

Thysanoptera collected from port area at east Japan II. Hokkaido

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Abstract: The authors conducted the survey on the thysanopterous fauna of some ports and their vicinity in Hokkaido, northern part of Japan. In this survey, 14 species were found.

Key words: Thysanoptera, port area, Hokkaido, east Japan

Introduction

The authors have been conducting survey on thysanopterous fauna around sea ports and air ports where the plants and plant products are imported at east Japan by obtaining cooperation from plant inspectors. In present paper, the results of the survey in Hokkaido were provided.

Materials and Methods

The present survey was conducted around four ports (Rumoi, Otaru, Kushiro and Abashiri) and one air port (Chitose) (Fig. 1). At Rumoi and Chitose, it was done in 1995, at others, in 1996-1997.

This series of survey has been conducted in spring and autumn (MASUMOTO *et al.*, 1997).

The specimens of thrips were collected from native plants around the ports and preserved in 70% ethylalcohol, then prepared for identification.

Results and Discussion (Table 1)

Thrips collected and identified in this survey were 14 species belonging to three families, seven genera.

KUROSAWA (1968) and KUDO (1970) reported 13 and 23 thysanopterous species in Hokkaido, respectively. Most species (13 species) found in this survey except

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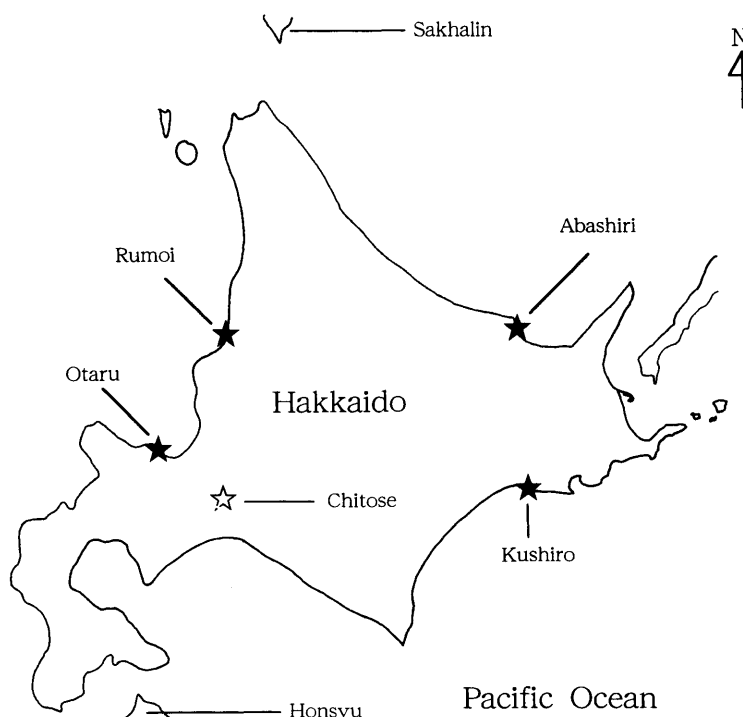


Fig. 1. Locations of the ports collected thrips in Hokkaido.

Table 1. Thysanopterous species collected around four sea ports and one air port in Hokkaido, Japan.

Thrips species		Name of port and airport*					
		Rumoi	Otaru	Chitose*	Kushiro	Abashiri	
Aeolothripidae							
1.	<i>Aeolothrips fasciatus</i> (LINNÉ)	—	+	—	+	—	
2.	<i>Aeolothrips kurosawai</i> BHATTI	—	+	—	—	—	
Thripidae							
3.	<i>Anaphothrips obscurus</i> (MÜLLER)	—	+	—	—	—	
4.	<i>Chirothrips manicatus</i> (HALIDAY)	—	+	—	—	—	
5.	<i>Frankliniella intonsa</i> (TRYBOM)	+	+	+	+	+	
6.	<i>Frankliniella occidentalis</i> (PERGANDE)	—	+	—	—	—	
7.	<i>Megalurothrips distalis</i> (KARNY)	—	—	+	—	—	
8.	<i>Thrips flavus</i> SCHRANK	—	+	+	—	+	
9.	<i>Thrips hawaiiensis</i> (MORGAN)	—	—	+	—	—	
10.	<i>Thrips nigropilosus</i> UZEL	—	+	+	—	—	
11.	<i>Thrips tabaci</i> LINDEMAN	—	+	+	—	—	
Phlaeothripidae							
12.	<i>Haplothrips aculeatus</i> (FABRICIUS)	—	—	+	—	—	
13.	<i>Haplothrips niger</i> (OSBORN)	—	+	—	+	+	
14.	<i>Haplothrips</i> sp.	+	+	+	+	+	
Total No. of species		14	(2	11	8	4	4)

+ : found, — : not found

Survey period : Rumoi, Chitose (1995)

Otaru, Kushiro, Abashiri (1996-1997)

Frankliniella occidentalis which was collected at Otaru port in 1997, are included in those reports. *F. occidentalis* was reported firstly in 1990 in Japan (Chiba and Saitama prefectures) (HAYASE *et al.* FUKUDA, 1991) and in Hokkaido region in 1996 (ANONYMOUS, 1996). Although 32 species were reported around port areas in Kanto region (MASUMOTO *et al.*, 1997), only 14 species were collected in this survey in Hokkaido region. This may be because of less abundant flora around port areas in Hokkaido region.

Acknowledgement

The authors wish to express their thanks to Dr. S. Okajima, Entomological Laboratory, Tokyo University of Agriculture, for his advice and identifications and to the staff of each branch and sub-branch of Yokohama Plant Protection Station, for collecting and providing the materials.

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和 文 摘 要

東日本の港頭地域におけるアザミウマ

II. 北海道地方

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1995～1997 年にかけて、北海道地方の 4 つの海港（留萌，小樽，釧路，網走）及び 1 つの空港（千歳）の港頭地域において、アザミウマ相の調査を行った。この調査の結果、3 科 7 属 14 種のアザミウマが発見された。本報告の調査は、毎年春と秋に行われる港頭地域の一連の病害虫調査の一環として行った。

北海道地方のアザミウマの分布については、黒沢 (1968) が 13 種、工藤 (1970) が、23 種を報告しているが今回の調査で発見されたアザミウマは、1996 年に初報告のあったミカンキイロアザミウマを除き、全てこれらの報告に含まれているものであった。