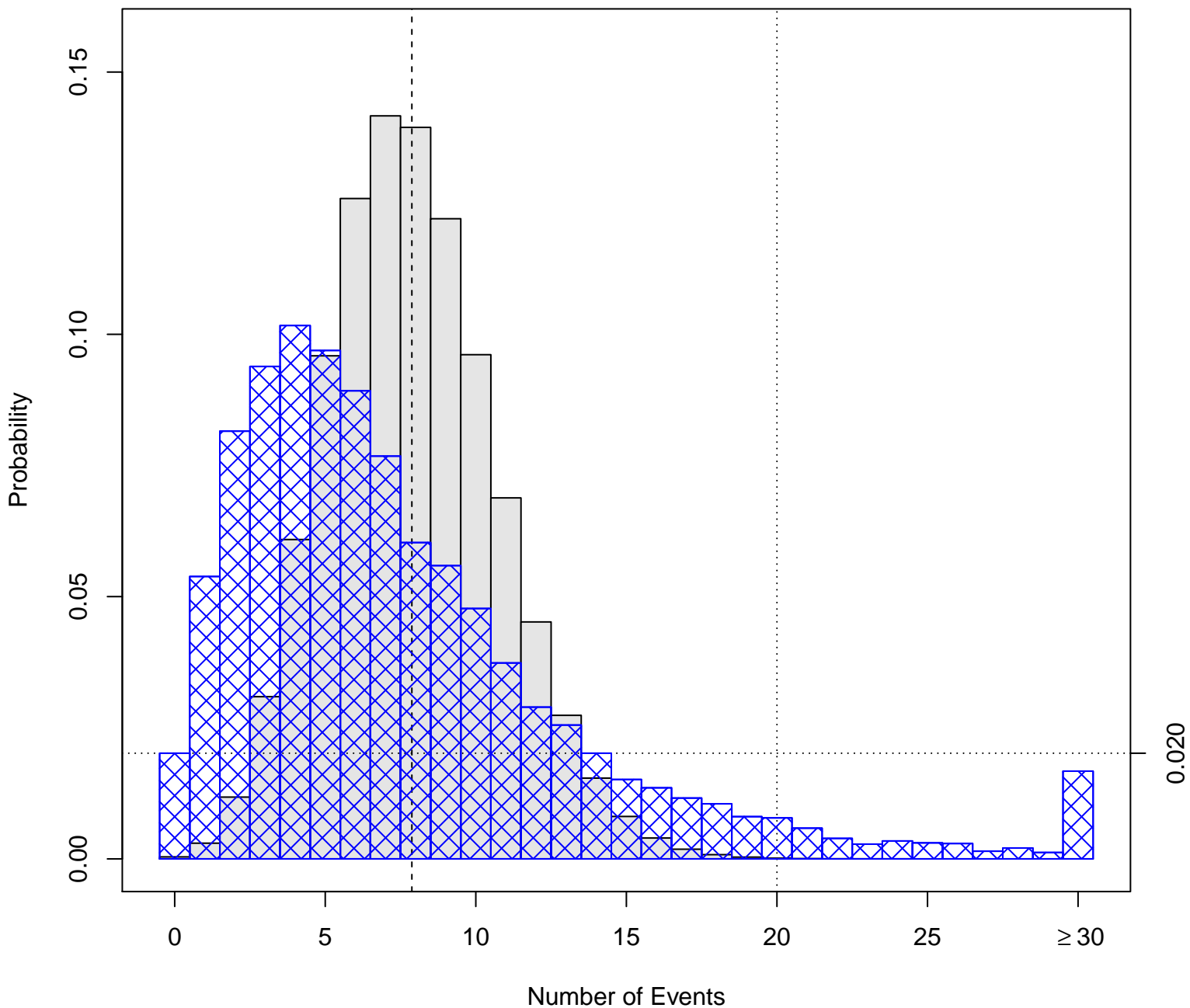


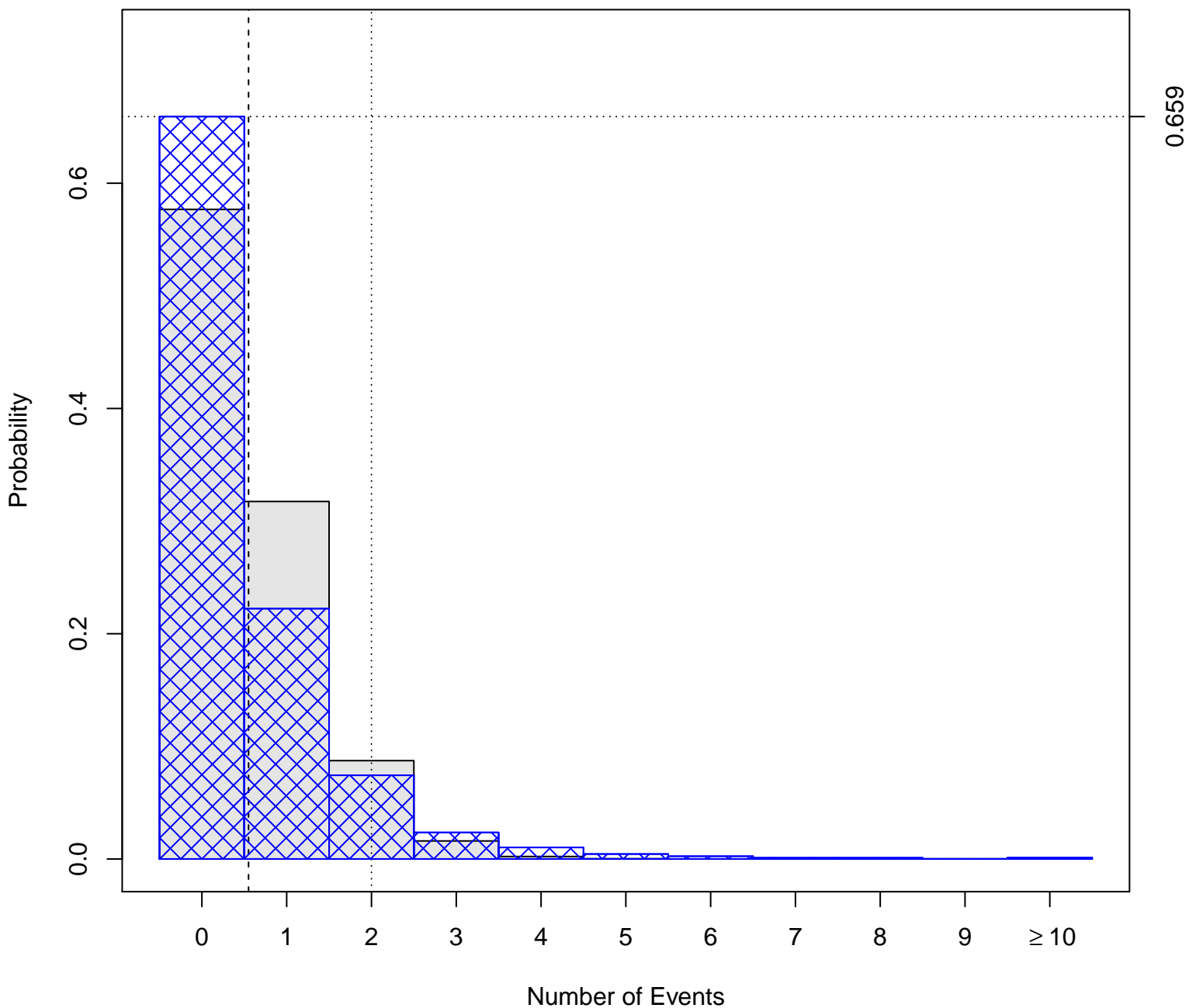
Distribution of Forecast Event ( $M \geq 4$ ) Counts  
Between 2019-12-10 00:00 (UTC) and 2020-01-07 00:00 (UTC)



Blue is ETAS model with mean at dashed line    Grey is Poisson with same mean  
One sided upper 95% confidence interval (ETAS model) limit is given by spotted line



Distribution of Forecast Event ( $M \geq 5$ ) Counts  
Between 2019-12-10 00:00 (UTC) and 2020-01-07 00:00 (UTC)

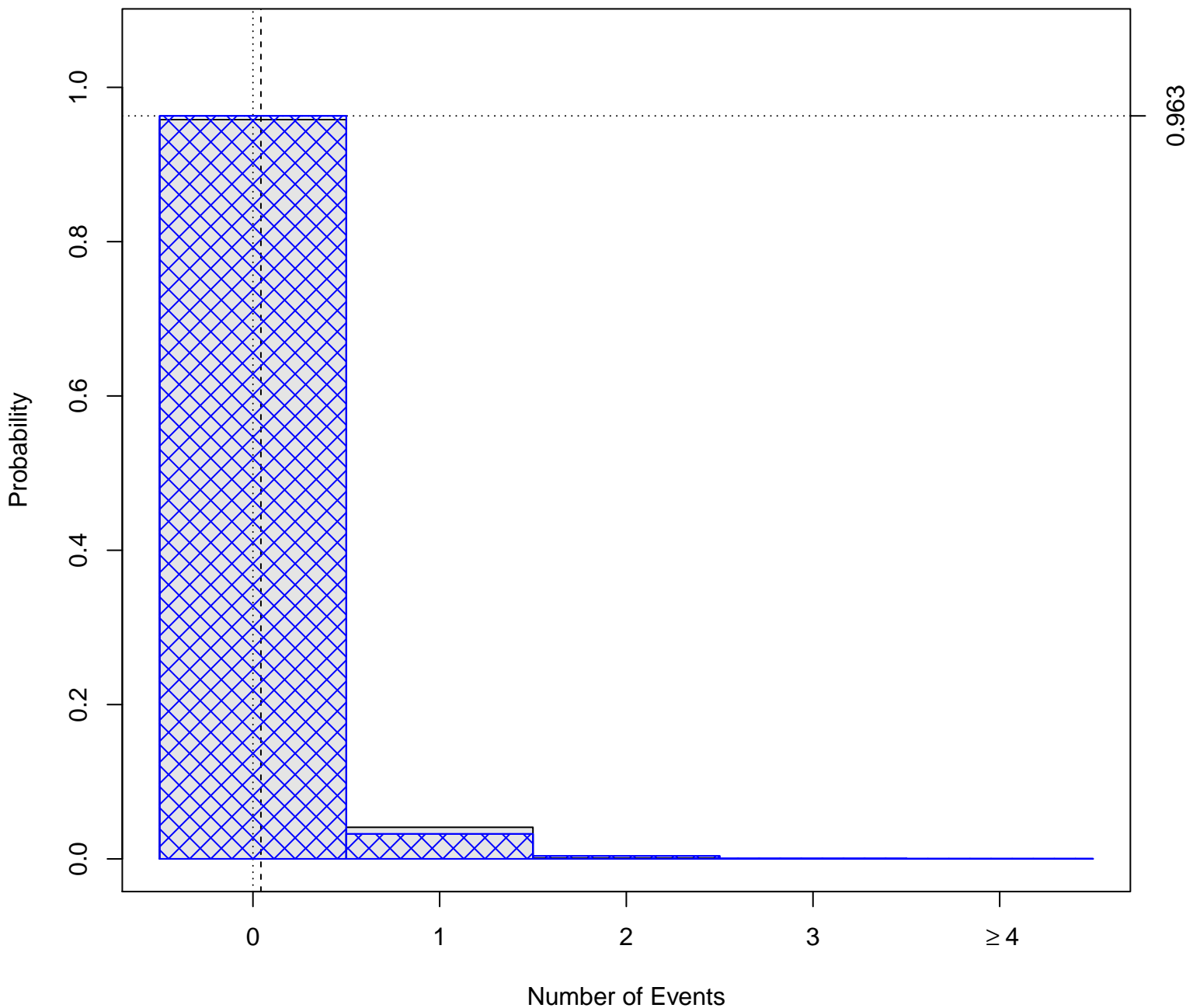


Blue is ETAS model with mean at dashed line    Grey is Poisson with same mean  
One sided upper 95% confidence interval (ETAS model) limit is given by spotted line



# Distribution of Forecast Event ( $M \geq 6$ ) Counts

Between 2019-12-10 00:00 (UTC) and 2020-01-07 00:00 (UTC)

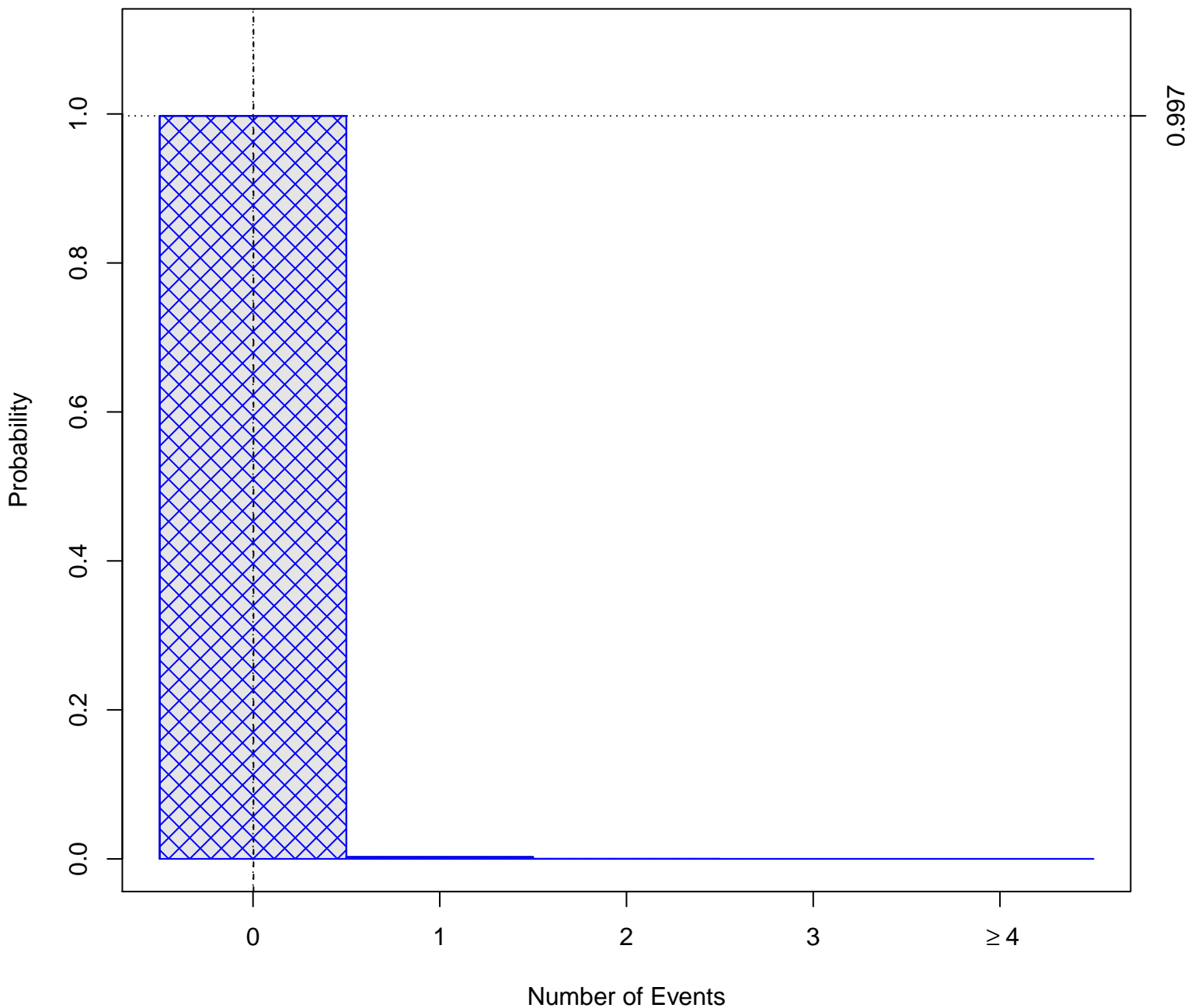


Blue is ETAS model with mean at dashed line    Grey is Poisson with same mean  
One sided upper 95% confidence interval (ETAS model) limit is given by spotted line



# Distribution of Forecast Event ( $M \geq 7$ ) Counts

Between 2019-12-10 00:00 (UTC) and 2020-01-07 00:00 (UTC)

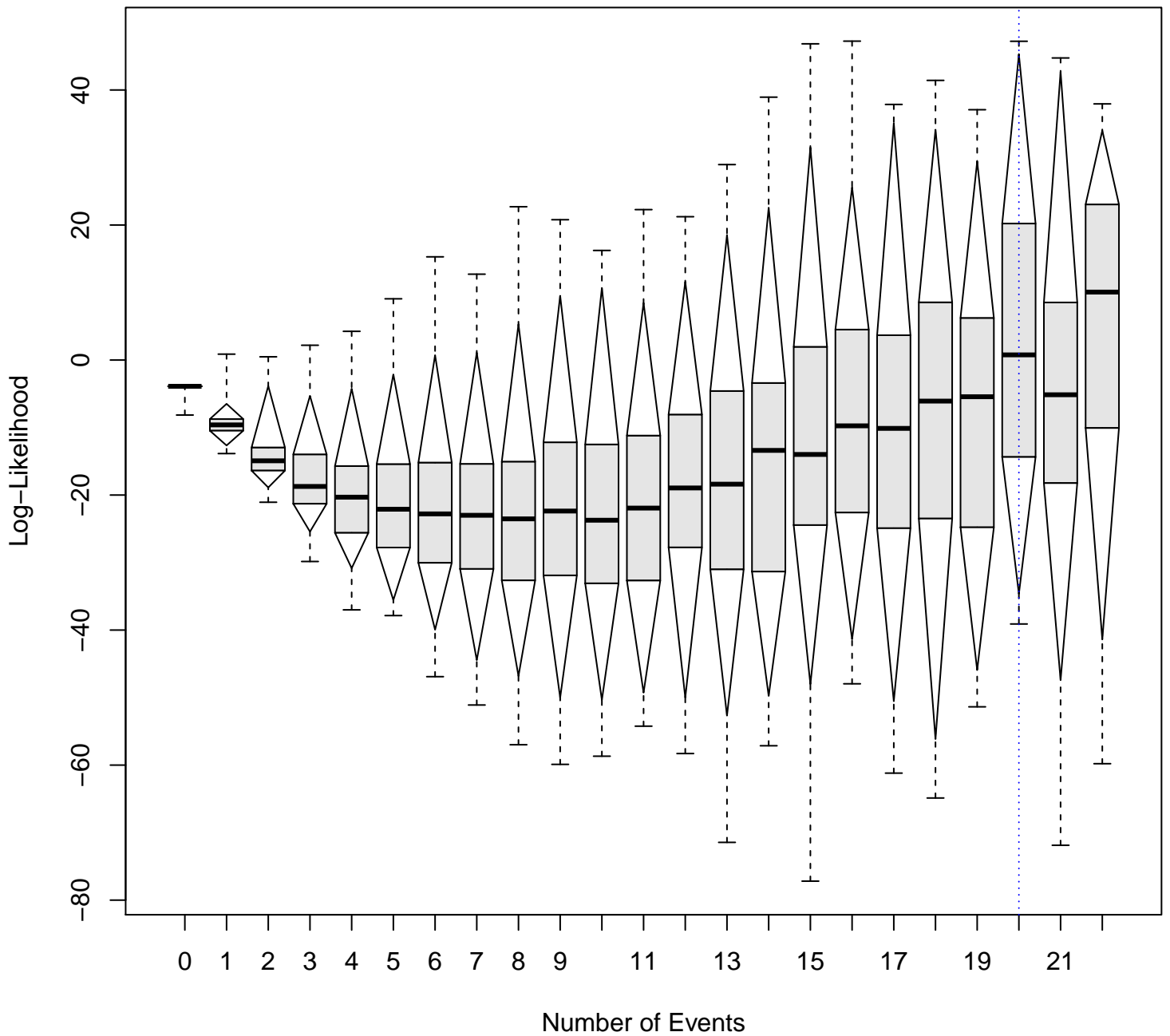


Blue is ETAS model with mean at dashed line    Grey is Poisson with same mean  
One sided upper 95% confidence interval (ETAS model) limit is given by spotted line



# Log-Likelihood Distribution by Number of Events ( $M \geq 4$ )

Based on 8192 Simulations



20.0 is the 95th percentile of the forecasted number of events with magnitude  $\geq 4$