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Room:Convention Hall

Time:May 25 10:30-13:00

Lake-level change history based on acoustic record of Uniboom in Lake Nojiri, central Japan

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Lake-level record is regarded as a good indicator for changes in water mass balance around lakes. Lake Nojiri, which locates at the northern part of central Japan, is a good position for monitoring those changes. Lake-level change history over the past 40,000 years at that lake is reported based on the analytical results of acoustic record. However, until recently, sedimentary evidence has not been obtained. Based on depth record of tephra layers of drilling and those of shallow acoustic record, several cycles of lake-level rise/fall events during the last forty thousand years can be concluded. In addition, we analyzed sequence stratigraphic interpretation of acoustic records, and discussed on the relationship between insolation variability and lake level fluctuations.

Keywords: Lake Nojiri, lake-level change, sediments, acoustic record, tephra, insolation