

Supplementary Table 1

Species	Site	Recovery	Cruise	ID	Length in mm	Width in mm	Thickness in mm	% Apoptosis median	% Apoptosis SD
<i>Bathymodiolus azoricus</i>	Menez Gwen	pressurised	BioBaz 2013	17	34	20	14	31.0%	15.4%
<i>Bathymodiolus azoricus</i>	Menez Gwen	pressurised	BioBaz 2013	18	37	21	15	22.6%	12.2%
<i>Bathymodiolus azoricus</i>	Menez Gwen	pressurised	BioBaz 2013	20	32	18.3	11.2	39.8%	13.0%
<i>Bathymodiolus azoricus</i>	Menez Gwen	pressurised	BioBaz 2013	22	26.3	14.7	9.3	22.5%	9.6%
<i>Bathymodiolus azoricus</i>	Menez Gwen	pressurised	BioBaz 2013	24	30.3	17.6	10.2	52.8%	19.5%
<i>Bathymodiolus azoricus</i>	Menez Gwen	unpressurised	BioBaz 2013	27	42.5	23.2	16	80.4%	31.4%
<i>Bathymodiolus azoricus</i>	Menez Gwen	unpressurised	BioBaz 2013	29	41	20.3	16.2	11.6%	13.7%
<i>Bathymodiolus azoricus</i>	Menez Gwen	unpressurised	BioBaz 2013	30	41	21	15	20.8%	13.4%
<i>Bathymodiolus azoricus</i>	Menez Gwen	unpressurised	BioBaz 2013	31	37.3	20	13.5	4.2%	26.5%
<i>Bathymodiolus azoricus</i>	Menez Gwen	unpressurised	BioBaz 2013	33	32	16.8	13	14.4%	11.7%
<i>Bathymodiolus azoricus</i>	Rainbow	pressurised	BioBaz 2013	130	88.5	37.5	32	28.3%	13.7%
<i>Bathymodiolus azoricus</i>	Rainbow	pressurised	BioBaz 2013	131	83	39.5	33.5	55.3%	25.0%
<i>Bathymodiolus azoricus</i>	Rainbow	pressurised	BioBaz 2013	132	79	35	30.5	37.3%	19.7%
<i>Bathymodiolus azoricus</i>	Rainbow	pressurised	BioBaz 2013	133	82.5	36.5	31	13.1%	14%
<i>Bathymodiolus azoricus</i>	Rainbow	pressurised	BioBaz 2013	134	84	37	31.5	21.9%	14.5%
<i>Bathymodiolus azoricus</i>	Rainbow	pressurised	BioBaz 2013	135	67	33.5	25	26.7%	15.7%
<i>Bathymodiolus azoricus</i>	Rainbow	pressurised	BioBaz 2013	136	86	41	32	50.3%	25.4%
<i>Bathymodiolus azoricus</i>	Rainbow	pressurised	BioBaz 2013	137	70.5	33.5	29	6.3%	6.9%
<i>Bathymodiolus azoricus</i>	Rainbow	unpressurised	BioBaz 2013	141	97	41	37	39.4%	11.8%
<i>Bathymodiolus azoricus</i>	Rainbow	unpressurised	BioBaz 2013	142	84	41.5	38	36.5%	15.0%
<i>Bathymodiolus azoricus</i>	Rainbow	unpressurised	BioBaz 2013	143	88	41	35	12.4%	7.9%

<i>Bathymodiolus puteoserpentis</i>	Snake pit	unpressurised	BICOSE 2014	102	125	60	44	15.9%	9.8%
<i>Bathymodiolus puteoserpentis</i>	Snake pit	unpressurised	BICOSE 2014	105	89	42	33	26.0%	15.3%
<i>Bathymodiolus puteoserpentis</i>	Snake pit	pressurised	BICOSE 2014	203	52	30	22	40.9%	25.5%
<i>Bathymodiolus puteoserpentis</i>	Snake pit	pressurised	BICOSE 2014	501	117	56	47	40.9%	25.5%
<i>Bathymodiolus puteoserpentis</i>	Snake pit	pressurised	BICOSE 2014	502	91	47	37	28.7%	16.1%
<i>Bathymodiolus puteoserpentis</i>	Snake pit	pressurised	BICOSE 2014	504	41	24	17	6.03%	∅
<i>Bathymodiolus puteoserpentis</i>	Snake pit	pressurised	BICOSE 2014	511	67	39	31	18.4%	∅
<i>Bathymodiolus puteoserpentis</i>	Snake pit	pressurised	BICOSE 2014	514	∅	∅	∅	31.2%	7.7%
<i>Bathymodiolus puteoserpentis</i>	Snake pit	unpressurised	BICOSE 2014	515	83	44	37	11.4%	∅
<i>Bathymodiolus puteoserpentis</i>	Snake pit	unpressurised	BICOSE 2014	522	∅	∅	∅	16.4%	14.5%
<i>Bathymodiolus boomerang</i>	M2	unpressurised	WACS 2011	6	87	31	23	11.3%	12.7%
<i>Bathymodiolus boomerang</i>	M2	unpressurised	WACS 2011	7	113	31	23	26.3%	13.0%
<i>Bathymodiolus boomerang</i>	M2	unpressurised	WACS 2011	8	154	48	37	31.1%	∅
<i>Bathymodiolus boomerang</i>	M2	unpressurised	WACS 2011	9	162	46	43	7.5%	19.9%
<i>Bathymodiolus boomerang</i>	M2	unpressurised	WACS 2011	10	31	16	11	23.9%	18.8%
<i>Bathymodiolus boomerang</i>	M1	unpressurised	WACS 2011	27	64	24	18	12.5%	7.9%
<i>Bathymodiolus boomerang</i>	M1	unpressurised	WACS 2011	28	74	31	20	8.2%	3.2%
<i>Bathymodiolus boomerang</i>	M1	unpressurised	WACS 2011	30	117	35	27	24.8%	24.0%
<i>Bathymodiolus boomerang</i>	M2	unpressurised	WACS 2011	9H	127	43	36	17.0%	12.8%
<i>Mytilus edulis</i>	Roscoff			6	17	23	14	1.7%	0.8%
<i>Mytilus edulis</i>	Roscoff			4	23	43	18	1.6%	1.2%
<i>Mytilus edulis</i>	Roscoff			5	22	37	16	1.0%	∅
<i>Mytilus edulis</i>	Roscoff			7	14	23	10	1.1%	∅
<i>Mytilus edulis</i>	Fishmonger			11	53	∅	∅	2.0%	2.3%
<i>Mytilus edulis</i>	Fishmonger			12	48	∅	∅	0.7%	0.3%

<i>Mytilus edulis</i>	Fishmonger	13	51	∅	∅	1.0%	∅
<i>Mytilus edulis</i>	Fishmonger	14	56	∅	∅	2.2%	0.8%
<i>Mytilus edulis</i>	Fishmonger	15	49	∅	∅	2.0%	2.2%
