

# Oceanography Seminar

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“Time-lapse camera analyses indicate intense seafloor pulses and rapid processing of phytodetritus in a productive, glaciomarine fjord, Andvord Bay (Antarctica)”

Glaciomarine fjords along the West Antarctic Peninsula (WAP) are highly productive ecosystems in which seasonal pulses of phytodetritus deliver food to the seafloor and sustain rich benthic communities. However, the timing and intensity of phytodetritus pulses, and benthic community response, remain unevaluated in WAP fjords. We used a calibrated seafloor camera to study the arrival and utilization of phytodetritus over a 9-month period (Dec 2015 – Sept 2016) in the middle basin of Andvord Bay, a typical northern WAP fjord. The amount of phytodetritus on the seafloor was analyzed through development of automated color-recognition methods. Processing of phytodetritus by Ampharetid polychaetes, a dominant deposit feeder, was determined

**Thursday November 2, 2017 3:00p.m. MSB 114**