

## Rubric for Final Written Report

**Total Marks Available:** 25

Student:

Other group members:

Note: \*\*\*See also the Final Project Description document.\*\*\*

*The following will be used as a rough guideline when assigning total marks*

26	Exceeds expectations in all areas below (note bonus mark available)
22.5 – 25	Meets expectations in all areas OR meets expectations in some and exceeds expectations in others
20 – 22.5	Meets expectations in most areas, far below expectations in at most one area
15 – 20	Below expectations in three areas
10 – 15	Below expectations in more than three areas
1 – 10	Far below expectations in all areas
0	not submitted

### **Individual Description of Contributions (sent via email to instructor only)** 3

*Explains your contributions in the context of the other members' contributions*  
*Student clearly made significant contributions to the project*  
*Identifies specific sections, code, and figures that were contributed*  
*Max 300 words*

### **Introduction/Motivation** 2

*Scientific question(s)/motivation(s) have been stated so that both a statistician and an astronomer can follow the paper*  
*Motivates the rest of the paper, and clear objective described*  
*Relevant and sufficient background references*

### **Data/Exploratory Data Analysis** 1

*Data structure and type shown through figures, or examples in tables, etc.*  
*Issues such as measurement error, outliers, etc. addressed*  
*Relevant exploratory data analysis shown and discussed*

### **Methods/Techniques** 4

*Statistical methods and techniques described in sufficient detail*  
*Consistent and proper use of notation*  
*A reader without deep familiarity in the methodology could follow the analysis techniques*  
*Maybe there are helpful visuals, diagram, flow-charts, etc.*

### **Results** 4

*Written text follows figures and guides the reader through the results*  
*Any initial assumptions are re-addressed in context of the results*  
*Results answer the original motivation/question of the project (or the authors identify how the results did not answer their questions)*

### **Discussion and Conclusion** 5

*Summary of results is succinct and relevant comparisons are made*  
*Discussion of results in the context of the original question*  
*Possible avenues of research or improvements are suggested*  
*Discussion of pros/cons, advantages/disadvantages to the approach used*

<b><u>Overall</u></b>	<b>2</b>
<i>clearly written, free of most grammatical and spelling errors</i> <i>displays critical thinking</i> <i>understanding of methodology is evident</i> <i>addresses some of the concerns brought up during the peer feedback stage</i>	
<b><u>Figures</u></b>	<b>3</b>
<i>Figures are "publication ready"</i> <i>All figures are referenced in the text and have clear captions</i> <i>Figures effectively help "tell the story" of the research project</i>	
<b><u>References &amp; Page Length</u></b>	<b>1</b>
<i>Data referenced properly, complete bibliography</i> <i>Any code not written by the group is cited</i> <i>Maximum 20 pages, double-spaced, excluding figures, tables, references, etc.</i> <i>Code written by group is submitted</i>	
<b><u>Instructor Comments and Feedback...</u></b>	