

GEO111 – NUMERICAL SKILLS IN GEOSCIENCE

week #05: Further data input and data processing

24th October 2016

Work plan

The plan for the lab work is:

1. Work through Section 5.1 (of Chapter #5) – file **GEO111_ch5a.pdf**.

Learning goals (aka: 'what specifically should I have got to grips with?')

Topics and methodologies you should be familiar with:

- More flexible ways of importing data from text (ASCII) files. However, do not overly worry about the precise details of specifying the format of the data, just appreciate that there exist means of importing data with very specific and/or troublesome formats.
- Loading column data from Excel spreadsheets.
- Loading spatial data from *netCDF* format files.
- *cell arrays*, at least, appreciate the general concept, how you can get meaningful data (e.g. normal arrays) out of them, and that they exist.

specific MATLAB commands you should be familiar with:

- `textscan` (and `fopen` and `fclose`)
- `xlsread`
- `netcdf`. ...