The statistical analysis of the earthquakes around the Greenland

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Recently, global abnormal weathers are observed at many places on the earth by the influence of global warming. Especially, the snow and ice melt and ice sheets are drained in the Polar region. In conjunction with these, it is reported that the frequency of the glacial earthquakes increases in the Greenland from 2000 (e.g. Ekstrom et al., 2006 and Tasi and Ekstrom, 2007). In addition, we see that the frequency of seismic events also inverse around the Greenland from the earthquake catalog of the International Seismological Center (ISC). To examine this trend of seismicity, we analyze the earthquake catalog of the ISC statistically. For the glacial earthquake, we use the catalog which is reported by Tasi and Ekstrom (2007). From these analyses, we can confirm the activation of seismic events and glacial earthquake in west Greenland, especially.

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