



Diatom age assignment at IODP Site U1358 on the continental shelf off the Adelie Coast, Antarctica

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We have examined diatoms from the matrix of diamictites at the Integrated Ocean Drilling Program (IODP) Site U1358 on the continental shelf off the Adelie coast for refining the age constraint of grounded ice and coastal water condition in this area. Diatom assemblages suggest that a hiatus (<1.84 to 4.40Ma) has been distinguished between Samples U1358-2R-1, 1-2cm and U1358B-2R-CC (9.13-9.32mbsf), and all samples examined from Cores U1358B-3R and -4R have been placed into subzone b of the Pliocene *Thalassiosira inura* Zone (4.40-5.12Ma) which is coincident with warm Pliocene biosiliceous deposition at Sites U1359 and 1358 on the continental rise.