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

Name: planet without feedbacks

Description: The performance of this artificial planet is a check that the simulation works as expected. This is a planet without any negative (stabilising) or positive (destabilising) feedbacks, which is therefore bound to follow a random walk where temperature is buffeted by perturbations without any restoring or amplifying feedbacks. dT/dt is set to zero at all temperature values. This is implemented by forcing the planet to have 20 nodes, all of which f = 0 ᵒC ky-1. For this SA, randomly different starting temperatures and perturbations are calculated each time. However, there is no long-term forcing (trend = 0) and the numbers of perturbations are set to their minimum values, i.e. 0 big, 40 mid-sized and 4000 little.

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

determine\_feedbacks.m

determine\_trend.m

determine\_neighbourhood.m

set\_constants.m