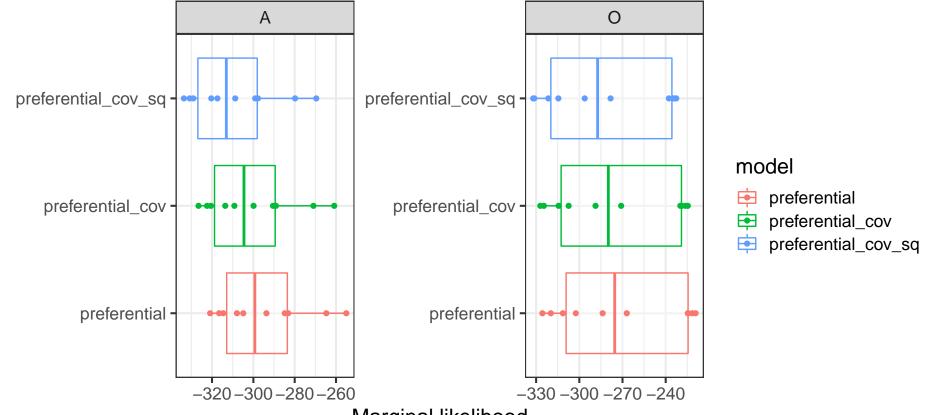Constant population, empirical dates