

# ***The Atmospheric Phenomenon***

## **Validation Report (BF-V)**

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Per 3

## PURPOSE:

The purpose of this validation report is to make sure the equipment works right and that we know how to use it and to fix errors and malfunctions that could have occurred while we were launching it on the balloon.

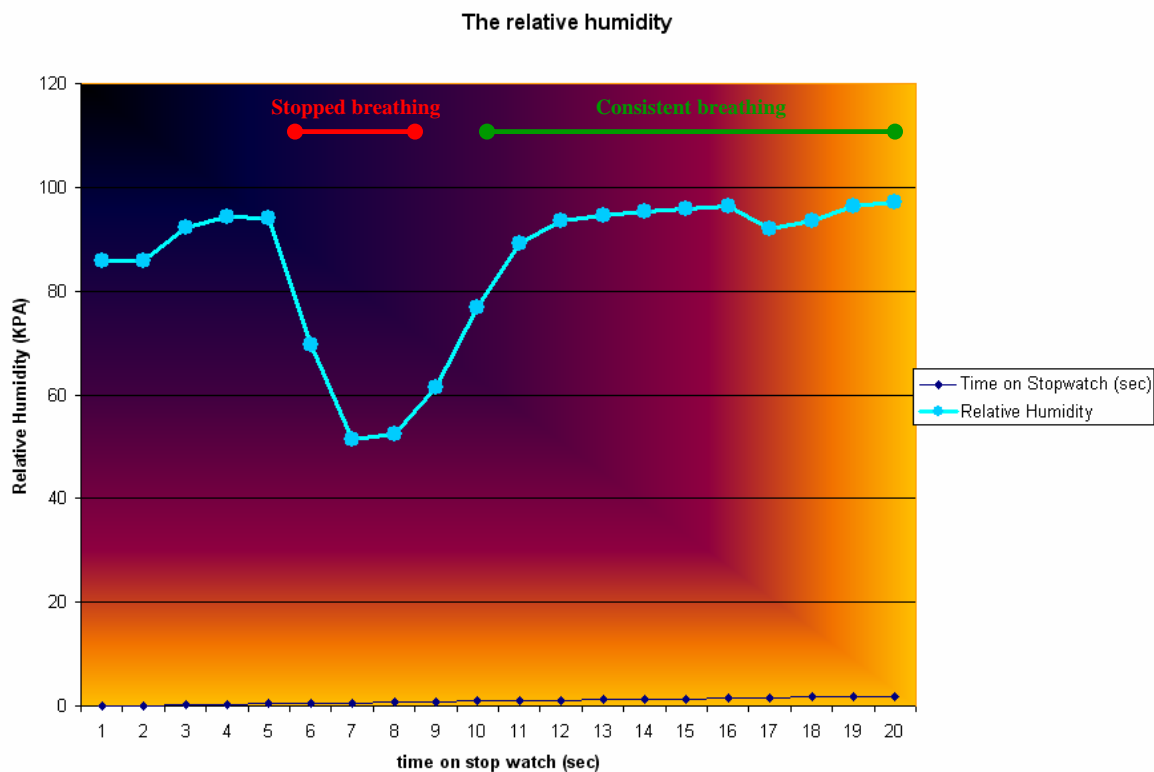
## METHOD:

The method of finding the humidity is using a relative humidity sensor hooked up to a lab pro and testing the relative humidity around the room. After the lab pro records the data, we will connect it to the computer and load the data and compare it.

## DATA:

<b>Time on Stopwatch (sec)</b>	<b>Relative Humidity (KPA)</b>
0	85.73
10	85.88
20	92.12
30	94.24
40	94.09
50	69.64
60	51.29
70	52.48
80	61.50
90	76.92
100	89.22
110	93.46
120	94.68

130	95.32
140	95.84
150	96.36
160	92.01
170	93.57
180	96.39
190	97.14



## ANALYSIS:

The data was not taken for a long enough time and not enough times to find out if it was accurate. We spent a lot of time trying to get the lab pro to connect to the computer and getting the data. We had difficulty

between the lab pro and the lap top so we had to use a computer in the room. The data probably wasn't very accurate because some of the team members were breathing on the relative humidity sensors to make the humidity increase. The graph started out with high humidity because my team was heavily breathing on the relative humidity sensor. When the graph went down a lot, the relative humidity sensor was just sitting on the table. When the graph went up again, my team was breathing on the sensor to try increase the humidity.

#### CONCLUSION:

The Lab pro works when the power supply, connection to computer, and it is programmed properly. We could have taken several samples of the relative humidity to make sure that the relative humidity sensor is accurate. However the relative humidity sensor works with the lab pro and can take readings. The errors and malfunctions of the test run were the lap top and lab pro connection, not having the batteries for the lab pro, and the computer took a while loading the lab pro and its equipment.