This directory contains the code for one particular sensitivity analysis of the planets simulation:

Name: SA41 - destiny is f only

Description: It is somewhat arguable as to what should come under chance and what should come under destiny (mechanism). In the standard model, feedbacks, forcing and ‘neighbourhood’ (expected numbers of perturbations) are all categorised as destiny, whereas the actual numbers of perturbations, their times and exact magnitudes, and the initial temperature, are all categorised as chance. In practice, this means that an individual planet always has exactly the same destiny factors whenever it is run (destiny factors are only calculated once for each planet, at the beginning when its properties are set), whereas the chance factors are different each time it is run (and so are calculated anew for each rerun). The difference for this sensitivity analysis is that two factors (long-term forcing and neighbourhood) are removed from the destiny category and put in the chance category. Rather than being calculated once for each planet they are now recalculated afresh for each and every rerun of that planet.

The following files were altered in order to implement this sensitivity analysis:

determine\_trend.m

ts\_master.m

ts\_slave.m