Japan Geoscience Union Meeting 2012

(May 20-25 2012 at Makuhari, Chiba, Japan)

©2012. Japan Geoscience Union. All Rights Reserved.

AHW29-P11

Room:Convention Hall



Time:May 21 13:45-15:15

Lake-level change history of Nojiriko and its impct to human society

INOUCHI, Yoshio^{1*}, NAKAMURA, Yuki¹, KUMON, Fujio², INOUE, Takahiko³, KONDO, Yoichi⁴

¹Faculty of Human Sciences, Waseda University, ²Department of Environmental Sciences, Faculty of Science, Shinshu University, ³National Institute of Advanced Industrial Science and Technology, Institute of Geology and Geoinform, ⁴Nojiri-ko Museum

Lake level of Nojiri-ko changed drastically at eight times during the last 45 kilo years. Maxima of lake level can be correlated with abrupt cooling events, namely, Heinrich events, Bond events, etc. Although lake-level change ratio is very low, which is ca. 5 to 10 mm per year, possibility of emergence of water shortage is high. Global warming can lead more frequent water shortages. Intensity variation of winter monsoon is assumed to be the cause of lake-level change. Arctic Oscillation is thought to be the most probable working hypothesis of winter-monsoon oscillation at present.

Keywords: lake-level, history, sediment, Lake Nojiri