The nuclear process in the sun caused a mass defect of 4 Mega Ton / s which converted to pure energy. During the time, this decreasing process of sun-mass will influence the gravity of sun-earth-system which could be represented in the increasing of sun-earth-distance. With some assumption, we can simulate the position of earth orbit in dimension of Million years. But this paper shows, that during our lifetime, the significance change in sun-earth system might be difficult to be measured.