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中期-後期完新世のスリランカ海水準変動からもたらされる南極氷床変動の情報 Detecting Antarctic melting during the Holocene using sea-level information from Sri Lanka

横山 祐典^{1*}, 宮入 陽介¹, 奥野 淳一², 後藤 和久³, 原口 強⁴, 松崎浩之¹

Yusuke Yokoyama^{1*}, Yosuke Miyairi¹, Jun'ichi Okuno², Kazuhisa Goto³, Tsuyoshi Haraguchi⁴, Hiroyuki Matsuzaki¹

¹ 東京大学, ² 国立極地研究所, ³ 千葉工業大学, ⁴ 大阪市立大

¹University of Tokyo, ²National Institute of Polar Research, ³Chiba Institute of Technology, ⁴Osaka City University

Mid to Late Holocene sea-level change can be used for evaluating long-term stability of the Antarctic ice sheet since the most of the Northern hemisphere major ice sheets disappeared by approximately 8,000 years ago. Ongoing global warming may trigger disintegration of this ice sheet, with collapse of the West Antarctic Ice Sheet alone potentially producing a more than 3 to 4 m global sea-level rise. Relative sea level records from sites far away from former ice sheet regions (far-field) provide information on total volume of the ocean mass change, which can be interpreted as global ice volume change. Here we report Holocene sea-level records from Sri Lanka compared with glacio-hydro-isostatic modeling to better understand the melting history of Antarctic ice sheet during the Holocene.

キーワード: 海水準, 完新世, 南極, アイソスタシー, 堆積物コア, 放射性炭素年代測定

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