

Recent glacier variations at Mt. Kenya using aerial digital image

*Chiyuki Narama¹, kenshiro Arie², MIZUNO KAZUHARU³

1. Program of Field Research in the Environmental Sciences, Niigata University, 2. Graduate School of Science and Technology, Niigata University, 3. Graduate School of Letters, Kyoto University

The total glacier area decreased by $121.0 \times 10^3 \text{ m}^2$ (44%) during 2004–2016 at Mt. Kenya (Prinz et al., 2018). These glaciers are estimated to extinct before 2030, implying the cessation of the longest glacier monitoring record of the tropics. In this study, we investigated mass balance of all glaciers during 2016-2018 using Pleiades satellite data and aerial digital images from Cessna.

Keywords: glacier variations, mass balance, aerial digital image, Mt. Kenya