	5	6	8	7	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
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281	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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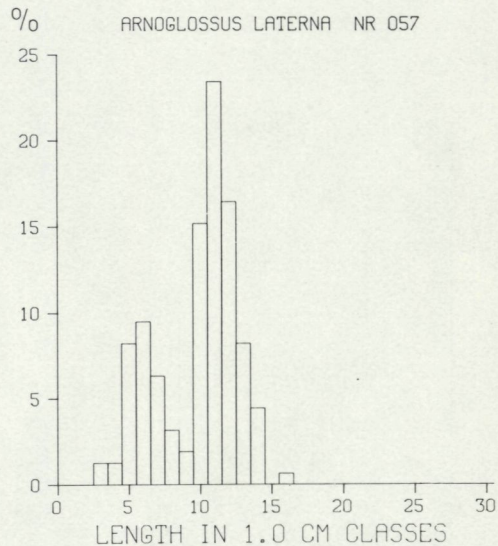
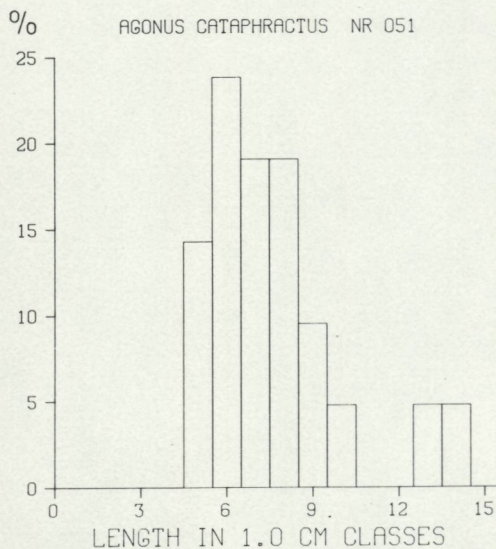
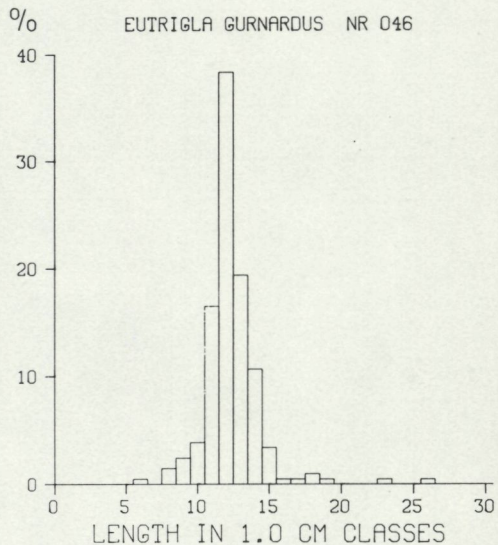
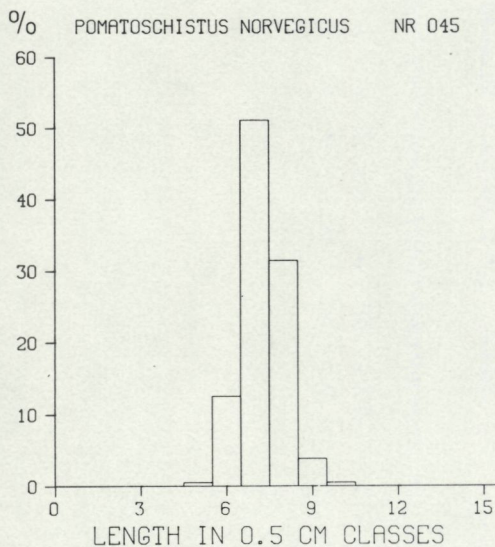
ECHINOCARDIUM FLAVESCENS NR 208  
 LENGTH DISTRIBUTION IN 0.1 CM

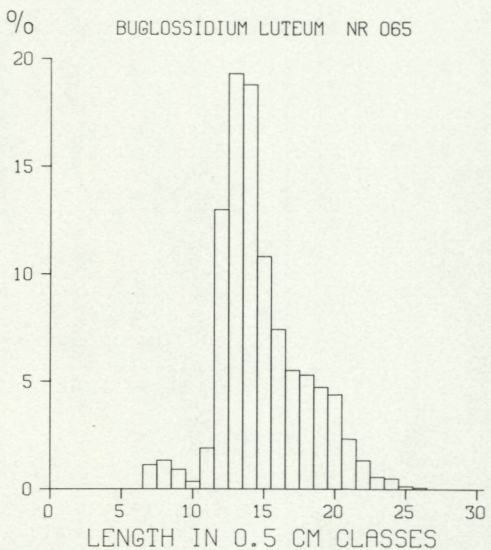
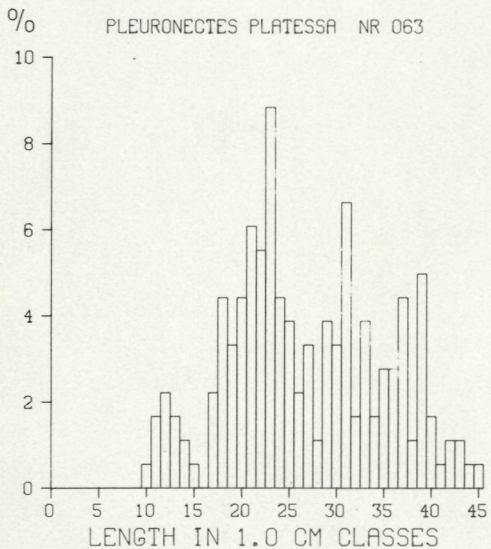
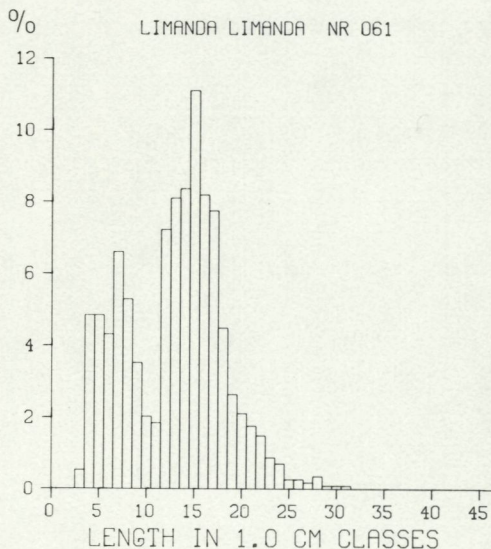
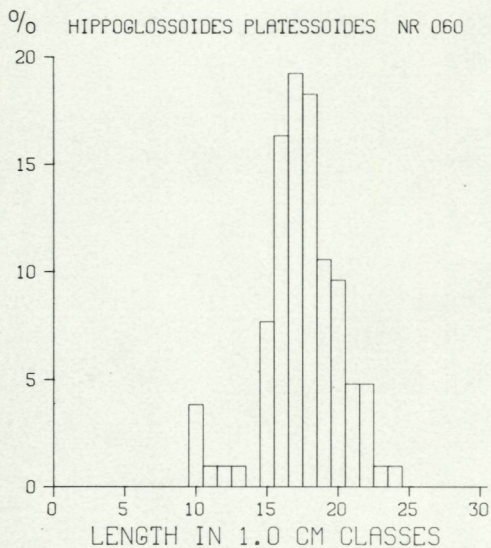
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262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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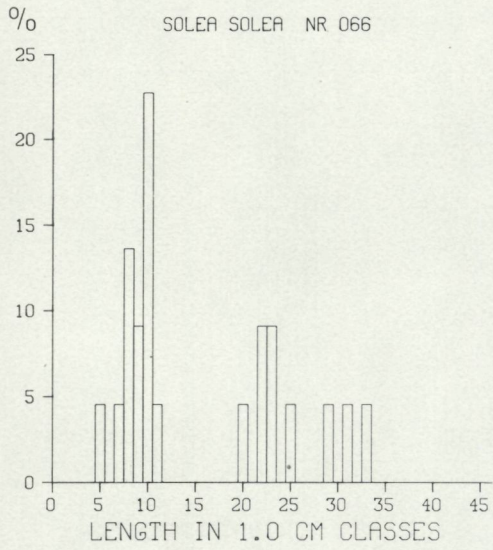


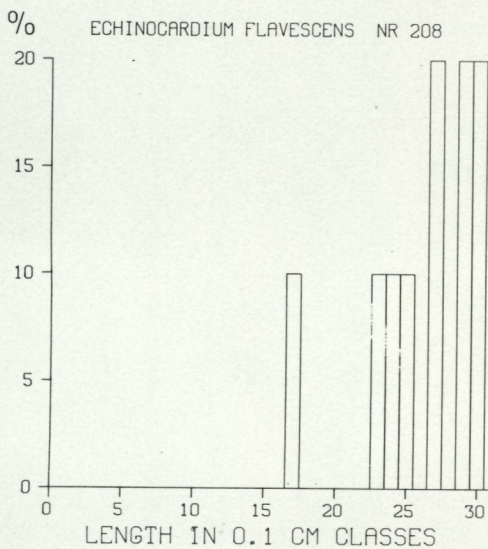
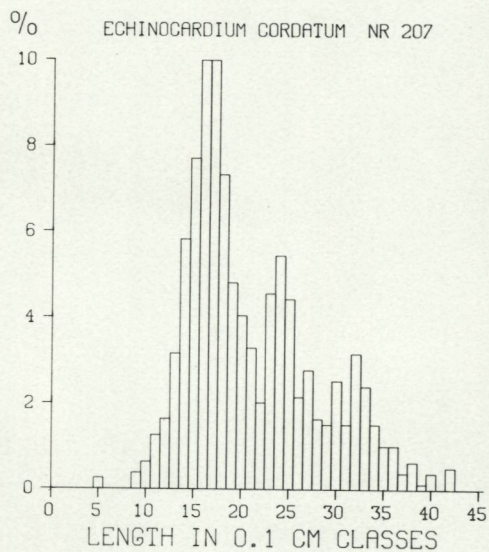
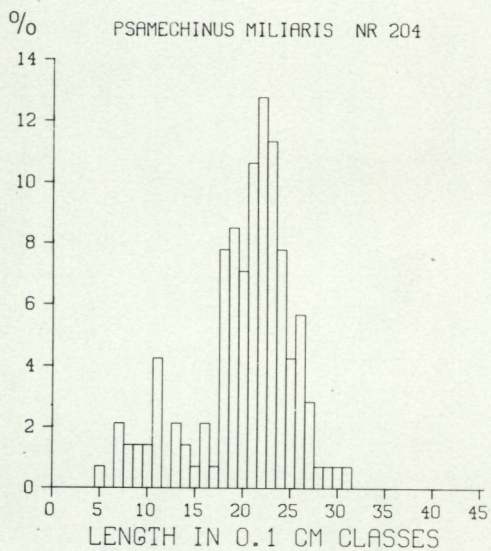












SPECIES INDEX

SPECIES	NR	OCCURRENCE AT STATIONS PAGE	DISTRIBUTION CHARTS PAGE	LENGTH DISTRIBUTION PAGE	LENGTH HISTOGRAMS PAGE
AGONUS CATAPHRACTUS	051	6-8	34	82	93
ALLOTHEUTHIS SUBULATA	404	12-14	71	-	-
AMMODYTES SPEC	035	6-8	24	77	91
AMPHIURA FILIFORMIS	211	9-11	58	-	-
ANGULUS FABULA	336	12-14	-	-	-
ANGULUS TENUIS	337	12-14	-	-	-
APORRHAIUS PESPELICANI	352	12-14	-	-	-
APHRODITE ACULEATA	502	12-14	72	-	-
ARNOGLOSSUS LATERNA	057	6-8	35	83	93
ASTERIAS RUBENS	201	9-11	52	-	-
ASTROPECTEN IRREGULARIS	202	9-11	53	-	-
BUCCINUM UNDATUM	358	12-14	69	-	-
BUGLOSSIDIUM LUTEUM	065	6-8	40	87	94
CALLIONYMUS LYRA	036	6-8	25	78	91
CALLIONYMUS RETICULATUS	037	6-8	26	79	92
CARCINUS MAENAS	126	9-11	-	-	-
CARDIUM ECHINATUM	323	12-14	64	-	-
CENTRONOTUS GUNELLUS	031	6-8	-	-	-
CHLAMYS OPERCULARIS	308	12-14	62	-	-
CILIATA MUSTELA	021	6-8	20	-	-
CLUPEA HARENGUS	003	6-8	-	-	-
CORBULA GIBBA	345	12-14	-	-	-
CORYSTES CASSIVELAUNUS	113	9-11	47	-	-
CRANGON ALLMANI	107	9-11	44	-	-
CRANGON CRANGON	108	9-11	45	-	-
CULTELLUS PELLUCIDUS	338	12-14	-	-	-
CYCLOPTERUS LUMPUS	054	6-8	-	-	-
CYPRINA ISLANDICA	068	6-8	63	-	-
DONAX VITTATUS	332	12-14	-	-	-
EBALIA CRANCHII	134	9-11	-	-	-
EBALIA TUMEFACTA	133	9-11	-	-	-
ECHINOCARDIUM CORDATUM	207	9-11	55	89	96
ECHINOCARDIUM FLAVESCENS	208	9-11	56	89	96
ENGRAULIS ENCRASICOLUS	006	6-8	-	-	-
ENTELURUS AEGUOREUS	023	6-8	-	-	-
EUTRIGLA GURNARDUS	046	6-8	32	81	93
GADUS MORHUA	016	6-8	-	75	-
HYPPOGLOSSOIDES PLATESSOIDES	060	6-8	36	84	94
HIPPOLYTE VARIANS	104	9-11	42	-	-
HYAS COARCTATUS	118	9-11	50	-	-
HYPEROPLUS LANCEOLATUS	034	6-8	-	-	-
INACHUS DORSETTENSIS	115	9-11	-	-	-
LEPIDORHOMBUS WHIFFIAGONIS	055	6-8	-	-	-
LIMANDA LIMANDA	061	6-8	37	85	94
LUMPENUS LAMPRETAIFORMIS	032	6-8	-	-	-
MARCOPIPUS ARCUATUS	120	9-11	-	-	-
MACROPIPUS HOLSATUS	123	9-11	51	-	-

SPECIES INDEX

SPECIES	NR	OCCURRENCE AT STATIONS PAGE	DISTRIBUTION CHARTS PAGE	LENGTH DISTRIBUTION PAGE	LENGTH HISTOGRAMS PAGE
MACROPIPIUS HARMOREUS	124	9-11	-	-	-
MACROPODIA ROSTRATA	116	9-11	48	-	-
MACROPODIA TENUIROSTRIS	117	9-11	49	-	-
MACTRA CORALLINA	331	12-14	67	-	-
MERLANGIUS MERLANGUS	010	6-8	16	74	90
MYTILUS EDULIS	306	12-14	-	-	-
NATICA CATENA	353	12-14	-	-	-
NATICA POLIANA	354	12-14	-	-	-
NEPHROPS NORVEGICUS	135	9-11	-	-	-
NEPTUNEA ANTIQUA	357	12-14	68	-	-
OPHIOTRIX FRAGILIS	210	9-11	57	-	-
OPHIURA AFFINIS	214	9-11	61	-	-
OPHIURA ALBIDA	212	9-11	59	-	-
OPHIURA TEXTURATA	213	9-11	60	-	-
OSMERUS EPERLANUS	008	6-8	-	-	-
PAGURUS BERNHARDUS	109	9-11	46	-	-
PANDALINE BREVIROSTRIS	103	9-11	-	-	-
PANDALUS MONTAGUI	102	9-11	-	-	-
PECTINARIA SPEC	501	12-14	-	-	-
PINNOTHERES PISUM	128	9-11	-	-	-
PLATICHTHYS FLESUS	062	6-8	38	-	-
PLEURONECTES PLATESSA	063	6-8	39	86	94
POMATOSCHISTUS LOZANOI	043	6-8	29	80	92
POMATOSCHISTUS MICROPS	041	6-8	27	79	-
POMATOSCHISTUS MINUTUS	044	6-8	30	80	92
POMATOSCHISTUS NORVEGICUS	045	6-8	31	81	93
POMATOSCHISTUS PICTUS	042	6-8	28	79	92
PONTHOPHILUS TRISPINOSUS	105	9-11	43	-	-
PROCESSA EDULIS	101	9-11	-	-	-
PSAMMECHINUS MILIARIS	204	9-11	54	88	96
PYCNOGONIUM LITTORALE	138	9-11	-	-	-
RHINONEMUS CIMBRIUS	020	6-8	19	76	90
SCOPHTHALMUS MAXIMUS	058	6-8	-	-	-
SEPIOLA ATLANTICA	402	12-14	70	-	-
SOLEA SOLEA	066	6-8	41	88	95
SPATANGUS PURPUREUS	206	9-11	-	-	-
SPISULA ELLIPTICA	329	12-14	66	-	-
SPRATTUS SPRATTUS	004	6-8	15	73	90
SYNGNATHUS ROSTELLATUS	025	6-8	21	76	90
TRACHINUS VIPERA	030	6-8	23	77	91
TRACHURUS TRACHURUS	028	6-8	22	76	91
TRIGLA LUCERNA	047	6-8	33	-	-
TRISOPTERUS LUSCUS	012	6-8	17	75	-
TRISOPTERUS MINUTUS	013	6-8	18	-	-
TURRITELLA COMMUNIS	347	12-14	-	-	-
VENUS STRIATULA	325	12-14	65	-	-

Erratum

In "AURELIA"-cruise report 1 (haul nr. 54 and 55) and 2 (haul nr. 117) the occurrence of *Upogebia stellata* has been mentioned. Our specimens, however, have recently been identified as *Upogebia deltaura* by Dr. L.B. Holthuis, Rijksmuseum van Natuurlijke Historie, Leiden, except one specimen of *U. stellata*, occurring in haul nr. 54.

