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

Name: SA37 – less hazardous

Description: Again, as for SA36, the question is whether the main conclusion (outcomes being a function of both mechanism and chance but not either alone) is dependent on how the habitability problem is set up. If the habitability problem is this time made much less difficult, by decreasing the severity of the factors likely to end habitability and by simultaneously increasing the strength of the feedbacks potentially maintaining habitability, is a totally different answer obtained? Do the results come to resemble what would be expected if mechanism determines all? This possibility is assessed here by (1) omitting the larger size class of perturbations altogether, (2) reducing the magnitude of the other size classes by 25% and (3) having only half as many of them, as well as (4) 25% smaller long-term forcings ( = 37.5), while at the same time (5) increasing the magnitudes of the feedbacks by 50% ( = 150).

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

set\_constants.m