

1. Record Nr.	UNINA9910821350803321
Titolo	Alaska's changing boreal forest // edited by F. Stuart Chapin III [and five others]
Pubbl/distr/stampa	New York, New York : , : Oxford University Press, , 2006 ©2006
ISBN	0-19-756192-6 1-280-50216-9 1-4237-6156-1 0-19-534832-X 1-60256-996-7
Descrizione fisica	1 online resource (369 p.)
Collana	Long-Term Ecological Research Network Series
Disciplina	577.3/7/09798
Soggetti	Taiga ecology - Alaska
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 2006.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Contents; Contributors; 1. The Conceptual Basis of LTER Studies in the Alaskan Boreal Forest; 2. Regional Overview of Interior Alaska; 3. State Factor Control of Soil Formation in Interior Alaska; 4. Climate and Permafrost Dynamics of the Alaskan Boreal Forest; 5. Holocene Development of the Alaskan Boreal Forest; 6. Floristic Diversity and Vegetation Distribution in the Alaskan Boreal Forest; 7. Successional Processes in the Alaskan Boreal Forest; 8. Mammalian Herbivore Population Dynamics in the Alaskan Boreal Forest 9. Dynamics of Phytophagous Insects and Their Pathogens in Alaskan Boreal Forests 10. Running Waters of the Alaskan Boreal Forest; 11. Controls over Forest Production in Interior Alaska; 12. The Role of Fine Roots in the Functioning of Alaskan Boreal Forests; 13. Mammalian Herbivory, Ecosystem Engineering, and Ecological Cascades in Alaskan Boreal Forests; 14. Microbial Processes in the Alaskan Boreal Forest; 15. Patterns of Biogeochemistry in Alaskan Boreal Forests; 16. Watershed Hydrology and Chemistry in the Alaskan Boreal Forest: The Central Role of Permafrost

17. Fire Trends in the Alaskan Boreal Forest
18. Timber Harvest in Interior Alaska;
19. Climate Feedbacks in the Alaskan Boreal Forest;
20. Communication of Alaskan Boreal Science with Broader Communities;
21. Summary and Synthesis: Past and Future Changes in the Alaskan Boreal Forest;
Index; A; B; C; D; E; F; G; H; I; K; L; M; N; O; P; Q; R; S; T; U; V; W; X; Y

Sommario/riassunto

The Boreal forest is the northern-most forest in the world, whose organisms and dynamics are shaped by low temperature and high latitude. The Alaskan Boreal forest is now warming as rapidly as any place on earth, providing an unprecedented opportunity to examine a biome as it adjusts to change.
