Geochemistry, Geophysics, Geosystems

Supporting Information for

Pre-glacial to Glacial Sediment Thickness Grids for the Southern Pacific Margin of West Antarctica

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Additional Supporting Information (Files uploaded separately)

Caption for Table S1 - filename Lindeque-etal_ts01.csv

Introduction

The isopach grids were compiled from several surveys off the Pacific margin of West Antarctica. Each contribution point of was assigned a source ID to generate the grids, and points interpolated where seismic data were absent.

The volumes and grids are estimates of the of the pre-glacial, transitional and full glacial climate regimes components in the sediment record, and will be used by other researchers for paleotopography reconstructions and dynamic ice-sheet models.

Large uncertainties remain in the grids due to sparse drilling information and this would be improved upon as new age-control data in the Amundsen Sea become available.

Table S1. Seismic lines or geophysical transects used in this study and corresponding source identification used for the grid calculations. The sediment thickness grids have been uploaded in the Pangaea.de database repository [*insert doi and reference after paper has been accepted*].

Mean sediment thickness (m)

	RS	AS	BS	Total
FG	250	306	354	311
T	476	265	294	321
PG	903	478	606	615
Total	1629	1050	1254	1247

Table S2. Observed mean sediment thickness of the pre-glacial (PG), transitional (T) and full glacial (FG) sequences in the Ross Sea (RS), Amundsen Sea (AS) and Bellingshausen Sea (BS) sectors, as well as the total mean sediment thickness of each unit across all three areas.