# fuelinex dailylog

Christophe Rouleau-Desrochers

## August

 $Saturday,\ August\ 22nd,\ 2023$ 

This is a test to see if it works

Friday, August 23th, 2020

Another day

 $Tuesday,\ August\ 24th,\ 2020$ 

## ${\bf September}$

## $Tuesday,\ September\ 1st,\ 2023$

Write some more the next month!

## January

## Monday, January 1st, 2024

This is a test to see if it works

## February

## Monday, February 1st, 2024

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## March

## Monday, March 1st, 2024

This is a test to see if it works

### April

#### Wednesday, May 1st, 2024

**Christophe** Last few miles of my trip with Charlotte. For our last morning, we went to Billy Frank NWR. 41 species. Heard a Sora. We headed to Vancouver and set my things up in the afternoon.

Thursday, May 2, 2024

Christophe

Friday, May 3, 2024

Saturday, May 4, 2024

Monday, May 6, 2024

Tuesday, May 7, 2024

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Thursday, May 9, 2024

Christophe

- Answered a few emails.
- Move back Segi that I removed previously to the greenhouse (warm spring treatements).
- Phenological monitoring for all species
- Paint Pist/Poba
- Measure shoot elongation Pist/Poba
- Water plants in CC

**Comments** Once I realized Segi were turning back from brown to green, I decided to bring them back to the experiment. Issue 12 on Git describes this.

On methods for shoot elongation: I always measure the center shoot of Pist. If there is no "central" shoot, I put a red dot on the measured shoot.

Friday, May 10, 2024

Christophe

Painted Segi, Quma and Acma.

- Took pictures of all Segi replicates as I want to keep track of their color change.
- Ken removed some dendrometers.
- Shoot elongation measurements for Segi, Quma and Acma (both in field and CC)
- Plants were rotated and watered in the chambers
- Worked 2 hours on irrigation and greenhouse arrangement.
- Started pruning Alru and weeding plants.

**Comments** I was not feeling well this morning, so I came in at 11 and finished at 8:30. I realized pruning Alru, weeding the plants outside the greenhouse will take many hours. Dan and I will install automatic watering for trees outside the greenhouse.

#### Monday, May 13, 2024

#### Christophe

- Moved Poba/Pist back to Totem
- Repoted Pist (all of them)
- Brought home and aped the end of roughly 100 rulers in the evening

**Comments**: Pist show root limitation. Will post pictures on git. Poba didn't need to be repotted as they were already in 2-gal pots from the cuttings planted in March

### Tuesday, May 14, 2024

### Christophe

Personal appointment to fix my car. So did mostly computer work. Emails, git issues, update data, etc. Came in for 3 hours in the afternoon to move around some plants and start weeding some from outside of the greenhouse.

### Wednesday, May 15, 2024

#### Christophe+Ken+Justin

- I bought tape.
- Taped the end of rulers.
- Shoot elongation measurements of:-Acne -Bepa -Poba -Prvi

**Comments**: Before May 15, Hobo loggers were very much exposed to the sun. Therefore, they are heating which I assume influences the temperature sensor greatly.

On phenological monitoring of Pist: Justin and I talked about it and we figure that for this species, from 1-2-3 are the shoot elongation and 4 is leaf emergence. This species elongates its shoots before the needles emerge. Justin will start an issue on this with upcoming pictures.

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- We took pictures of Segi, Quma and Pist for phenostages. Justin started an issue to figure out Segi phenostages.
- We watered and rotated Acma, Segi and Quma (in chambers).

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- I installed white paper with a half pot to protect Hobo loggers from getting sun heat.
- I installed a bird feeder.

**Comments**: left early for an appointment at ICBC.

### Friday, May 17, 2024

Christophe+Selena I arrived at Totem at 11am. I had to go back to ICBC to get my Driver's license done. Selena arrived at Totem at 11am.

- We installed the paper rulers on Poba and Quma, both in the greenhouse and in the chambers.
- I had to buy more medical tape.
- I fixed a couple of leaks on the irrigation system.
- I saved the vegetable plants for Dan that he forgot in the truck.
- I weeded almost all the plants outside of the greenhouse. I finished at 8:30.

### Friday, May 20, 2024

#### Christophe

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- Started a git issue on nutrient addition and answered a few emails.
- I removed 2 species from the chambers: -Quma -Acma

- I took the hobo loggers from those chambers as I want to install them at Totem. CC4 and CC1 are the ones removed.
- I placed all the Segi in the Walk-in chambers.
- Since the Subaru was very dirty from all the plants moved around, I cleaned it with a very bad vaccum that I found in the basement.
- First visitor at my bird feeder! Black-capped chickadee. I am very excited.
- I did the phenomonitoring for all trees.
- Put back drippers in Quma

#### Tuesday, May 21, 2024

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- Took some time to learn Latex.
- I attended a talk on AI in Academia with Deirdre. Then we talked about a few questions I had regarding how to organize my data, the summer plans of the lab and other stuff.
- Then I chatted with Mao about our respective projects and how Mount Rainier is going to be like.
- Then I answered a few get issues and emails.

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• I changed the photoperiod in CCWalkin and set the remaining chambers to a constant 10 PAR and 15 degrees so they consume less energy.

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#### Comments:

### Thursday, May 23, 2024

Christophe Started the day with some readings on growing season extensions. Added two quick notes in my obsidian slip box. I have been procrastinating on this and should be more consistent. I answered emails to Lizzie, Deirdre and Mao regarding egret retreat, lab meeting, rbs retreat, etc. Submitted my expenses to Lizzie Lizzie agreed to the switch of car responsibility from Deirdre to me.

### Friday, May 24, 2024

Christophe Went back to ICBC to register my car in BC. Came back at Totem to clean the greenhouse so it's presentable for my presentation on Sunday Last step of fixing the irrigation has been done with Dan in the morning. We I changed the Subaru's battery with the one I bought at Costco. I charged it so it's at maximum capacity with the car charger at Totem. Met with Deirdre and Mao at 1pm to discuss: -Egret retreat, -Mao's fieldwork, -General plan for the summer I also mentioned to them that I thought of removing the Segi from the chambers because they've been there for a long time and because of the power outage that will happen the day after (Saturday). We agreed to remove them and place them back at Totem. I moved the Segi back to Totem, and placed the irrigation back into the pots.

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Christophe Came in at 5pm to prepare my presentation for tomorrow. I installed dendrometers on trees and prepared a bunch of graphs. I finished cleaning the greenhouse

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In the night, I went to the reception. It was very nice. Mao and Deirdre were also there, and I saw Steven K who just arrived in Vancouver.

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#### Thursday, May 30, 2024

Christophe First work day after the conference. Lots of things to do:

- Bring 20 plants in the lab to start testing the dendrometers
- Attend Deirdre and Britany's graduation and take pictures of them done
- Meet with Rob Guy done
- Update nutrient issue to inform Lizzie/Freddi done
- Check Segi W/W 14 and 15. They were switched, so I wanted to make sure that phenomonitoring was done properly done
- Phenomonitoring
- Add archive folder to fuelinex repo done
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### June

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### Monday, June 4, 2024

Everyone from the lab Reifel Bird Sanctuary retreat. When we arrived, it was raining a bit, but it slowed down after 15 minutes. It was very quiet. Justin will do a slideshow of the pictures that were taken. I started working for real at 3pm. I added 2 notes to my slipbox! It was on the paper Fredi shared in git issue 14 about how to define stress in plants. I still need to cross-reference those. After this, I replied to a couple of emails that Lizzie and Christine sent me about my expense report. It took me about an hour to get this done.

#### Monday, June 5, 2024

Christophe I went to get the Subaru serviced. I also filled up the gas tank. While I was waiting, I finished what Christine told me to do to get my expense report done. I also registered to my classes in the fall. I talked to Deirdre on my way back to talk about my talk with Christine which was very difficult. We had an idea of getting a list of things over the course of the summer of things that Deirdre should teach us. TO DO TODAY

- Scan the receipts from yesterday (dominos and rbs) done
- Scan the receipts from today (Chevron and Kon auto) done
- Go back downstairs to grab the ziplock in the Xterra with the maintenance. Add maintenance to Git? done
- Start a list of things Deirdre should pass on to us. done

### Monday, June 5, 2024

Christophe Lizzie and I met over Zoom in the morning to discuss many things. Details are in my notes. Main conclusion is that we will drop using the dendrometers in the fall and I should reach out to the people at OpensLab to see if they can help me troubleshoot the dendrometers. We also talked about which classes I should and shouldn't take in the fall. We talked about the nutrients and I told her that I was concerned trees were showing nutrient stress symptoms. So she gave me green light to give them liquid nutrients. I searched lots of papers to figure out what would be a good nutrient concentration to add to the trees because we want to mimic natural conditions. I asked Dan's opinion and he brought fertilizer from the greenhouse. In his opinion, this will work perfectly and will provide fast release nutrients

to the plants. Mao and I met at 3pm, so I can show her how to take the shoot elongation measurements and finish the pheno monitoring. We had to leave before we finished because we had a lab meeting. We presented the trips we had been doing in the following weeks. I came back to Totem after to finish phenomonitoring and take the measurements on the paper rulers.