

第57次南極地域観測隊による氷床沿岸でのアイスコア掘削と周辺観測の報告

Ice core drilling and related observations by Jare57 in 2015/2016 austral summer on the coastal region of Antarctic ice sheet

*本山 秀明^{1,2}、川村 賢二^{1,2}、櫻井 俊光¹、須藤 健司²、荒井 美穂³、鈴木 利孝³

*Hideaki Motoyama^{1,2}, Kenji Kawamura^{1,2}, Toshimitsu Sakurai¹, Kenji Sudo², Miho Arai³, Toshitaka Suzuki³

1.情報・システム研究機構 国立極地研究所、2.総研大、3.山形大学

1.National Institute of Polar Research, 2.Sokendai, 3.Yamagata University

We were carried out an ice core drilling on the coastal region of Antarctic ice sheet as a part of the 57th of Japanese Antarctic Research Expeditions (2015/2016 of austral summer). We selected the H128 site for drill site (69.40S, 41.55E, 1,380m a.s.l . 100km inland from the coast). Advantages of H128 site were as below; high time resolution, few changes of annual snow accumulation rates, low annual mean temperature (10m depth ice temperature) -24 C. We finally drilled to 260m in depth. We will be able to analyze the climate changes of past 2000 years. Firn air samplings were also carried out. We also conducted the borehole logging, snow pit observation, setup of automatic weather station.

キーワード：南極氷床、アイスコア掘削、フィルンエアサンプリング

Keywords: Antarctic ice sheet, ice core drilling, firn air sampling