

Cronartium in the Russian Far East

Z.M. Azbukina

ADDITIONAL INDEX WORDS. **white pine blister rust, pines, taxonomy, *Pinus***

Four species of *Cronartium* [*C. kamtschaticum* Joerst., *C. ribicola* J.C. Fischer, *C. flaccidum* (Alb. et Schw.) Winter, *C. quercuum* (Berk.) Mly. ex Shirai], and one species of *Peridermium* (*P. kurilense* Dietel) was encountered in the Russian far east. However, taxonomic distinctness and biological relationships between *C. kamtschaticum* and *C. ribicola*, as well as taxonomic status of *P. kurilense*, have not been studied sufficiently. During 1992 to 1994, and 1996 to 1997, additional rust-infected pines (*Pinus* L.) were collected in several areas of the Russian far east. Observations of these collections determined that *C. kamtschaticum* is synonymous to *C. ribicola*. *P. kurilense* is morphologically and biochemically similar to *Endocronartium sanounum mazu* et Kakishima var. *hokkaidoense* Imazi et Kakishima. However, the taxonomical status of this fungus will be established only after molecular investigation.

Institute of Biology and Soil Science, Vladivostok, Russia.

The cost of publishing this paper was defrayed in part by the payment of page charges. Under postal regulations, this paper therefore must be hereby marked *advertisement* solely to indicate this fact.