**The user manual for StrataTrapper software**

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**The purpose of the software**:

Accurately considering the heterogeneity, particularly the capillary pressure heterogeneity, in reservoir characterisation, which will be further utilized for multiphase flow simulation.

**The source of the software**:

Github project (s.an@imperial.ac.uk)

**The version of StrataTrapper**:

StrataTrapper\_Mac for macOS system.

**Pre-installed the software**:

Image Processing Toolbox in Matlab.

Optimization Toolbox in Matlab.

**Steps to run StrataTrapper**

1. **Change all parameters in *A\_input.txt*, needed for calculations**
2. **Run *A0\_Batch\_run.m* for the stepped calculations**
3. **The output files include the data for further simulation and the *vtk* filles for visualisation.**

Chart, surface chart

Description automatically generated