

Microplastic accumulation in benthic invertebrates in Terra Nova Bay (Ross Sea, Antarctica)

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Supplementary material

Table.S1: Number of individuals pooled per sample for Nile red digestion.

	M. Zucchelli	Camp Icarus	Adelie Cove
<i>Aequiyoldia eightsii</i>	1	6	5
<i>Aglaophamus macroura</i>	8	5	5
<i>Cyamiocardium denticulatum</i>	5	10	13
<i>Eatoniella sp.</i>	5	9	NA
<i>Edwardsia meridionalis</i>	30	158	39
<i>Harpiniopsis similis</i>	5	20	25
<i>Leitoscoloplos mawsoni</i>	20	13	15
<i>Orchomenella franklini</i>	20	17	9
<i>Oweniidae sp.</i>	97	267	117
<i>Perkinsiana milae</i>	10	12	29
<i>Thyasira debilis</i>	5	5	7
<i>Yoldiella antarctica</i>	4	10	5

Table.S2: Microplastics recoveries of the spike recovery test from *Ruditapes philippinarum* and *Gammarus pulex*.

tested species	recovery
	91/100
<i>Ruditapes philippinarum</i>	97/100
	92/100
	93/100
<i>Gammarus pulex</i>	97/100
	97/100

Table.S3: Digestion efficiency of *Ruditapes philippinarum* and *Gammarus pulex*.

tested species	digestion efficiency
	93%
<i>Ruditapes philippinarum</i>	85%
	96%
	73%
<i>Gammarus pulex</i>	74%
	86%

Statistical test results

Formula: items g dw⁻¹ ~ g dw individual⁻¹

Parameters:

Estimate Std. Error t value Pr(>|t|)

k 0.48685 0.06438 7.562 8.78e⁻⁰⁹ ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 745.4 on 34 degrees of freedom

Number of iterations to convergence: 1

Achieved convergence tolerance: 2.542e⁻⁰⁹

Residual sum of squares: 18900000

t-based confidence interval:

	2.5%	97.5%
1	0.3560179	0.6176774