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MAR 07-13, 2022
JSPS-C2C Symposium

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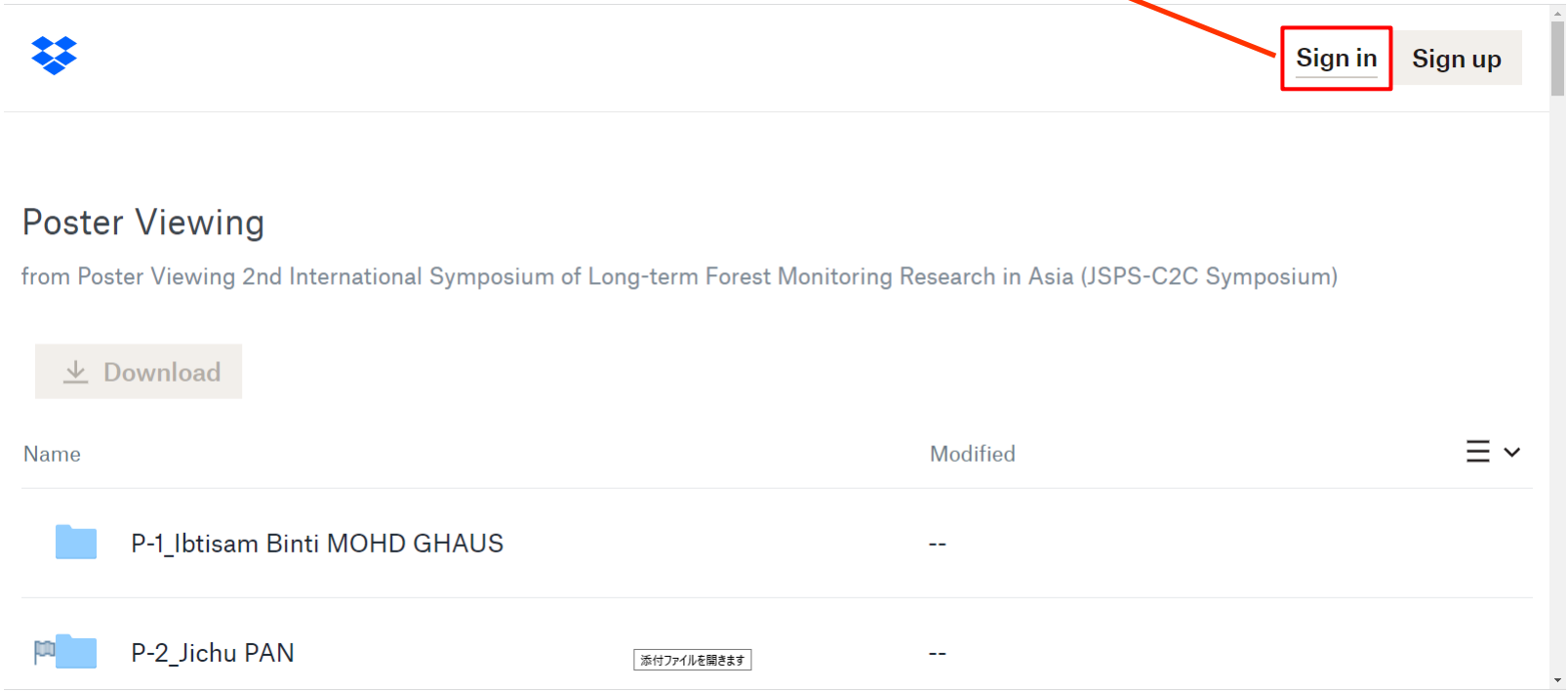

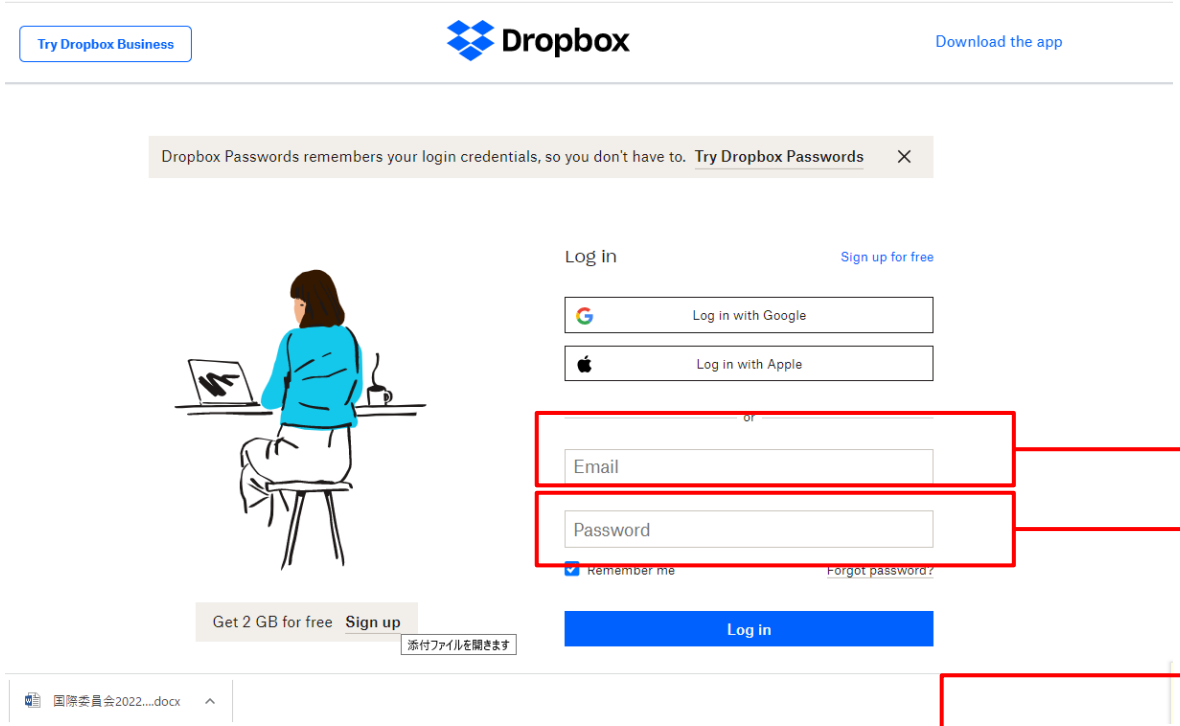

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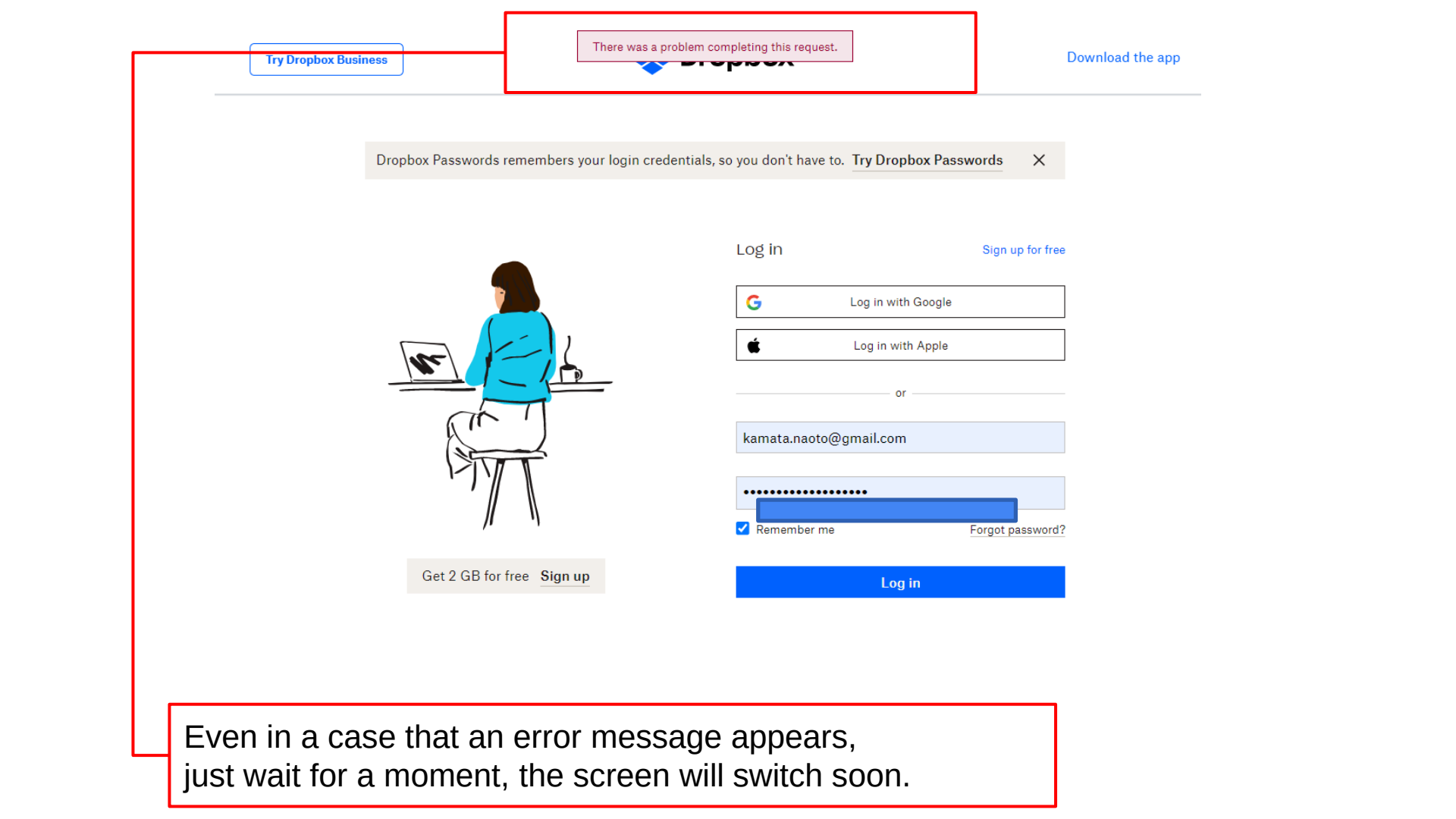

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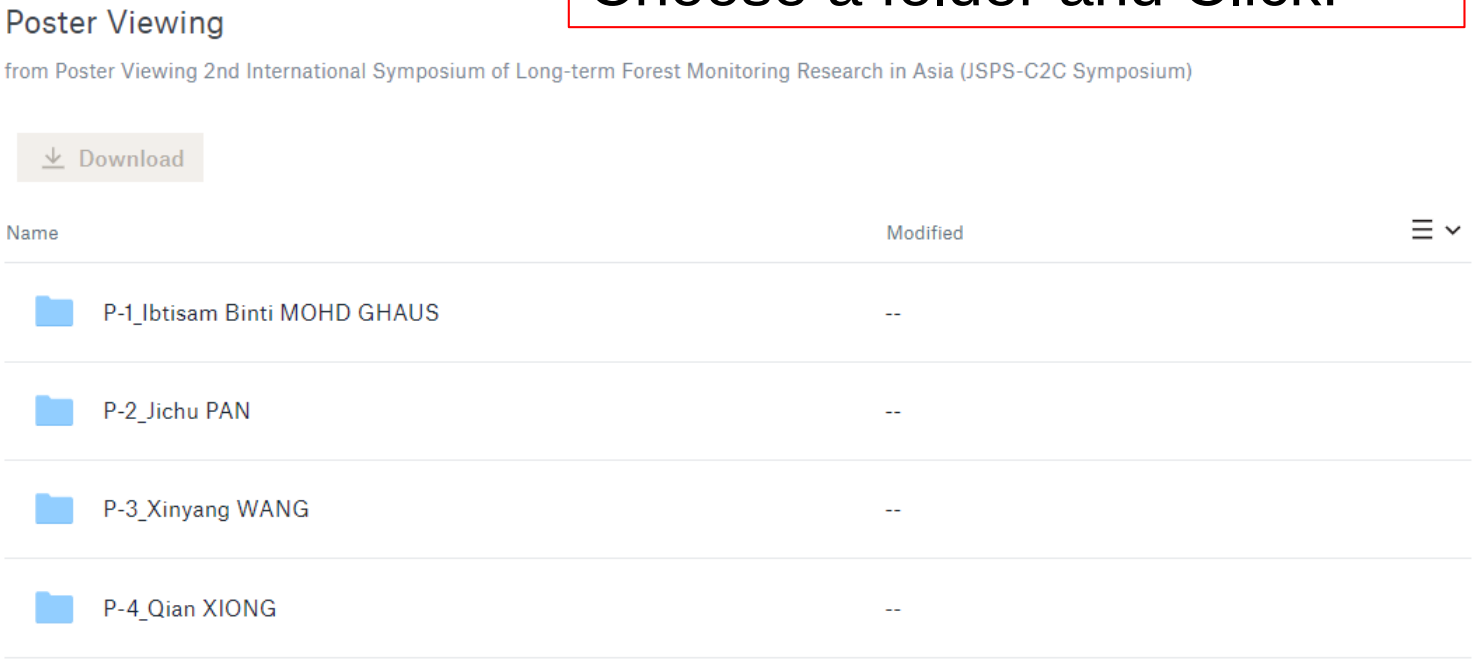

It is not essential, but I suggest setting your Dropbox language as English (see page #14 and later) , which makes communication with poster authors easier.

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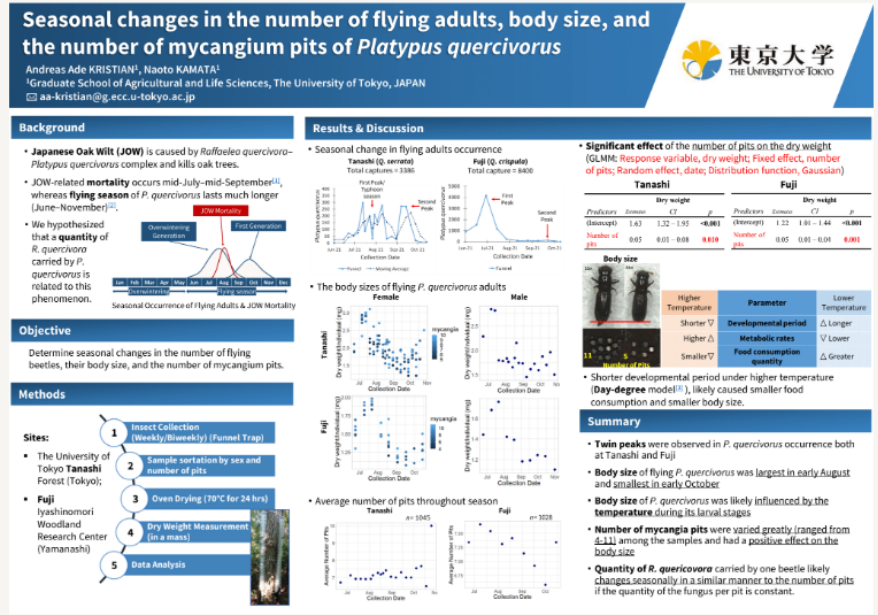

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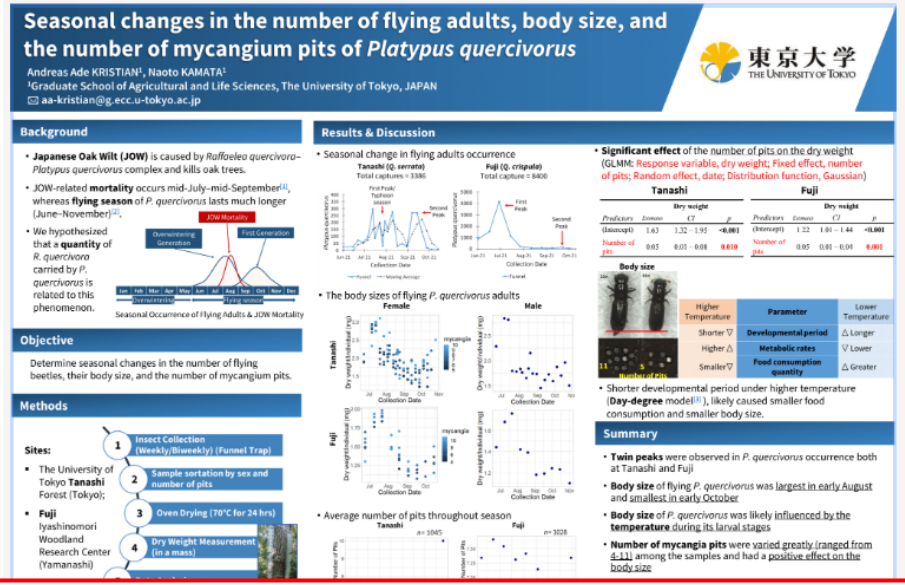

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If you enter the site by using your Dropbox account, your name (ex. “Naoto Kamata” as shown in this slide) will be shown when you leave a comment. But “postersession comment” will be shown when you use a common account sent via email. When you leave comments using the common account, please type your name after each comment. If not, no body can recognize the commentator.

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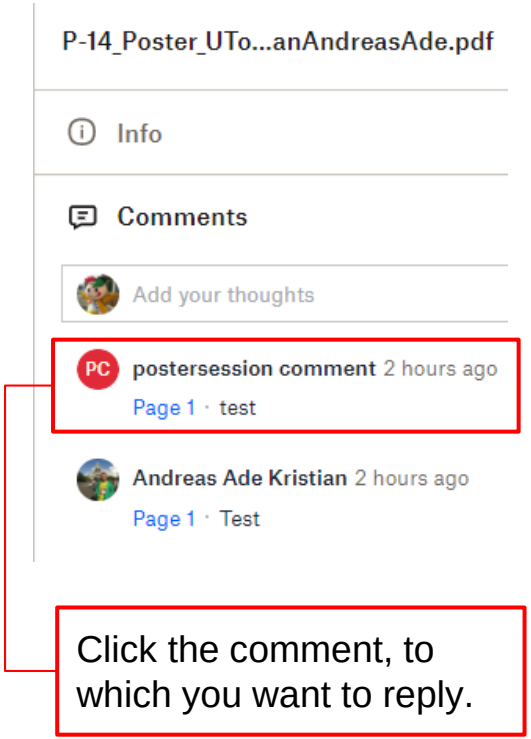

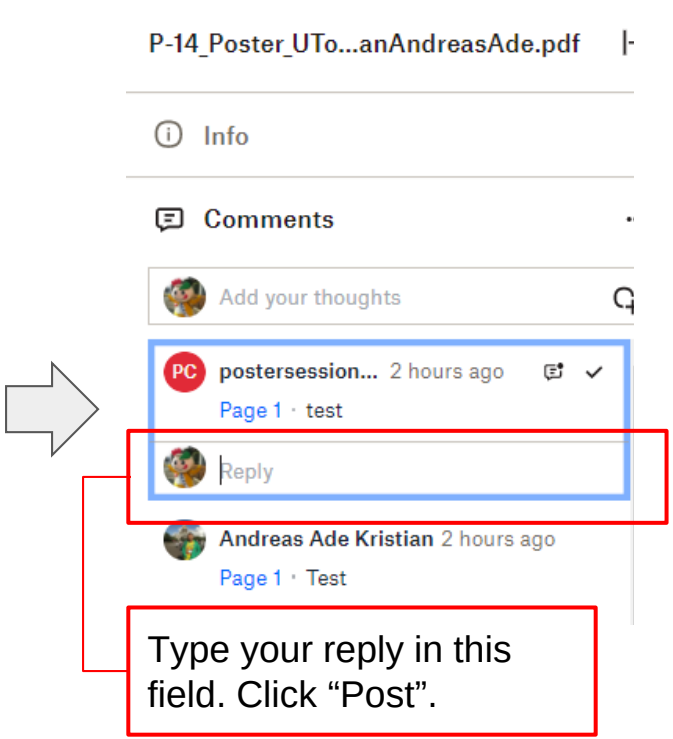

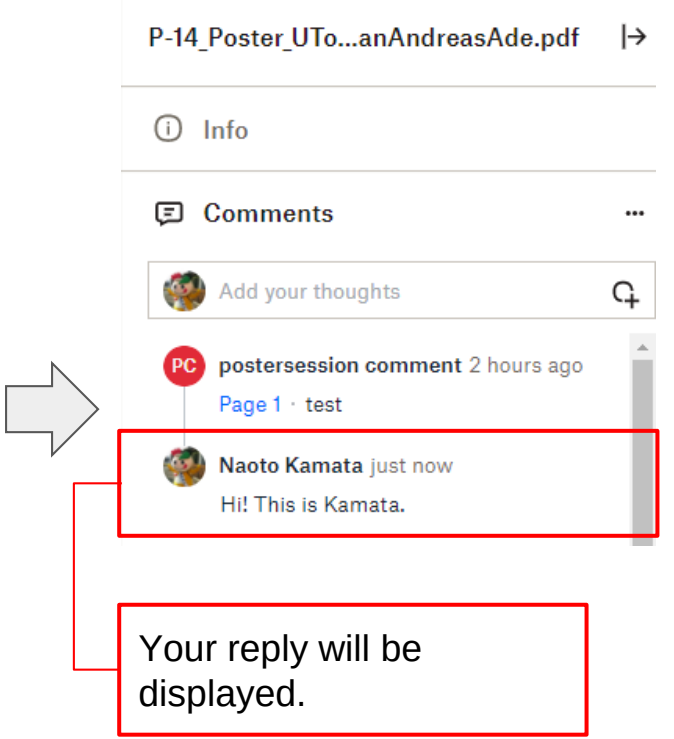

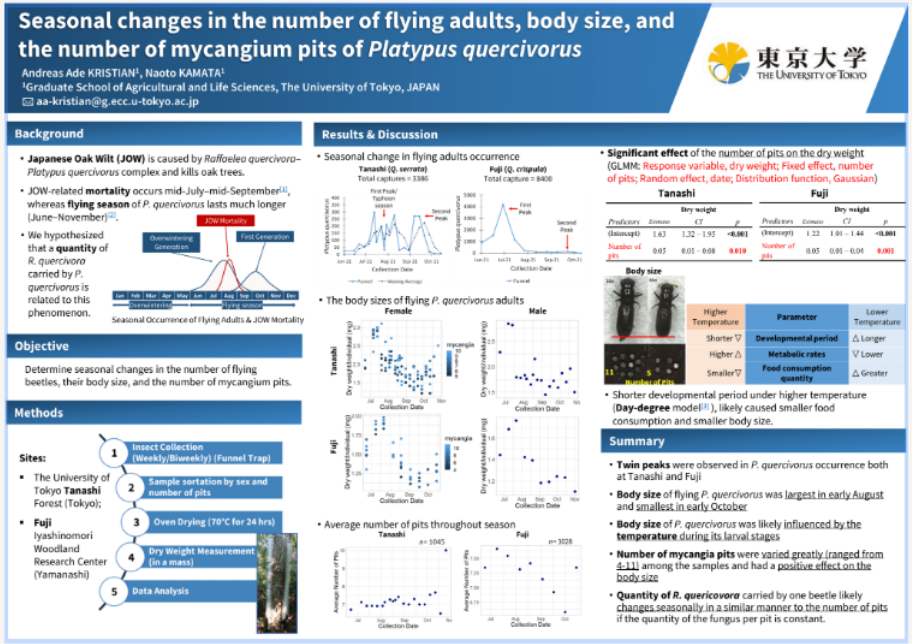

Seasonal changes in the number of flying adults, body size, and the number of mycangium pits of *Platypus quercivorus*

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東京大学 THE UNIVERSITY OF TOKYO

Background

- **Japanese Oak Wilt (JOW)** is caused by *Raffaelea quercivoro–Platypus quercivorus* complex and kills oak trees.
- JOW-related **mortality** occurs mid-July–mid-September[4], whereas **flying season** of *P. quercivorus* lasts much longer (June–November)[5].
- We hypothesized that a **quantity** of *R. quercivoro* carried by *P. quercivorus* is related to this phenomenon.

JOW Mortality
Overwintering Generation
First Generation
Overwintering
Flying season
Seasonal Occurrence of Flying Adults & JOW Mortality

Objective

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

Methods

Sites:

- The University of Tokyo **Tanashi** Forest (Tokyo);
- **Fuji** Iyashinomori Woodland Research Center (Yamanashi)

1. Insect Collection (Weekly/Biweekly) (Funnel Trap)
2. Sample sortation by sex and number of pits
3. Oven Drying (70°C for 24 hrs)
4. Dry Weight Measurement (in a mass)
5. Data Analysis

Results & Discussion

- Seasonal change in flying adults occurrence

Tanashi (*Q. serrata*) Total captures = 3386
Fuji (*Q. crispula*) Total capture = 8400
First Peak/ Typhoon season
Second Peak
First Peak
Second Peak
Collection Date
Total
Moving Average

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

Female
Male
Tanashi
Fuji
mycangia
Collection Date

- Average number of pits throughout season

Tanashi
Fuji
n= 1045
n= 1028
Average Number of Pits
Collection Date

- **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		
Predictors	Estimate	CI	p	Predictors	Estimate	CI	p
(Intercept)	1.63	1.32 – 1.95	<0.001	(Intercept)	1.22	1.01 – 1.44	<0.001
Number of pits	0.03	0.01 – 0.08	0.010	Number of pits	0.05	0.01 – 0.04	0.001

Body size
Number of Pits

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

- Shorter developmental period under higher temperature (**Day-degree** model[13]), 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. quericovora*** carried by one 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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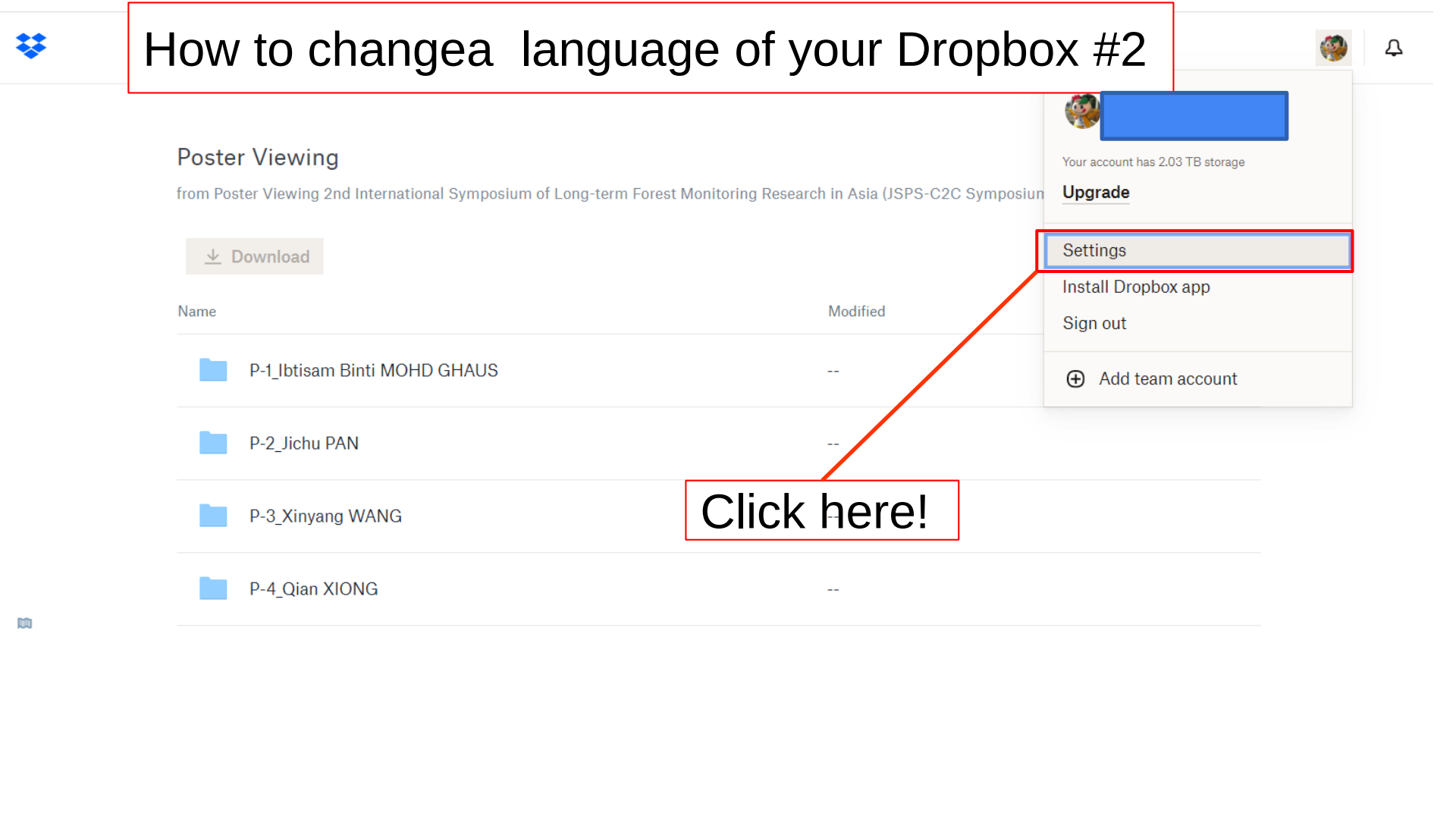

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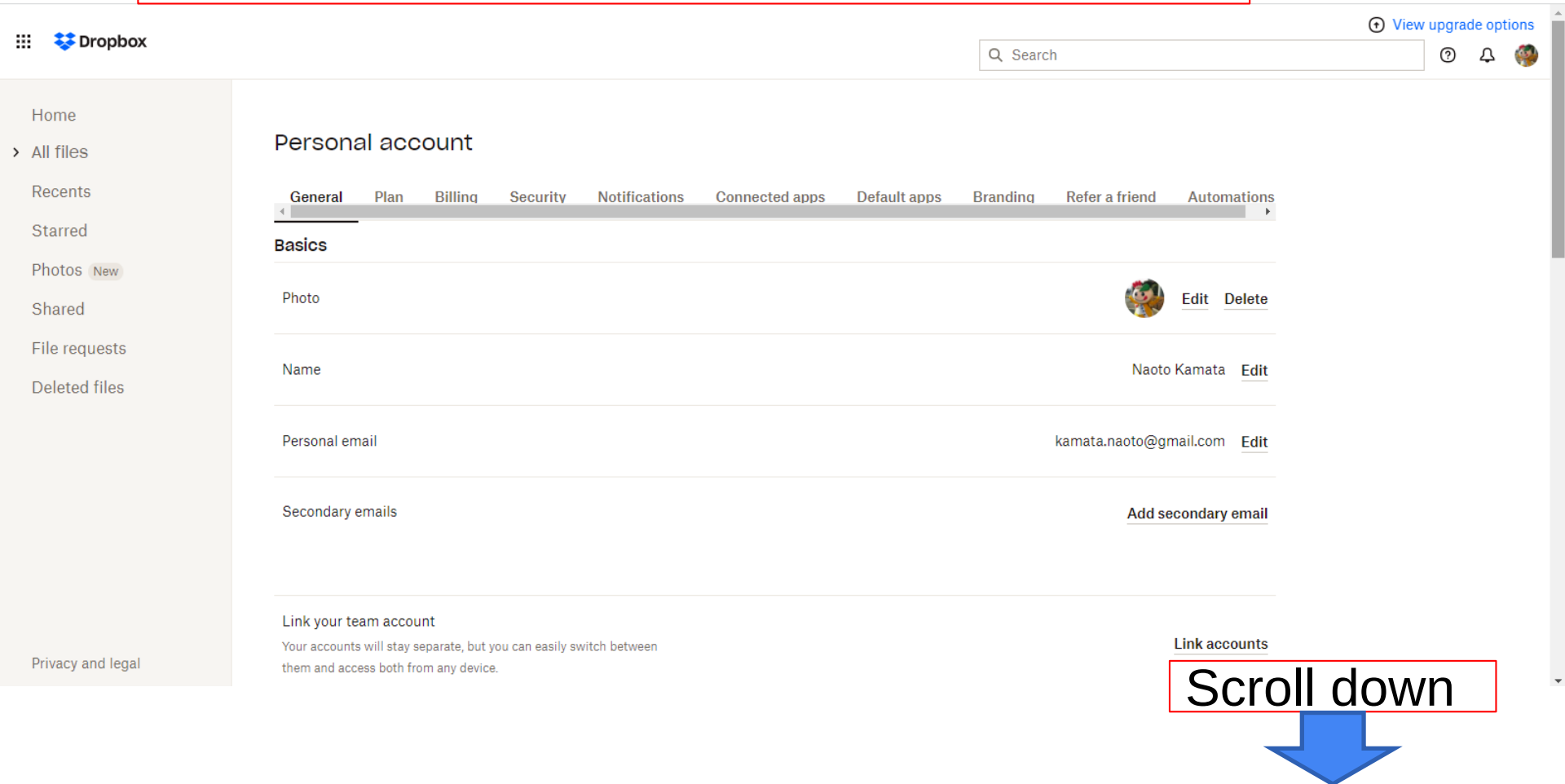

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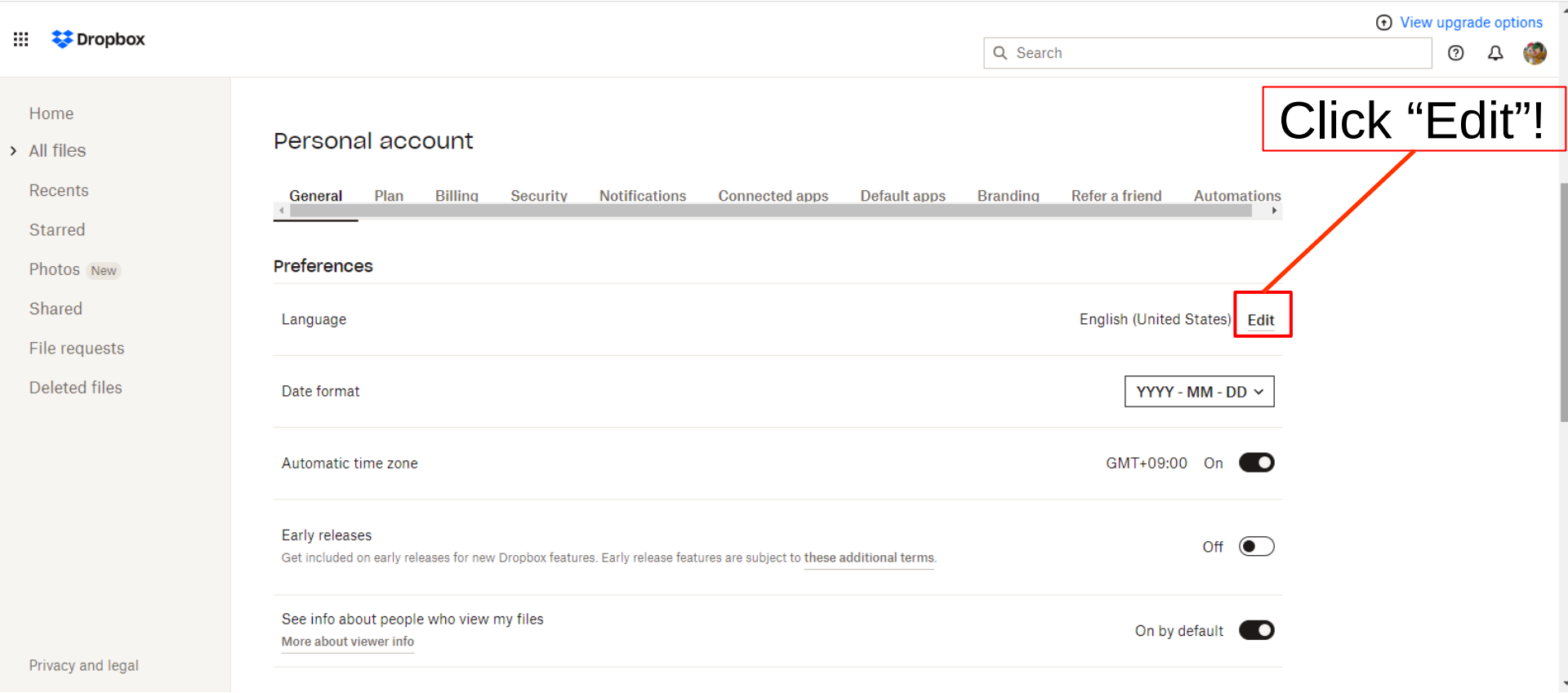

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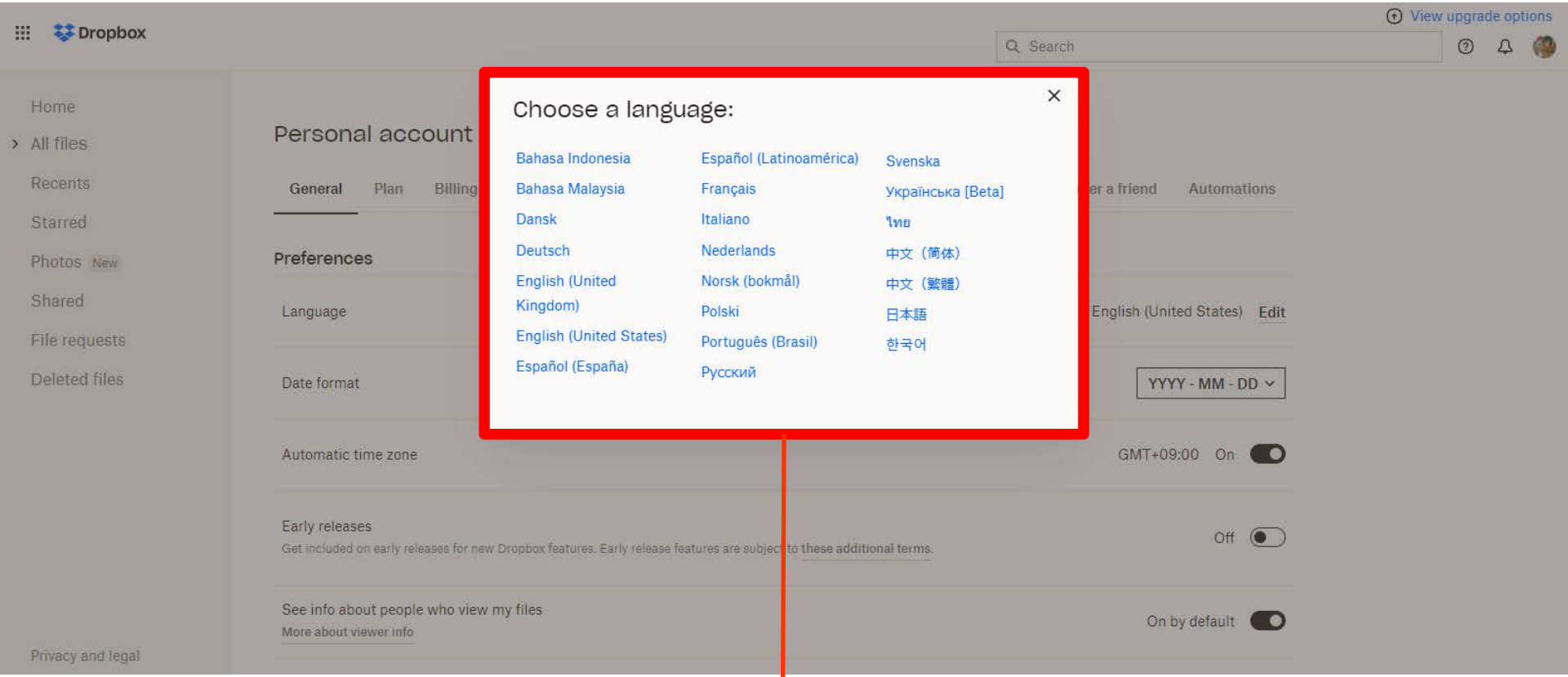

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