

fuelinex dailylog

Christophe Rouleau-Desrochers

2023

August

Saturday, August 22nd, 2023

This is a test to see if it works

Friday, August 23th, 2020

Another day

Tuesday, August 24th, 2020

September

Tuesday, September 1st, 2023

Write some more the next month!

2024

January

Monday, January 1st, 2024

This is a test to see if it works

February

Thursday, February 1, 2024

Christophe

Friday, February 2, 2024

Christophe

Monday, February 5, 2024

Christophe

Tuesday, February 6, 2024

Christophe

Wednesday, February 7, 2024

Christophe+Britany+Justin Started measuring the trees.

Thursday, February 8, 2024

Christophe

Friday, February 9, 2024

Christophe

Sunday, February 11, 2024

Christophe Started measuring the trees.

Monday, February 12, 2024

Christophe Had a talk with Lizzie regarding dendrometer modification. This will allow us to charge them all at one time. Dajeong will work in the next few weeks to move the board in a position where the wire will be able to go through the hole.

Tuesday, February 13, 2024

Christophe I flew back to Montreal

Wednesday, February 14, 2024

Christophe

Thursday, February 15, 2024

Christophe

Friday, February 16, 2024

Christophe

Monday, February 19, 2024

Christophe

Tuesday, February 20, 2024

Christophe

Wednesday, February 21, 2024

Christophe

Thursday, February 22, 2024

Christophe

Friday, February 23, 2024

Christophe

Monday, February 26, 2024

Christophe

Tuesday, February 27, 2024

Christophe

Wednesday, February 28, 2024

Christophe

Thursday, February 29, 2024

Christophe

March

Monday, March 1st, 2024

Friday, March 1, 2024

Christophe

Monday, March 4, 2024

Christophe

Tuesday, March 5, 2024

Christophe

Wednesday, March 6, 2024

Mao All CoolS replicates moved in the climate chamber after discussion with Lizzie and Mao regarding the potential warm and early spring, we wanted to make sure to have a meaningful difference between treatments.

We are having a early warm spring this year, and to help cold spring treatments to stay cold, we decided to put them inside the growth chambers

Results: All the cold spring treatments were put inside the growth chambers, we used one walk-in chamber, two medium chambers and one small chamber. We stacked the pots into two layers to make sure every individual can get light

Comment: We might need to rotate the pots inside the growth chamber to reduce chamber effect

Thursday, March 7, 2024

Mao Hobo loggers were set up To record temperature and moisture changes in different growth chambers and green house

Results: One in each type of growth chamber, one at ceiling level in the green house, one at plant level in the green house, one outside the green house

Friday, March 8, 2024

Mao

Task:

Reasons:

Results:

Comments:

Monday, March 11, 2024

Mao

Tuesday, March 12, 2024

Mao

Wednesday, March 13, 2024

Mao

Thursday, March 14, 2024

Mao

Friday, March 15, 2024

Mao

Monday, March 18, 2024

Mao

Tuesday, March 19, 2024

Mao

Wednesday, March 20, 2024

Mao

Thursday, March 21, 2024

Mao

Friday, March 22, 2024

Mao

Monday, March 25, 2024

Mao

Tuesday, March 26, 2024

Mao

Wednesday, March 27, 2024

Mao

Thursday, March 28, 2024

Mao

Friday, March 29, 2024

Mao

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

Wednesday, May 8, 2024

Thursday, May 9, 2024

Christophe

- Answered a few emails.
- Move back Segi that I removed previously to the greenhouse (warm spring treatments).
- 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.

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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.

Thursday, May 16, 2024

Christophe+Justin I came in at 9:30 and Justin at 10

- We did shoot elongation measurements for : -Quma -Segi
- 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 vacuum 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

Christophe

- 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.

Wednesday, May 22, 2024

Christophe + Ken I started marking the rulers and Ken arrived at 10. We finished marking the rulers at 12 and Ken went to get extra paper rulers because we forgot some trees on Friday. I talked with Dan, we will shrink the irrigation system, remove the compost and cut the grass around the greenhouse. I talked with Deirdre regarding the car battery A crow stole my granola bar :(We finished taking the measurements around 3. I left as I had another appointment at ICBC to register my car. I went to Costco during the night to buy a new car battery for the lab.

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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Christophe CSEE conference. Deirdre and I met with Patrick from biochambers in the morning. We decided to meet with him on Friday morning and since Deirdre won't be able to attend, Mao will join. Attended many talks. In the night, I went to the grad/post doc mix at Koerners.

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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

Monday, June 3, 2024

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Tuesday, 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.

Wednesday, 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

Thursday, June 6, 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.

Friday, June 7, 2024

Christophe Started at 10am. I kept on looking at how much fertilizer I should add to the trees. It's very ambiguous, so I decided to add very small amounts at first and readjust later on. For now, I diluted the solution Dan gave me by half with tap water. I added 125mL of liquid fertilizer to all plants today. In the afternoon, I downloaded all the data from the hobo loggers that were already in the greenhouse. Then, I added 22 temp/light hobo sensors all over the greenhouse, because I strongly suspect that we will have a big light effect because of the forest behind the greenhouse. The plants at the front of the greenhouse most likely receive much more light than the ones at the back of the greenhouse. I also took some time to move my bird feeders because I caught a squirrel eating in them.

- Figure out fertilization and do it – done
- Reserve camping
- deliver Mao's package – done
-

Friday, June 7, 2024

Christophe Came in at noon, mainly to take care of the plants at Totem. I finished setting up the light meters. I decided to remove logging in the temperature data, because anyway it's extremely biased because the sun directly hits them and make them really hot. I need to finish the greenhouse design with them in.

Monday, June 10, 2024

Christophe

- check new hobo sensors
- update the greenhouse arrangement with all the new loggers
- make sure irrigation is back on – done
- start writing up the methodology on hobo loggers and fertilizer
- shoot elongation protocole
- DEFENETILY do the apical shoot death monitoring
- update git issue on this
- Write to Mao to tell her what she will need to do

- phenomonitoring
- load shoot elongation measurements in excel file
- write to Lizzie and colleagues to tell them that I won't be checking my email
- Move Alru back to the soil pit – done
- Weed all the plans – done
- update the pheno monitoring and shoot elongation of all the segi that I removed from the experiment.
- Email Lizzie about her class
- return book to Amazon
- Add notes to the labgit on chambers
- email Melina regarding the greenhouse
- Inventory of trees outside at Totem
- Clean up the mess at Totem

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July

Monday, July 1, 2024

Christophe 123 TESTæœ