

Addendum to Undergraduate Research (ATMS 499) Syllabus in the ATMS Department

Project: Great Smoky Mountain Rain Gauge Network support

Fall 2024

Description:

Field research associated with the ~32 rain gauge network that exists in Haywood County. This project is a collaborative effort with researchers at Duke University and seeks to better understand the hydrological cycle at high elevations for a location in the mid-latitudes.

Expectations:

Meeting times; once or twice per semester, working primarily in the field

Hours per week of research; sporadic hours totaling ~ 8-20 hours per semester

Project deliverable(s); perform gauge maintenance (cleaning funnel, mesh filter, tipping buckets), remove old bounce sheet & add new bounce sheet, clear gauge site of blocking vegetation, download data, and upgrade data logger software (if needed).

What does it take to get a grade of 'A' on this research project?

Each research team member must meet with Prof. Miller at least once a semester to update gauge maintenance, data, and research documentation procedures. Each research team member is expected to be in the field visiting rain gauges *at least once* each semester. Each research team member is responsible to maintain an accurate log of their hours spent in the field and must turn in a timesheet based on the field log when requested near the end of the semester.

Contact information

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