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MAR 07-13, 2022
JSPS-C2C Symposium

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--



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It is not essential, but I suggest setting your Dropbox language as English (see page #14 and later) , which makes communication with poster authors easier.

Poster Viewing > P-14_Andreas Ade KRISTIAN

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 P-14_Posters_UTokyo_KristianAndreasAde.pdf	2022-03-03 10:05 am
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Click poster file (PDF) or video file (MP4)!

How to leave a comment

Seasonal changes in the number of flying adults, body size, and the number of mycangium pits of *Platypus quercivorus*

Andreas Ade KRISTIAN¹, Naoto KAMATA¹
¹Graduate School of Agricultural and Life Sciences, The University of Tokyo, JAPAN
aa-kristian@g.ecc.u-tokyo.ac.jp

Background

- Japanese Oak Wilt (JOW) is caused by *Raffaella quercivora-Platypus quercivorus* complex and kills oak trees.
- JOW-related mortality occurs mid-July-mid-September¹⁾, whereas flying season of *P. quercivorus* lasts much longer (June-November)²⁾.
- We hypothesized that a quantity of *R. quercivora* carried by *P. quercivorus* is related to this phenomenon.

Objective

Determine seasonal changes in the number of flying beetles, their body size, and the number of mycangium pits.

Methods

Sites:

- Insect Collection (Weekly/Biweekly) (Funnel Trap)
- Sample sorting by sex and number of pits
- Oven Drying (70°C for 24 hrs)
- Dry Weight Measurement (in a mass)
- Data Analysis

Results & Discussion

- Seasonal change in flying adults occurrence
Tanashi (Q. serrata) Total captures = 3386
Fuji (Q. crispata) Total capture = 8406
- Significant effect of the number of pits on the dry weight (GLMM: Response variable, dry weight; Fixed effect, number of pits; Random effect, date; Distribution function, Gaussian)

	Tanashi			Fuji				
	Dry weight	DF	p	Dry weight	DF	p		
Problems	1.63	1.22	1.92	<0.0001	1.32	1.81	1.44	<0.0001
Number of pits	0.05	0.03	0.08	0.010	0.05	0.03	0.04	0.001

Body size

Parameter	Higher Temperature	Lower Temperature
Developmental period	Shorter ▽	Longer △
Metabolic rates	Higher ▽	Lower △
Food consumption quantity	Smaller ▽	Greater △

- Shorter developmental period under higher temperature (Day-degree model³⁾), likely caused smaller food consumption and smaller body size.

Summary

- Twin peaks were observed in *P. quercivorus* occurrence both at Tanashi and Fuji
- Body size of flying *P. quercivorus* was largest in early August and smallest in early October
- Body size of *P. quercivorus* was likely influenced by the temperature during its larval stages
- Number of mycangia pits were varied greatly (ranged from 4-11) among the samples and had a positive effect on the body size
- Quantity of *R. quercivora* carried by a beetle likely changes seasonally in a similar manner to the number of pits if the quantity of the fungus per pit is constant.

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Seasonal changes in the number of flying adults, body size, and the number of mycangium pits of *Platypus quercivorus*

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 aa-kristian@g.ecc.u-tokyo.ac.jp

東京大学 THE UNIVERSITY OF TOKYO

Background

- Japanese Oak Wilt (JOW) is caused by *Raffaelea quercivora*-*Platypus quercivorus* complex and kills oak trees.
- JOW-related mortality occurs mid-July-mid-September^[1], whereas flying season of *P. quercivorus* lasts much longer (June-November)^[2].
- We hypothesized that a quantity of *P. quercivorus* carried by *P. quercivorus* is related to this phenomenon.

Objective

Determine seasonal changes in the number of flying beetles, their body size, and the number of mycangium pits.

Methods

Sites:

- Insect Collection (Weekly/Biweekly) (Funnel Trap)
- Sample sorting by sex and number of pits
- Oven Drying (170°C for 24 hrs)
- Dry Weight Measurement (in a mass)

Results & Discussion

Seasonal change in flying adults occurrence

• The body sizes of flying *P. quercivorus* adults

• Significant effect of the number of pits on the dry weight (GLMM: Response variable, dry weight; Fixed effect, number of pits; Random effect, date; Distribution function, Gaussian)

Predictors	Tanashi			Fuji		
	Est	CI	p	Est	CI	p
Number of pits	0.05	0.03 - 0.08	0.019	0.05	0.01 - 0.04	0.001

Body size

Parameter	Higher Temperature	Lower Temperature
Developmental period	Shorter	Longer
Metabolic rates	Higher	Lower
Food consumption quantity	Smaller	Greater

• Shorter developmental period under higher temperature (Day-degree model^[3]), likely caused smaller food consumption and smaller body size.

Summary

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- Body size of flying *P. quercivorus* was largest in early August and smallest in early October
- Body size of *P. quercivorus* was likely influenced by the temperature during its larval stages
- Number of mycangium pits were varied greatly, ranged from 0.111 among the samples and had a positive effect on the body size

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A reason why we recommend using your personal account of Dropbox (see page #4): If you enter the site by using your Dropbox account, your name (ex. "Naoto Kamata" as shown in this slide) will be shown when you leave a comment. But "postersession comment" will be shown when you use a common account sent via email. When you leave comments using the common account, please type your name after each comment. If not, no body can recognize the commentator.

How to reply to each comment

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Naoto Kamata just now
Hi! This is Kamata.

Your reply will be displayed.

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¹Graduate School of Agricultural and Life Sciences, The University of Tokyo, JAPAN
 aa-kristian@g.ecc.u-tokyo.ac.jp



Background

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- We hypothesized that a **quantity** of *R. quercivora* carried by *P. quercivorus* is related to this phenomenon.



Objective

Determine seasonal changes in the number of flying beetles, their body size, and the number of mycangium pits.

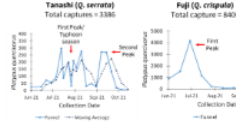
Methods

Sites:

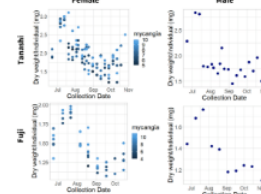
- 1 Insect Collection (Weekly/Biweekly) (Funnel Trap)
- 2 Sample sortation by sex and number of pits
- 3 Oven Drying (10°C for 24 hrs)
- 4 Dry weight Measurement (in a mass)
- 5 Data Analysis

Results & Discussion

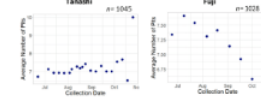
Seasonal change in flying adults occurrence



The body sizes of flying *P. quercivorus* adults



Average number of pits throughout season



- **Significant effect** of the number of pits on the dry weight (GLMM: Response variable, dry weight; Fixed effect, number of pits; Random effect, date; Distribution function, Gaussian)

Tanashi				Fuji				
Dry weight				Dry weight				
Producers	Envars	CI	p	Producers	Envars	CI	p	
Glomspq	1.63	1.32	1.95	<0.001	1.22	1.01	1.44	<0.001
Number of pits	0.05	0.03	0.08	0.019	0.05	0.03	0.01	0.001

Body size

Parameter	Higher Temperature	Lower Temperature
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How to change a language of your Dropbox










How to change a language of your Dropbox #1



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Link your team account
Your accounts will stay separate, but you can easily switch between them and access both from any device.

Link accounts

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How to change a language of your Dropbox #4

The image shows the Dropbox account settings page. On the left is a navigation sidebar with options like Home, All files, Recents, Starred, Photos, Shared, File requests, Deleted files, and Privacy and legal. The main content area is titled 'Personal account' and has a horizontal menu with tabs: General, Plan, Billing, Security, Notifications, Connected apps, Default apps, Branding, Refer a friend, and Automations. The 'General' tab is selected. Under 'Preferences', the 'Language' setting is currently 'English (United States)'. An 'Edit' button next to this setting is highlighted with a red box. A red arrow points from this box to a callout box containing the text 'Click "Edit"!'. Other settings visible include 'Date format' (YYYY - MM - DD), 'Automatic time zone' (GMT+09:00, On), 'Early releases' (Off), and 'See info about people who view my files' (On by default).

Click "Edit"!

Edit

How to change a language of your Dropbox #5

The image shows the Dropbox 'Personal account' settings page. A red-bordered dialog box titled 'Choose a language:' is overlaid on the page. The dialog box contains a list of languages arranged in three columns. A red line connects the bottom of the dialog box to a red-bordered text box at the bottom of the image that says 'Choose a language'.

Choose a language:

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Dansk	Italiano	ไทย
Deutsch	Nederlands	中文 (简体)
English (United Kingdom)	Norsk (bokmål)	中文 (繁體)
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	Русский	

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