**Table S2: Prior and hyperprior parameters for runs of the Storz and Beaumont (2002) analysis implemented in MSVAR.** Columns 3-6 show the starting values for the mean and variance of the prior distributions. Columns 7-10 show the means and variances (and their means and variances) of the hyperprior distributions. Parameters listed are generation interval (g), current *N*e (*N*0), ancestral *N*e (*N*1), mutation rate scaled in terms of current population size (*Ѳ)*, and time (*T)*. All values are in a log10 scale.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Run# | g | log(*N0*) | log(*N1*) | log(*θ*) | log(*T*) | log(*N0*) | log(*N1*) | log(*θ*) | log(*T*) |
| 01 | 5 | 4 1 | 4 1 | -3.3 1 | 3 1 | 3 2 0 0.5 | 3 2 0 0.5 | -3.3 0.25 0 0.5 | 3 2 0 0.5 |
| 02 | 5 | 4 1 | 4 1 | -3.3 1 | 4 1 | 3 2 0 0.5 | 3 2 0 0.5 | -3.3 0.25 0 0.5 | 3 2 0 0.5 |
| 03 | 4 | 4 1 | 3 1 | -3.3 1 | 4 1 | 3 2 0 0.5 | 3 2 0 0.5 | -3.3 0.25 0 0.5 | 3 2 0 0.5 |
| 04 | 5 | 3 1 | 3 1 | -3.3 1 | 4 1 | 2 2 0 0.5 | 2 2 0 0.5 | -3.3 0.25 0 0.5 | 3 2 0 0.5 |
| 05 | 5 | 4 1 | 4 1 | -3.3 1 | 4 1 | 4 3 0 0.5 | 4 3 0 0.5 | -3.3 0.25 0 0.5 | 3 2 0 0.5 |
| 06 | 5 | 4 1 | 4 1 | -3.3 1 | 2 1 | 3 2 0 0.5 | 3 2 0 0.5 | -3.3 0.25 0 0.5 | 2 2 0 0.5 |