

List of Dissertation Abstract (Department of Natural Environment)

Name	Supervisor	Title	Abstract
Ishii Naohiro	Takehiro Sasaki	Biodiversity-stability relationships under global change drivers in dryland ecosystems	Recently, global change drivers have affected ecosystem stability. The attention has focused on the stabilization of ecosystems via biodiversity. Stability is enhanced by the robustness at the species level and by complementary dynamics among species. While the importance of these mechanisms has been demonstrated in various ecosystems and environments, several factors have not been fully considered: the changes in stabilizing mechanisms under different environments, the interactive effects of multiple drivers, and the hierarchical nature of biodiversity. This study demonstrates the importance of considering these factors and proposes a framework for understanding the relationships between biodiversity and stability in dryland ecosystems.