

**L173-005**

**Room: 101B**

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## **Increasing Eurasian arctic river discharge and its relation to the permafrost coverage within the basins**

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Peterson et al. (2002) showed that Eurasian arctic 6 large river discharge increases as surface air temperature increases. Many studies have been published to explain the reason of increasing river discharge. However, the reason is not clear. In this presentation, we will show one possible answer to explain why arctic river discharge increases. Furthermore, we will discuss the influence of permafrost coverage within basins on the change of river discharge.