

LogLinear model equation is:

$$\log_{10}(N_t) = \log_{10}(N_0) - (t/D)^p$$

where t is time and \log_{10} is base 10 logarithm.

The parameters to estimate are D , p and $\log_{10}(N_0)$.

The noisy output is defined as:

$$\log_{10}(N_t) = \mathcal{N}(\log_{10}(N_t), \%noise)$$

i.e random number from the normal distribution with mean parameter $\log_{10}(N_t)$ and standard deviation parameter $\%noise$.

Example of LogLinear curve

Time unit is hour. Maximal time is 504h. $D = 300$, $p = 3$ and $\log_{10}(N_0) = 4$

