

Point Process Modeling of Reservoir Induced Seismicity

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The point process procedure in statistics is applied to an analysis of reservoir induced seismicity (RIS). A hazard rate consists of three components; the Poisson process term, the Etas term for aftershocks and a time function derived from water level observation at a reservoir. The method is applied to seismicity around the Tarbela reservoir in Pakistan. As a result, the AIC criterion of the model suggests the possibility of RIS.