

L137-007

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Seasonal change of sediment trap-collected pteropod *Limacina helicina* in Amundsen Gulf, Canadian Arctic, 2004-2006

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Seasonality in the abundance and size compositions of *Limacina helicina* were studied using mooring sediment traps in Amundsen Gulf during 2004 to 2006. The highest abundance in terms of flux (160 ind. /m²/d) was observed at 100m depth in mid-October to late-October, 2004. About 98% of *Limacina* disappeared in the depth range of 100 to 200m during the same period. In autumn, the averaged shell size of *L. helicina* at 100m depth (about 700um) was smaller than that at 200m depth (about 2000um). We will discuss relationships between the abundance of *L. helicina* and environmental variables such as temperature, salinity, chlorophyll, and sea ice density.