

Final Conclusion

My data is inconclusive

I'd need months of data being logged 24/7

My data logging period only lasted end of Fall 2008

The reports are only accurate to the location the data was taken

You may think the reports aren't accurate because of your location vs. the tracking location being far apart

My core question was "How accurate are the weather reports that we trust daily?"

This can't be answered definitively with my data

That may still be the case with months of data

Data Collection Stats

9 nonconsecutive days

98.7 hours of data collection time

1,200 data points of each type collected

That's 2,400 data points total

The data was collected every 5 minutes during each session

Temperatures Offset

Some temps were off by up to 10 degrees

One possible reason: the setups were different

For some areas I directly contradicted their suggestions

This is partly because I didn't know the correct way at first

I then didn't change it so that my data location stayed consistent

This fully accounts for the temperature data offset

RCX Hardware Description

Not professional hardware

Technically it was manufactured and marketed as a toy

I at least purchased the school version that made it more apt to do data logging

I got it over 3 years ago

Called Lego Mindstorms RCX

I used the Robolab 2.9.4 Labview 8.0-based Mac software to administrate the RCX

Key Disadvantages to Using An RCX

The obvious ones being that it just loosely was able to complete the task

And that it was very unprofessional

As well as the not-so-obvious ones

It requires a steady stream of power to hold anything in memory

The software is designed for the older generation of Macs

Therefore my Mac has to emulate the slower CPU in order to run the software

That in turn makes the whole OS slow and the fans spin loudly