Raspberry Pi Cirrig Maintenance Guide

Username: pi
Password: C!rr!gP!

Note: Below, I use the convention
> command
to represent a command that should be typed at a terminal prompt. Do not actually type the > as that just represents the prompt so based on the above, you would open a terminal and type the word command and hit enter.

- Opening an ssh tunnel to allow for remote logins:
  > ssh -Y -R 56020:localhost:22 saunders@bmptoolbox.org
- First remedy in case anything goes wrong: simply reboot the pi. Everything is configured to start on startup so if anything goes wrong with the weather station, the samba server, etc, the easiest thing is to just reboot.
- Starting BMPJEC GUI
  > tcsh
  > ufbmpjec
- Weather station debugging – if the weather station gets into a weird state where its not logging, you can try several things. Rebooting both it and the pi are recommended as a first attempt.
  - You can also try:
    > sudo service weewx restart
    which will restart the weewx open-source weather station logger.
  - You can always check the status with:
    > sudo service weewx status
    If its working, the message should have the status as running and should list "manager: added record" at the most recent 5 minute interval:
    pi@pi-uf:~ $ sudo service weewx status
    ● weewx.service - LSB: weewx weather system
     Loaded: loaded (/etc/init.d/weewx)
     Active: active (running) since Fri 2018-06-08 15:12:17 EDT; 1 months 16 days ago
     Process: 1612 ExecStart=/etc/init.d/weewx start (code=exited, status=0/SUCCESS)
     CGroup: /system.slice/weewx.service
      └─1638 python /usr/bin/weewxd --daemon –pidfile=/var/run/weewx.pi…

    Jul 26 00:25:16 pi-uf weewx[1638]: manager: added record 2018-07-26 00:25:0...b'
    Jul 26 00:25:16 pi-uf weewx[1638]: manager: added record 2018-07-26 00:25:0...b'
  - If it is running but you don't see any messages about adding records, its possible there's a clock discrepancy between the weather station unit and the weewx software. In this case, you want to dump all the memory of the weather station and then clear it and everything should then restart normally.
    > sudo service weewx stop
    > sudo wee_device –dump
    > sudo wee_device –clear
    > sudo service weewx start
- Samba debugging – again, the easiest thing to do is to reboot. But you can check the status with:

> /etc/init.d/smbd status
And restart samba with
> /etc/init.d/smbd restart

- If for any reason the newline formatting is messed up:
  > unix2dos file.csv
- If for any reason you need to restart the agents, again the easiest way is to just reboot the pi and they'll restart but you can also
  > tcsh
  > ufbmpstop -a
  This will stop all currently running agents and they will automatically restart within a minute.