

Distribution change of the mountainous peaty wetlands in Japan.

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Today, it is worried about a vegetation change with the global warming. We examined distribution change of the mountainous wetlands in wide-area of Japan. We chose 24 wetlands to the study site in Kinki, Chubu, Kanto and Tohoku. We compared the area of wetland in old and new aerial photos to clarify a change of the vegetation, at that area. As a result, area of all wetlands has been decreasing. And results vegetation survey, the *Sasa kurilensis* and *Pinus pumila* was invading to the wetland and it reduced the area of wetland. Then, we analyzed weather data measured on the study site or near by, and examined the association with the vegetation change. As a result, it is thought that a decrease in snow-cover period is the main factor of the vegetation change. Because, mountainous wetlands vegetation are having a growth limitation by snow cover period, and this snow cover periods were reduced at almost site. In other hand, the summer temperature was not increasing at almost site.

Keywords: peaty wetlands, *Sasa kurilensis*, *Pinus pumila*, warmth index, snow, climate change

