

MIT OpenCourseWare
<http://ocw.mit.edu>

12.307 Weather and Climate Laboratory
Spring 2009

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.

Rubric for Student Reports: 12.307 – Weather and Climate Laboratory

	1. Deficient	2. Fair	3. Good	4. Excellent
Completeness	<ul style="list-style-type: none"> -- misinterpreted project -- portions of project incomplete -- no evidence for conclusions -- misuse of ideas -- no attempt to integrate laboratory and synoptic observations -- late without permission 	<ul style="list-style-type: none"> - project not fully understood - jargon obscures arguments - observations or data insufficient - incomplete analysis - no discussion of relevant theory - disjointed discussion of lab and synoptic data 	<ul style="list-style-type: none"> + all aspects of project carried out + clear discussion of data in terms of theory + attempt to integrate laboratory and synoptic data 	<ul style="list-style-type: none"> ++ aims of project and report clearly stated ++ excellent balance between theory and observation ++ laboratory and synoptic experience seamlessly drawn together
Data/Analysis	<ul style="list-style-type: none"> -- no data or fudged data -- excuses for not collecting data -- ignores feedback -- no use of theory to interpret observations or data -- no idea what to do with data -- no visuals, pictures or diagrams -- no discussion of errors 	<ul style="list-style-type: none"> - random or sporadic data collection - little pattern to data collection - inaccurate or sloppy representations of observations and/or data 	<ul style="list-style-type: none"> + careful records of a variety of measurements + enough data to test theory + full utilization of data + appropriate graphical representations employed + appropriate discussion of errors + many questions arise from data 	<ul style="list-style-type: none"> ++ original data carefully documented and graphed ++ data professionally collected ++ novel techniques employed and matched to problem ++ error analysis ++ designed further data collection to answer questions and test ideas
Organization	<ul style="list-style-type: none"> -- no sections, headings, subheadings.. -- rambling, disparate sections -- supporting elements not tied into text -- lack of coherent arguments 	<ul style="list-style-type: none"> - many organizational elements present (abstract, introduction and conclusion), but weak logical flow - sections not well integrated 	<ul style="list-style-type: none"> + clear main point + articulation of goals + all relevant sections present + sections well balanced + outline clearly evident + headings and subheadings used 	<ul style="list-style-type: none"> ++ logical thought progression ++ all elements relevant and well incorporated ++ structure clear and useful ++ logical structure appropriate to the report + appendices included if relevant
Aesthetics	<ul style="list-style-type: none"> -- contains many errors (poor grammar, misspellings, difficult font, inconsistent style, lack of page numbers, incomplete sentences) -- lack of proofreading evident. 	<ul style="list-style-type: none"> • few technical errors • consistent layout • form does not interfere with readability - appears rushed or unrefined 	<ul style="list-style-type: none"> + well edited + appropriate use of technical terms + use of graphics (tables, graphs, drawing) where appropriate + correct length + varied sentence structure + well proofread 	<ul style="list-style-type: none"> ++ model of clarity and good writing ++ a joy to read, novelty, personal touches ++ graphics well integrated ++ constructed with the reader in mind ++ well worth sharing with others ++ edited to proper length
Use of Sources	<ul style="list-style-type: none"> -- no references to sources -- no evidence of readings -- no evidence of note taking in class -- personal opinion treated as universal 	<ul style="list-style-type: none"> - inappropriate or gratuitous incorporation of references - incorrect or insufficient citations - readings misinterpreted or ignored - lack of the most appropriate citations from required readings 	<ul style="list-style-type: none"> + frequent, reliable citation to support several points + incorporation of relevant required readings and class discussion + readings shown to be clearly understood + evidence of listening to other's ideas in class 	<ul style="list-style-type: none"> ++ variety of appropriate sources, articles, books, WWW sites ++ quotations from classmates, professors ++ integration of additional readings ++ using ideas from other classes ++ bringing to bear new insights and information