

ACG032-P08

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Lake-level changes in Lake Nojiri, shown in grain-size profile of cored sediments and acoustic record

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Lake-level changes are 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 regarded as a good monitoring position of that kind. Lake-level change history over 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. Ten sediment cores were obtained and grain size analyses were carried out. Based on depth versus grain size distribution of surface sediments and analysis of shallow acoustic record, one cycle of lake-level rise and fall events during the last several thousand years can be concluded.

Keywords: Lake Nojiri, lake-level change, sediments, acoustic record, grain size analyses