IT	/Systems	Monitoring:	Rubric
----	----------	-------------	--------

Component	Sophisticated	Competent	Novice	Points
Summarize Data				20
Data handling	Comprehensive description of the procedures to handle and import data.	Vague discussion of import- ing and processing data.	No mention of how data is imported and processed (worst case: "We were not able to import the data.")	10
Variable creation	Discussion on how variables are created and why these variables are important, including any po- tential improvements.	Explanation of the created variables.	No mention of variable cre- ation.	10
Modeling				35
Data Aggregation	Comprehensive rationale for ag- gregating variables and observa- tions. Methods should be dis- cussed in detail, but qualitative rationales for groupings should be explained.	Brief discussion of methods used for clustering data.	No discussion of data aggre- gation.	15
Explanatory/Predictive Modeling	Comprehensive description of modeling strategies, along with a full description of qual- itative/quantitative modeling considerations.	Moderately multivariate based analyses without motivation.	Simplistic modeling strate- gies without motivation.	15
Model Justification	Discussion of viable alternatives and why selected model is su- perior, including comparison be- tween other models and inclu- sion of different variables. Thor- ough discussion of model valida- tion strategy	Highlight strengths and weaknesses of proposed model, but no discussion of alternatives. Moderate validation analysis.	No model justification or dis- cussion of alternative models.	10
Computational Isses				25
Computational Consider- ations and Demands	Comprehensive discussion of how computational challenges were met and overcome. Discussion of how additional computational re- sources benefitted the project.	Moderate discussion of how advanced computational re- sources were used.	No discussion of computa- tional issues.	15
Computational Modeling Choices	Assessment of strengths and weakness of the approaches to modeling and how choices were impacted by computation	Some discussion, but gener- ally obvious (e.g. "we only used a sample of the data for computational reasons")	No connections between computational and modeling choices.	10
Written & Conclusions				
Impacts	Strong discussion of how your results are important, and to whom.	Over emphasis of obvious re- sults, or misinterpretation of results.	No discussion of the relev- nence of your results.	10
Written Paper	Logical sequencing with well de- veloped paragraphs. No major grammatical errors.	Confusing paper sequencing and/or a few grammatical er- rors.	Poor sentence or paragraph structure, and major gram- matical mistakes.	10

## Due date: December 8th

Requirements: Maximum of 5 written pages (+1 page Appendix). Project descriptions should minimally include sections which address: the motivation for the problem, a discussion of the data, a discussion of methods used, and conclusions/suggestions pertaining to the problem.