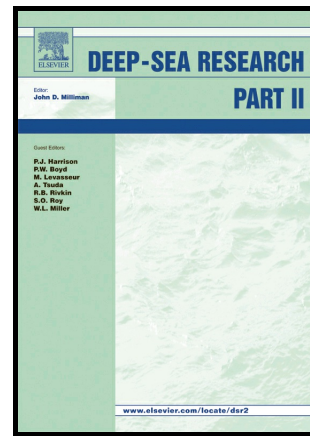


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Ice melt influence on summertime net community production along the Western Antarctic Peninsula

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Abstract

The Western Antarctic Peninsula (WAP) is a highly productive marine environment that is undergoing rapid change, with consequences for productivity and total ecosystem carbon cycling. We present continuous underway O₂/Ar estimates of net community production (NCP_{O₂Ar}) in austral summer 2012, 2013 and 2014 at sub-kilometer horizontal resolution within the Palmer Long-Term Ecological Research (Pal-LTER) grid region of the WAP. Substantial spatial variability is observed with NCP_{O₂Ar} ranging from 0 to 790 mmol O₂ m⁻² d⁻¹ and

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