

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Ice-rafted debris

File Name: Supplementary Data 2

Description: Radiocarbon Analyses

File Name: Supplementary Data 3

Description: BChron Age Model

File Name: Supplementary Data 4

Description: Sedimentation Rates

File Name: Supplementary Data 5

Description: Stable Isotopes

File Name: Supplementary Data 6

Description: Foraminifera Checklist

File Name: Supplementary Data 7

Description: Diatom Checklist

File Name: Supplementary Data 8

Description: Geochemistry Analyses

File Name: Supplementary Data 9

Description: Quartz Microtexture Analysis