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Check list for sublittoral macro-infauna
sampled between 1970 and 1975 in four Bay of Fundy estuaries

AUTHORSHIP

D. J. Wildish and A. J. Wilson

Establishment

Department of the Environment
Fisheries and Marine Service
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Dated JUL 1976

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INTRODUCTION

The purpose of this report is to provide a complete list of the species, totalling 254, of sublittoral macro-infauna identified chiefly by the Canadian Oceanographic Identification Centre, Ottawa (COIC), but also by the Identification Centre, St. Andrews (IC) from the authors' collections between 1970 and 1975. Four sampling areas, Saint John Harbour, L'Etang, Musquash estuary, and St. Croix estuary, are included. Station details within the area are given in the appropriate report elsewhere (see Wildish et al., 1972; Wildish et al., 1974; Wildish, 1976a (in preparation); Wildish, 1976b (in preparation); Wildish and Wilson, 1976 (in preparation)).

The list is based on 652 grab hauls at 42 different sampling stations.

METHODS

Most samples were taken with a 0.1 m² Smith-McIntyre grab, a few with a smaller Petersen grab (Wildish, 1976c (in preparation)). Although early samples (Wildish et al., 1972; Wildish et al., 1974) were sieved through a 3-mm mesh screen and samples lumped in triplicate, all subsequent samples have been sieved through a 1-mm mesh brass screen and individual hauls sorted to remove most non-living material, preserved in formalin or alcohol, before dispatch for detailed identification.

RESULTS AND DISCUSSION

The list of identified species is shown in Table 1. The nomenclature conforms in general to that of Gosner (1971) and for molluscs to Abbott (1973). Entries without a specific name are only included where it is certain that they represent a species not appearing elsewhere in the list but, for some reason, such as damage, cannot be assigned a specific name.

The COIC number, where appropriate, and 3-digit number previously used (Wildish and Phillips, 1974) are included. To facilitate cross checking a list of species' identification numbers (Table 2), new to the previous list (Wildish and Phillips, 1974) is included. Nomenclatural changes and corrected names are shown in Table 3.

Presented in Table 4 is a list of species' identification numbers new to L'Etang, collected in 1975 and identified by the Identification Centre at St. Andrews.

Three sources of type specimens are available to check identities included in this list:

1. COIC reference collection, see their numbers in the right-hand column of Table 1;
2. Authors' reference collection, now located in the Identification Centre, St. Andrews, reference numbers on the left-hand column;
3. L'Etang 1975 collection is housed in the Identification Centre, St. Andrews. Their numbers, preceded by IC, are given in the right-hand column in cases where a COIC number is not available.

ACKNOWLEDGMENTS

We wish to thank the Captain and crew of M.B. *MALLOTUS* and M.V. *PANDALUS II* for help in sampling.

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infauna of St. Croix estuary. Fish. Res. Board Can.
MS Rep. (in preparation).

Table 1. Numbering and nomenclature for identified genera and species.

Number	Name	COIC number
001	<i>Tonicella marmorea</i> (Fabricius, 1780)	None
002	<i>Ischnochiton albus</i> (L. 1767)	15B-006
010	<i>Acmaea testudinalis</i> (O.F. Müller, 1776)	10B-006
011	<i>Margarites groenlandica</i> (Gmelin, 1790)	None
012	<i>Margarites costalis</i> (Gould, 1841)	16B-007
013	<i>Lacuna vineta</i> (Montagu, 1803)	None
014	<i>Littorina littorea</i> (L., 1758)	11B-021
015	<i>Hydrobia totteni</i> Morrison, 1954	18B-004
016	<i>Trichotropis borealis</i> Broderip & Sowerby, 1829	None
017	<i>Lunatia triseriata</i> (Say, 1826)	17B-006
018	<i>Lunatia pallida</i> (Broderip & Sowerby, 1829)	17B-006
019	<i>Velutina undata</i> (Brown, 1839)	18B-007
020	<i>Velutina velutina</i> Müller, 1776	None
021	<i>Mitrella rosacea</i> (Gould, 1841)	10B-010
022	<i>Buccinum undatum</i> L., 1758	17B-009
023	<i>Neptunea</i> sp. aff. <i>Lyrata decemcostata</i> (Say, 1826)	11B-015
024	<i>Colus stimpsoni</i> (Mörch, 1867)	10B-010
025	<i>Colus pubescens</i> (Verrill, 1882)	11B-009
026	<i>Propebela turricula</i> (Montagu, 1803)	11B-024
027	<i>Cylichna alba</i> (Brown, 1827)	16B-002
028	<i>Dentalium entale stimpsoni</i> (Henderson, 1920)	10B-007
029	<i>Crucibulum striatum</i> Say, 1824	18B-007
030	<i>Oenopota bicarinata</i> (Couthouy, 1834)	None
031	<i>Nucella lapillus</i> (L., 1758)	None
032	<i>Nassarius trivittatus</i> (Say, 1822)	31B-069
033	<i>Urosalpinx cinerea</i> (Say, 1822)	None
034	<i>Lunatia heros</i> (Say, 1822)	None
035	<i>Alvania pelagica</i> (Stimpson, 1851)	None
036	<i>Mitrella lunata</i> (Say, 1826)	None
037	<i>Chaetoderma nitidulum</i> (Loven, 1844)	None
038	<i>Oenopota incisula</i> (Verrill, 1882)	None
039	<i>Alvania exarata</i> Stimpson, 1851	None
040	<i>Littorina saxatilis</i> (Olivi, 1792)	
042	<i>Alvania carinata</i> (Mighels & Adams, 1842)	IC 953
043	<i>Mitrella dissimilis</i> (Stimpson)	IC 952
044	<i>Puncturella noachina</i> (Linnaeus)	IC 196
045	<i>Margarites (olivaceus ?)</i> (Brown)	IC 188
046	<i>Colus pygmaea</i> (Gould, 1841)	IC 183
100	<i>Nucula proxima</i> Say, 1822	None
101	<i>Nucula delphinodonata</i> Mighels & Adams, 1842	17B-008
102	<i>Nuculana tenuisulcata</i> (Couthouy, 1838)	10B-007
103	<i>Yoldia sapotilla</i> (Gould, 1841)	16B-008
104	<i>Mytilus edulis</i> Linné, 1758	10B-001
105	<i>Musculus corrugatus</i> (Stimpson, 1851)	18B-001
106	<i>Musculus niger</i> (Gray, 1824)	10B-003
107	<i>Modiolus modiolus</i> (Linne, 1758)	None
108	<i>Crenella glandula</i> (Totten, 1834)	10B-007

Table 1 (cont'd).

Number	Name	COIC number
109	<i>Crassostrea virginica</i> (Gmelin, 1791)	None
110	<i>Placopecten magellanicus</i> (Gmelin, 1791)	None
111	<i>Astarte undata</i> Gould, 1841	15B-008
112	<i>Astarte crenata subaequilatera</i> Sowerby, 1854	16B-007
113	<i>Arctica islandica</i> (Linné, 1767)	10B-008
114	<i>Cyclocardia borealis</i> (Conrad, 1831)	10B-010
115	<i>Thyasira flexuosa</i> (Montagu, 1803)	17B-008
116	<i>Cerastoderma pinnulatum</i> (Conrad, 1831)	17B-007
117	<i>Macoma balthica</i> (L., 1758)	17B-003
118	<i>Mya arenaria</i> Linné, 1758	15B-020
119	<i>Hiatella arctica</i> (Linné, 1767)	13B-006
120	<i>Lyonsia hyalina</i> Conrad, 1831	13B-008
121	<i>Periploma leanum</i> (Conrad, 1831)	None
122	<i>Periploma</i> sp.	16B-002
123	<i>Musculus discors</i> var. <i>laevigata</i> Gray, 1824	15B-006
124	<i>Mulinia lateralis</i> (Say, 1822)	None
125	<i>Pitar morrhuanus</i> Linsley, 1848	None
126	<i>Nucula</i> sp. juvenile	None
127	<i>Periploma papyratium</i> (Say, 1822)	None
128	<i>Clinocardium ciliatum</i> (Fabricius, 1780)	None
129	<i>Periploma fragile</i> (Totten, 1835)	None
130	<i>Pandora gouldiana</i> Dall, 1886	None
131	<i>Yoldia myalis</i>	IC 224
132	<i>Lyonsia arenosa</i> (Müller)	IC 485
133	<i>Yoldiella</i> sp. juvenile	None
134	<i>Nuculana minuta</i> (Fabricius)	IC 920
135	<i>Anomia aculeata</i> (Gmelin, 1782)	IC 149
136	<i>Nucula tenuis</i> (Montagu)	IC 223
201	<i>Nereis virens</i> Sars, 1835	16B-006
202	<i>Nephtys (caeca ?)</i> (Fabricius, 1780)	22B-004
203	<i>Nephtys incisa</i> Malmgren, 1865	15B-002
204	<i>Nephtys ciliata</i> (O.F. Müller, 1789)	11B-020
205	<i>Nephtys discors</i> Ehlers, 1868	22B-001
206	<i>Harmothoe extenuata</i> (Grube, 1840)	17B-007
207	<i>Harmothoe imbricata</i> (Linné, 1767)	11B-007
208	<i>Lepidonotus squamatus</i> (Linné, 1758)	17B-007
209	<i>Gattyana cirrosa</i> (Pallas, 1766)	11B-021
210	<i>Hartmania moorei</i> Pettibone, 1955	17B-008
211	<i>Pholoe minuta</i> (Fabricius, 1780)	10B-003
212	<i>Ophioglycera gigantea</i> Verrill, 1855	11B-025
213	<i>Ammotrypane aulogaster</i> Rathke, 1843	15B-008
214	<i>Nereis zonata</i> Malmgren, 1867	30B-017
215	<i>Nephtys</i> sp.	22B-007
216	<i>Nephtys paradoxo</i> Malmgren, 1874	17B-001
217	<i>Antinoella sarsi</i> (Malmgren, 1865)	15B-010
218	<i>Aphrodita hastata</i> Moore, 1905	10B-007
219	<i>Aglaophamus circinata</i> Verrill, 1874	11B-024
220	<i>Nereis pelagica</i> L., 1758	11B-023
221	<i>Sthenelais limicola</i> (Ehlers, 1864)	31B-054
222	<i>Nereis diversicolor</i> O.F. Müller, 1771	30B-025

Table 1 (cont'd).

Number	Name	COIC number
224	<i>Laetmonice filicornis</i> Kinberg, 1855	None
260	<i>Phyllodoce maculata</i> (Linné, 1767)	18B-008
261	<i>Eteone flava</i> (Fabricius, 1780)	10B-003
262	<i>Eteone longa</i> (Fabricius, 1780)	18B-003
263	<i>Eteone trilineata</i> Webster & Benedict, 1887	11B-013
264	<i>Eteone heteropoda</i> Hartman, 1951	17B-001
266	<i>Eumida sanguinea</i> (Oersted, 1843)	11B-010
267	<i>Spio filicornis</i> O.F. Müller, 1775	None
268	<i>Glycera capitata</i> Oersted, 1843	13B-001
269	<i>Goniada maculata</i> Oersted, 1843	11B-013
270	<i>Scoelelepis</i> sp.	30B-022
271	<i>Syllis cornuta</i> Rathke, 1843	11B-022
272	<i>Notomastus</i> sp.	11B-014
273	<i>Praxillella gracilis</i> (Sars, 1861)	17B-002
274	<i>Praxillella praetermissa</i> (Malmgren, 1866)	18B-006
275	<i>Rhodine loveni</i> Malmgren, 1865	11B-002
276	<i>Clymenella torquata</i> (Leidy, 1855)	11B-022
277	<i>Travisia carnea</i> Verrill, 1873	11B-024
278	<i>Scalibregma inflatum</i> Rathke, 1843	30B-017
279	<i>Streblospio benedicti</i> ? Webster, 1879	18B-003
280	<i>Polydora</i> sp.	18B-006
281	<i>Ninoe nigripes</i> Verrill, 1873	16B-002
282	<i>Lumbrineris fragilis</i> (O.F. Müller, 1776)	22B-003
283	<i>Drilonereis magna</i> Webster & Benedict, 1887	15B-002
284	<i>Scoloplos</i> sp.	None
285	<i>Owenia fusiformis</i> * Delle Chiaje, 1844	None
286	<i>Phyllodoce mucosa</i> Oersted, 1843	31B-051
287	<i>Maldane sarsi</i> * Malmgren, 1865	None
288	<i>Maldanopsis elongata</i> * (Verrill, 1873)	None
289	<i>Phyllodoce groenlandica</i> * (Linné, 1767)	None
290	<i>Syllis gracilis</i> * Grube, 1840	None
291	<i>Exogone verugera</i> (Claparede, 1868)	None
292	<i>Drilonereis longa</i> Webster, 1879	None
294	<i>Lumbrinereis impatiens</i> (Claparede, 1866)	None
295	<i>Aricidea jeffreysii</i> (McIntosh, 1874)	None
296	<i>Cossura longocirrata</i> * Webster & Benedict, 1887	None
297	<i>Cirratulus grandis</i> Verrill, 1873	None
298	<i>Tharyx acutus</i> Webster & Benedict, 1887	None
299	<i>Paraonis gracilis</i> (Tauber, 1879)	None
340	<i>Pectinaria granulata</i> (Linné, 1767)	11B-013
341	<i>Pectinaria hyperborea</i> ? (Malmgren, 1866)	15B-006
342	<i>Ampharete acutifrons</i> (Grube, 1860)	15B-007
343	<i>Amphitrite johnstoni</i> Malmgren, 1866	15B-017
344	<i>Trichobranthus glacialis</i> Malmgren, 1866	17B-008
345	<i>Trichobranthus roseus</i> (Malmgren, 1874)	11B-025-26
346	<i>Terebellides stroemi</i> Sars, 1835	11B-016
347	<i>Pista maculata</i> (Dalyell, 1853)	11B-023
348	<i>Pista</i> sp.	22B-008

*Specimens too poor in condition to be confirmed to species.

Table 1 (cont'd)

Number	Name	COIC number
349	<i>Polycirrus</i> sp. 1	15B-006
350	<i>Polycirrus</i> sp. 2	11B-021
351	<i>Pherusa affinis</i> (Leidy, 1855)	18B-006
352	<i>Branchiomma infarcta</i> ? (Kroyer, 1856)	11B-010
353	<i>Brada villosa</i> (Rathke, 1843)	18B-006
354	<i>Spirorbis</i> sp.	13B-006
355	<i>Euchone</i> sp. ? (<i>rubrocincta</i>) (Sars, 1861)	11B-014
356	<i>Chone infundibuliformis</i> (Kroyer, 1856)	11B-015
357	<i>Sternaspis scutata</i> (Renier, 1807)	18B-006
358	<i>Polycirrus medusa</i> Grube, 1850	31B-051
359	<i>Brada granosa</i> Stimpson, 1854	None
360	<i>Melinna cristata</i> * (Sars, 1851)	None
361	<i>Potamilla neglecta</i> (Sars, 1851)	IC 310
362	<i>Spirorbis spirillum</i> (Linné, 1758)	IC 053
363	<i>Capitella capitata</i> (Fabricius, 1780)	IC 232
364	<i>Polydora ligni</i> Webster, 1879	IC 464
365	<i>Harmothoe oerstedii</i> (Malmgren, 1865)	IC 065
366	<i>Diplocirrus hirsutus</i> (Hansen, 1879)	IC 832
390	<i>Peloscolex benedeni</i> (Udekem, 1855)	IC 434
401	<i>Edotea montosa</i> (Stimpson, 1853)	15B-007
402	<i>Idotea phosphorea</i> Harger, 1873	11B-012
403	<i>Cirolana polita</i> (Stimpson, 1853)	15B-002
404	<i>Ptilanthura tricarina</i> Menzies & Frankenburg, 1967	None
405	<i>Edotea acuta</i> Richardson, 1900	None
406	<i>Pleurogonium spinosissimum</i> (Sars, 1866)	None
420	<i>Harpacticus uniremis</i> Kroyer, 1842	None
421	<i>Calanus finmarchicus</i> (Gunnerus, 1765)	30B-009
430	<i>Balanus crenatus</i> Bruguiere 1789	None
431	<i>Balanus improvisus</i> Darwin, 1854	30B-083
440	<i>Aeginina longicornis</i> (Kroyer, 1843)	13B-008
441	<i>Mayerella limicola</i> Huntsman, 1915	None
450	<i>Pandalus montagui</i> Leach, 1814	15B-023
451	<i>Crangon septemspinosa</i> Say, 1818	13B-010
452	<i>Hyas araneus</i> (Linnaeus, 1758)	13B-006
453	<i>Lebbeus polaris</i> (Sabine, 1824)	13B-008
454	<i>Carcinus maenas</i> (Linnaeus, 1758)	
455	<i>Pagurus pubescens</i> Kroyer, 1838	IC 107
480	<i>Mysis mixta</i> Lilljeborg, 1852	15B-018
490	<i>Paradoxostoma</i> sp.	None
500	<i>Ampelisca vadorum</i> Mills, 1963	11B-007
501	<i>Byblis gaimardi</i> (Kroyer, 1846)	11B-025
502	<i>Corophium</i> sp.	15B-009
503	<i>Unciola irrorata</i> Say, 1818	10B-007
504	<i>Gammarus oceanicus</i> Sergerstråle, 1947	11B-004
505	<i>Casco bigelowi</i> (Blake, 1929)	15B-011
506	<i>Maera danae</i> Stimpson, 1853	None
507	<i>Anonyx lilljeborgi</i> Boeck, 1871	15B-002

Table 1 (cont'd)

Number	Name	COIC number
508	<i>Leptocheirus pinguis</i> (Stimpson, 1853)	17B-001
509	<i>Pontoporeia femorata</i> Kroyer, 1842	None
510	<i>Gammarus tigrinus</i> Sexton, 1939	None
511	<i>Orchomenella minuta</i> Kroyer, 1846	None
512	<i>Gammarus mucronatus</i> Say, 1818	None
514	<i>Gammarus lawrencianus</i> Bousfield, 1956	31B-015
515	<i>Ampelisca macrocephala</i> Lilljeborg, 1852	None
517	<i>Harpinia propinqua</i> Sars, 1895	None
518	<i>Anonyx sarsi</i> Steele & Brunel, 1968	None
519	<i>Haploops tubicola</i> Lilljeborg, 1855	None
520	<i>Dulichia monacantha</i> Metzger, 1875	None
521	<i>Corophium volutator</i> (Pallas, 1766)	None
522	<i>Melita</i> sp.	None
523	<i>Erichthonius rubricornis</i> Smith, 1873	IC 930
524	<i>Ampelisca abdita</i> Mills, 1964	IC 685
525	<i>Corophium bonelli</i> (M.-E., 1830)	IC 933
526	<i>Stenopleustes inermis</i> Shoemaker, 1949	IC 931
527	<i>Corophium crassicorne</i> Bruzelius, 1859	IC 278
513	<i>Monoculodes edwardsi</i> Holmes, 1905	IC 101
516	<i>Syrrhoe crenulata</i> (Goes)	IC 292
570	<i>Achelia spinosa</i> (Stimpson) Wilson, 1853	IC 268
571	<i>Phoxichilididium femoratum</i> (Rathke, 1799)	IC 269
580	<i>Diastylis goodsiri</i> (Bell, 1855)	None
581	<i>Diastylis quadrispinosa</i> Sars, 1871	None
582	<i>Diastylis polita</i> Smith, 1879	None
583	<i>Eudorella truncatula</i> (Bate, 1856)	None
584	<i>Diastylis sculpta</i> Sars, 1871	None
585	<i>Campylaspis rubicunda</i> Lilljeborg, 1855	None
586	<i>Eudorella hispida</i> Sars, 1871	None
601	<i>Psolus phantapus</i> (Strussenfeldt, 1765)	10B-006
602	<i>Thyone unisemita</i> (Stimpson, 1851)	None
603	<i>Chiridota laevis</i> (O. Fabricius, 1780)	11B-007
604	<i>Molpadia</i> sp.	17B-002
605	<i>Cucumaria frondosa</i> (Gunnerus, 1767)	None
606	<i>Molpadia oolitica</i> (Pourtales, 1857)	None
630	<i>Strongylocentrotus droebachiensis</i> O.F. Müller 1776	None
650	<i>Urasterias lincki</i> (Müller & Troschel, 1842)	15B-006
651	<i>Asterias vulgaris</i> Verrill, 1866	None
680	<i>Amphipholis squamata</i> (Delle Chiaje, 1828)	18B-007
701	<i>Dendrobeania murrayana</i> (Johnston, 1847)	11B-024
750	<i>Tubularia</i> sp.	None
751	<i>Edwardsia</i> sp.? <i>elegans</i> Verrill, 1869	11B-024
752	<i>Halcampa duodecimcirrata</i> (Sars, 1851)	11B-025
753	<i>Metridium senile</i> Linnaeus, 1767	None
801	<i>Phascolion strombi</i> (Montagu, 1804)	13B-001
802	Unident. <i>Sipuncula</i>	None
810	<i>Priapululus caudatus</i> Lamark, 1816	11B-003
820	<i>Stereobalanus canadensis</i> (Spengel, 1893)	11B-025
830	<i>Dendrodoa carnea</i> (Agassiz, 1850)	10B-010

Table 1 (cont'd).

Number	Name	CCIC number
831	<i>Boltenia ovifera</i> (Linnaeus, 1767)	11B-023
832	<i>Boltenia echinata</i> (Linnaeus, 1767)	None
833	<i>Dendrodoa grossularia</i> (Van Beneden, 1846)	None
834	<i>Bostrichobranchus pilularis</i> (Verrill, 1871)	IC 743
870	<i>Cerebratulus</i> sp. af. <i>luridus</i> Verrill, 1873	22B-013
871	<i>Cerebratulus</i> sp. af. <i>melanops</i> Coe & Kunkel, 1903	22B-013
872	<i>Cerebratulus</i> sp.	22B-014
873	<i>Tetrastemma vittatum</i> Verrill, 1874	22B-012
874	<i>Amphiporus angulatus</i> (Fabricius, 1774)	11B-002
875	<i>Cerebratulus marginatus</i> Renier, 1804	18B-002

Table 2. List of species added to the Wildish and Phillips (1974) list.

<i>Gastropoda</i>	030, 031, 032, 033, 034, 035, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045, 046
<i>Bivalvia</i>	123, 124, 125, 126, 127, 128, 129, 130, 133, 131, 132, 134, 135, 136
<i>Polychaeta</i>	214, 221, 222, 224, 267, 270, 277, 278, 286, 287, 288, 289, 290, 291, 292, 294, 295, 296 297, 298, 299, 358, 359, 360, 361, 362, 363, 364, 365, 366
<i>Oligochaeta</i>	390
<i>Isopoda</i>	404, 405, 406
<i>Copepoda</i>	420, 421
<i>Cirripedia</i>	430, 431
<i>Caprellidea</i>	441
<i>Decapoda</i>	454, 455
<i>Amphipoda</i>	510, 511, 512, 514, 515, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 513, 516
<i>Pycnogonida</i>	570, 571
<i>Cumacea</i>	580, 581, 582, 583, 584, 585, 586
<i>Holothuroidea</i>	605, 606
<i>Stelleroidea</i>	651
<i>Actinaria</i>	750, 753
<i>Sipuncula</i>	802
<i>Ascidacea</i>	833, 834
<i>Rhynchocoela</i>	874, 875

Total = 109 new species

Effort = 294 grab samples at 36 stations

Table 3. List of species nomenclaturally changed or spelling changed from that in Wildish and Phillips (1974).

<i>Gastropoda</i>	015, 023, 025, 026
<i>Bivalvia</i>	112, 113, 114, 115, 122
<i>Polychaeta</i>	273, 274, 276, 341
<i>Crustacea</i>	452, 506, 508
<i>Echinodermata</i>	602
<i>Coelenterata</i>	751
<i>Hemichordata</i>	820

Table 4. List of previously unrecorded species found in Lower L'Etang during June 1975 sampling, identified by Identification Centre, St. Andrews.

<i>Gastropoda</i>	042, 043, 044, 045, 046
<i>Bivalvia</i>	131, 132, 134, 135, 136
<i>Polychaeta</i>	361, 362, 363, 364, 365, 366
<i>Oligochaeta</i>	390
<i>Decapoda</i>	455
<i>Amphipoda</i>	523, 524, 525, 526, 527, 513, 516
<i>Pycnogonida</i>	570, 571
<i>Asciacea</i>	834

Total = 28 new species

Effort = 20 grab samples at 7 stations

N.B. Specimens not yet checked:

280 *Polydora* sp. = 364 *P. ligni* ?
502 *Corophium* sp. = 525 *C. bonelli* ?
 or 527 *C. crassicorne*
354 *Spirorbis* sp. = 362 *S. spirillum* ?