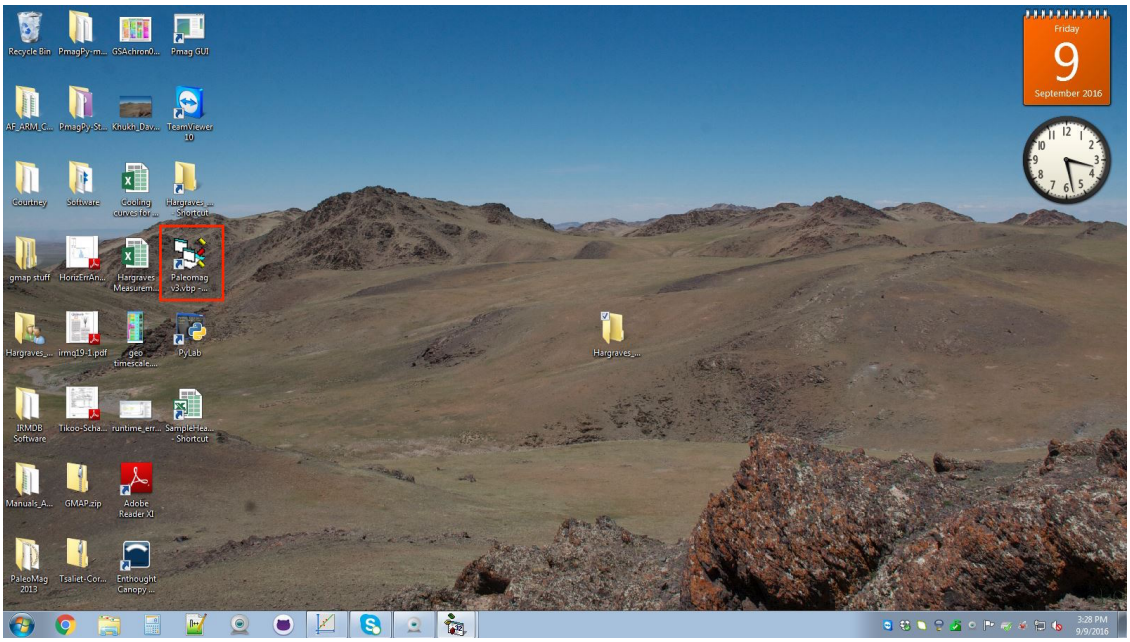
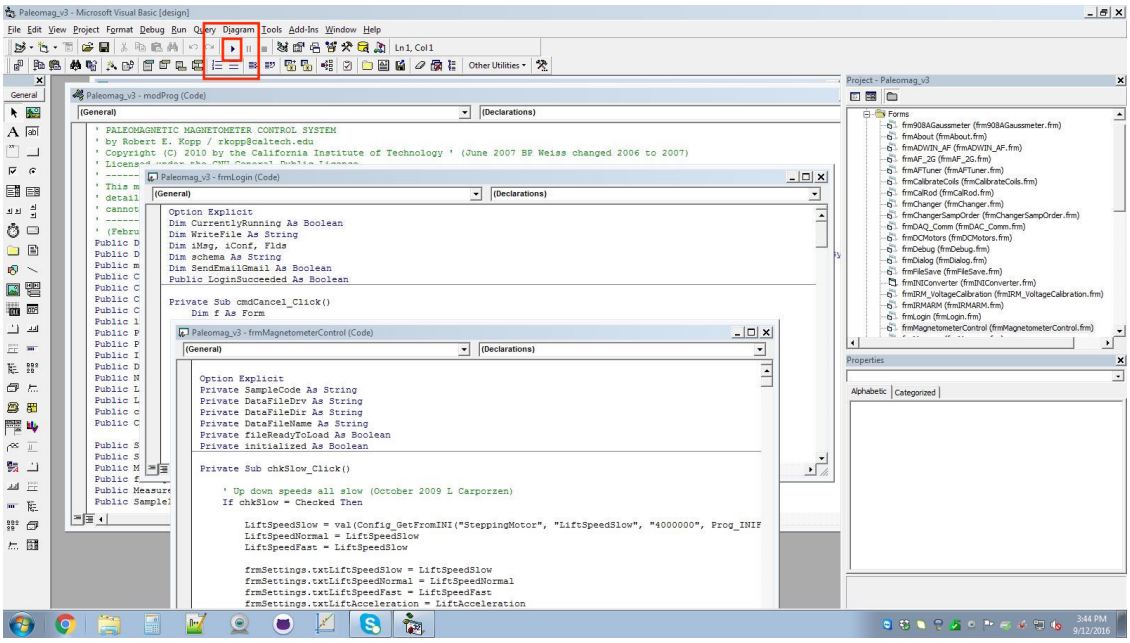
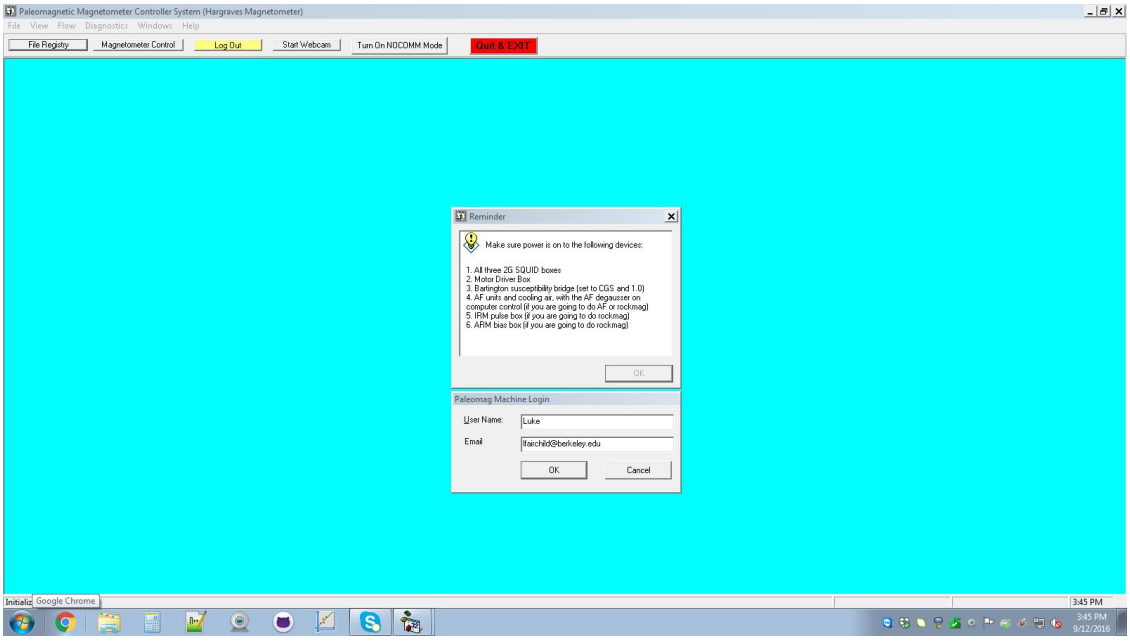
Step 1. Open the Visual Basic program (double click the circled icon on the desktop).



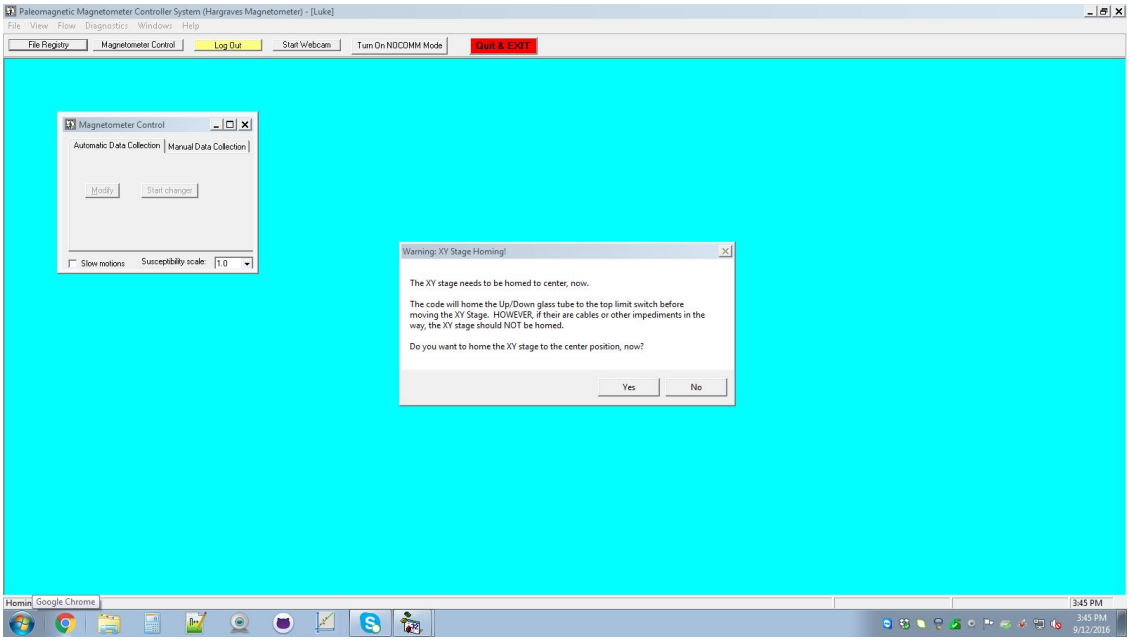
Step 2. Press the play icon to open the program interface.



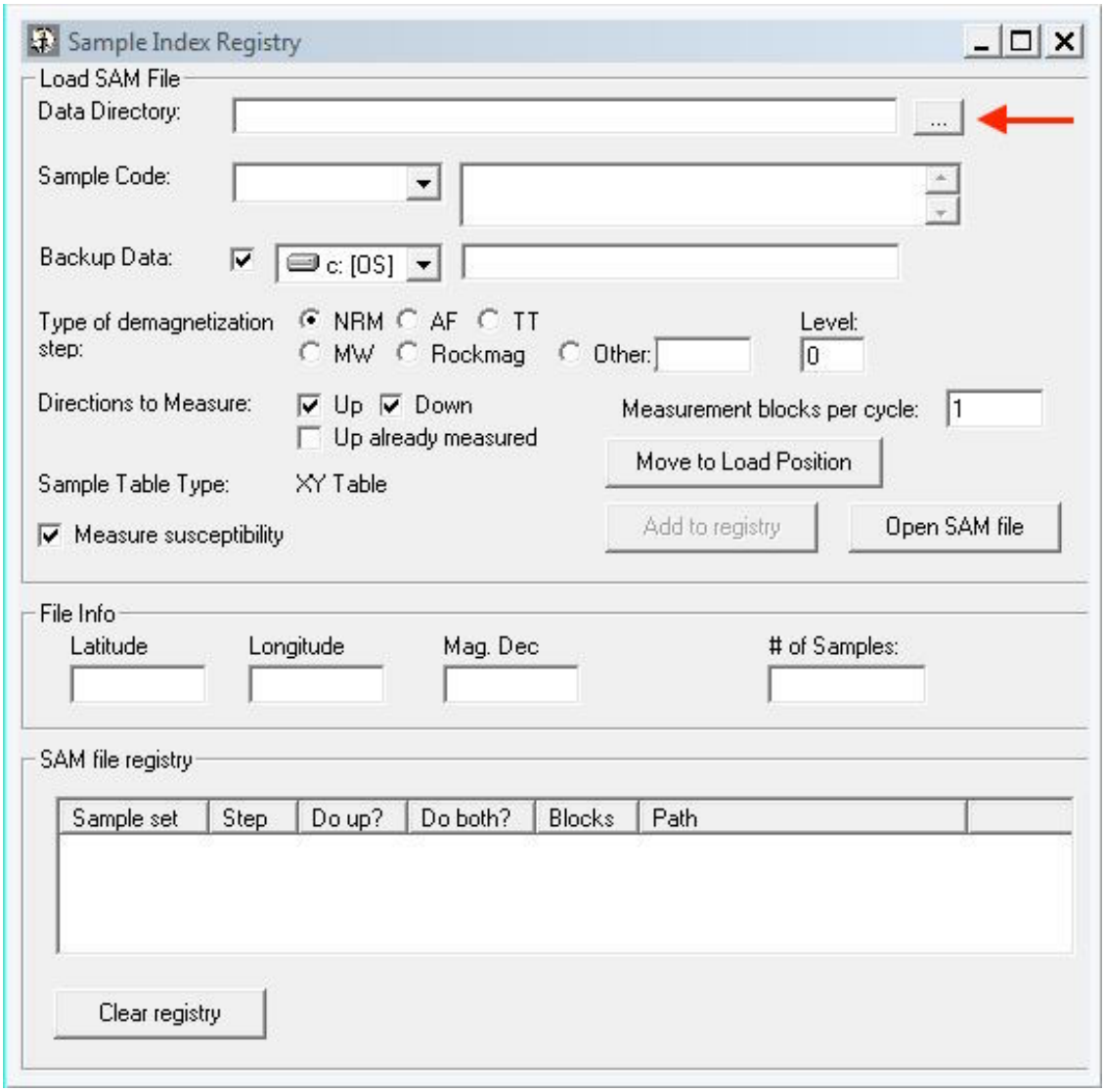
Step 3. Sign in with your name and email.



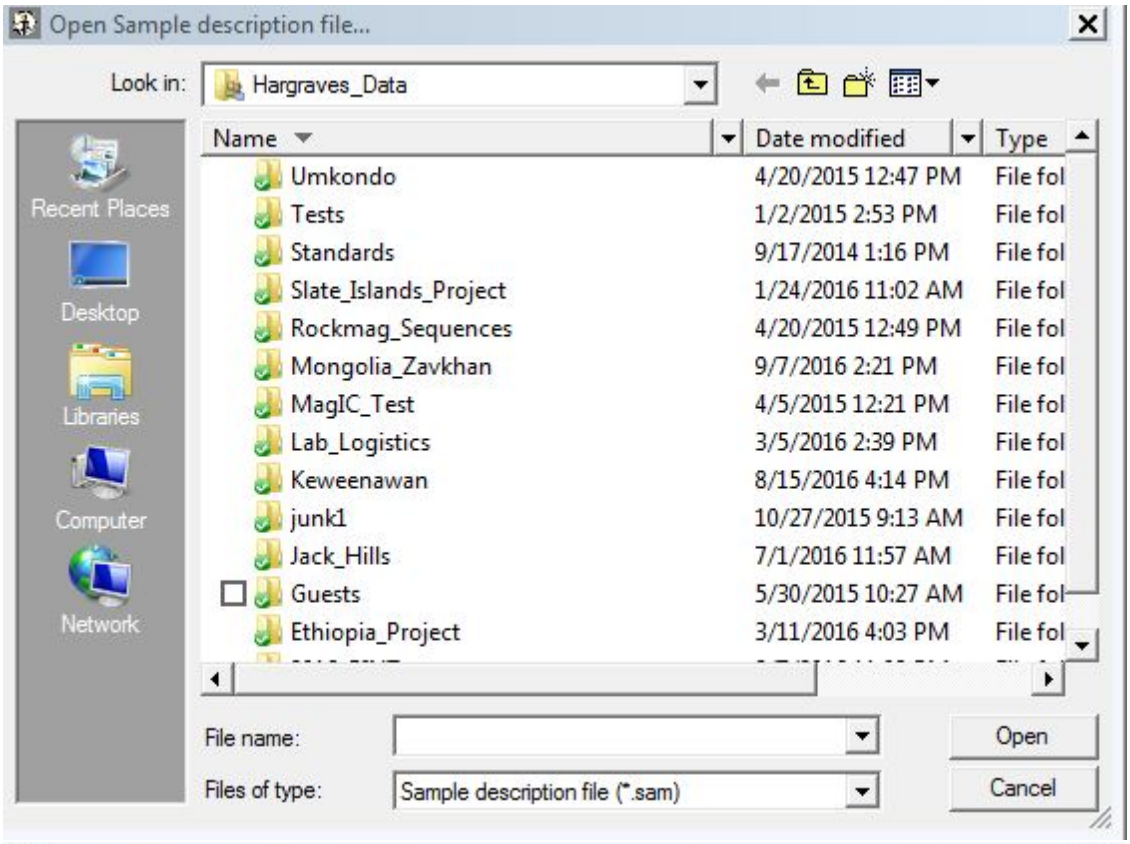
Step 4. The program will ask to home the XY stage to center—you can either choose to do this now (if your samples are already loaded on the tray) or click "No" to do it later.

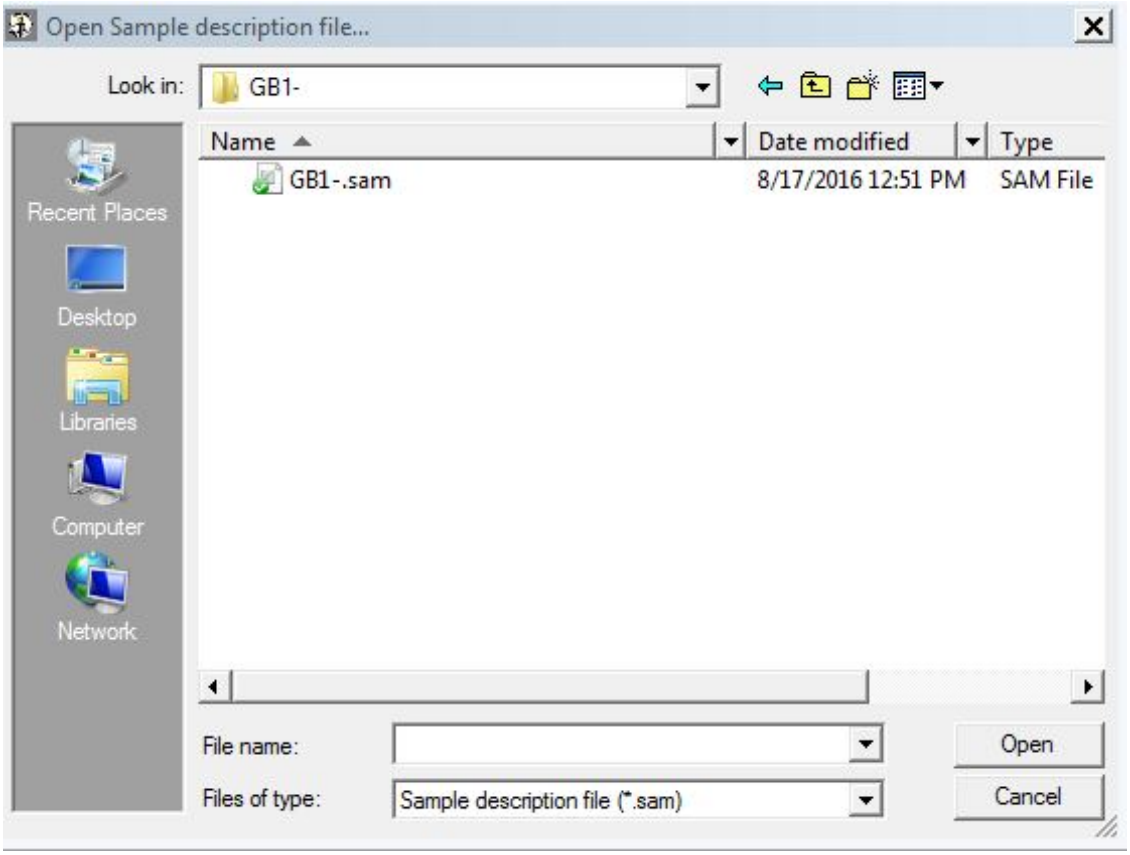


Step 5. The `Sample Index Registry` window (see below) should open automatically. Click the button marked by the arrow to begin loading your data files into the registry.



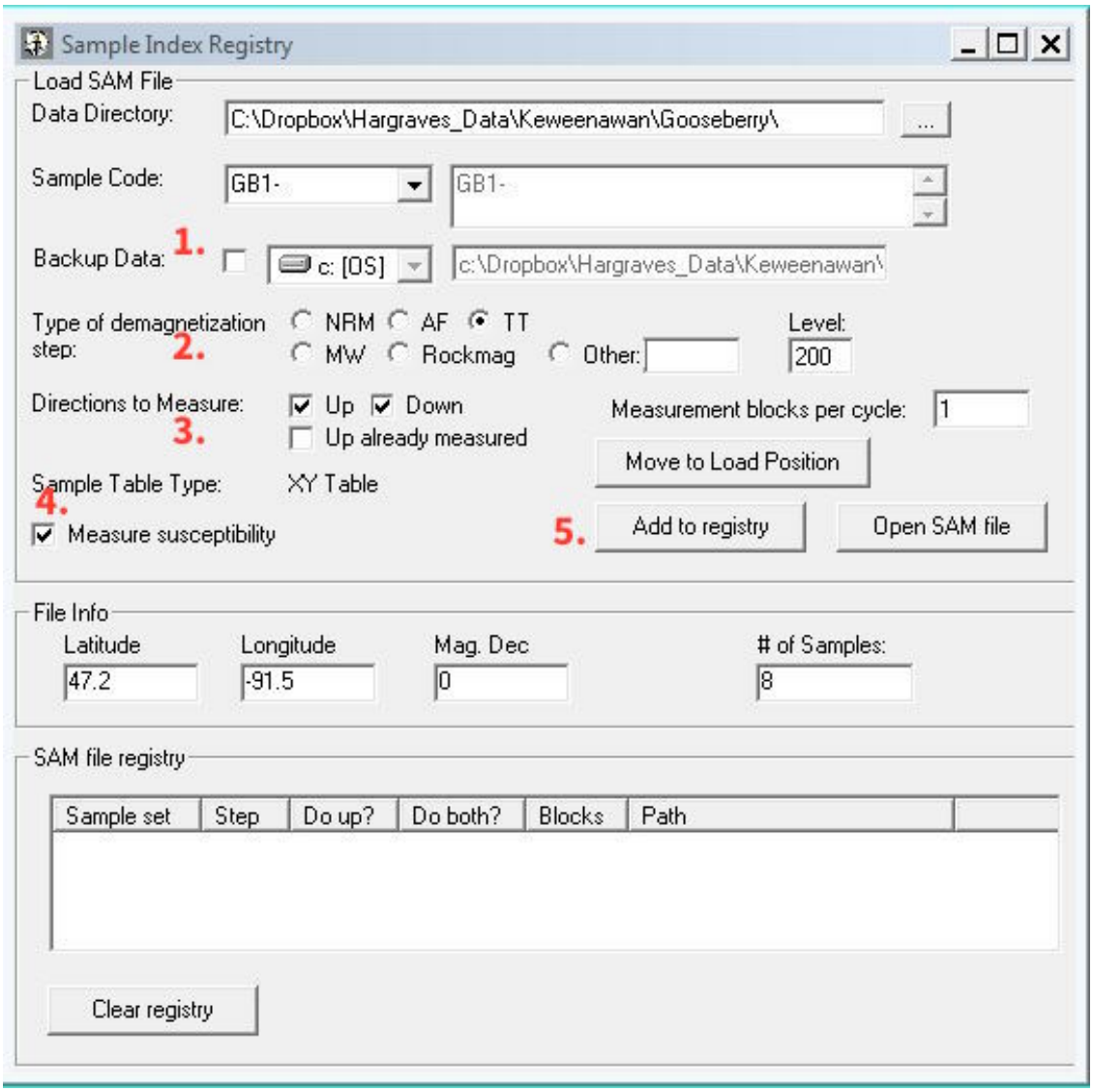
Step 6. In the Hargraves_Data Dropbox folder, find the SAM file of the first site you want to load.



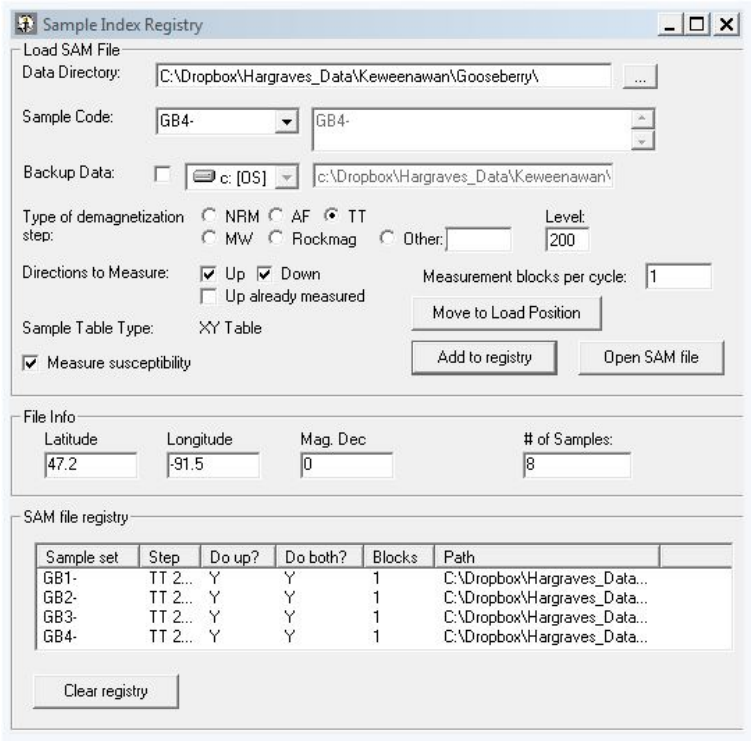


Step 7.

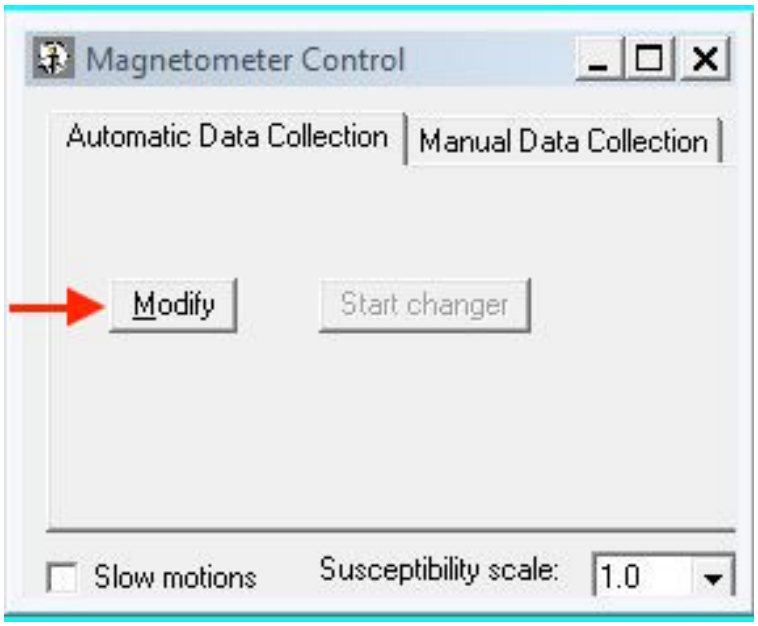
1. Uncheck “Backup Data”.
2. Specify the treatment step of the samples you are measuring. In the example below, samples have been thermally demagnetized (“TT”) to 200 °C.
3. Specify the orientations of samples you wish to measure. Both “Up” and “Down” should be measured when possible. If “Up” directions were measured previously and you are only measuring “Down”, uncheck “Up” and check “Up already measured”.
4. Specify whether you want to measure susceptibility.
5. Add the site to the registry.



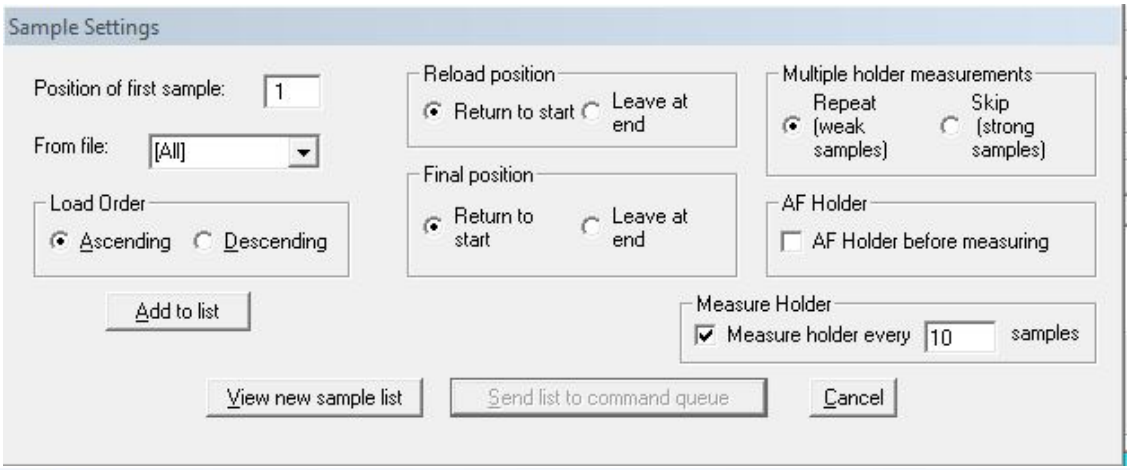
Step 8. Repeat step 7 for all sites and fill the registry.

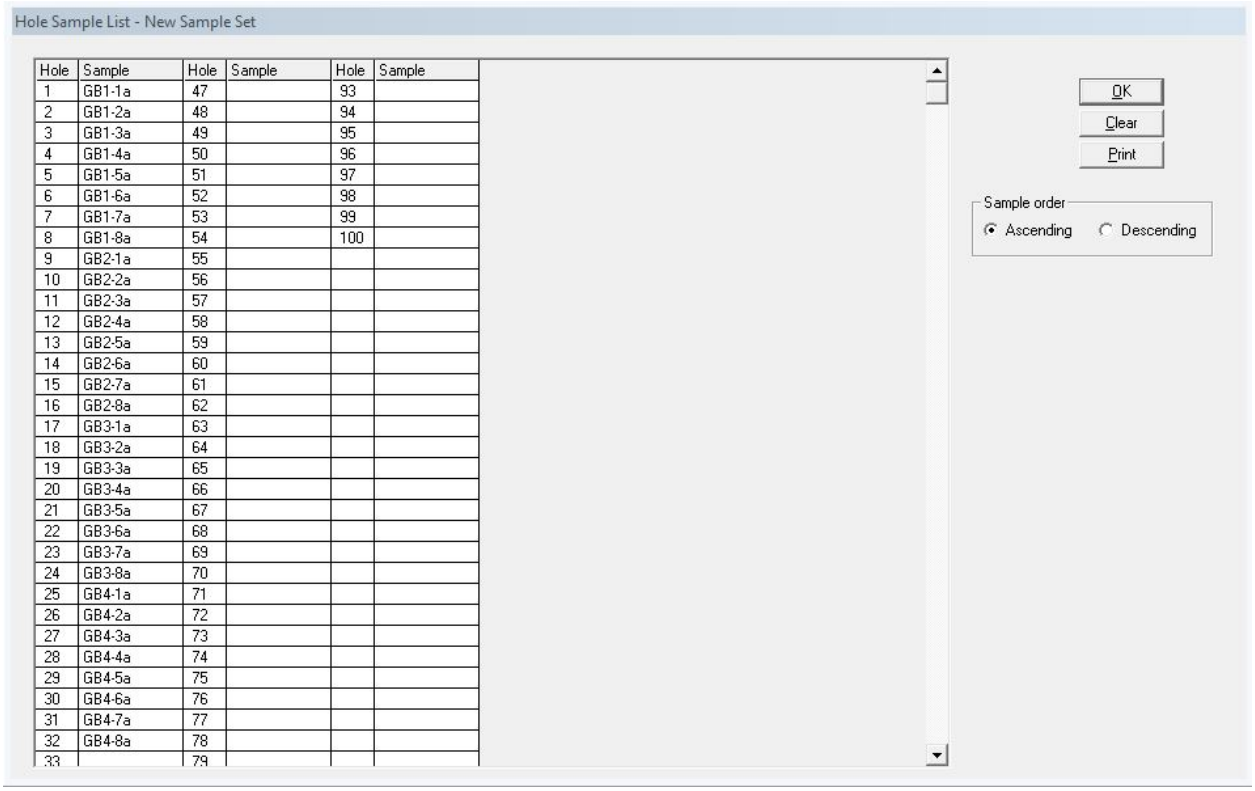


Step 9. In the `Magnetometer Control` window, click "Modify".



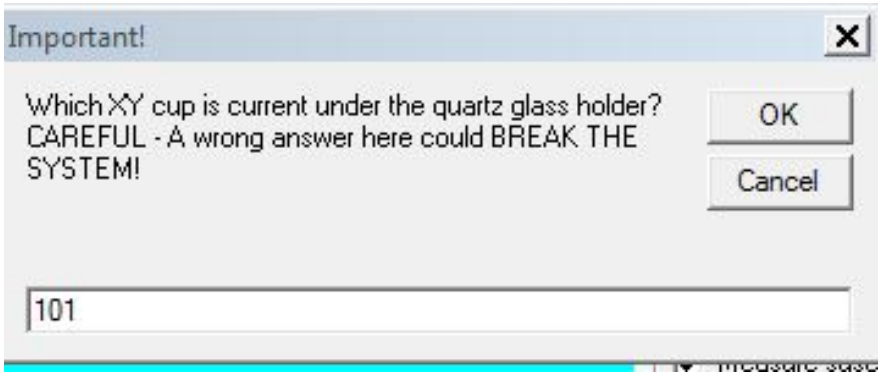
Step 10. Specify the position (hole number) of the first sample. Click "Add to list". This will assign positions on the tray for all the samples in the registry in the order that they were loaded (starting from the initial position). Click "View new sample list" and check that the positions of the samples on the tray are correct.





Hole	Sample	Hole	Sample	Hole	Sample
1	GB1-1a	47		93	
2	GB1-2a	48		94	
3	GB1-3a	49		95	
4	GB1-4a	50		96	
5	GB1-5a	51		97	
6	GB1-6a	52		98	
7	GB1-7a	53		99	
8	GB1-8a	54		100	
9	GB2-1a	55			
10	GB2-2a	56			
11	GB2-3a	57			
12	GB2-4a	58			
13	GB2-5a	59			
14	GB2-6a	60			
15	GB2-7a	61			
16	GB2-8a	62			
17	GB3-1a	63			
18	GB3-2a	64			
19	GB3-3a	65			
20	GB3-4a	66			
21	GB3-5a	67			
22	GB3-6a	68			
23	GB3-7a	69			
24	GB3-8a	70			
25	GB4-1a	71			
26	GB4-2a	72			
27	GB4-3a	73			
28	GB4-4a	74			
29	GB4-5a	75			
30	GB4-6a	76			
31	GB4-7a	77			
32	GB4-8a	78			
33		79			

Step 11. If you chose not to home the XY stage in Step 4, the system will ask you to do this now. If you have started the program from scratch (i.e. you did not simply log off a different user and log back in), the system will confirm the position of the glass holder once the XY stage homes to center. Check to make sure the glass holder is positioned over the hole in the tray (cup number 46). If it is, enter 46 and click Okay. If it isn't, something is wrong.



Step 11. Click "Start changer" to begin your measurements!