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Dan Carroll (dcarroll11@smcm.edu), **Nora Stack** (nhstack@smcm.edu) and **Caroline VanBlargan*** (cgvanblargan@smcm.edu). *Maps and Mirrors*. Preliminary report.

We investigate extensions of mirror design problems inspired by classical map projections. The map maker's problem is to choose which geographic/geometric data her map will reflect and which it will distort. Given that the simultaneous preservation of angles and areas is not possible, for instance, we explore new, so-called "quasiconformal mirrors" whose distorting tendencies can be controlled. (Received September 17, 2013)