Appendix 3: Ascidiacea (Chap. 5.27)

Table 3 List of ascidian species recorded below the Sub-Tropical Front, with bathymetrical and geographical distributions (only distribution below the Sub-Tropical Front represented) and biogeographical groups. Biogeographical groups: END, endemic; ANT-SAN, Antarctic and sub-Antarctic distribution; ANT-SAM, Antarctic/sub-Antarctic and Southern South American distribution; ANT-NZ, Antarctic/sub-Antarctic and New Zealand distribution; ANT-AU, Antarctic/sub-Antarctic and Australian distribution; ANT-SAF, Antarctic/sub-Antarctic and South African distribution; CM, cosmopolitan; HS, widely distributed in the Southern Hemisphere; NZ, New Zealand distribution beyond the New Zealand sub-Antarctic Islands; AU-NZ, Australian and New Zealand distribution. Biogeographical regions: CONT, Antarctic continental shelf and slope; SOR, South Orkney Islands; SSA, South Sandwich Islands; SGE, South Georgia; BOU, Bouvet Island; SAM, Southern South American Region; KE, Kerguelen Province; MQ, Macquarie Province; NZI, New Zealand sub-Antarctic islands.

Species	Depth (meters)	Biogeographical Group	CONT	SOR	SSA	SGE	BOU	SAM	KE	MQ	NZI
Aplidium abyssum Kott, 1969	3500	HS							1		
Aplidium acropodium Monniot & Gaill, 1978	—	END							1		
Aplidium annulatum (Sluiter, 1906)	30	END	1								
Aplidium aurorae (Harant & Vernières, 1938)	200–400	END	1								
Aplidium balleniae Monniot & Monniot, 1983	50–150	END	1								
Aplidium bilinguae Monniot & Monniot, 1983	25–250	END	1			1	1				
Aplidium circumvolutum (Sluiter, 1900)	50–1100	HS	1	1		1		1	1	1	
Aplidium complanatum (Herdman, 1886)	90–220	END							1		
Aplidium cyaneum (Sluiter, 1906)	50–1700	END	1	1			1				
Aplidium didemniformis Monniot & Gaill, 1978	<100	END							1		
Aplidium falklandicum Millar, 1960	0–800	HS	1	1	1	1		1	1		
Aplidium fuegiense Cunningham, 1871	0–350	ANT-SAM	1	1		1		1	1		
Aplidium globosum (Herdman, 1886)	0–1000	ANT-SAM	1	1	1			1	1		
Aplidium gracile Monniot & Monniot, 1983	40–250	END						1			
Aplidium hians Monniot & Gaill, 1978	–	END							1		
Aplidium imbutum Monniot & Monniot, 1983	0–870	ANT-SAM	1	1		1		1	1		
Aplidium irregulare (Herdman, 1886)	0–250	END						1			
Aplidium knoxi (Brewin, 1956)	–	END									1
Aplidium laevigatum (Herdman, 1886)	>100	ANT-SAM						1	1		
Aplidium leviventer Monniot & Gaill, 1978	110	END							1		
Aplidium longicaudatum (Sluiter, 1912)	75	END	1								
Aplidium longum Monniot, 1970	25–100	END							1		
Aplidium loricatum (Harant & Vernières, 1938)	0–650	END	1	1							
Aplidium meridianum (Sluiter, 1906)	5–20	END						1			
Aplidium millari Monniot & Monniot, 1994	0–1700	ANT-SAM	1	1	1	1		1	1		
Aplidium miripartum Monniot & Monniot, 1983	150–400	END	1								
Aplidium nigrum (Herdman, 1886)	0–300	END	1								
Aplidium notti (Brewin, 1951)	50	END							1		
Aplidium novaezealandiae Brewin, 1952	5–25	HS							1		
Aplidium ordinatum (Sluiter, 1906)	0–100	HS						1	1		
Aplidium ovum Monniot & Gaill, 1978	50–700	END	1								
Aplidium paessleri (Michaelsen, 1907)	75–350	ANT-SAM						1	1		
Aplidium pellucidum Kott, 1971	75	ANT-SAM				1		1			
Aplidium peresi (Pérès, 1952)	90–100	END						1			
Aplidium laevigatum (Herdman, 1886)	0	END							1		
Aplidium polarsterni Tatian, Antacli & Sahade, 2005	272	END						1			
Aplidium quadriversum Millar, 1982	430	END								1	
Aplidium radiatum (Sluiter, 1906)	50–750	END	1	1	1						
Aplidium recumbens (Herdman, 1886)	50–600	ANT-SAM	1	1	1			1		1	
Aplidium retiforme (Herdman, 1886)	0–220	ANT-SAF							1		
Aplidium siderum Monniot & Monniot, 1983	70–166	END	1								
Aplidium stanleyi Millar, 1960	100–320	ANT-SAM	1			1		1			
Aplidium triplex (Sluiter, 1906)	0–300	ANT-SAM	1					1			
Aplidium undulatum (Herman, 1886)	0–250	ANT-SAM						1	1		
Aplidium variabile (Herman, 1886)	0–500	HS				1		1	1		
Aplidium vastum (Sluiter, 1912)	50–150	END	1								
Aplidium vexillum Monniot & Gaill, 1978	-	END							1		
Aplidiopsis discoveryi Millar, 1960	40–125	HS						1			
Aplidiopsis pyrimorfis (Herdman, 1886)	0–100	END							1		
Pharyngodictyon mirabile Herdman, 1886	3000–6000	ANT-SAM						1	1		
Placentella translucida Kott, 1969	370	END	1								
Polyclinum minutum Herdman, 1886	40–110	END							1		
Polyclinum sluiteri Brewin, 1956	50–550	HS							1	1	1
Ritterella chetvergovi Sanamyan & Sanamyan, 2002	4500–5500	END						1			
Ritterella mirifica Monniot & Monniot, 1983	150–350	END	1								
Synoicum adareanum (Herdman, 1902)	0–800	ANT-SAN	1	1	1	1			1		
Synoicum georgianum Sluiter, 1932	0–450	ANT-SAM	1	1	1	1		1	1		
Synoicum giardi (Herdman, 1886)	0–100	ANT-SAM				1		1	1		
Synoicum hypurgon (Michaelsen, 1924)	0–200	HS	1								
Synoicum kuranui Brewin, 1950	100–300	HS						1			
Synoicum ostentor Monniot & Monniot, 1983	0–350	END	1	1							
Synoicum polygyna Monniot & Monniot, 1980	20–250	END	1								
Synoicum ramulosum Kott, 1969	180	END	1								

Species	Depth (meters)	Biogeographical Group	CONT	SOR	SSA	SGE	BOU	SAM	KE	MQ	NZI
Synoicum salivum **Monniot &Gaill, 1978**	–	END							1		
Synoicum tentaculatum **Kott, 1969**	2800	END		1							
Cystodyes antarcticus **Sluiter, 1912**	50–250	ANT-SAM	1					1			
Distaplia colligans **Sluiter, 1932**	0–275	ANT-SAM	1	1		1		1			
Distaplia concreta **(Herdman, 1886)**	0–100	END							1		
Distaplia cylindrica **(Lesson, 1830)**	0–650	ANT-SAM	1	1	1	1		1			
Distaplia kerguelenense **Monniot, 1970**	15	END							1		
Distaplia megathorax **Monniot & Monniot, 1982**	1500	END	1								
Eudistoma australe **Monniot, 1978**	190	END							1		
Eudistoma magalhaensis **(Michaelsen, 1907)**	150–220	ANT-SAM	1	1	1			1			
Polycitor ciemari **(Primo & Vazquez, 2007)**	140	END	1								
Polycitor glareosus **(Sluiter, 1906)**	30–270	ANT-SAM	1		1			1			
Protoholozoa pedunculata **Kott, 1969**	750–5500	ANT-SAM	1	1		1		1			
Sigillina moebiusi **(Hartmeyer, 1905)**	240	HS	1								
Sycozoa anomala **Millar, 1960**	50–120	HS		1							
Sycozoa gaimardi **(Herdman, 1886)**	0–350	ANT-SAM	1			1		1			
Sycozoa georgiana **(Michaelsen, 1907)**	0–400	ANT-SAN	1			1			1		
Sycozoa sigillinoides **Lesson, 1830**	0–600	HS	1		1	1		1	1	1	1
Didemnum bentarti **Varela & Ramos-Espla 2008**	425	END	1								
Didemnum biglans **(Sluiter, 1906)**	30–1220	END	1	1	1	1					
Didemnum studeri **Hartmeyer, 1911**	0–700	HS		1		1		1	1	1	1
Didemnum subflavum **(Herdman, 1886)**	50	END							1		
Didemnum tenue **(Herdman, 1886)**	300–1100	ANT-SAM				1		1			
Diplosoma antarcticum **Kott, 1969**	150	END	1								
Diplosoma longinquum **(Sluiter, 1912)**	50–350	END	1			1					
Leptoclinides capensis **Michaelsen,1934**	0–25	ANT-SAF							1		
Leptoclinides kerguelensis **Kott, 1954**	50	END							1		
Polysyncraton mortenseni **(Michaelsen, 1924)**	120–680	AU-NZ									1
Polysincraton trivolutum **(Millar, 1960)**	50–950	ANT-SAM	1	1		1		1	1		
Trididemnum auriculatum **Michaelsen, 1919**	20–75	END						1			
Ciona antarctica **Hartmeyer, 1911**	100–500	END	1								
Mysterascidia symmetrica **Monniot & Monniot, 1982**	3500	END	1								
Tylobranchion speciosum **Herdman, 1886**	0–3000	ANT-SAM	1	1	1	1	1	1	1		
Dimeatus attenuatus **Sanamyan, 2000**	5500–6000	END		1							
Dimeatus mirus **Monniot & Monniot, 1982**	5000	END									
Cybacapsa gulosa **Monniot &Monniot, 1983**	550–800	END	1		1						
Kaikoja multitentaculata **Vinogradova, 1975**	4500–5500	END	1		1						
Megalodicopia rineharti **(Monniot & Monniot, 1989)**	700–4000	CM	1								
Octacnemus kottae **Sanamyan & Sanamyan, 2002**	3700–4000	END			1						
Polyoctacnemus patagoniensis **(Metcalf, 1893)**	1900	END						1			
Situla macdonaldi **Monniot & Monniot, 1977**	800	END							1		
Situla rebainsi **Vinogradova, 1975**	3700–5500	END	1		1						
Corella eumyota **Traustedt,1882**	0–850	CM	1	1		1		1		1	1
Xenobranchion insigne **Arnback, 1950**	–	END						1			
Adagnezia antarctica **Kott, 1969**	100	END								1	
Adagnezia charcoti **Monniot & Monniot, 1973**	500–5500	CM								1	
Adagnezia henriquei **Monniot & Monniot, 1983**	120	END						1			
Adagnezia weddelli **Monniot & Monniot, 1994**	1200	END	1								
Agnezia abyssa **Sanamyan & Sanamyan, 2002**	7500–8000	END			1						
Agnezia arnaudi **Monniot & Monniot, 1974**	0–200	ANT-SAN	1		1				1		
Agnezia biscoei **Monniot & Monniot, 1983**	30–200	HS	1	1							
Agnezia glaciata **Michaelsen,1898**	100	HS						1			
Agnezia tenue **Monniot & Monniot, 1983**	20	END						1			
Caenagnezia bocki **Arnback, 1938**	50–1000	END	1		1	1					
Caenagnezia schmitti **Kott, 1969**	50–1100	END	1								
Corynascidia cubare **Monniot & Monniot, 1994**	450	END	1								
Corynascidia lambertae **Sanamyan & Sanamyan, 2002**	1300	END	1								
Corynascidia **suhmi Herdman, 1882**	1200–6200	HS	1	1	1	1			1	1	1
Proagnezia depressa **(Millar, 1955)**	2500–6000	CM		1							
Ascidia bathybia **Hartmeyer, 1922**	3500–4200	END							1		
Ascidia challengeri **Herdman,1882**	0–700	HS	1	1		1			1		
Ascidia meridionalis **Herdman,1880**	10–1100	HS	1	1		1		1			
Ascidia translucida **Herdman,1880**	0–250	ANT-SAN				1			1		
Alloeocarpa affinis **Bovien, 1921**	100	NZ									1
Alloeocarpa bacca **Arnback, 1929**	20	END						1			
Alloeocarpa bigyna **Monniot, 1978**	0–220	ANT-SAM				1		1	1		
Alloeocarpa bridgesi **Michaelsen, 1900**	50–100	END						1			
Alloeocarpa incrustans **(Herdman, 1886)**	0–500	ANT-SAM				1		1			
Bathyoncus mirabilis **Herdman, 1882**	1000–6000	HS	1	1				1	1		
Bathystyeloides anfractus **Monniot & Monniot, 1985**	400–1200	HS									1

▶ Appendix 3 : Ascidiacea

Species	Depth (meters)	Biogeographical Group	CONT	SOR	SSA	SGE	BOU	SAM	KE	MQ	NZI
Bathystyeloides enderbyanus **Michaelsen, 1904**	1000–5500	CM	1			1			1		
Bathystyeloides magnus **Sanamyan & Sanamyan, 1999**	2000–4500	HS								1	
Botrylloides leachii **(Savigny, 1816)**	20–175	CM									1
Cnemidocarpa acanthifera **Monniot, 2011**	815	END	1								
Cnemidocarpa barbata **Vinogradova, 1962**	200–3500	CM	1						1		
Cnemidocarpa bathypila **Millar, 1955**	2200–5300	CM	1								
Cnemidocarpa bythia **(Herdman, 1881)**	2200–7000	CM	1						1		
Cnemidocarpa digonas **Monniot & Monniot, 1968**	2200–5300	CM							1		
Cnemidocarpa drygalskii **(Hartmeyer, 1911)**	100–1500	ANT-SAM	1	1	1			1	1	1	
Cnemidocarpa effracta **Monniot, 1978**	200	END							1		
Cnemidocarpa eposi **Moniot & Monniot, 1994**	500	END	1								
Cnemidocarpa humilis **(Heller, 1878)**	0–50	HS									1
Cnemidocarpa minuta **(Herman, 1881)**	200–300	END							1		
Cnemidocarpa nordenskjoldi **(Michaelsen, 1898)**	0–500	ANT-SAM	1					1			
Cnemidocarpa ohlini **(Michaelsen, 1898)**	20–270	END						1			
Cnemidocarpa pfefferi **(Michaelsen, 1898)**	75–450	END	1	1		1					
Cnemidocarpa sericata **(Herdman, 1888)**	4000–5000	HS	1						1		
Cnemidocarpa univesica **Monniot, 2011**	800–110	END	1								
Cnemidocarpa verrucosa **(Lesson, 1830)**	0–400	ANT-SAM	1	1	1	1	1	1	1		
Cnemidocarpa victoriae **Moniot & Monniot, 1983**	70–350	END						1			
Dicarpa antarctica **Moniot & Monniot, 1977**	3200–4400	ANT-AU							1		
Dicarpa cornicula **(Moniot, 1978)**	200	END							1		
Dicarpa insinuosa **(Sluiter, 1912)**	30–620	END	1			1					
Dicarpa mysogyna **Moniot & Monniot, 1982**	2800	END		1							
Dicarpa tricostata **(Millar, 1960)**	35–450	END	1			1					
Gynandrocarpa misanthropos **Monniot,1978**	200	END							1		
Monandrocarpa abyssa **Sanamyan & Sanamyan, 1999**	2800–4400	ANT-SAN	1							1	
Oligocarpa megalorchis **Hartmeyer, 1911**	0–450	END							1	1	
Pelonaia quadrivena **Monniot, 2011**	50	END	1								
Polycarpa zeteta **Millar, 1982**	100–1100	END									1
Polyzoa minor **Monniot, 1970**	0–150	END							1		
Polyzoa opuntia **Lesson,1830**	0–430	HS			1	1	1	1	1	1	1
Styela crinita **Moniot & Monniot, 1973**	2000–5600	CM							1	1	
Styela glans **Herdman, 1881**	35–1700	HS	1						1		
Styela magalhaensis **Michaelsen, 1898**	15–540	SAM						1			
Styela mallei **Monniot, 1978**	–	END							1		
Styela materna **Monniot & Monniot,1983**	50–400	ANT-SAF			1	1					
Styela milleri **Ritter ,1907**	0–120	END						1			
Styela paessleri **Michaelsen, 1898**	85–120	SAM						1			
Styela schmitti simplex **Van Name, 1945**	150–4800	CM	1	1		1		1			
Styela squamosa **Herdman, 1881**	200	END							1		
Styela wandeli **(Sluiter, 1911)**	20–150	END	1	1		1					
Theodorella arenosa **Michaelsen, 1922**	30–450	ANT-NZ				1					
Bathypera hastaefera **Vinogradova, 1962**	300–2000	END	1								
Bathypera splendens **Michaelsen, 1904**	50–4700	ANT-SAM	1	1				1			
Boltenia elegans **Herdman, 1881**	–	END						1			
Culeolus anonymus **Monniot & Monniot,1976**	2500–6500	HS	1	1				1		1	
Culeolus antarcticus **Vinogradova, 1962**	1200–5600	HS	1	1	1			1			
Culeolus likae **Sanamyan & Sanamyan, 2002**	4600–5600	SAM						1			
Culeolus pinguis **Monniot & Monniot,1982**	2800	END	1								
Culeolus recumbens **Herdman, 1881**	700–2500	HS							1		1
Hemistyela hirta **(Monniot & Monniot, 1977)**	1400–4200	HS	1						1		
Pyura bouvetensis **(Michaelsen, 1904)**	25–2100	ANT-NZ	1	1		1	1				1
Pyura chilensis **Molina, 1782**	0	SAM						1			
Pyura discoveryi **(Herdman, 1910)**	0–650	END	1	1		1					
Pyura georgiana **(Michaelsen, 1898)**	15–600	END	1		1	1					
Pyura legumen **(Lesson, 1830)**	0–130	ANT-SAM				1		1			
Pyura lycoperdon **Monniot & Monniot,1983**	70–240	END	1								
Pyura multiruga **Monniot & Monniot,1982**	2300–2800	END	1								
Pyura obesa **Sluiter, 1912**	25–220	END	1	1							
Pyura paessleri **(Michaelsen, 1900)**	0–280	ANT-SAM				1		1			
Pyura pilosa **Monniot & Monniot,1974**	0–675	ANT-AU							1	1	
Pyura setosa **(Sluiter, 1905)**	15–650	END	1	1							
Pyura squamata **Hartmeyer, 1911**	250–2000	ANT-NZ	1	1		1			1		
Pyura stubenrauchi **(Michaelsen, 1900)**	40–100	SAM						1			
Pyura trita **(Sluiter, 1900)**	20–675	AU-NZ									1
Pyura tunica **Kott, 1969**	185	END	1								
Pyura tunica **Kott, 1969**	15–350	ANT-SAM	1		1			1	1		
Eugyroides kerguelenensis **(Herdman, 1881)**	20–850	END	1	1	1	1					
Eugyroides polyducta **Monniot & Monniot,1983**	50	END							1		
Eugyroides septum **(Monniot, 1978)**	100	SAM						1			
Fungulus cinereus **Herdman, 1882**	2800–6000	ANT-SAM	1		1			1	1		

Species	Depth (meters)	Biogeographical Group	CONT	SOR	SSA	SGE	BOU	SAM	KE	MQ	NZI
Fungulus perlucidus **(Herdman, 1881)**	3000–5700	HS			1			1	1	1	
Gamaster vallatum **Monniot, 1978**	100	END							1		
Minipera macquariensis **Sanamyan & Sanamyan, 1999**	5500	END								1	
Molgula coactilis **Monniot & Monniot, 1977**	3200	END							1		
Molgula delicata **Monniot & Monniot, 1991**	500–1200	HS									1
Molgula enodis **(Sluiter, 1912)**	20–125	ANT-NZ	1	1							1
Molgula estadosi **Monniot & Monniot, 1983**	75	END						1			
Molgula euplicata **Herdman, 1923**	40–650	END	1	1		1					
Molgula georgiana **Michaelsen, 1900**	0–200	ANT-SAN			1	1			1		
Molgula hodgsoni **Herdman, 1910**	50–600	END	1	1		1					
Molgula kerguelensis **Kott, 1954**	50	END							1		
Molgula longivascula **Millar, 1982**	0–200	ANT-SAN				1			1	1	
Molgula macquariensis **Kott, 1954**	0–200	END							1	1	
Molgula marioni **Millar, 1960**	100–500	ANT-SAM				1		1	1	1	
Molgula millari **Kott, 1971**	3000–4200	ANT-AU	1		1	1				1	
Molgula mortenseni **(Michaelsen, 1922)**	15–500	HS				1		1			1
Molgula novaeselandiae **(Michaelsen, 1911)**	–	ANT-NZ								1	
Molgula pedunculata **Herdman, 1881**	0–900	HS	1	1	1	1	1	1	1		
Molgula pigafettae **Monniot & Monniot, 1983**	75–275	END						1			
Molgula pulchra **Michaelsen, 1900**	0–450	ANT-SAM				1		1	1	1	
Molgula pyriformis **Herdman, 1881**	0-500	HS				1		1			
Molgula riddlei **Monniot, 2011**	816	END	1								
Molgula robini **Millar, 1960**	100–3700	END	1			1					
Molgula setigera **Arnback, 1938**	0–150	END						1			
Molgula sluiteri **(Michaelsen, 1922)**	0–100	ANT-NZ								1	
Molgula variazizi **Monniot, 1978**	200	END							1		
Molguloides bathybia **(Hartmeyer, 1912)**	–	END	1								
Molguloides coronatum **Monniot, 1978**	200	ANT-SAN	1						1		
Molguloides crinibus **Monniot, 1978**	200	END							1		
Molguloides cyclocarpa **Monniot & Monniot, 1982**	3000–6000	HS				1		1			
Molguloides glans **Monniot, 1978**	200–600	HS							1		1
Molguloides monocarpa **(Millar, 1959)**	200–4500	HS	1						1	1	
Molguloides sphaeroidea **(Millar, 1970)**	4500–6000	SAM						1			
Molguloides tenuis **Kott, 1954**	1300	END	1								
Pareugyroides arnbackae **(Millar, 1960)**	30–1100	END	1		1						
Pareugyroides galatheae **(Millar, 1959)**	1500–6000	HS	1		1	1		1	1	1	
Pareugyroides macquariensis **Kott, 1954**	0	END								1	
Paramolgula canioi **Monniot & Monniot, 1983**	200–500	END						1			
Paramolgula gregaria **(Lesson, 1830)**	0–250	HS				1		1			