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Paul P. B. Eggermont* (eggermon@udel.edu), Food and Resource Economics, University of Delaware, Newark, DE 19716. *Maximum likelihood regularization of some inverse problems*. Preliminary report.

We consider some inverse problems in geophysics when the data is contaminated by random noise. We show that one may treat the noise as deterministic but highly oscillatory, but that it is too pessimistic to describe it solely in terms of its average power. (Received September 21, 2011)