

Z241-011

Room: 101A

Time: May 19 14:45-15:00

Velocity Observation of Shirase Glacier in Antarctica

Tomoaki Kitayama[1]; Kazuki Nakamura[2]; Fumihiko Nishio[3]

[1] Earth Science, Chiba Univ; [2] Geoscience, NIPR; [3] Center for Environ. Remote Sens., Chiba Univ.
Natural Sci., Chiba Univ.

In 1998, Shirase Glacier floating ice tongue broke and Sea Ice discharged from Lutzow-Holm Bay in Antarctica. But we have not understood its changes, because observations are very difficult. For the understanding of Shirase Glacier detailed changes, especially Velocity of Floating ice tongue using satellite images from 1990 to 2002. The result from that, the velocity of floating ice tongue had not constant and had changed for the past 13 years. Particularly, after the floating ice tongue broken, it was clarified that the velocity of the glacier had increased greatly when it was compared with the average year value.