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On some methods of analysis for weather experiments

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Using generalized densities, maximum likelihood and ancillarity, methods are developed for the analysis of randomized weather modification experiments that incorporate predictor variables. The linear logistic form is used to model the **distributional** singularity at the origin, while a **gamma** model with predictors is developed for the component conditional on the presence of precipitation. Connexions between the component submodels are explored and illustrated using an Australian data set.

Key Words: Ancillarity • **Gamma distribution** model with predictors • Generalized density • Linear logistic model • Maximum likelihood • Single cloud weather modification experiment

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