

This is the repository of data relating to the paper entitled "A comparison of shock-cloud and wind-cloud interactions: The longer survival of clouds in winds". The repository consists of code, set-up files for each simulation, and analysis files (including the raw statistics files, images, and gnuplot files used to create the graphs). The repository is subdivided as follows:

Figures:

all of the images included in the paper.

Gnuplot:

gnuplot scripts used to produce plots of various global quantities (e.g. core mass, velocity etc.) against time (in units of the cloud crushing time).

Statistics:

all the raw statistics files used for the analysis.

Files labelled "stats2" refer to statistics relating to the entire cloud

Files cloud labelled "stats3" refer to only the densest regions of the cloud.

Code:

contains some of the files used in this work. For the necessary code to view any code-specific files, please contact the authors or the code copyright holder, Prof. Sam Falle at Mantis Numerics Ltd.

Set_up:

all the setup files for each simulation. The setup files allow various simulation parameters to be changed without having to alter the code. E.g. the cloud density contrast, etc., can be changed in these files as well as the resolution of the simulation and time step for recording the statistics.

Silo:

silo files for the main points in each simulation.