平成２１年度　環境科学院　修士論文内容の要旨

Comparisons of seed germination and seedling establishment between two Drosera species

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Abstract

Two wetland species in Drosera, D. anglica and D. rotundifolia, are distributed in Sarobetsu mire, northern Japan. While D. anglica is an endangered species in Japan, D. rotundifolia is widespread. To clarify why D. anglica is not widespread, the population structures of the two species were compared based on demographical characteristics, such as sizeclass distribution, biomass, and reproductive strategy. D. anglica had smaller shoots than D. rotundifolia. The reproductive strategy of D. anglica is characterized by vegetative reproduction, i.e., producing winter buds, that was infrequently developed on D. rotundifolia. In contrast, D. rotundifolia tended to produce more flowers than D. anglica. Therefore, the reproductive strategy is likely to be related to differences in the distribution patterns between these two species, i.e., the migration distance of D. anglica is shorter than that of D. rotundifolia that utilizes vegetative reproduction more.

Keywords: distribution, Drosera, population, reproduction, sizeclass