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## A study for detecting the temporal change at ice sheet terminal

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The repeat photography is applied to document the temporal changes in the coast area of Lutzow-Holm bukta. The monitoring of Soya coast using video images taken from a helicopter by JARE43 are carried out scoping to make a base map of field experiments and a step-up to the next stages of monitoring project. The captured video images are placed together as mosaic images along coast line by GIS and they give various spatial information. Photographs taken in Jan. 1992 and Jan. 2002 (originally video images) are chosen to compare by overlaying in the same areas. The video images are originally 15.5\*105 pixels and they are fine enough for stereo photographic interpretation.

Keywords: Ice sheet, Mass balance, Repeat photography