PROGRAM INFORMATION

Date submitted: 6/3/13

<table>
<thead>
<tr>
<th>Degree Program(s):</th>
<th>BS Meteorology, conc Clim Sci</th>
<th>Department:</th>
<th>Meteorology &amp; Clim Sci</th>
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<tbody>
<tr>
<td>Department Chair:</td>
<td>Alison Bridger</td>
<td>Phone:</td>
<td>4-5206</td>
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<tr>
<td>Report Prepared by:</td>
<td>Alison Bridger</td>
<td>Phone:</td>
<td>4-5206</td>
</tr>
<tr>
<td>Next Self-Study due:</td>
<td>5 years from now (Action Plan submitted SP13)</td>
<td>E-mail:</td>
<td><a href="mailto:Alison.Bridger@sjsu.edu">Alison.Bridger@sjsu.edu</a></td>
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Note: Schedule is posted at: http://www.sjsu.edu/ugs/programplanning/

ARCHIVAL INFORMATION

<table>
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<tr>
<th>Location:</th>
<th>DH 620</th>
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<tr>
<td>Person to Contact:</td>
<td>Alison Bridger 4-5206</td>
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</tbody>
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(Bldg/Room #) (Name) (Phone)

Assessment schedule is posted at http://www.sjsu.edu/ugs/assessment
Please send any changes to the schedule or to student learning outcomes to Jackie Snell jacqueline.snell@sjsu.edu

Enter the number and text of the SLO in this box (we post reports by SLO)

SLO-3: Know and be able to practice the techniques used for collecting, analyzing and interpreting various forms of climate data.

Initial Evidence of Student Learning:

The BS Meteorology concentration in Climate Science concentration is very new – we have not yet had students graduate in this concentration. The first crop will graduate in Spring 2014. As a result we haven’t had much of a chance to assess the PLOs (posted at URL shown above).

Our first real assessment of this concentration will take place during the forthcoming year when the “culminating experience” class (METR 174) is offered for the first time. Note that the class will be low-enrolled, in which case there will be severe pressure to cut it, in which case all the above would be null.

In the interim, Climate Science (CLIM) students in Fall 2012 took the class METR 173 on “Global Climate Modeling”. In Spring 2013 we did not offer any METR classes solely for the Climate Science students – these students took classes in other majors per the roadmap. Hence, student performance in METR 173 in Fall 2012 was the only way we could assess CLIM students during the past academic year.

In METR 173, students performed a range of diagnostic studies using IPCC 2007 CMIP-3 intercomparison data. This of course would be a critical skill for CLIM students. Three groups of students took the class: CLIM students (3 of 13 students), BS Meteorology (METR) students (8 of 13 students), and METR MS students (2 of 13 students). Our assessment then is of the form of a simple comparison between these groups to ensure that the CLIM students are performing well. The three CLIMS students
earned overall grades of B+, B, and B-, while overall grades ranged from three A’s to one B-. The CLIM students were therefore not the strongest in the class, but nor were they the weakest *en masse*.

**Change(s) to Curriculum or Pedagogy:**
As mentioned, this concentration is very new, and we don’t yet have enough data to say that it is not working (and therefore needs fixing). No changes to pedagogy are planned at the moment. Please keep in mind that we can – at best – offer only one section of every class per year. In programs with multiple sections of a class per semester offered in both semesters, assessment is based on lots of data, and there is an opportunity to make changes from fall to spring.

**Evidence of Student Learning after Change.**
Since we haven’t made any changes, this section is moot.