

Forest odors, also ~~called~~known as phytoncides, have provide a relaxing effect on humans and/or show a sterilizing effect on microorganisms, depending on the type. In the Mmeanwhile, it is indicated possible there are indications that ~~forest odor~~ substances emitting forest odors are also involved in producing~~tion of~~ atmospheric ozone, and ~~promot~~promoting global warming. It is known that Ssuch forest odors are ~~known to be~~ released from the above-ground parts of trees including leaves and trunks, but there is limited knowledge regarding~~whereas it is little known how much forest odor~~ substances emitting forest odors that are contained~~exist~~ in the underground parts of trees, including the soils. In particular, limited information is present regarding forest odors from black spruce forests, which are widely distributed in the North American subarctic area ~~Forest odor information has been barely available from, above all, black spruce forests that are widely distributed in the North American subarctic area~~ and are likely to be susceptible to the effects of globalthe warming.

Therefore, this study focused ~~on~~ measuringobserved the concentrations of substances emitting forest odors ~~substances~~ contained in the atmosphere ~~of~~in a black spruce forest and its soil from spring to autumn in the inland ~~region~~area of Alaska~~from spring to autumn~~. These findings showed that As a result, forest odor concentrations were several hundred times higher ~~revealed to be higher~~ in the forest soil than in the forest atmosphere~~than in the forest by several hundred times~~, and with the highest concentrations observed~~being~~ in the layer of organic matter deposited on the forest floor up to 10–30 cm deep higher in the layer of organic matters deposited as thick as 10-30 cm. The study also showed It was also revealed that the major ~~forest odor~~ substance emitting forest odor ~~was is~~ α -pinene^(Note) which is also contained in cedar and other trees, etc. as well. The organic matter layer on the forest floor consists is composed of forest floor mosses, and lichens, as well as fallen leaves and rootletss of black spruce, which act as underground reserves of forest odor substances.

that reserve forest odor substances underground.

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Comment 1 [Editor]: Level 5

[Conciseness] [Language]
Sentence was rephrased and shortened for conciseness

Comment 2 [Editor]: Level 5

[Clarity and Readability]
Sentence was rephrased for better clarity and readability

Comment 3 [Editor]: Level 5

[Article] [Grammar]
Definite article needed at this instance. The definite article (the) is used before a noun to indicate that the identity of the noun is known to the reader.

Comment 4 [Editor]: Level 5

[Preposition] [Grammar] Accurate preposition used for grammatical accuracy.

Comment 5 [Editor]: Level 5

[Tense][Grammar]
Past tense would be the appropriate tense at this instance.

SAMPLE