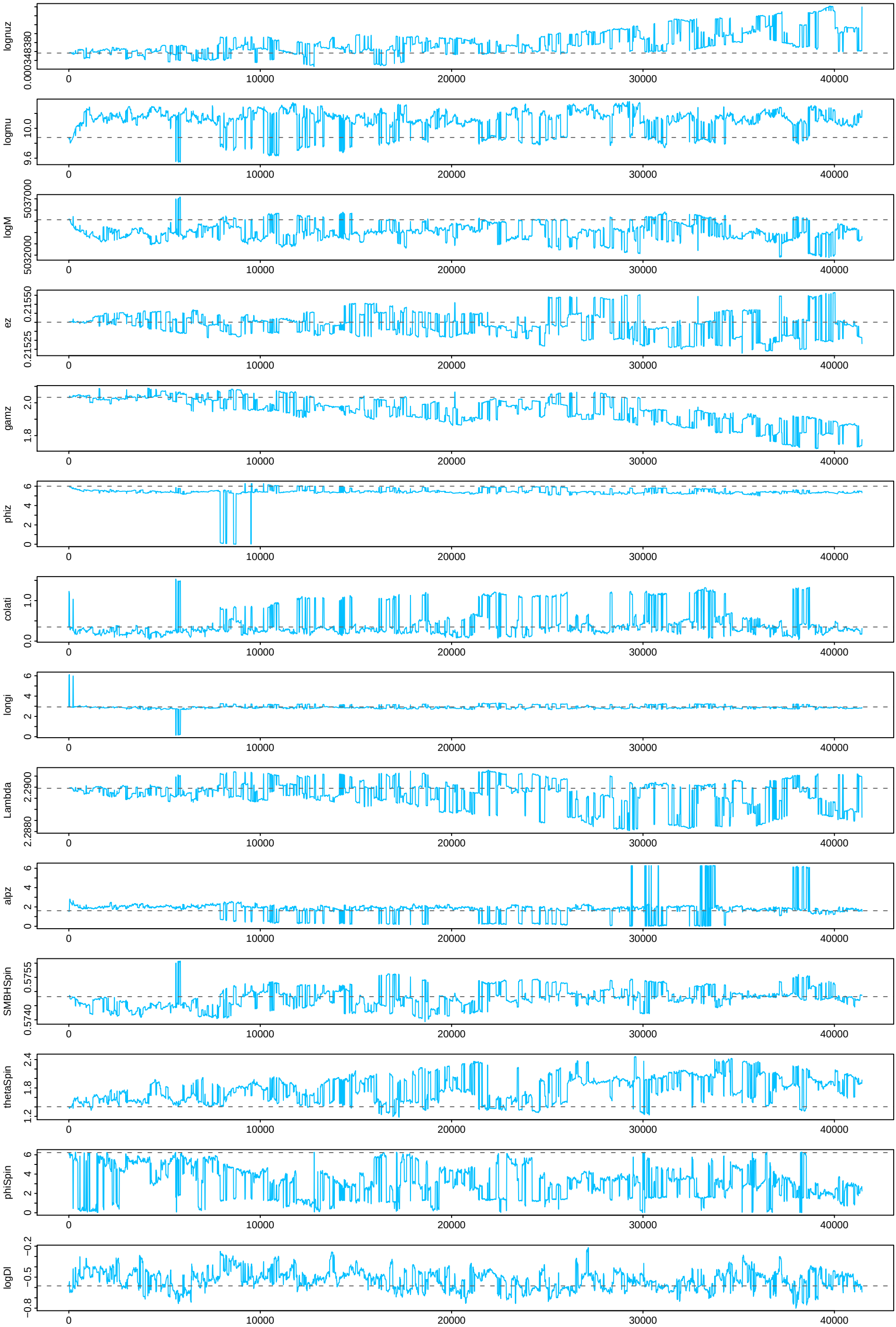45 Days data segment (2^18 data points): 10 chains mpi: first chain