**Week 5 Tuesday class**

(no prequiz this week)

1) Hand Back Lab

2) Discuss lab 4

- show my example SHOW INPUTS AT TOP!!

- redundancy – don't have it! Eg:

TC = -30:40;

RH =10:20:90

[RH,TC]=meshgrid(10:20:90,-30:40)

- add whitespace

- organization

- use of 'clear' before running:

- code like

...

TempK=TempC+273.15

[RH,TempC]=meshgrid(...)

...

only works if you forget to CLEAR

- legends: at least 3 ways to get a title:

lgd=legend(....'\_

1) title(lgd,'legend title');

2) lgd.Title.String='legend title';

3) title(legend,'legend title');

More info in first 10 pages of CHAPTER 11 of textbook.

Note – my favourite graphics property is 'tickdir','out'!

-For degrees: Don't use weird characters (extended charactersets)

For example, use

xlabel('Temperature/^oC'); % Tex mapping

xlabel('Temperature/\circC'); % Tex mapping

xlabel(['Temperature/' char(176) 'C']); % MATLAB codes

( look for 'title' in documentation window upper right)

3) Do “selection exercise”

4) Hand out worksheet.

**Thursday class**

Notes on lab:

- Explain the issue with latitude – conversion from degrees to distance.

Delta LON \* 111e3 \*cos(LAT)

2\*pi\*6370/360 = 111 (earth radius = 6370)

cos(LAT) because lines of longitude come closer together near the poles (spherical geometry)

- make sure you understand it is the grid point lat you need, not the point you select!