

Sedimentological studies on dynamics of radioactive cesium in the Abukuma River system

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We studied the stratigraphic variation of radioactive cesium (¹³⁴Cs, ¹³⁷Cs) in the sediments from Iino-dam. A maximum peak of cesium concentration at the depth of 7cm is corresponding to the flooding caused by the torrential rains in September 2011. The maximum concentration at the depth of 12cm was caused by the 3.11 accident. Several top-level maximums are believed to be due to heavy rainfall in May, June and July 2012. Hydrological dynamics of radioactive materials are interpreted to be deeply associated with the sedimentological processes of fine-grained materials.

