

Comparisons of life-history traits of the alien invasive *Semimytilus algosus* and three other mytilid mussels on the West Coast of South Africa

Zannè Zeeman*, George M Branch, Deena Pillay

*Corresponding author: zannezeeman@gmail.com

Marine Ecology Progress Series 607: 113–127 (2018)

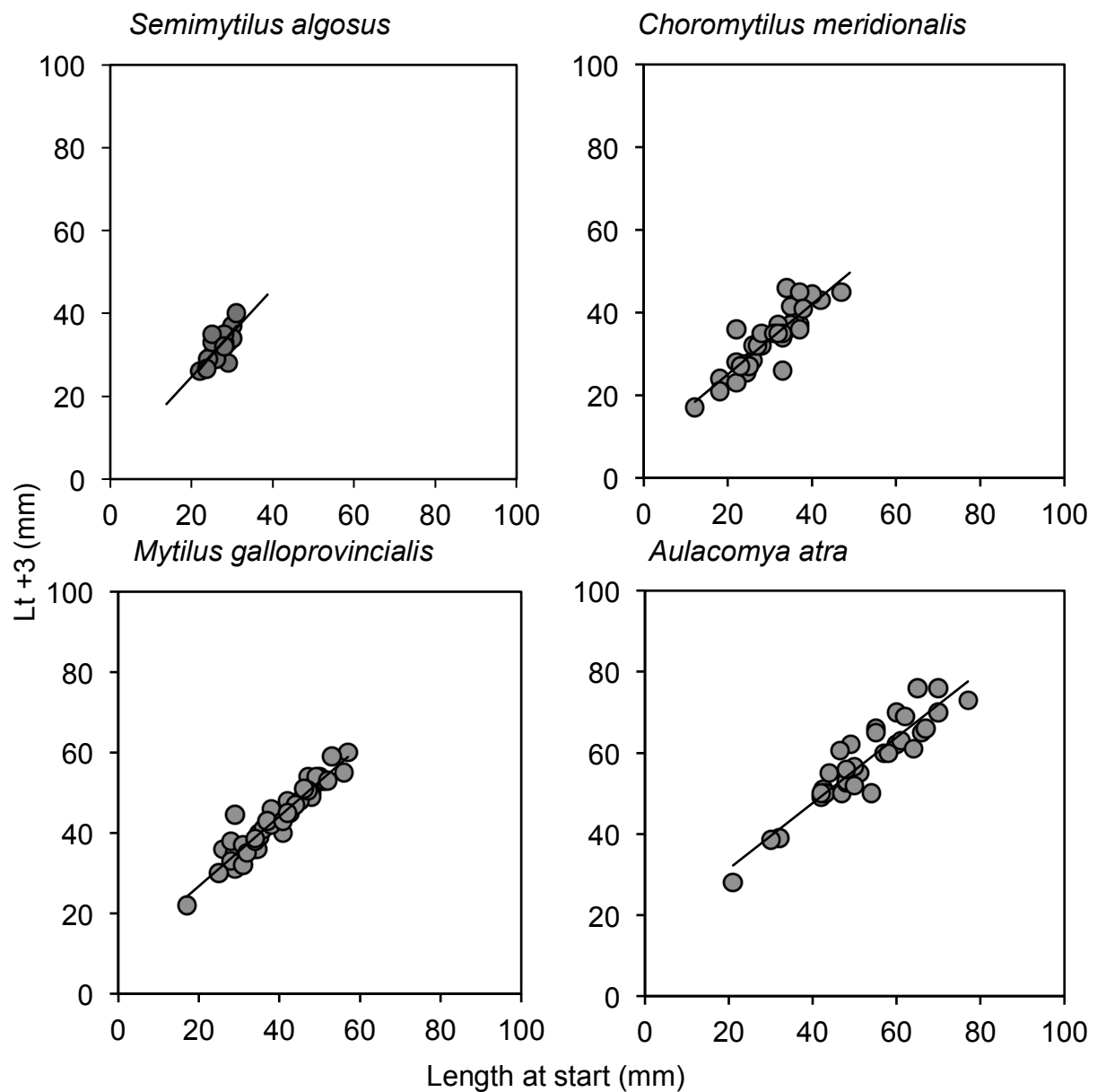


Figure S1: Ford-Walford plots for the four species of mussels: *Semimytilus algosus*, *Mytilus galloprovincialis*, *Choromytilus meridionalis* and *Aulacomya atra*. Lt+3 is the length after successive three month periods

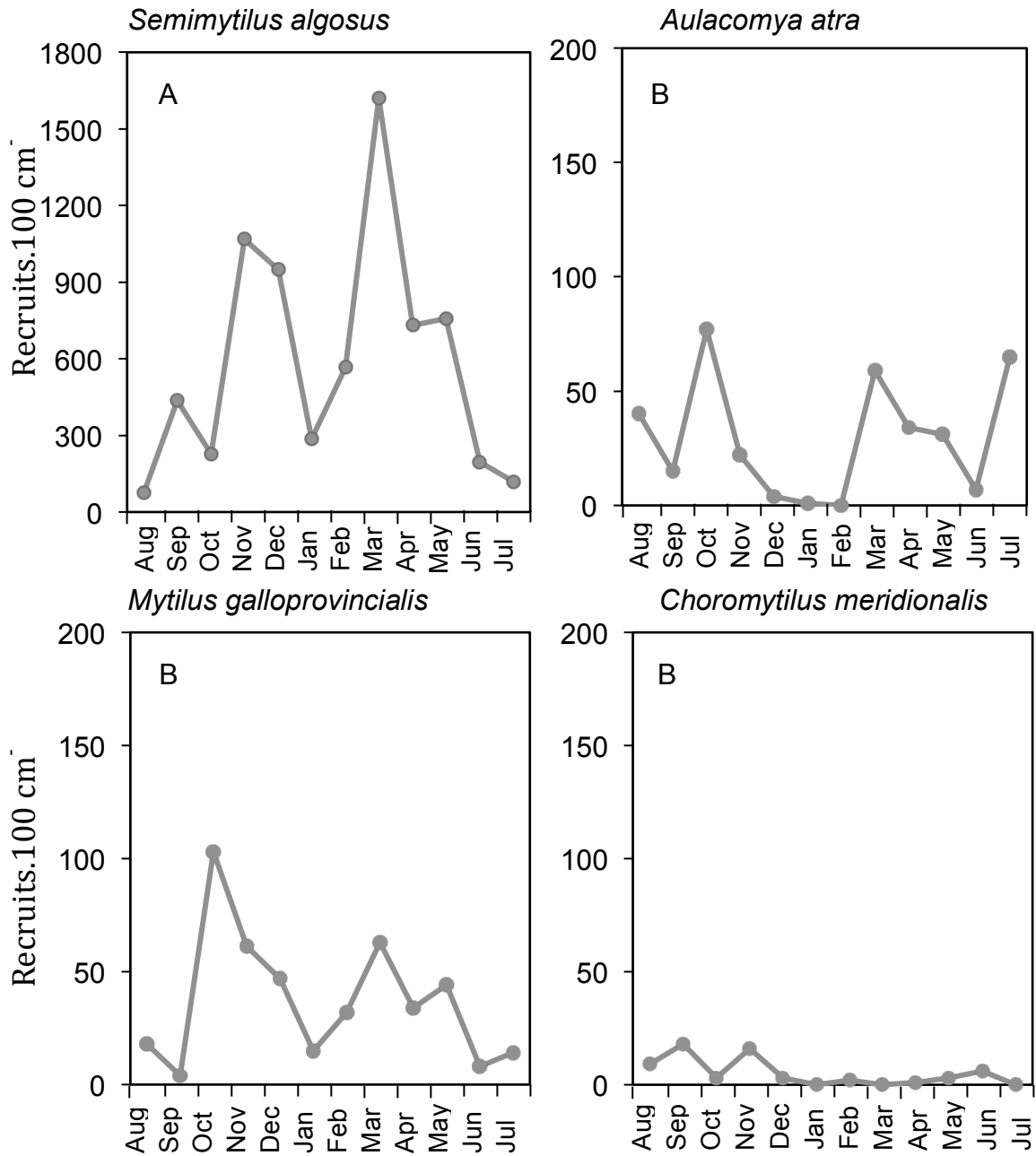


Figure S2: Mean monthly recruitment within conspecific patches from August 2012-July 2013. Note the different scale used for *S. algosus*. Letters (A, B) differ if differences between species were significant

Table S1: Constants of the Length/strength and Length/thickness regressions for the four mussel species: m is the slope of the line and i the intercept, and R² the coefficient of determination; n = 50 in each case

Regression	Species	m	i	R ²	P
Length/strength	<i>S. algosus</i>	-0.270	60.983	0.002	> 0.05
	<i>C. meridionalis</i>	6.349	-96.942	0.428	< 0.0001
	<i>M. galloprovincialis</i>	7.622	-70.413	0.302	< 0.001
	<i>A. atra</i>	6.089	-23.627	0.185	< 0.01
Length/thickness	<i>S. algosus</i>	0.0150	0.1747	0.151	< 0.01
	<i>C. meridionalis</i>	0.0098	0.3200	0.319	< 0.001
	<i>M. galloprovincialis</i>	0.0361	-0.1679	0.527	< 0.0001
	<i>A. atra</i>	0.0214	0.2337	0.181	< 0.01

Table S2: Results of the factorial ANOVA, comparing mean recruitment among species and among months. Significant differences are indicated in bold

Factor	df	MS	F	P
Month	8,144	12549	2.17	0.03
Species	3,144	182930	31.61	< 0.001
Month x species	24,144	11803	2.04	0.005

Table S3: Results of the factorial ANOVA, comparing mean recruitment among species and among shore heights. Significant differences are indicated in bold

Factor	df	MS	F	P
Shore height	2,108	12290	16.79	< 0.001
Species	3,108	25034	34.21	< 0.001
Shore height x spp	6,108	12922	17.66	< 0.001