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Studies of the North American central high plains for the next large cosmic ray experiment

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A series of ongoing studies of the suitability of the Colorado-Kansas-Oklahoma high plains has been going on since 2010 as a possible location of the next large cosmic ray experiment. These studies have included the necessary features of a flat high altitude plateau, but the next large cosmic ray experiment will also need a vastly greater area than current ongoing experiments, with a final aim towards a 100 by 100 mile area. This brings new problems such as communications over a rougher terrain, interference from local cities and their inhabitants, and air quality. We will report on an ongoing study of 10 Single PMT modified Auger style water tanks, and a 20 nodal point communication system and air quality studies. Concluding with a summary of the usefulness of the North American central high plains of Eastern Colorado, Western Kansas and the Oklahoma panhandle for the location of the next very large area cosmic ray experiment.

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