

## Postglacial melting history of the Greenland ice sheet and pre-historic Greenland culture

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The past melting history of the Greenland ice sheet is the great key for elucidating the future sea-level rising. The GIA (Glacial isostatic adjustment) model using the spatial and temporal variations of relative sea-level changes is one of useful techniques for the reconstruction of ice melting history. Although many radiocarbon dating ages for the reconstruction of the sea-level history have been obtained from the coastal area of Greenland (ex. Kelly, 1973; Ten Brink, 1974, 1975; Weidick, 1968, 1972 in West Greenland), the detailed geomorphological and Quaternary stratigraphical investigations have not been enough. For example, though Reeh (1989) and Henriksen (2008) compiled the map showing the amount of uplift during the Holocene along the coastal area of Greenland, some isolated high coastal existences of the place of the amount of upheaval suggest that the field confirmation of Holocene marine limits is questionable. In this presentation, we introduce the report of the reappraisal for height of the Holocene raised beach through geomorphological and geological approach and also mention the relation with archeological evidences of pre-historic Greenland culture.

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Keywords: Greenland, ice sheet, post glacial, pre-historic Greenland culture