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MARINE MOLLUSKS FROM NORTH AND NORTHEAST BRAZIL. I - PRELIMINARY LIST

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This note is based on material collected by the brazilian Navy R/V "Almirante Saldanha" in the North and Northeast of Brazil, during the months of October—December, 1967. The investigated area covers the continental shelf, the oceanic islands and banks offshore, between latitudes 05°03'N and 07°30'S (figure 1). The material was obtained by means of dredgings and trawlings. Indications on the nature of the bottom and stations list are given in a paper by Kempf, Coutinho & Morais (1968, in print).

As a first result of these operations, a total of 225 mollusks are refered: 133 Gastropoda, 90 Pelecypoda and 2 Cephalopoda (table I). No distinction between alive or dead taken material is made in this note. Some groups were sent to specialists for identification, while part of the material is still being studied by the authors. Total results will be published presently. For this reazon, only a brief bibliography is here presented. Also, the occurences of the species are not given by stations, but only refered to administrative and geographical localities, such as: Territory of Amapá; States of Pará (West and East of Pará River), Maranhão, Piauí, Ceará, Rio Grande do Norte and Paraíba; Roccas Reefs and Territory of Fernando de Noronha (Figure 1). Depth indications correspond to the extremes where the material was collected.

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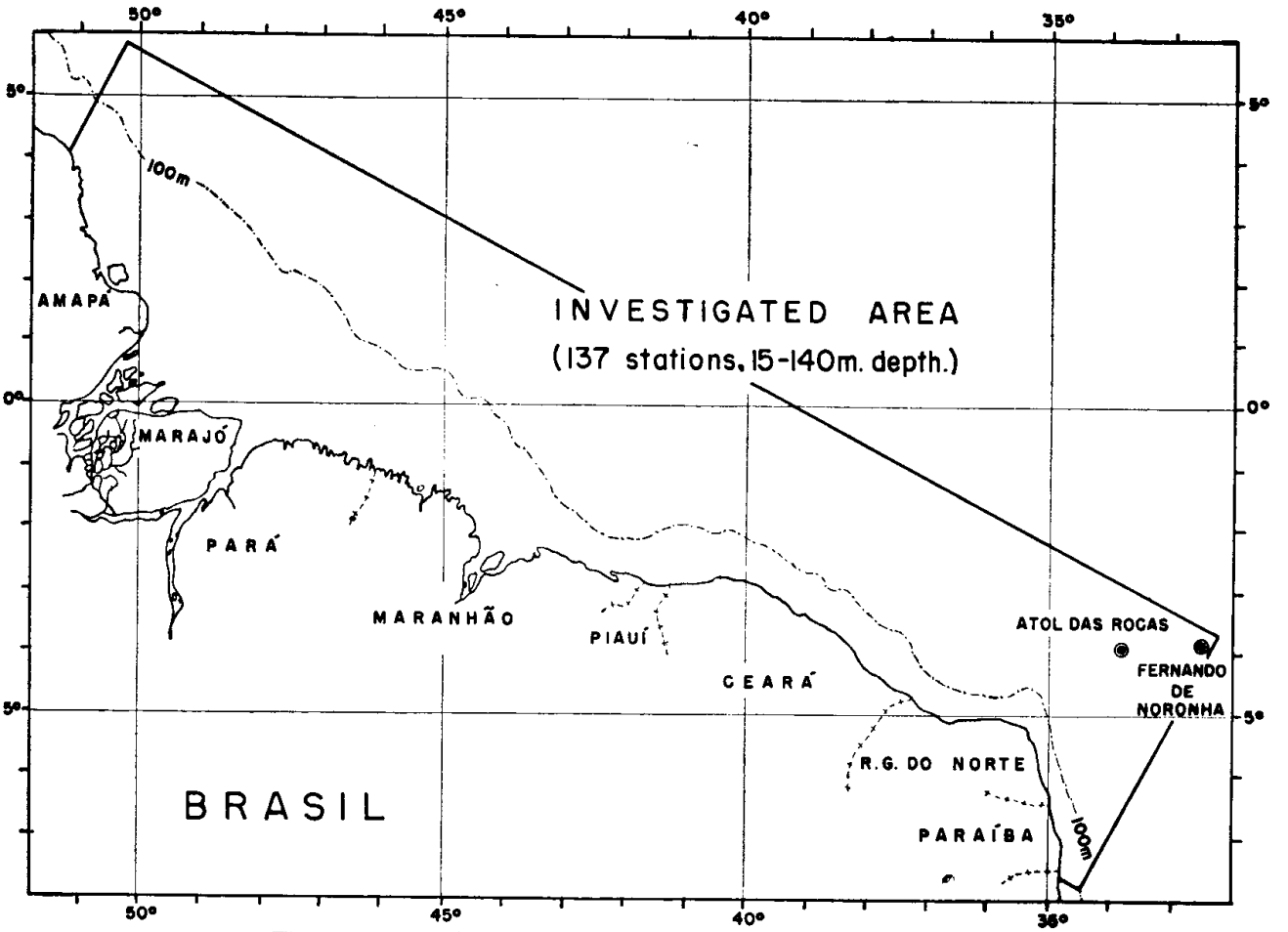

Figure 1 — North and Northeast Brazil — Investigated area.

TABLE I

Marine mollusks collected in the North and Northeast of Brazil.

Classes and Families	Species	Continental Shelf								Oceanic Islands		Range of depths (m)
		Amapá	Pará		Maranhão	Piauí	Ceará	R. G. Norte	Paraíba	Roccas Reefs	Fernando Noronha	
			W. Pará River	E. Pará River								
LAMELLIBRANCHIA												
Nuculidae	*Nuculana cf acuta* Conrad, 1831	x	x	x	x	x						20 — 117
	Nuculana cf concentrica Say, 1824	x	x	x	x							39 — 103
	Yoldia cf perprotracta Dall, 1912	x	x	x								29 — 103
Arcidae	*Arca zebra* (Swainson, 1833)	x	x	x	x	x	x	x	x	x	x	21 — 140
	Arca imbricata Bruguière, 1789			x	x	x	x	x	x			23 — 140
	Barbatia candida (Helbling, 1779)	x	x	x				x				23 — 117
	Barbatia cancellaria (Lamarck, 1819)		x	x	x	x	x					21 — 85
	Barbatia dominguensis (Lamarck, 1819)	x	x	x	x	x	x	x	x	x	x	21 — 140
	Arcopsis adamsi (Dall, 1886)			x	x		x	x	x			17 — 63
	Anadara baughmani Hertlein, 1951	x	x		x							21 — 117
	Anadara notabilis (Roding, 1798)	x		x	x	x	x	x	x			17 — 75
	Anadara ovalis (Bruguière, 1789)				x							44
	Anadara brasiliana (Lamarck, 1819)	x		x	x							21 — 75
	Anadara chemnitzi Philippi, 1851			x	x	x	x	x				23 — 75
Clycymerididae	*Glycymeris decussata* (Linnaeus, 1758)		x	x	x		x	x		x	x	33 — 95
	Glycymeris pectinata (Gmelin, 1791)				x		x	x				32 — 75
Mytilidae	*Modiolus americanus* (Leach, 1815)	x		x	x		x	x	x			15 — 72
	Botula fusca (Gmelin, 1791)			x	x	x	x	x	x	x		19 — 93
	Lithophaga nigra (Orbigny, 1842)			x	x		x		x			37 — 93
	Lithophaga bisulcata (Orbigny, 1842)				x		x	x	x			37 — 75
Pteriidae	*Pteria colymbus* Roding, 1798	x		x	x	x		x				23 — 140
	Pinctada radiata (Leach, 1814)			x								23 — 36
Pinnidae	*Pinna carnea* Gmelin, 1791										x	60
	Atryna seminuda (Lamarck, 1819)	x		x	x	x	x			x		25 — 75
Plicatulidae	*Plicatula gibbosa* Lamarck, 1801	x	x	x	x		x	x	x	x	x	17 — 117
Pectinidae	*Amusium papyraceum* (Gabb, 1873)	x										69 — 100
	Pecten ziczac (Linnaeus, 1758)	x	x	x	x	x	x	x			x	24 — 140
	Pecten cf chazaliei (Dautzenberg, 1900)			x	x		x	x				33 — 103
	Chlamys noronhensis (Smith, 1885)	x	x	x	x	x	x	x	x	x	x	23 — 140
	Chlamys nana (Verril & Bush, 1897)			x								23
	Lyropecten nodosus (Linnaeus, 1758)		x		x		x	x				49 — 140
Spondylidae	*Spondylus americanus* Hermann, 1781		x	x	x	x	x	x	x	x	x	19 — 140
Limidae	*Lima lima* (Linnaeus, 1758)		x	x	x	x	x	x	x	x	x	21 — 140
	Lima scabra (Born, 1778)	x	x	x	x		x	x		x		31 — 140
Ostreidae	*Ostrea cristata* Born, 1778			x	x		x	x				37 — 71
Diplodontidae	*Diplodonta punctata* (Say, 1822)	x		x	x		x	x	x			17 — 100
	Diplodonta nucleiformis Wagner, 1852		x		x							44 — 85
	Diplodonta semiaspera Philippi, 1836	x										103
Lucinidae	*Miltha childreni* (Gray, 1825)			x	x		x	x				21 — 55

Table I — Continuation sheet number 1

Classes and Families	Species	Continental Shelf: Amapá	Pará: W. Pará River	Pará: E. Pará River	Maranhão	Piauí	Ceará	R. G. Norte	Paraíba	Oceanic Islands: Roccas Reefs	Oceanic Islands: Fernando Noronha	Range of depths (m)
	Lucina blanda Dall & Simpson, 1901		x	x	x	x	x					21 — 75
	Phacoides muricatus (Splenger, 1798)	x	x		x							15 — 75
	Codakia orbicularis (Linnaeus, 1758)						x	x	x			21 — 54
	Codakia pectinella (C. B. Adams, 1852)		x	x								29 — 59
	Codakia costata Orbigny, 1842								x			51
	Divaricella quadrisulcata (Orbigny, 1842)			x	x	x	x	x		x		15 — 95
Chamidae	*Chama sinuosa* Broderip, 1835			x	x		x	x	x		x	17 — 90
	Chama macerophylla Gmelin, 1791	x		x	x		x	x	x			23 — 117
	Pseudochama radians (Lamarck, 1819)				x		x		x	x		25 — 75
	Echinochama arcinella (Linnaeus, 1767)				x		x	x				37 — 65
Erycinidae	*Basterotia quadrata granatina* Dall, 1886				x		x					21 — 29
Cardiidae	*Trachycardium magnum* (Linnaeus, 1758)				x		x	x	x		x	23 — 140
	Trachycardium muricatum (Linnaeus, 1758)	x			x							44 — 75
	Papyridea soleniformis (Bruguière, 1789)			x	x	x	x	x	x			21 — 73
	Papyridea semisulcata Gray, 1825		x	x	x		x					17 — 105
	Trigonocardia antillarum (Orbigny, 1842)	x	x	x								35 — 100
	Americardia media (Linnaeus, 1758)	x	x	x	x	x	x	x	x	x	x	21 — 140
	Laevicardium laevigatum (Linnaeus, 1758)	x		x	x	x	x	x				17 — 75
	Laevicardium pictum Ravenel, 1861			x	x	x	x	x	x	x	x	24 — 95
	Microcardium tinctum (Dall, 1881)	x	x		x							63 — 103
Veneridae	*Antigona rigida* (Dillwyn, 1817)	x		x	x	x	x	x			x	17 — 85
	Antigona cf foresti Fischer-Piette & Testud, 1967	x	x	x	x	x						19 — 105
	Chione cancellata (Linnaeus, 1767)			x	x	x	x	x	x	x	x	21 — 140
	Chione subrostrata (Lamarck, 1818)	x		x	x							21 — 100
	Chione cf intapurpurea (Conrad, 1849)		x	x	x		x					20 — 85
	Chione paphia (Linnaeus, 1767)	x	x	x	x		x		x	x	x	17 — 100
	Tivela fulminata (Valenciennes, 1827)			x								36
	Pitar fulminata (Menke, 1828)	x	x	x	x	x	x					27 — 103
	Gouldia cerina (C. B. Adams, 1845)						x					21
	Callista eucymata (Dall, 1889)			x	x		x	x			x	33 — 95
	Macrocallista maculata (Linnaeus, 1758)	x		x	x		x	x			x	20 — 103
	Dosinia concentrica (Born, 1778)			x	x							21 — 59
Tellinidae	*Tellina brasiliana* (Splenger, 1738)			x	x	x	x	x		x		21 — 95
	Tellina listeri Roding, 1798			x	x		x	x	x	x	x	33 — 90
	Tellina similis Sowerby, 1806						x					17 — 53
	Macoma cf tenta Say, 1834	x	x	x	x							21 — 75
Semelidae	*Semele proficua* (Pulteney, 1794)		x									85
	Semele purpurascens (Gmelin, 1791)		x	x	x		x	x				21 — 85
	Semele bellastriata (Conrad, 1837)	x		x	x		x	x	x		x	21 — 90
	Semele cf nuculoides (Conrad, 1841)			x								36 — 53
Solenidae	*Solecurtus cumingianus* (Dunker, 1861)		x			x						53 — 85
	Solecurtus sanctaemarthae (Orbigny, 1853)					x	x					35
Mactridae	*Mactra petiti* Orbigny, 1846				x		x					17 — 38
	Mulinia portoricensis Shuttleworth, 1856						x					17

Table I — Continuation sheet number 2

Classes and Families	Species	Continental Shelf								Oceanic Islands		Range of depths (m)
		Amapá	Pará		Maranhão	Piauí	Ceará	R. G. Norte	Paraíba	Roccas Reefs	Fernando Noronha	
			W. Pará River	E. Pará River								
Corbulidae	*Notocorbula operculata* (Philippi, 1848)	x		x	x		x	x				31 — 105
Gastrochaenidae	*Gastrochaena hians* Gmelin, 1791						x					37
Pandoridae	*Pandora cf bushiana* Dall, 1886	x		x	x	x						35 — 103
Thraciidae	*Cyathodonta cf semirugosa* Reeve, 1859	x	x			x	x	x				35 — 85
Verticordiidae	*Verticordia ornata* (Orbigny, 1842)	x			x							46 — 103
Cuspidariidae	*Cardyomya perrostrata* Dall, 1881	x			x							46 — 103
	Cardyomya ornatissima (Orbigny, 1842)	x			x							60 — 103
GASTROPODA												
Haliotidae	*Haliotis pourtalesii* Dall, 1881				x							80 — 100
Trochidae	*Calliostoma bullisi* Clench & Turner, 1960			x								63
	Calliostoma gemmosum (Reeve, 1842)				x	x	x				x	31 — 90
Turbinidae	*Turbo castanea* Gmelin, 1791				x							100
	Turbo canaliculatus Hermann, 1781		x	x	x	x	x	x		x	x	21 — 105
Turritellidae	*Turritella exoleta* (Linnaeus, 1758)	x	x	x	x	x	x	x		x	x	17 — 140
Architectonicidae	*Heliacus cylindricus* (Gmelin, 1791)										x	26
	Heliacus perrieri Rochebrunne, 1881										x	26
	Architectonica nobilis Roding, 1798	x		x	x	x	x					35 — 75
	Philippia krebsi (Morch, 1875)	x	x	x			x					31 — 117
Modulidae	*Modulus modulus* (Linnaeus, 1758)		x		x	x	x	x	x			23 — 105
Cerithiidae	*Cerithium litteratum* (Born, 1778)				x		x	x	x			31 — 75
	Cerithium semiferrugineum Lamarck, 1822				x	x	x	x	x			19 — 72
	Alaba incerta (Orbigny, 1842)						x	x				21 — 53
Triphoridae	*Triphora melanura* (C. B. Adams, 1850)	x			x			x				53 — 80
	Triphora ornata (Deshayes, 1852)		x	x	x	x	x	x				23 — 117
Epitoniidae	*Ovalia pumilio* (Morch, 1874)						x				x	17 — 26
	Epitonium krebsii (Morch, 1874)		x									85
	Epitonium cf denticulatum Sowerby, 1844	x	x				x					73 — 117
Hipponicidae	*Cheilea equestris* (Linnaeus, 1758)				x		x	x			x	33 — 90
	Hipponix antiquatus (Linnaeus, 1767)								x		x	26 — 37
Calyptraeidae	*Crepidula aculeata* (Gmelin, 1791)						x					17 — 37
	Crepidula plana Say, 1822	x					x					37 — 75
	Crucibulum auricula (Gmelin, 1791)								x			25 — 51
Xenophoridae	*Xenophora conchyliophora* (Born, 1780)				x	x	x	x			x	53 — 80
Strombidae	*Strombus pugilis* Linnaeus, 1758						x					17
	Strombus gallus Linnaeus, 1758						x	x	x		x	21 — 75
	Strombus raninus Gmelin, 1791					x						21
	Strombus costatus Gmelin, 1791				x							54
	Strombus goliath Schroter, 1805						x					23
Eratoidae	*Trivia pediculus* (Linnaeus, 1758)				x	x	x	x				21 — 73
	Trivia suffusa (Gray, 1832)		x	x	x	x	x	x	x		x	23 — 105
	Trivia antillarum Schilder, 1922				x	x	x					23 — 85
	Trivia leucosphaera Schilder, 1931	x	x	x	x							23 — 105
	Trivia cf nix Schilder, 1929	x					x					57 — 105

Table I — Continuation sheet number 3

Classes and Families	Species	Continental Shelf								Oceanic Islands		Range of depths (m)
		Amapá	Pará		Maranhão	Piauí	Ceará	R. G. Norte	Paraíba	Roccas Reefs	Fernando Noronha	
			W. Pará River	E. Pará River								
Cypraeidae	*Cypraea cinerea* Gmelin, 1791		x	x	x	x	x	x	x			23 — 140
	Cypraea spurca acicularis Gmelin, 1791		x		x	x	x	x	x	x	x	23 — 140
	Cypraea surinamensis Perry, 1811				x		x					63 — 75
Ovulidae	*Cyphoma signatum* Pilsbry & McGinty, 1936		x		x		x					49 — 105
	Cyphoma intermedium Sowerby, 1828			x								39
Naticidae	*Polinices lacteus* Guilding, 1834			x	x		x	x	x			23 — 75
	Polinices uberinus Orbigny, 1842	x	x		x							51 — 100
	Sinum perspectivum Say, 1831	x		x								39 — 75
	Sinum maculatum Say, 1831		x									24
	Natica canrena (Linnaeus, 1758)	x	x	x				x				39 — 105
	Natica floridana Rehder, 1943								x			47 — 51
	Natica marochiensis Gmelin, 1791	x	x	x								19 — 76
	Natica cayennensis Récluz, 1850	x	x	x								21 — 85
	Stigmaulax sulcata (Born, 1778)						x					20 — 49
Cassididae	*Morum oniscus* (Linnaeus, 1767)			x			x					63 — 73
	Morum dennisoni (Reeve, 1842)						x				x	45 — 90
	Morum matthewsi Emerson, 1967				x			x				44 — 72
	Phalium granulatum Born, 1778	x		x	x							21 — 75
	Cassis tuberosa (Linnaeus, 1758)						x					37
	Cypraecassis testiculus (Linnaeus, 1758)								x			51
Cymatiidae	*Charonia variegata* (Lamarck, 1816)							x				61
	Cymatium caribbaeum Clench & Turner, 1957				x		x					31 — 44
	Cymatium vespaceum (Lamarck, 1822)		x	x	x		x					49 — 105
	Cymatium rubeculum occidentale Clench & Turner, 1957			x	x							37 — 93
	Cymatium femorale (Linnaeus, 1758)			x				x				25 — 93
	Distorsio clathrata (Lamarck, 1816)	x	x									45 — 69
	Distorsio mcginty Emerson & Puffer, 1953	x	x									73 — 103
Bursidae	*Bursa thomae* (Orbigny, 1842)			x	x		x	x	x	x	x	23 — 93
	Bursa cubaniana (Orbigny, 1842)		x		x		x				x	29 — 90
	Bursa corrugata (Perry, 1811)						x					49 — 54
	Bursa spadicea Montfort, 1810	x	x	x	x							21 — 103
Tonnidae	*Tonna galea* (Linnaeus, 1758)	x										33 — 100
	Tonna maculosa Dillwyn, 1817						x					17 — 35
Muricidae	*Murex pomum* Gmelin, 1791						x	x		x		39 — 54
	Murex brevifrons Lamarck, 1822	x			x							25 — 75
	Murex antillarum Hinds, 1844				x							75
	Murex recurvirostris rubidus Baker, 1897	x			x							60 — 103
	Murex cellulosus Conrad, 1846			x	x		x	x				23 — 60
	Murex mcginty Smith, 1938		x		x							37 — 85
	Murex spectrum Reeve, 1846						x	x	x			23 — 40
	Drupa nodulosa C. B. Adams, 1845						x					17
	Drupa didyma Schwengel, 1943	x		x	x		x	x	x	x	x	25 — 100
	Thais haemastoma floridana (Conrad, 1837)			x								39

Table I — Continuation sheet number 4

Classes and Families	Species	Continental Shelf								Oceanic Islands		Range of depths (m)
		Amapá	Pará: W. Pará River	Pará: E. Pará River	Maranhão	Piauí	Ceará	R. G. Norte	Paraíba	Roccas Reefs	Fernando Noronha	
	Thais rustica (Lamarck, 1822)				x							23
	Aspella anceps (Lamarck, 1822)			x								23
	Ocenebra intermedia (C. B. Adams, 1850)										x	26
Magilidae	*Coralliophila caribaea* Abbott, 1958						x	x				53 — 75
	Coralliophila mansfieldi McGinty, 1940				x	x						63 — 75
Columbellidae	*Columbella mercatoria* (Linnaeus, 1758)			x		x	x	x	x			17 — 61
	Anachis sparsa (Reeve, 1859)			x	x		x	x				23 — 53
Buccinidae	*Engina turbinella* (Kiener, 1836)			x	x		x				x	23 — 90
	Colubraria lanceolata (Menke, 1828)				x	x	x					49 — 83
Nassariidae	*Nassarius albus* Say, 1826	x	x	x	x	x	x	x	x	x	x	17 — 117
	Nassarius nanus Usticke, 1959			x	x		x	x		x		23 — 83
Fasciolariidae	*Fasciolaria aurantiaca* Lamarck, 1816	x		x	x		x		x			24 — 80
	Latirus infundibulum Gmelin, 1791	x						x				23 — 53
	Latirus brevicaudatus Reeve, 1847				x	x	x			x		24 — 75
	Latirus virginensis Abbott, 1958							x				39
	Leucozonia nassa (Gmelin, 1791)			x				x		x		25 — 93
Xancidae	*Xancus laevigatus* (Anton, 1839)			x	x			x				21 — 51
	Vasum cassiforme (Kiener, 1841)							x				39
Olividae	*Oliva reticularis* Lamarck, 1811	x		x	x	x	x	x	x	x	x	21 — 103
	Olivella nivea (Gmelin, 1791)						x				x	21 — 60
	Olivella floralia (Duclos, 1835)		x	x	x		x					21 — 85
	Ancilla lienardi Bernardi, 1821			x	x	x	x	x				23 — 80
	Ancilla matthewsi Burch & Burch, 1967		x	x	x		x	x	x		x	23 — 85
Mitridae	*Mitra nodulosa* (Gmelin, 1791)						x	x	x			19 — 73
	Mitra barbadensis (Gmelin, 1791)						x	x	x	x		25 — 60
	Pusia pulchella (Reeve, 1845)								x			37
Volutidae	*Voluta ebraea* (Linnaeus, 1758)			x	x		x	x				24 — 83
Cancellariidae	*Cancellaria reticulata* (Linnaeus, 1767)			x	x	x	x					36 — 60
Margineliidae	*Marginella haematita* Kiener, 1841				x		x	x		x		31 — 140
	Marginella lilacina Sowerby, 1846		x	x	x	x	x	x	x			23 — 140
	Marginella matthewsi Van Mol & Tursch, 1967				x		x					31 — 69
	Hyalina albolineata (Orbigny, 1842)			x	x		x	x				23 — 73
	Hyalina avena (Kiener, 1834)						x					17 — 66
Conidae	*Conus regius* Gmelin, 1791			x								93
	Conus jaspideus Gmelin, 1791	x	x	x	x	x	x	x	x		x	23 — 103
	Conus daucus Hwass, 1792						x					35
	Conus centurio Born, 1778		x		x		x					52 — 85
	Conus dominicanus Hwass, 1792						x	x		x	x	52 — 140
	Conus brasiliensis Clench, 1942		x	x	x		x	x	x			49 — 105
	Conus selenae Van Mol, Tursch & Kempf, 1967		x	x	x	x	x	x	x			23 — 105
	Conus yemanjae Van Mol, Tursch & Kempf, 1967					x	x	x				35 — 71
	Conus ranunculus Hwass, 1792			x			x					53 — 100
	Conus cf austini Rehder & Abbott, 1951				x							55
Terebridae	*Terebra taurina* (Solander, 1786)			x	x							36 — 46

Table I — Continuation sheet number 5

Classes and Families	Species	Continental Shelf								Oceanic Islands		Range of depths (m)
		Amapá	Pará		Maranhão	Piauí	Ceará	R. G. Norte	Paraíba	Roccas Reefs	Fernando Noronha	
			W. Pará River	E. Pará River								
	Terebra hastata Gmelin, 1791			x	x	x	x				x	21 — 75
	Terebra dislocata Say, 1822				x		x					17 — 52
	Terebra protexta Conrad, 1845			x	x			x				23 — 60
Turridae	*Polystira albida* Perry, 1811	x										75
	Polystira florencae Bartsch, 1934	x	x		x	x	x	x				52 — 117
	Crassispira fuscescens (Reeve, 1843)				x		x				x	24 — 69
Bullidae	*Bulla striata* Bruguière, 1792				x		x	x				24 — 54
Aplysiidae	*Stylocheilus longicauda* Quoy & Gaimard, 1824						x					24
Dorididae	*Platydoris augustipes* Morch, 1863						x					47
	Rostanga byga Marcus, 1958						x					65
Bornellidae	*Bornella calcarata* Morch, 1863						x					54
CEPHALOPODA												
Lolliginidae	*Lolliguncula brevis* (Blainville, 1823)			x	x							15 — 85
Octopodidae	*Octopus hummelinckii* Adams, 1936			x	x			x	x	x		15 — 85