

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

Monday, March 11, 2024

Tuesday, March 12, 2024

Mao

Wednesday, March 13, 2024

Mao

Thursday, March 14, 2024

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

Sunday, March 24, 2024

Mao+Justin+Julie

Task:Install dendrometers

Results:We installed dendrometers to the warm spring treatments (ones in the green house for the moment) in block 2, and made sure they were all working (with the green light on)

Comments: Charging: “It takes about 31 hours to get from 3.6 to 4.2V, they should last about 3 weeks once they’re fully charged (Dajeong, 2024).” We will charge them every two weeks for 1 day.

Monday, March 25, 2024

Mao

Task: Charge dendrometers

Results : Charged dendrometers

Tuesday, March 26, 2024

Mao

Task: Charge dendrometers

Results : Charged dendrometers

Wednesday, March 27, 2024

Mao

Task: Charge dendrometers

Results : Charged dendrometers

Thursday, March 28, 2024

Mao + Britany

Task: Rotate pots

Reasons: Reduce chamber effect

Results: We rotated pots from bottom to top and randomly put the pots in. We also watered the plants

Friday, March 29, 2024

Mao

Saturday, March 30, 2024

Mao + Sylvia

Task: Arrange plants in the green house

Results: We arranged all plants in the green house based on the layout design. We also watered the dry pots.

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+Deirdre + Ken + Selena

Task:Orientation Move Cool/Cool treatments back to Totem for following species: - Acne - Bepa - Prvi

Reasons: These species don't look too happy in the chambers and most of the replicates are fully leafed out

Results: Deirdre got me orientated on the project and trained me on the phenological monitoring. I met with Ken and Selena so we can move the first batch of species Cool/Cool treatments back to Totem: Acne Bepa Prvi Alru *** we decided to move also Alru as they are probably dead. Plants in chambers watered

Comments: I need to request Totem truck a few days before I need it – Dan was using it that day. Therefore, we used the Subaru to move the trees. POT Effect : The roots for Bepa and Alru seem to be limited by the pots. Need to repot them ASAP.

Friday, May 3, 2024

Christophe+ Ken

Task:Water B3 – not currently irrigated. Set up irrigation lines in B3 Print shoot elongation rulers Map how many drippers per line Make these decisions: 1. Whether or not to abandon dendrometers 2. Abandon Alru and Segi 3. Which potting mix to use 4. Pot size to use

Reasons: Don't want plants to dry Since we will install more lines and the irrigation system is at max capacity, we need to make sure to not overload it to avoid not having enough pressure. On decisions: 1. Many problems (too much time required to trouble-shoot them) 2. Not doing great either at Totem or in the chambers 3. Should I add clay (raise water retention) to the mix. Should I use the leftovers from last year? 4. 4-gal: extremely time consuming to build, repot and heavy to move around. 2-gal: should be enough for current growing season.

Results:Installed irrigation in B3. On one line, there is a fitting missing (will need to ask Dan to figure it out). In the mean time, I watered them manually. Ken counted drippers on each line and noted them in my note pad. Decisions: *** had a quick chat with Fredi in the afternoon to ask for his opinion. 1. Agreed to abandon dendrometers for now. We will reinstall them later in the summer. 2. Agreed to abandon Alru and Segi 3. Agreed to reuse potting mix from last year 4. 2-gal.

Comments:Need to fix the water hose: leaking from 2 places. Reasons to abandon Alru and Segi: 1. Loss of many replicates. 2. Even if they would suddenly come alive,

there wouldn't be a meaningful difference between the plants in the chambers and the ones outside. Since we reuse potting mix from last year, it's probably low on nutrient content. We need to solve this – should create a Git issue on this.

Saturday, May 4, 2024

Christophe

Task: Repot Acne and Bepa

Reasons: 2 most advanced species and the most limited by pot size

Results: Repotted Acne and Bepa

Comments: Time to repot Acne: 2 hours for +- 30 trees. Time to repot Bepa: 3.5 hours for +- 60 trees, which includes removing dendrometers.

Monday, May 6, 2024

Christophe + Ken + Deirdre

Task: Find a solution for paper rulers. Go to Staples (Amazon package never arrived)

Reasons: Talked with Deirdre and Ken about how we should avoid what happen last year where the rain ruined the rulers. Taping the end of the ruler should avoid them falling. Also helps the tape sticking to the ruler.

Results: Decided to use packaging tape to protect the end of rulers. Went to Staples. Going to return everything I bought.

Comments: Notes on repotting: I fill a layer at bottom and compact it very tight (about 1-2 inches depending on how much soil there is in the old pot. I delicately remove the tree from its current pot and place it in its new home. I had pot mix to fill the gaps. I compact the sides with my fingers and add mix until the pot is full.

Tuesday, May 7, 2024

Christophe

Task: Tape the end of the rulers. Paint Acne to mark from which point the shoot will be measured. Install rulers on Acne

Reasons: Installing rulers on trees is really time consuming. I thought I will try only 30 replicates (Acne B1) for now. I will keep going once all the species have had at least one shoot elongation measurement.

Results: 99 rulers have their end taped. Acne B1 have their rulers. Acne B1-B2-B3 were all measured. Set up a calendar

Comments: It takes 0,73 minutes to tape the end of 1 ruler. It takes 2.5 minutes to install the ruler on 1 tree. *** I am not too good at this right now so I will probably get faster soon.

Wednesday, May 8, 2024

Christophe+ Ken

Task: Paint on Bepa and Prvi Shoot elongation measurements on Bepa and Prvi

Results: Repotted Prvi Painted Bepa+Prvi Measured Prvi+Bepa

Comments: I need to buy more medical tape. 2 trees completely dead for prvi. Need to figure out what to do with resprouting and when there is more than 2 trunks.

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.

Monday, May 13, 2024

Christophe

- Moved Poba/Pist back to Totem
- Repotted 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).
-
- 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

-
- 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

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.
-
- 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.

Saturday, May 25, 2024

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

Sunday , May 26, 2024

Christophe + Justin Came in at 8am to set up my monitor and my presentation. Justin came in at 10:30 to take pictures of my presentation while I was presenting the graphs to him! Grad students from Isabelle Laforest's lab came to my talk Another student from Ontario also came.

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.

Monday, May 27, 2024

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.

Tuesday, May 28, 2024

Christophe I started the day with a visit of the greenhouse for the students of Steven K lab. Then I came back to the nest with them. Attended many talks once again

Wednesday, May 29, 2024

Christophe + Britany Came in at 9:30 and Britany at 11. Started marking the rulers for shoot elongation measurements. We finished the measurements with the metal ruler at 2pm. I went back to the nest to attend the last talks. Britany finished logging in the paper rulers marks. She didn't finish it. I fill finish logging in the data tomorrow. Had a chat with Dan regarding the mildew that's attacking the Acne. We decided to spray them with systemic fungicide. It was done the same day by Dan

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
- Email Lizzie for next week meeting – done

- Student profile on Forestry site – done
- Review notes from last year's egret retreat – done
- Start issue on disease management – done
- Answer Lizzie on aseiversity – done
- Finish setting up Hobo loggers

Friday, May 31, 2024

Christophe, Mao, Britany Started the day with the interview with Patrick from Biochambers. It went great! He answered many concerns I had with the chambers and found possible reasons why the trees were not doing great in the spring. After that, I started repotting the Segi around noon. Britany arrived shortly later. She left at 1:30 and I finished alone around 4pm. I worked on my computer for the rest of the day,

Monday, June 3, 2024

Christophe Started the day by answering many emails. I answered the git issue on nutrient depletion which took my quite some time. I also finished installing the dendrometer. I did this just so I can check if they are all working. Met with Mao at 3:30pm to discuss worklearn. We updated the offer and will send to Lizzie to confirm the info with her.

May

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Thursday, May 2, 2024

Christophe+Deirdre + Ken + Selena

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Reasons: These species don't look too happy in the chambers and most of the replicates are fully leafed out

Results: Deirdre got me orientated on the project and trained me on the phenological monitoring. I met with Ken and Selena so we can move the first batch of species Cool/Cool treatments back to Totem: Acne Bepa Prvi Alru *** we decided to move also Alru as they are probably dead. Plants in chambers watered

Comments: I need to request Totem truck a few days before I need it – Dan was using it that day. Therefore, we used the Subaru to move the trees. POT Effect : The roots for Bepa and Alru seem to be limited by the pots. Need to repot them ASAP.

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- Then I chatted with Mao about our respective projects and how Mount Rainier is going to be like.
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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.

Monday, May 27, 2024

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.

Tuesday, May 28, 2024

Christophe I started the day with a visit of the greenhouse for the students of Steven K lab. Then I came back to the nest with them. Attended many talks once again

Wednesday, May 29, 2024

Christophe + Britany Came in at 9:30 and Britany at 11. Started marking the rulers for shoot elongation measurements. We finished the measurements with the metal ruler at 2pm. I went back to the nest to attend the last talks. Britany finished logging in the paper rulers marks. She didn't finish it. I fill finish logging in the data tomorrow. Had a chat with Dan regarding the mildew that's attacking the Acne. We decided to spray them with systemic fungicide. It was done the same day by Dan

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
- Email Lizzie for next week meeting – done

- Student profile on Forestry site – done
- Review notes from last year's egret retreat – done
- Start issue on disease management – done
- Answer Lizzie on aseiversity – done
- Finish setting up Hobo loggers

Friday, May 31, 2024

Christophe, Mao, Britany Started the day with the interview with Patrick from Biochambers. It went great! He answered many concerns I had with the chambers and found possible reasons why the trees were not doing great in the spring. After that, I started repotting the Segi around noon. Britany arrived shortly later. She left at 1:30 and I finished alone around 4pm. I worked on my computer for the rest of the day,

Monday, June 3, 2024

Christophe Started the day by answering many emails. I answered the git issue on nutrient depletion which took my quite some time. I also finished installing the dendrometer. I did this just so I can check if they are all working. Met with Mao at 3:30pm to discuss worklearn. We updated the offer and will send to Lizzie to confirm the info with her.

June

Monday, June 3, 2024

Christophe Started the day by answering many emails. I answered the git issue on nutrient depletion which took my quite some time. I also finished installing the dendrometer. I did this just so I can check if they are all working. Met with Mao at 3:30pm to discuss worklearn. We updated the offer and will send to Lizzie to confirm the info with her. I checked in with Dan regarding mildew on the Acne. They don't look great right now. He told me it can take up to a week before we see any improvement. Also, I thought we had the same problem with Prvi, but its just residu of the fongicide on their leaves.

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 – done
- 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 – done
- shoot elongation protocole – done
- DEFENETILY do the apical shoot death monitoring – done

- Write to Mao to tell her what she will need to do – done
- phenomonitoring – done
- load shoot elongation measurements in excel file – done
- write to Lizzie and colleagues to tell them that I won't be checking my email – done
- 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– done
- return book to Amazon
- Add notes to the labgit on chambers
- email Melina regarding the greenhouse – done
- Inventory of trees outside at Totem – done
- Clean up the mess at Totem – done
- Answer Lizzie's email on Google Drive issue. – done
- start loggers at the top of Greenhouse – done
- add csv file description for aserdiversity – done
- text dan to spray again – done

I worked a lot on the methodology today. I wrote up on the hobo loggers, fertilization, shoot elongation monitoring. I also added a file of apical shoot monitoring because many trees have a dead apical shoot. Therefore, I don't think we will be able to estimate their initial biomass.

I followed up on the git issue regarding fertilization

Asevdiversity: reuploaded the methodology text and added column description to the .tex file as requested by Lizzie.

Big day! I did pretty much all the things I listed today! I finished with weeding all the plants in and out the greenhouse. I replied to Lizzie and Mao to finish. Break is tomorrow!

Tuesday, June 11, 2024

Christophe Vacation

Wednesday, June 12, 2024

Christophe Vacation

Thursday, June 13, 2024

Christophe Vacation

Friday, June 14, 2024

Christophe Vacation

Monday, June 17, 2024

Christophe Vacation

Tuesday, June 18, 2024

Christophe Vacation

Wednesday, June 19, 2024

Christophe Hectic mess with the UBC residences. They kicked me out of my place on my last day of vacation and I needed to fix this issue in the morning. Therefore I arrived at the office around 11.

Read all the emails I received during my holidays and. Following is the to do list I need to do today:

- Start git issue on the tree inventory
- update the greenhouse arrangement with all the new loggers – done
- update the pheno monitoring and shoot elongation of all the segi that I removed from the experiment – done
- Add notes to the labgit on chambers
- elongation monitoring – done
- check hobo loggers with the lights –done
- check hobo temperature loggers and replace the one that isn't working – done
- contact opens lab to trouble shoot the dendrometers

I noticed Mao didn't do phenomonitoring last Thursday (doy165). It's not a big deal since most plants are already at phenostage 3-4.

Britany came to meet me at 2pm to do the shoot elongation monitoring. We finished around 4, but we didn't fill in the trees with paper rulers.

Thursday, June 20, 2024

Christophe I started a R script to check the hobo light loggers. It took me quite some time. After, I met Britany again to finish shoot elongation logging in the excel. I also did phenomonitoring of Segi as it's the only species that has not fully leafed out.

I also finished the greenhouse arrangement with the light loggers that are now included in it.

In the afternoon, we had a nice lab meeting at the Botanical Garden.

Friday, June 21, 2024

Christophe I worked from home this morning. I did some emails. Then I went to Totem to maintain the plants and clean around a little.

I modified how the comments were entered in the shoot elongation file on doy164 (moved them back to the note column)

Monday, June 24, 2024

Christophe Started the day with a meeting with Roman. I took some notes on the chambers that I should add to the lab git. After, I finally started a document on the notes on the climate chambers maintenance and schedule creation.

- Start git issue on the tree inventory – done
- Change the schedule in the CC so they are at 20C and the lights were turned down.
- Email the maintenance guy for the biochambers for 2 things: clean the filters and tell him not to repair the copper pipes. – done
- Add notes to the labgit on chambers – done
- contact opens lab to trouble shoot the dendrometers

In the afternoon, I went back to Totem so I can install 6 more temperature loggers. Lizzie came to meet me at 2:30. We discussed the project, expectations for the summer and the egret retreat. To do list for tomorrow is the things I will need to get done soon.

Tuesday, June 25, 2024

Christophe I started the day with the creation of a new spreadsheet: miscellaneous which includes the different monitoring. Either if the apical shoot is dead, if there was chlorosis, mildew, etc.

After this, I started rearranging my repo because it started to be quite messy. I also created some notes on how to use the hobo loggers. Then I wrote a blog post for the trip at RBS.

- Check how much light difference there is between the loggers. Ideally, we would remove this factor from the models as it would complicate things a lot. I will talk with Fredi about this.
- Email the person Lizzie recommended on the Segi physiology

- make a note of chlorosis monitoring and the plants that got light damage in the spring (this might not be possible anymore) – done
- Change the schedule in the CC so they are at 20C and the lights were turned down.

In the afternoon, I got lots of things done: finalized the hobo loggers description, I reorganized my repo and I did some research on the bud set. Then I read 2 papers and made two permanent notes out of them. Lizzie stopped by and asked me to figure out which software, languages and others she could explain during the lab meeting.

Wednesday, June 26, 2024

Christophe+Mao Emailed Alana Chin. Lizzie recommended reaching out to her cause she might have information on growing sequoia. After I kept working on some notes that I started yesterday.

At 1 pm, I went to pick up Fredi at the airport. His flight was delayed so I returned to the office at 3 pm. Mao and I went to monitor the shoot elongation together. We didn't finish all the measurements as it was raining quite much. We'll get it done tomorrow morning.

I came back to the office and worked on the script for the light hobo loggers. I want to find out if there is a big difference between the light intensity between the different blocs.

I read two more papers. Took fleeting notes, but I have to make them permanent

Thursday, June 27, 2024

Christophe+Mao Mao and I finished the shoot elongation measurements this morning. I started around 9:45. I replied to Alana regarding the phenology of Segi and to Sally Otto for the biomathematics class in the fall.

I started taking the bayesian class Lizzie recommended. Then I worked again on my script for the light hobo loggers.

We had the training on wilderness at 1 pm.

Friday, June 28, 2024

Christophe Started the day with a meeting with Alana Chin to discuss how should I monitor better the Se **To do list for today**

- Install Stan on R
- Make sure to run the script Deirdre told me to run. 8 school tutorial
- Finish first class of the Stats class
- Finish organizing the repo: Objects, greenhouse design, ordering, equipments, in the note folder. Once methods are typed nicely, it goes in docs folder.
- contact opens lab to trouble shoot the dendrometers

in the afternoon, I met with Fredi for 2 hours to discuss many things I have yet to answer. All the notes are in my obsidian folder. I finished the day with some quick questions I asked Lizzie. One of them was in regards to using the tidyverse. She recommends not using it if

there is a way with base R because it's less future proof and running pieces of code by itself isn't good.

Then, we went to get icecream and beers.

July

Monday, July 1, 2024

Christophe This morning, I tried adding a table of contents to this dailylog. I don't know why it's so complicated, but I couldn't figure out a way to do it. I let that go.

Then I tried installing Stan on R, as Deirdre suggested. It didn't work either. I will ask her when she's back from vacation.

I worked for most of the afternoon on my script for the shoot elongation measurements. It doesn't look too bad! I needed a break, so I went to install hobo light loggers in the climate chambers so I can see how much light they are giving to the trees when they are in there. I also brought back the bepás that were in the lab to totem field.

at totem, I monitored bud set for prvi and took pictures of the acne. For prvi, I think they are far more advanced than I was expecting. Some of them seem to already be at complete dormancy. For acne, it's confusing. Mildew have impacted them a lot. They show very tiny leaves, but they have been there for a while now, so as Fredi told me, it might just be the upcoming scales that will cover the bud.

I removed the drippers from the Segi. I will put them back on Friday. After discussing with Fredi, we thought giving them a water break would be good.

I came back to the office to finish what I started.

I modified slightly Fredi's notes on budset so they keep going after 4 (5,6,7,0)

Tuesday, July 2, 2024

Christophe Lizzie, Mao and I talked about getting a power bank for the lab. Lizzie ordered it. It should arrive on Friday. Fredi and I discussed about literature reviews, how he does them and where I should start

Britany and I discussed the fertilization plan and we figured that there are no good amount we could add to the trees. We rather run in the problem of the studies used seedlings and not saplings. A lot of them were using % of N, P or K of leaf tissue and not actually of much mg were added to the plants. I also discussed this with Fredi. He suggested looking at the atmospheric deposition, but I argued that this is for a whole ecosystem and figuring out how much nutrients a sapling is actually getting would be hard and perhaps impossible. So I just decided to be consistent and add nutrients again this week. I'll do this just after we weed all the plants.

Wednesday, July 3, 2024

Christophe + Britany We started the shoot elongation measurements. As I won't be there next week, I showed Britany how to take the measurements. We didn't have time to log in the paper ruler measurements.

Dan delivered the organic spray bottles to keep killing the powdery mildew (some of the new shoots are getting it again). He also delivered the fertilizer. It's the same one as last time. I will fertilize the trees perhaps on Thursday

I asked him to reduce the watering of all trees to once a day, in the morning for 15 minutes, instead of 3x a day.

In the afternoon, I started a new cv file on latex
Deirdre and I talked about literature reviews

I finished my power point presentation for the lab meeting tomorrow on research tools. Deirdre and I tried to trouble shoot the installation of Stan on my computer. It still doesn't work. I'll try again maybe tomorrow – although I won't have time with the budset and other things

Thursday, July 4, 2024

Christophe+Britany+Ken+Selena+Justin Came in at 8 to check the egret coordinates. I checked the data, and then cleaned the entries I could. Then I went to Totem to meet Britany and figure out budset. She worked on this during the week, and we needed to figure out some other species. Acne is most likely ongoing budset, so we took photos of those. We did the same for the oaks and the pines. These two were tricky, because some of the oaks are doing a second flush, but some don't seem like they will. For the pines, I had no photos to base budset on, so we discussed what stages they could be. I'll talk to Fredi about that tomorrow.

At 1pm, Ken and Selena arrived to weed the plants. Justin arrived at 2:15pm and we finished at around 3. Britany and I finished taking photos of some good budset examples after I went to pick

Friday, July 5, 2024

Christophe Britany and I finished login in the data for shoot elongation and budset. Then I finished the document for budset, I still need to figure out pist.

I met with Lizzie in the afternoon to talk about literature reviews, who will take care of my experiment while I am gone. She asked me to ask Britany to meet with rob with ken and Justin.

Saturday, July 6, 2024

Christophe I came in to finish egret coordinates cleaning. I managed to fix almost all issues. Some remain.

I did the map for egret also

I went to totem to fertilize the trees for the second fertilization of the season. I used the same method as the first time. I diluted the fertilizer by half and added 125mL. Sprayed Acne for a second time.

Monday, July 8, 2024

Christophe Egret Retreat! We started the day with some break-out teams. I was with Fredi to try to figure out question 2. We came back 1 hour later and debriefed. In the afternoon, Lizzie showed me how I could proceed with the experiment design with a for loop.

Tuesday, July 9, 2024

Christophe Egret Retreat! I arrived late this morning. We worked for 2 hours before leaving for the ferry. On the ferry Lizzie helped me with some tasks I had.

Wednesday, July 10, 2024

Christophe Egret Retreat! We went to the pub for beers, onion rings and fried pickles. We went to the eastern point to see if we could spot whales but we couldn't find any...

Thursday, July 11, 2024

Christophe Egret Retreat! We finished around 4pm after a long discussion about authorship. I found this talk very insightful and got to address my concerns of me being a co-author. We worked for a little bit after and drove dan to the plane in the evening.

Friday, July 12, 2024

Christophe Egret Retreat! Last day of the retreat! Not the most productive on a coding basis, but we had a lot of fun! We did the 4hour hike Lizzie recommended. It was beautiful. The weather was great. We came back to the cabin, packed, cleaned the place and left. Lizzie bought us an early dinner at the pub right next to the ferry. The second ferry after we left Saturna was left so we had a chance to have Deirdre give us a small talk about phylogeny. In the ferry I worked on my code to clean coordinates. I thought I solved the issue, but I didn't. I came back home around 10pm.

Monday, July 15, 2024

Christophe I had a quick chat with Ken about the monitoring of shoot elongation and phenology in the following weeks. We walked to the lab after to start packing the gear for Smithers. We left at 12pm after saying bye to Lizzie.

The drive went pretty well. We saw a wild fire on our way up. We stayed at the camping Juniper Beach. Worst ever!! It was so warm (about 32o)

Tuesday, July 16, 2024

Christophe Smithers

Wednesday, July 17, 2024

Christophe Smithers

Thursday, July 18, 2024

Christophe Smithers

Friday, July 19, 2024

Christophe Smithers

Saturday, July 20, 2024

Christophe Smithers Went birding at Round Lake in the evening, since we came back early and it was the first day we were not exhausted.

Sunday, July 21, 2024

Christophe Smithers We hiked up, but on our way, we did soil moisture since it's been 48 hours for the last rain. We finished dendrometer measurements and seedling monitoring for plot 11 and 14. They had so much. We lost the toothpicks and anyway we wouldn't have enough. We replaced them with popsicle sticks instead. We saw an American Three Toed Woodpecker at plot 11!!! Since we finished early, we hiked up to the summit. Mao and Deirdre stayed just after plot 17. It was so beautiful! We went for beers at the local pub. Really smokey.

Monday, July 22, 2024

Christophe We did a small hike to Hudson Bay Mountain because I saw on eBird that a rock ptarmigan has been spotted. We finally saw one, but I still can't identify it...

Tuesday, July 23, 2024

Christophe

Wednesday, July 24, 2024

Christophe Came at Totem to take a look at the trees. I noticed the moldy of some leaves of Quma. I sprayed them and did a third spray of Acne.

Thursday, July 25, 2024

Christophe

Friday, July 26, 2024

Christophe Meeting with Rob Guy in the afternoon. All of my notes on this meeting are in my note file in Obsidian of Rob Guy

Monday, July 29, 2024

Christophe We left Vancouver at 7am. It's rainy and cold. I picked up the Subaru at Forestry and went to pick up Brittany, Mao and Justin at Dunbar Loop. The road went well! No traffic at the border. We did two stops, one at Trader Joe and one at Costco. Then, we headed to MORA to meet with Andy and his crew. He told us about the project for about an hour and we then had dinner with everyone. It was great!

Tuesday, July 30, 2024

Christophe First day of fieldwork with Andy! He showed us the job. He took a lot of time to explain things well to us, it was very interesting.

Wednesday, July 31, 2024

Christophe Second half of AV06. Everything went well beside the wasps.

August

Thursday, 1 August 2024

Last day of fieldwork with Andy. We finished AV06 and headed to another site that is a 40 minute walk away from the parking lot. We did 1/4 of it and left. On our way back, we saw a wasp nest that has been eaten recently by a bear. It's funny because Andy was just telling us about this.

Friday, 2 August 2024

We woke up, packed and said farewells to Andy and then headed to Paradise for our hike. We saw a bear cub near the parking lot! We were short on time, so we did it fast and had to cut halfway. We left for Seattle at 11:30. Before Justin took the train, we had bubble tea. He left around 6pm. Mao, Britany and I had amazing Korean food in Tacoma and stayed in a Mariott there.

Saturday, 3 August 2024

We woke up at the hotel and went to get some breakfast. Mao hated her drink which tasted like red bull. It was guava and passion fruit. I loved it! Then we went to get some car seats and gear for the field.

We picked up Avery in the afternoon and went to get ice cream. I had butter pecan and salted caramel.

We headed to Longmire.

Sunday, 4 August 2024

First day of Mao's fieldwork!. We woke up at Longmire campground and left for Nesquali House. We dropped our stuff there and headed to AV06.

Mao showed us how to install dendrometers and how to core trees. One problem we encountered was flattening the bark. I proposed getting a file. We then left early so we could go in town to buy a bunch of stuff. I cleaned the house when we got back because it was disgusting.

Monday, 5 August 2024

Second day of fieldwork. I work with Brittany. We managed to finish half of AV06

Tuesday, 6 August 2024

NA

Wednesday, 7 August 2024

NA

Thursday, 8 August 2024

I forgot my boots this morning and got stung twice by stepping on a wasp nest that was eaten by a bear. We finished the plot and left around 6. We hiked back up towards the falls.

Friday, 9 August 2024

Started the day with a meeting that Mao requested. Change of plan: I will be working alone for coring trees and Britany will be installing all the dendrometers. We drove to Longmire campground wifi spot. After hiking up to the trail and started the plot. We managed to finish 12 out of 16 plots.

We drove back to Nisqually House, got changed and drove to the nearest town to eat at a Mexican restaurant, called Puerto Vallarta. We also did the groceries. Mao and I had a talk in the night.

Saturday, 10 August 2024

We finished the stand near Longmire campground. Britany and I still had a bunch of dendrometers left to install when we finished coring the trees, so we helped Mao and Avery. We finished around 1pm, hiked down, had lunch and left for the Devil's Club plot. It beautiful but it sucks. Trees are enormous and it's mossy everywhere. However, the Devil's club sucks the life out of me (slight exaggeration).

The cores are hard to extract because the trees are so big, plus the Devil's club are usually in the way. I fell from a log, but didn't hurt my self that much.

We finished half of the plot and went home. We took half of the day off. Avery, Britany and Mao went to the beach. I didn't feel good so I stayed at the house and slept for most of the afternoon.

Sunday, 11 August 2024

Slow morning today. We left to go back at the Devil's club stand. It was terrible again. The THPL are probably the hardest trees I have cored so far. They are so big, it's hard to extract the cores.

Mao got stung 8x today. We finished around 2pm. I saw 3 whisky jacks.

Monday, 12 August 2024

Britany felt under the weather today, so she stayed home. We went to Sunrise Stand and parked at the Reflexion lake parking lot. We hiked for 15 minutes before realizing that we weren't at the right place.

Fortunately, the other plot wasn't far. It was full of yellow cedars which was very nice. Very steep thought.

Tuesday, 13 August 2024

Rainy and cold today. We realized it wouldn't be safe to work in these conditions. We drove back home.

Wednesday, 14 August 2024

We left again around 8:30 for AE10 and Paradise. It's cloudy and cold again for the second day in a row. We hiked all the way to paradise when we realized that it was very wet and slippery. We decided it wasn't safe to work so we hiked down and went back home. Avery, Britany and Mao went to core 6 new trees from the first plot we did because they weren't great when we first cored them. I took a nap and worked on my project. Mostly for the fall biochambers schedule and looked at the data Justin and Ken recorded. Lizzie and Jonathan came to meet me at the house. We discussed gps points and how the fieldwork was going. I made fritata for dinner.

Thursday, 15 August 2024

We left at 8:15. Cloudy and cold again. We went to meet Lizzie and Jonathan at Longmire campground at 8:30 and headed up to AE10. We forgot the box with all the data sheets which slowed us down a bit. We finished the plot around 10:30 and headed to Paradise. We hiked up and started the plot. On our way up, we tried to trouble shoot working in these plots when it's raining.

Friday, 16 August 2024

Going back to Vancouver! We left at 8:00, first stopped at UW to drop off the tree cores and dendrometers. Then we went to REI to buy hiking poles and bear box. We went to eat at the very cool Korean Restaurant Mao, Britany and I went when we stayed in Tacoma. After, I picked up my back-pack that I found on marketplace. No wait at the border. I dropped the car off around 10pm.

Monday, 19 August 2024

I went for an apartment visit this morning. I arrived there and the landlord told me he would increase the rent by 500\$. I declined it. I was really upset. Then I went back to UBC to pick up Avery, Britany and Mao. We left around 11am.

A lot of wait at the border (something like 2 hours). We at Chipotle on the road and arrived at UW around 4pm. We picked up the new vest, increment borers and left for MORA.

On our way, we stopped at Costco, Safeway and Home Depot. We arrived at the campsite at 9pm. We set up the tent and went to bed

Tuesday, 20 August 2024

First day of the second trip! Pretty cloudy and cold

We left for Paradise around 8:30. We hiked up and managed to do more than half of the plot in during the day. The spikes and poles work really well.

We forgot the foot of the tent at Longmire, so we had to drive back there. We arrived at the campground around 6, made dinner and went to bed quite early.

Wednesday, 21 August 2024

Cold and cloudy again. We left at 8:20, but we had to buy a stove for the backpacking trip we will be doing on Thursday. We bought a Coleman. We went back to the campground because Avery forgot his rainjacket and it started to rain. We drove to Paradise

I found another way yesterday to get to the stand faster. It's 12 minutes longer to drive to the pulloff, but it's like 100 meters away from the stand. So we saved a lot of time. However, Mao didn't like it because we damaged the plants.

Mao got stung twice by wasps.

We finished at 1:30pm, walked back to the car and drove up to Paradise for the hike. Since I had a lot of work to do and because I was tired, I didn't do the hike with them.

I went to gift shop. I bought a patch for Charlotte. It's not very nice. I also found an expensive JET boil. I bought it for the backpacking trip. I went to another gift shop. I found another patch that is nicer, but stupid expensive. I bought it and returned the other one.

The team came back. Mao got her first allergic reaction and she isn't feeling great. I was concerned and we discussed all night what we should do about that. I also contacted Lizzie so she knows what's up. I am happy about the sticker I found.

Thursday, 22 August 2024

Cloudy and cold this morning. Mao and Avery are going to town for an appointment with a doctor so we can get an epipen prescription. In the meantime, they dropped us off at TA01. It's so nice. Really easy to walk around and locate the trees. We managed to finish coring my trees around 1:30pm. While Britany and I were discussing what we should do next, we heard Avery scream. They came back from town with 2 epipens!

I helped them finishing their trees and we drove back to the campsite at 4:45pm. We went to the gift shop when we went to get wifi. I found a very beautiful limited edition patch for the 125th anniversary of Mount Rainier. I bought it and bought the same, but sticker version to stick it on the lab bear canister.

Mao and I made Chili for dinner. After, it started raining and Avery and I walked so we could go take a bath in the hot springs. No bath going on there. It's a swampy hot spring, so we took a quick dip in the very cold river.

It's raining a lot now as I write these lines. We went to bed at 9:12pm.

Friday, 23 August 2024

Very wet. We got up and ate breakfast standing because the picnic table is soaked. We left for site AB08 that was a 30-minute drive and 10 minute hike. I found an elk leg that was relatively fresh. We kept on going and found the site. I had the hemlocks that day. The first quarter of the stand sucked. In one plot I had to core 6 trees before finding one that wasn't rotten. It was probably a zone affected by root rot.

I only had time to finish one quarter before lunch. While eating, I prepped my straws better so I could be more efficient in the afternoon.

The second half of the day was better tree-wise. Only for the quality of the trees because it started raining a lot. It was hard to keep the straws dry. At some point during the day, Mao asked if we wanted to keep going. I really wanted to get that site done, because we knew that it would rain tomorrow. So we kept going.

We finished around 5:30. Mao cut her finger after corring their last cedar. Since it was still pooring rain, we decided to go eat out in packwood. We went to the local brewery first. I got some very nice nachos. A full size that I ate for myself. It was delicious. Then Mao really wanted fries, so we went to the saloon. We got fries and Mao got me a beer. We sat a table with a very nice couple from Texas. We got some interesting discussions about health care, school, how weird Texas is and why the lady was not vaccinated but the gentleman was.

Saturday, 24 August 2024

Very wet again. We left for AO03 quite late because we took some time to pref the old straws because their are more waterproof. The drive wasn't very long, probably around 20 minutes. However, the hike was about 40 minutes. Very beautiful and easy though. The stand was gorgeous; magnificent huge douglas firs and red cedars. We started the site and I got a tree core stuck in my borer on my second tree. I couldn't get it out until the end of the day. In the afternoon, I got stung by a wasp near the spot where we left our backpack. I finished my trees around 3pm and helped Mao and Avery to finish their trees and then Britany. Then I hurt my knew. We packed and hiked back towards the car.

On our way back, I got stung again by a wasp and then 5 minutes later, I got stung in 3 different places even though I never saw the wasp itself. It really hurt!.

We drove back to the campground, had leftover chili for dinner and went to the wifi spot. I replied to a bunch of emails and we went to bed. As I am writting these lines, Mao fell just fell on my mattress while getting in the tent. It also just started leaking, so that kinda sucks.

Sunday, 25 August 2024

Since we finished all of our stands in the last three days and because our reservation for the backcoutry campground isn't until Monday, we decided to go for a hike. Britany took the day off. I made pancakes for breakfast with the maple sirup I brought.

After asking the rangers advices, we aimed to do the Boroughs in the Sunrise area.

We hiked up for 2-3 hours. The clouds were covering MORA and I kept on searching for a ptarmigan, without seing one. However, a ranger first told us about the Mountain goats that were on the other side of the valley. It was really cool to see them. A first for me. Then we left for the first Burrough where we had lunch.

After, we reached the second Burrough and decided we won't have tehme to make it to the third opne. We found some pikahs and more mountain goats. We looped the train adn when the mountain was partially showing up, we arrived at a well established switch back and saw an American Marten. Another first for me! I was so excited.

We made our way back to the car and went to meet Britany. We made grilled cheese with tomato soup. We then went to our hotel, all took a well-deserved shower and went to sleep.

Monday, 26 August 2024

We woke up at the hotel this morning. We packed and left for Sunrise. We started hiking down to the campground. My bag was really heavy, therefore, we were really slow.

We got to the campground in the beginning of the afternoon and the weather was fantastic.

We got to see MORA really well! We left a lot of stuff there and went to to find the site. It was kinda hard to navigate in that site since we didn't have a stem map, but after maybe 30 minutes, we figured it out and started working.

Tuesday, 27 August 2024

Last day of fieldwork today. We tried to wake up at 5am to watch the sunrise on Rainier. However, it was raining and probably around 4C. I slept very bad and I was freezing even in my sleeping bag, so we decided to skip the early hike. I went back to sleep until 7am.

We made coffee on the ground and had oatmeal. It was so cold. Then, we left for the site and started coring. Nothing crazy happened and we we're pretty efficient, even though Mao has never been able to warm herself up.

We finished around 3:30 and went back to the campground to pack out tent that we left out to dry.

When we saw the campground from far, our tents weren't there. When we got closer, I noticed the Marmot tent in the bushes and Avery noticed my MSR in the lake... Pretty frustrating, but also funny. Even if it was very cold, Avery and I took a dip to go fish the tent out the lake. After shaking it a bit, we packed it up and hiked back up to the car.

On our way back, we saw a marmot, I surprised a bear that stumbled in rocks and ran away from me. We also saw a goat and right after that, it started hailing again.

We finally drove off Sunrise and went into town towards the saloon so we can get some well deserved junk food!

Wednesday, 28 August 2024

We packed up quickly this morning and left straight for UW to drop off the cores we have been collecting in the past days.

After, we headed towards Vancouver. Low traffic and little time at the border.

In the evening, I went to meet everyone at Fredi's goodbye party. It was nice seeing him one last time!

Thursday, 29 August 2024

This morning, I slept late because I was still very tired. I had to deal with my parking which is really complicated. I went to the office, helped Mao unpacking the car and met with Lizzie in the afternoon. We had the last lab meeting of the summer with some pancakes, mimosas and ice cream!

Friday, 30 August 2024

I had an appointment at the garage. While my car was getting fixed, I worked on egret, emails, dailylogs, fall treatment and other stuff. After, I went to Totem to look at the plants and went to the office after. We went for beers and pizza at Bevruginos later.

September

Sunday, 1 September 2024

I went to the campus in the morning to fix the biochambers. It took me a couple of hours. I had to fix the drains, clean the filters. It was a mess.

Monday, 2 September 2024

Had something to do downtown this morning. Then, I got an apartment visit and arrived on campus around 10:30 to meet with Fredi so we could discuss about the senescence monitoring and other stuff.

Then Mao and I met with Mark for an interview at 1pm.

I worked on the chambers again in the afternoon.

I worked on a figure Fredi and I discussed it could be good to have to visualize the warm fall treatment. I updated my futur daily logs and finished the one from August.

I emailed Patrick for the schedule of the fall treatment.

Tuesday, 3 September 2024

I arrived at the office around 9am. Since it's Imagine day, I didn't have the biomathematics class. I emailed a bunch of people and went to check how the bio-chambers repairs were going. It should be done by the end of the day. However, two of the lights won't be installed for my experiment. I met with Lizzie in the afternoon to talk about senescence monitoring, the frequency at which I should monitor this, etc.

I kept on doing some figures for my treatment schedule in the climate chambers.

Wednesday, 4 September 2024

Arrived at the office around 9:00 to interview Anoya. At 10:00 I went to fix the walk in chamber only to realize that there is no drain to evacuate the water. That will require me to remove the plants every two days from the chambers. Then I went to Totem to take pictures of the plants to monitor senescence. It took me 34 minutes to photograph 180 trees. I might not even ever use this data.

I met Teresa at 11:30 to talk about the agroforestry class. We talked for a bit and then walked to the class. I attended the class and I think it will be very cool and interesting!

After this, I went back to Totem to finish taking pictures of the plants and Mao joined me so we could start monitoring senescence. It took about 45 minutes/species and we had 5 species to monitor. We discussed what Fredi told me to do i.e. estimation of green leaf coverage and chlorophyll content. We both guessed the percentage by comparing to what 100 % green leaf coverage would look like. Then we measured the chlorophyll content by selecting 3 leaves randomly and taking one measurement.

We did 3 species and then start moving the plants to the climate chambers. We came back to the greenhouse, measured the 2 remaining species and Mao left as it was 7pm already.

I kept moving the plants, until it was too dark and my fingers were so tired, I could barely hold the pots. I stopped at 9pm.

Thursday, 5 September 2024

I started the day with Sally's class at 8am. I talked to her after the class so I could register to it. Then I went to Totem to finish moving my plants.

I started by performing the nutrient boost treatment. I added nutrients to all the CSCF_nitro that remained there. Then I added nutrients to the WSWF_nitro for pines that I didn't have time to move yesterday night. For I added 250mL of the solution that wasn't diluted (as opposed to what I added to the plants during summer. This means I added 4x of what they had during the summer.

Then I took an inventory of how many replicates were left from my segi. For this, I took some replicates from the nutrient boost treatment and will be further moved to the non-nutrient boost treatments further during the analysis. For now, I think it is better for them to retain their original name so I don't confuse things. The notes I took on this can be found in the following directory: /fuelinex/notes/miscellaneous/segireplication.md

I moved the pines and the Segi to the walk-in climate chamber and added nutrients to all the WSWF_nitro replicates that were already in there. So far the room arrangement are: CC1 : Acne. CC2: Prvi, CC3: Bepa, CC4: Poba, CC5 : Quma and the walk in : Pist and Segi. I came back to the office, uploaded the photos from the greenhouse, responded to some emails and then headed to my agroforestry class for the first tutorial of the semester.

Friday, 6 September 2024

Small day today! I went to check in on my plants and watered them. I started reading for biomath and agroforestry. I updated some notes for my experiment and read Patrick's email on the schedule for biochambers. He recommended I add far red light, but I decided that for consistency, I will only ramp the light and temperature better than for the spring treatment. I replied to a bunch of emails and wrote to Mark so we can start working next week.

I received the fan for the greenhouse.

Monday, 9 September 2024

Came in around 9:30 and started with a list of things I will need to get done this week.

I read chapter 1 for biomath and chapter 1, 2 and 3 for agroforestry. I finished assignment 1 for BIO301.

Just so I can help Mark with git, I redid the sandbox exercise.

I finished reading Piao and al 2016.

I emailed Mark to appoint him with the different tasks needed to be done.

Tuesday, 10 September 2024

Biomath class this morning. Even if I did all of my readings, I didn't understand anything. I went to the post office after to mail the extra gps I bought.

Then I attended the session for new grad students. 90% was boring and not useful.

I got some pizza, went to eat it at my desk, worked on my schedules and then attended the lab for BIO301. It was terrible. My team doesn't care and is completely lost. I went to Assad's office hours and he helped me a lot for the assignment.

I came back to the office, finished assignment 1

Wednesday, 11 September 2024

Mao and I started monitoring senescence at 8am. Mao left at 9:45am to attend her class. I kept going until 10:45 and then left for BRC to attend our bi-weekly egret meeting.

We discussed our issues. I updated everyone on the provenance issue and we figured there are two steps in this issue that we aren't sure what to do about. We finished around 11:30. I left for the office, quickly had lunch and left for pharmacy building to attend my agroforestry class.

I filled out my expenses.

I came back to the office, did my biomath readings and Mark came to join me at 2:15. We left for the greenhouse to finish senescence monitoring. I took about 40 minutes and we left for the climate chambers. He stayed until 5 and I finished by myself. We rotated the plants in their chambers, watered them and monitored senescence.

Schedule changed for the one of Sept 11. I left Forestry at 7pm.

Thursday, 12 September 2024

Biomath class this morning. Then Mao and I came back to the office. I scraped out the papers I will read for my literature review. I finished around 11am and started reading 2 papers that were not really relevant for my project, so I got through them quickly.

I installed Hobo connect on the lab computer.

I did bud set monitoring. I didn't do it last week since I didn't have time with the moving of the plants and everything.

Picked up the lab bike and put it in Lizzie's office

Attended agroforestry and left office at 5pm to go for volleyball.

Friday, 13 September 2024

Started at 10. Responded to Chet from OpensLab and to Dolph.

Spent most of the morning on making permanent the notes I took from the papers I read this week. Had lunch with Deirdre and other people

Finished updating my obsidian vault

Emailed Elise Bouchard for masting and maple and emailed Lizzie.

Went to BRC beers

Monday, 16 September 2024

Started at 10. Worked and updated my issues for egret until 2pm.

Then, made my readings for biomath.

Fixed problems with my repo and emailed a bunch of people.

Left at 5:30

Tuesday, 17 September 2024

Biomath at 8. Went to the office after. Practiced some math in the appendix. Attended my new TA class. Met with Sally A and the other TAs. Met with Sylvia and Jeff. Met with Jef so he could orient me with everything. Had lunch. Went to math lab. Finished the day

trying to finish the assignment. Updated the schedules. Emailed Sally O and Sally A and Lizzie.

Wednesday, 18 September 2024

Started at 8 for senescence monitoring with Mao. She left at 9:45. I went to an appointment. I came back and worked on senescence in the greenhouse until 12 and went to BRC seminar. I had icecream

Went to the climate chamber room, did senescence. Mark met me at 2pm. We finished at 5pm. I finished other stuff until 6:30. Fan was finally installed today.

Thursday, 19 September 2024

Left home around 6:30 to the airport. After security, I worked on the quiz questions and emailed them to Sally. Plane left on time.

When I arrived in Edmonton, I worked on the tree ID and managed to finish most of it.

Plane left on time again. From Edmonton to Montreal, I wrote emails to Lizzie, Mao and Mark, worked on my masters timeline and input the pheno data from yesterday that Mark collected in my note pad. I read 2 papers.

Friday, 20 September 2024

First day in Montreal! I read one paper, worked on BIO301, mostly for tree ID, responded to a few emails and finished my master's timeline. I spent roughly 4 hours on my math problems so I could catch up. It's really hard for me.

Monday, 23 September 2024

Did math all day today because I am lost. I emailed a bunch of people though.

Tuesday, 24 September 2024

Went to UQAM today and attended biomath class and forestry class. I emailed a bunch of people, but didn't have time to do much.

Wednesday, 25 September 2024

Worked on egret for 2-3 hours this morning. Then I did math.

Met with Elise Bouchard to discuss mast seeding events in sugar maple. Very interesting. A lot of new insights could be explored.

Egret meeting after this. I will be in charge of cleaning the treatment column.

Met with Sally Otto in the afternoon for help with my math problems.

Thursday, 26 September 2024

Finished my biomath homework and then attended the class. I read through the first lectures of Forestry and attended Frst303 class. Worked on egret in the afternoon and emailed people for the broken chlorophyll content meter. Changed the schedule in the chambers (late oups).

Friday, 27 September 2024

Went to the lab this morning. Had a quick meeting with Alain Paquette to ask him if he knows if we have some seed traps in Quebec. He gave me clues about pollen, but limited with id by genus...

I worked on my weekly quiz questions for 2h30.

I read one paper and wrote a lot of notes on it

Then I worked on egret for another 2 hours.

I met with Pierre and Julien to discuss what will happen with my woodpecker project.

Then input the voice message mao sent me in my spreadsheet. It's a bummer there is so much missing data from it and from the fact that the reader stopped working...

Monday, 30 September 2024

Only worked on my math assignment as I am moving today.

October

Tuesday, 1 October 2024

Biomath class in the morning. Came back to the office, replied to a bunch of emails and helped Mao empty the lab car.

I had my office hours followed by FRST303. Really interesting! It was on leaf colouring. We then had our teaching meeting and discussed the midterm.

Worked on my math assignment and then went to BIO301 lab. I went to Assad's office hours after this.

Left at 5pm to clean the car and fill it up.

Wednesday, 2 October 2024

IMPORTANT: CHANGE OF CHLOROPHYLL METER TODAY TO SPAD 502 since the one we had died. Came in at 9. Worked on my math assignment. It's a mess and I don't get anything. I went to pick up the SPAD from Rieserberg's lab. Then, I went to monitor the trees at Totem. It took me about 2 hours.

I attended Sally's office hours to for help with the assignment.

Went to monitor senescence with Mark in the climate chambers. Watered the plants and rotated all of them.

Finished the day with budset monitoring in the greenhouse.

Thursday, 3 October 2024

Bio math class. Sally gave me the opportunity to redo the assignment now that I knew how to do it. So I did it before attending my FRST303 class. Very cool today! We talked about budset and dormancy. Sally A asked if I could give a quick presentation of what I do with my trees and leaf senescence. It was nice. Some students seemed interested!

I left earlier to have lunch with Britany, Mao and Justin.

I came back to the office, worked on some stuff and left for the tree walk with Sally. It was so fun. It was cool to finally see some students. I walked back to forestry and finished the day with questions for first 303. It took me roughly 3 hours.

Friday, 4 October 2024

Rainy and cold today. I arrived at 9:30. I worked on some miscellaneous stuff until 10 when I met with Adam and Mao to discuss the tree ring imaging device. After this, I worked on my literature review. I don't know why but I felt really tired today.

I backed up hobo devices in the greenhouse and installed one in the climate chambers to check light intensity.

Monday, 7 October 2024

Started the day with organizing my week. I finished some miscellaneous tasks left over from the previous week. I also read a little about SPAD.

Did math from 10 to 1pm.

Prepared meeting with Lizzie

Had meeting with Lizzie Worked on lit review. Only had time to read 1 paper. I left at 6pm.

Tuesday, 8 October 2024

Math class this morning. Followed by my office hours, class then TA meeting. Worked on math, then went to the lab. Came back to the office and work on math assignment.

Wednesday, 9 October 2024

Started at 8:30 with senescence monitoring. Left at 10:30 for egret meeting. Didn't finish the trees outside. Attended cookies+brc seminar. Came back, did math and senescence with mark. Finished at 4pm. Did math. Went to greenhouse and started raining so that sucked. Came back to the office and finished math assignment. Left the office at 7:30. Worked until 10:30 on emails, access to room 1802, master's timeline and other stuff.

Thursday, 10 October 2024

Biomath followed by finishing to collect budset as it was raining yesterday. I logged in the chl measurements I recorded yesterday on voice memo. Attended frst303. Did my exam questions and worked on my math recap for the midterm all afternoon. At 5, I read a paper. Left the office at 6:30.

Friday, 11 October 2024

Saturday, 12 October 2024

Sunday, 13 October 2024

Did math all day.

Monday, 14 October 2024

Did math all day with Mao.

Tuesday, 15 October 2024

biomath class. Came back to the office, worked on exam questions for 2 hours. Worked on it when Sally was giving review class. After TA meeting, I left for sally's office hour, then went to the lab and came back to the office to prepare for meeting with Lizzie. We decided to ramp temperature down in the chambers

Wednesday, 16 October 2024

Came in at 8 for senescence monitoring with Mark. We finished at 9:20. I came back to the office to do math until 12:30 when I met for Sally's office hour. Left to finish senescence monitoring with mark. Changed warm fall treatment schedule to 15C at max and 9 for min.

Thursday, 17 October 2024

Started with Math exam. Went terribly. Came back to the office, replied to emails and worked on a gaant chart for my timeline. Had lunch, then left to pick up the sander with the Xterra. Went to Totem to pick up apple and garlic from Dan and some trees for the dendrometers. Came back to the office and worked on litterature review.

Friday, 18 October 2024

Came in at 10. Worked on litterature review until afternoon. Chatted with Lizzie and worked on cookie organization. Also talked with Adam regarding this. Installed a bunch of sensors on alders in the lab and asked Mark to keep going. Went to BRC beers.

Saturday, 19 October 2024

Sunday, 20 October 2024

Changed schedule to ramp down to ambient current condition. I didn't change the photoperiod, as I have been changing it weekly since always. Therefore, I will only change the photoperiod on Wednesday. Temperature is now set at 13 and 8

Monday, 21 October 2024

Came in at 9am. Worked on litterature review all day. Went to get a microscope for Mao. Met with Lizzie in the afternoon. Watered trees. Left at 5:30pm.

Tuesday, 22 October 2024

Biomath class. Worked on cleaning coordinates for 2 hours. Had a long TA meeting. At 3, I started sanding the cookies until 6pm.

Wednesday, 23 October 2024

Came in at 9 to monitor senescence in the greenhouse. Not much left to do! Almost all species have lost their leaves. Left the greenhouse after monitoring budget to join Lizzie for egret meeting. We finished at 11:15 and then chatted about worklearn. Then we went for cookies, then the seminar. I came back to the office and went downstairs to start monitoring the trees. Mark joined at 2 pm. We moved 4 species: Acne, Bepa, Prvi and Quma, because the individuals at Totem have almost all senesced. The only species remaining in the chambers are Pist, Segi and Poba. I left them in there because they are likely still physiologically active and don't want to rush them by taking them away too fast. I kept ramping down the temperature to outside conditions. I plugged back the irrigation in the trees and left Totem at 6:30pm.

Thursday, 24 October 2024

Biomath, then figured out a way to get another worklearn. Came back to the office for FRST303. I worked on fixing the student's grades. Went to send Charlotte's birthday card

and helped Mao putting away the erlenmeyers away from our locker. Went to 1802 from 4pm to 7:30 to sand cookies. Brought some back to the lab so I can start digitizing them tomorrow.

Friday, 25 October 2024

Came in at 9am today. Started with email replies. Then I read 3 papers.

I worked on getting TINA working for the first time. Talked with Adam and he said he would like me to get it started without him so the operation manual is well written. I tried one cookie and it stopped stitching halfway through.

I finished around 2pm and moved on to other tasks.

I wrote exam questions for lecture 14. I accept TA for Suzanne S next semester. I posted an announcement on FRST303 and asked Athena McKown to post it on her class regarding our worklearn position. I worked again on my ISP because Ivy Fung still is requesting stuff. I added it to the labgitshadow.

Created a read me for phenomonitoring, I should also add one to other folders that don't have one.

Posted cookie project on Tumblr

Left at 6:30pm.

Saturday, 26 October 2024

Finished fixing marking FRST303. Edited email template from Lizzie and started looking at how people collect biomass.

Monday, 28 October 2024

Came in at 9. Worked in lit review. Got to read 3 papers and a half!

Then I met with Mao at 1:30 to discuss hiring of new students. I emailed the candidacies that were interesting.

I prepared my meeting with Rob, then met with him. We talked about how we'll add nutrients next summer. We also discussed comitee meeting and Lisa's science fair project.

Sanded cookies until 7 and started scans at 7:30pm.

Tuesday, 29 October 2024

Biomath. Came back to the office to work on some miscellenaous tasks. Attended my office hours. Went to see Sylvia for her project. After FRST303, I started another cookie. I messed up the names from 2 BETALL see my pictures yesterday.

Worked and did readings on my math. Had a meeting with Rob and Lisa until 5. Went to see the cookie I started at 11 and it's still not done. I won't be able to start another one then. Left at 6pm.

Wednesday, 30 October 2024

Senescence monitoring this morning. It was raining so I had to record myself for Bepa and Poba. Few trees of all species except Pobas have leaves remaining on them. Then I attended

BRC conference. It wasn't great. I went to the chambers, measured senescence for Pobas. Then I started moving the trees alone while Mark was working on the dendrometers. It took me 2-3 hours. I didn't have time to place them back in their spot because I had to leave for Burnaby with the Xterra to check out pots. Good thing I did this because I chose the 3-gal instead of the 5-gal. I took a picture of the segis nitro that i am switching to not nitro

Thursday, 31 October 2024

biomath class. FRST303, worked on my math for most of the afternoon. I met Lisa at totem so she could get some soil and stuff. Started 3 cookies and left at 6.

November

Friday, 1 November 2024

Came in at 9. Worked on my lit review until 12. I had to meet Adam to discuss bugs about Tina. Kept working on lit review until we interviewed Randiv. It went fine. Then I met with Deirdre to figure out my bib tex. Kept working on my lit review until 5. Then I worked on the dendrometers and started cookies. Left at 7:30.

Saturday, 2 November 2024

Did math most of the afternoon

Sunday, 3 November 2024

Got my bib file working.

Monday, 4 November 2024

Came in at 9am. Read papers and finished the highly cited subset I made for myself in September! Now I will move on to Lizzie's greatest hits.

I scanned 3 cookies today. Tina is going great! It scanned 4 big cookies over the weekend, and the stitching now takes a fraction of the time as it did before.

I worked on my math homework for a good part of the afternoon

Finished reviewing my NSERC proposal and sent it to Lizzie

Met with Natasha regarding Lisa's project.

Met with Ailene for coring trees at the Arboretum

Interviewed Yijia

Finished going through treespotters tree IDs and sent it to Lizzie

Started a few cookies and left at 6:30pm.

Tuesday, 5 November 2024

Wednesday, 6 November 2024

Felt depressed this morning as Trump won. I went to monitor senescence and budset for the trees that are now all at totem. It took me a little more than 2 hours. Met for egret. Came back to the office, worked on the math assignment and attended Sally's office hours at 1. Worked on the math assignment all afternoon. Left at 4:30.

Thursday, 7 November 2024

Biomath this morning. Came back to the office, filled in gaps I missed in the class and then worked on the tree cookies with adam to fix some bugs tina has. I cleaned the lab with Mao.

Friday, 8 November 2024

Lit review this morning. Set up 7 cookies. Left for eco evo

Saturday, 9 November 2024

EcoEvo

Sunday, 10 November 2024

EcoEvo and set up 6 cookies

Monday, 11 November 2024

took the day off, I was too tired.

Tuesday, 12 November 2024

Came in at 9 for lit review until 2pm. Worked on CGS-M until 5:40 and went to see Anora.

Wednesday, 13 November 2024

Came in a 9 for pheno monitoring of trees at totem. Few individuals left to measure. Came back and worked on math assignment until 2pm. Mis tasks in the afternoon including treespotters proposal and final edits on summary CGSM.

Thursday, 14 November 2024

Biomath. Came back to the office worked on my FRST303 questions and watched last week's lecture. Attended the class and after reviewed Sally's quiz questions. In the afternoon I worked almost exclusively on the tree cookies and analyzed their rings. I had bugs. The samsung SSD got corrupted which slowed down my progress a lot. I had to transfer 400go of files onto the SanDisk SSD which took 3 hours. Started 7 cookies in the evening, one of them didn't work. I switched the dendrometers and started a new batch which took 1 hour and a half.

Friday, 15 November 2024

Came in at 9. Watered Lisa's plants and started 1 big cookie. I prepared for my meeting with Neil Pederson. We met for 40 minutes. It was great! We will meet again next Friday to discuss the progress. Then I read and took notes on 4 papers.

Emailed Sally O for project ideas for Biomath301.

Worked on summary for CGS-M, transcrip, and others. It should be good to go

Emailed Lizzie for recap of the week

Worked on dendrometer troubleshooting. I am so sick of this.

Started 10 cookies for the weekend.

Left at 8pm

Saturday, 16 November 2024

Sunday, 17 November 2024

Worked on cookies

Monday, 18 November 2024

Came in at 9. Read 4 papers in the morning. Finish proposal for the arboretum permit and sent to Lizzie. Did biomath quiz. Worked on egret in the afternoon for 2 hours. Scanned the last cookies. Left at 4pm for Jon's plants. Replied to a bunch of emails in the evening.

Tuesday, 19 November 2024

Biomath class this morning. Worked on timeline, finished it. Office hour and frst 303 after. TA meeting. Updated timeline descriptive. Went for biomath lab. Came back and worked on questions frst 303. Finish with dendrometer troubleshooting and left at 7pm.

Wednesday, 20 November 2024

Came in at 9. Finished budset monitoring! I measured senescence for Poba i.e. the only species remaining that still has leaves. Came back to the office, attended egret meeting. Worked on the math assignment, met with Sally to discuss the project. Worked on forestry exam questions and on dendrometers. Left at 7pm.

Thursday, 21 November 2024

Biomath class this morning. Came back for forestry class. Worked on exam questions and then on tree cookies for the whole afternoon. Adam and I realized there were important issues with the stitching process which is going to slow me down a lot. I prepared the meeting with Neil and then worked on dendrometers. Left at 8pm

Friday, 22 November 2024

Came in at 9. Met with Neil at 9:30 for 45 minutes. He was really helpful again. Then I read 3 papers. I added my last expense to the drive. I emailed Lizzie so we could meet to talk about DPI. I won't be able to work on the cookies until that issue is resolved. It is the core of the analysis and if I can't get it right, there is no point of going further. Met with teaching team in the afternoon to work on tree ID questions. I finished miscellaneous tasks and went to Brevaginos. Came back to the lab, finished troubleshooting the dendrometers and cleaned my bench. Watered Lisa's trees. Left at 8pm.

Sunday, 24 November 2024

Worked on tree ID quiz for 3 hours.

Monday, 25 November 2024

Read 4 papers in the morning. Then I spent most afternoon working on the tree ID exam tomorrow. Left at 6:30

Tuesday, 26 November 2024

Came in at 10. Office hour, then worked on tree ID exam. Attended biomath lab and worked on my model with Asad in the afternoon. Came back to the office and finished edits for treespotters proposal.

Wednesday, 27 November 2024

Came in at 9. Worked on CGSM all morning verifying that everything is fine. Then I had lunch with teaching team. Went to monitor the trees at Totem. Came back to the office and worked on the math assignment all afternoon.

Thursday, 28 November 2024

Friday, 29 November 2024

Saturday, 30 November 2024

December

Sunday, 1 December 2024

Monday, 2 December 2024

Tuesday, 3 December 2024

Wednesday, 4 December 2024

Thursday, 5 December 2024

Friday, 6 December 2024

Saturday, 7 December 2024

Sunday, 8 December 2024

Monday, 9 December 2024

Tuesday, 10 December 2024

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Monday, 23 December 2024

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Wednesday, 25 December 2024

Thursday, 26 December 2024

Friday, 27 December 2024

31 December 2024

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