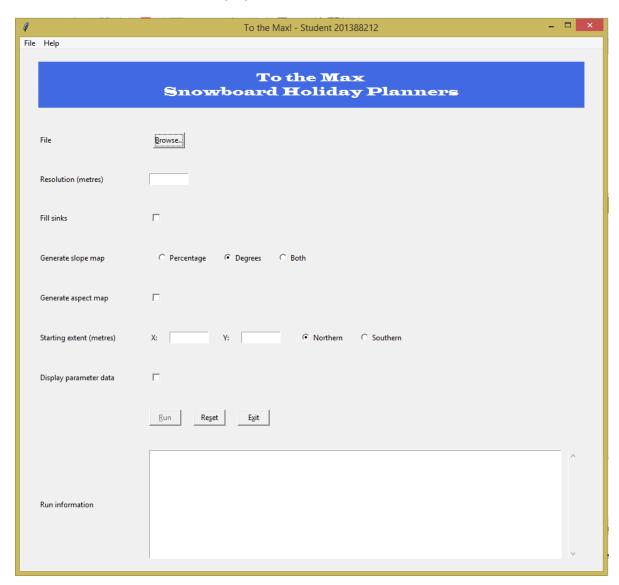
GEOG5003 – Assignment 2 Test Cases

GUI Front-end Window - Initial Display



1 Navigation 1.1 Start app from command line running tothemaxhome.py 1.2 Start app from command line running tothemaxhome.py 1.3 Exit app using Alt-x 1.4 Exit app using Alt-x 1.5 Exit app using Alt-x 1.6 Help > Inputs 1.7 Help > About 1.8 Reset fields using Alt-s 1.8 Reset fields using Alt-s 1.8 Reset fields using File > Reset 1.9 Reset fields using File > Reset 1.10 Reset fields using File > Reset 1.11 Run app using File > Reset 1.12 Run app using File > Run 1.13 Run app using File > Run 1.14 Run app using File > Run 1.15 Run app using File > Run 1.16 Run app using File > Run 1.17 Run app using File > Run 1.18 Run app using File > Run 1.19 Run app using File > Run 1.10 Run app using File > Run 1.11 Run app using File > Run 1.12 Run app using File > Run 1.13 Run app using Kun button 1.14 Run app using Kun button 1.15 Run app using Kun button 1.16 Run app using Kun button 1.17 Run app using File > Run 1.18 Run app using Kun button 1.19 Run app using Kun button 1.10 Run app using Run button 1.11 Run app using Kun button 1.12 Run app using Kun button 1.13 Run app using Kun button 1.14 Run app using Kun button 1.15 Run app using Run button 1.16 Run app using Run button 1.17 Run app using Run button 1.18 Run app using Run button 1.19 Run app using Run button 1.10 Run app using Run button 1.11 Run app using Run button 1.12 Run app using Run button 1.13 Run app using Run button 1.14 Run app using Run button 1.15 Run app using Run button 1.16 Run app using Run button 1.17 Run app using Run button 1.18 Run app using Run button 1.19 Run app using Run button 1.10 Run app using Run button 1.11 Run app using Run button 1.12 Run app using Run button 1.13 Run app using Run button 1.14 Run app using Run button 1.15 Run app using Run button 1.16 Run app using Run button 1.17 Run app using Run button 1.18 Run app using Run button 1.19 Run app using Run button 1.10 Run app using Run button 1.11 Run app using Run button 1.12 Run app using Run button 1.13 Run app using Run button 1.14 Run app usi	Test #	Description	Comments / Expected Results	Pass / Fail
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	3.2	Text box	settings if Display parameter data check button checked at the time.	Pass
	3.3	Cursor focus position		Pass
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4	Front-end fields – File		
4.1	Empty (initial display)	Run button and File > Run is disabled to prevent running without data input.	Pass
4.2	Populated after returning from Browse operation (file selected)	URL parsed into tothemaxmain.py.	Pass
4.3	Cleared after returning from Browse operation (no file selected)	Run button and File > Run reverts to being disabled.	Pass
4.4	Cleared after the Reset or File > Reset operations	Run button and File > Run reverts to being disabled.	Pass
5	Front-end fields – Resolution (metres)		
5.1	Empty	No argument parsed.	Pass
0.1		Defaults to 50 (hard coded).	. 400
5.2	Contains at least 1 Alphanumeric character	Run terminates.	Pass
		Error displayed in Run Information.	
5.3	Contains as least 1 space character	Run terminates.	Pass
		Error displayed in Run Information.	
5.4	Contains zero	Run terminates.	Pass
		Error displayed in Run Information.	
5.5	Contains a positive integer	Value parsed into tothemaxmain.py and overrides default.	Pass
		Difference on the x axis range of each subplot / number of cells in rows = this value.	
		Difference on the y axis range of each subplot / number of cells in rows = this value.	
5.6	Contains a negative integer	Run terminates.	Pass
		Error displayed in Run Information.	
5.7	Contains a floating-point number	Run terminates.	Pass
		Error displayed in Run Information.	
6	Front-end fields – Fill Sinks		
6.1	Unchecked	No argument parsed.	Pass
		Defaults to N (hard coded).	
		Slope and aspect maps potentially displayed with some NoData cells.	
6.2	Checked	Y parsed into tothemaxmain.py and overrides default.	Pass
		Majority of non-edge cells with NoData will be resolved.	
		Edge cells with NoData remain unresolved and displayed as colourless.	

7	Front-end fields – Generate slope map		
7.1	Percentage	P parsed into tothemaxmain.py and overrides default.	Pass
		Slope map (Percentage) displayed in Matplotlib figure at subplot position row:2 column:1.	
7.2	Degrees	D parsed into tothemaxmain.py (same as default).	Pass
		Slope map (Degrees) displayed in Matplotlib figure at subplot position row:2 column:1.	
7.3	Both	B parsed into tothemaxmain.py and overrides default.	Pass
		Slope map (Degrees) displayed in Matplotlib figure at subplot position row:2 column:1.	
		Slope map (Percentage) displayed in Matplotlib figure at subplot position row:2 column:2.	
7.4	Mutually exclusive	Yes.	Pass
8	Front-end fields – Generate aspect map		
8.1	Unchecked	No argument parsed.	Pass
		Defaults to N (hard coded).	
		No Matplotlib figure at subplot position row:1 column:2.	
8.2	Checked	Y parsed into tothemaxmain.py and overrides default.	Pass
		Aspect map displayed in Matplotlib figure at subplot position row:1 column:2.	
9	Front-end fields – Starting Extent (metres) X		
9.1	Empty	No argument parsed.	Pass
		Defaults to 0 (hard coded).	
		Starting x axis value on all subplots = 0.	
		Ending x axis value on all subplots = number of cells in rows x Resolution.	
9.2	Contains at least 1 Alphanumeric character	Run terminates.	Pass
		Error displayed in Run Information.	_
9.3	Contains as least 1 space character	Run terminates.	Pass
0.4	Contains zoro positivo or posstivo into	Error displayed in Run Information.	Dace
9.4	Contains zero, positive or negative integer	Value parsed into tothemaxmain.py and overrides default.	Pass
		Starting x axis value on all subplots = this value.	
		Ending x axis value on all subplots = this value + (number of cells in rows x Resolution)	
9.5	Contains a floating-point number	Run terminates.	Pass
		Error displayed in Run Information.	

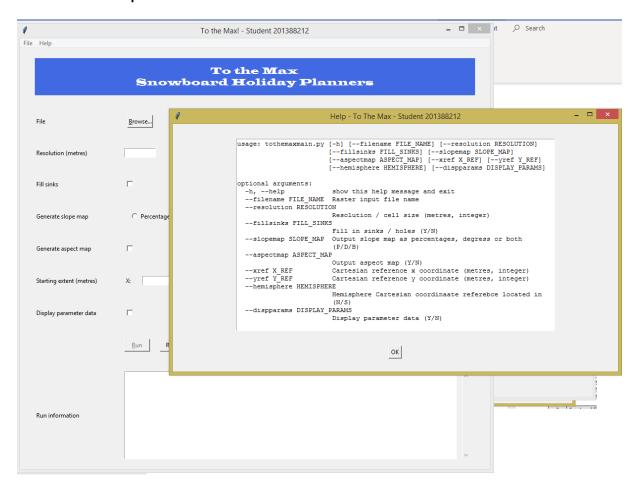
10	Front-end fields – Starting Extent (metres) Y		
10.1	Empty	No argument parsed.	Pass
		Defaults to 0 (hard coded).	
		Starting y axis value on all subplots = 0.	
		Ending y axis value on all subplots = number of rows x Resolution.	
10.2	Contains at least 1 Alphanumeric character	Run terminates.	Pass
		Error displayed in Run Information.	
10.3	Contains as least 1 space character	Run terminates.	Pass
		Error displayed in Run Information.	
10.4	Contains zero, positive or negative integer	Value parsed into tothemaxmain.py and overrides default.	Pass
		Starting y axis value on all subplots = this value.	
		If Northern Hemisphere selected: Ending y axis value on all subplots = this value + (number of cells in rows x Resolution)	
		If Southern Hemisphere selected: Ending y axis value on all subplots = this value - (number of cells in rows x Resolution)	
10.5	Contains a floating-point number	Run terminates.	Pass
		Error displayed in Run Information.	
11	Front-end fields – Hemisphere		
11.1	Northern	N parsed into tothemaxmain.py and overrides default.	Pass
		Starting / ending y axis values displayed on all subplots is ascending.	
11.2	Southern	S parsed into tothemaxmain.py and overrides default.	Pass
		Starting / ending y axis values displayed on all subplots is descending.	
11.3	Mutually exclusive	Yes.	Pass
12	Front-end fields – Display parameter data		
12.1	Unchecked	No parameter information displayed.	Pass
12.2	Checked	Y parsed into tothemaxmain.py and overrides default.	Pass
		Summary of run parameters passed returned.	
13	Input raster file (snow.slope)		
13.1	No. of cell values in each row not consistent	Run terminates. Error displayed in Run Information.	Pass
13.2	Cell value not numeric	Run terminates.	Pass
		Error displayed in Run Information.	

14	Input raster file (georeferenced)		
14.1	With ncols row	Used to validate no. of data cells input.	Pass
14.2	With nrows row	Used to validate no. of data cells input.	Pass
14.3	With xllcorner row	Used to populate Starting extent (X).	Pass
14.4	With xllcenter row	Used to populate Starting extent (X).	Pass
14.5	With yllcorner row	Used to populate Starting extent (Y).	Pass
14.6	With yllcenter row	Used to populate Starting extent (Y).	Pass
14.7	With cellsize row	Used to populate Resolution.	Pass
		Used to calculated Starting extent (X) when xllcenter input instead of xllcorner.	
		Used to calculated Starting extent (Y) when yllcenter input instead of yllcorner.	
14.8	With nodata_value row	Used to identify NoData input data cells.	Pass
15	General running of app without errors		
15.1	Georeferenced input file	Resolution and Starting extents (x & y) prepopulated.	Pass
		2 to 4 maps generated.	
15.2	Non-georeferenced input file	No front-end fields prepopulated.	Pass
		2 to 4 maps generated.	
15.3	Elevation map	Generated for every run.	Pass
15.4	Slope map as a Percentage	Generated if selected via front-end.	Pass
15.5	Slope map in Degrees	Generated if selected via front-end.	Pass
15.6	Aspect map	Generated if selected via front-end.	Pass
15.7	At least one downhill cell in a neighbourhood	No affect on number of maps produced or data cell values in slope and aspect maps.	Pass
15.8	No downhill cells in a neighbourhood – sinks not filled	Affected edge cells displayed in slope and aspect map with NoData (NaN) – regardless of whether Fill sinks is selected or not.	Pass
15.9	No downhill cells in a neighbourhood – sinks filled	Resolved with taking the lowest elevation of the eight neighbours.	Pass
15.10	Map located entirely in Northern hemisphere	Starting and ending y axis labels both display North and are ascending.	Pass
15.11	Map located entirely in Southern hemisphere	Starting and ending y axis labels both display South and are descending.	Pass
15.12	Starting and ending extents (y axis) located	Starting y axis label displays South.	Pass
	opposite hemispheres	Ending y axis label displays North.	
15.13	Input file contains a NoData cell.	Cell remains as NoData throughout.	Pass
		Corresponding slope map cell contains NoData (NaN).	
		Corresponding aspect map cell contains NoData (NaN).	

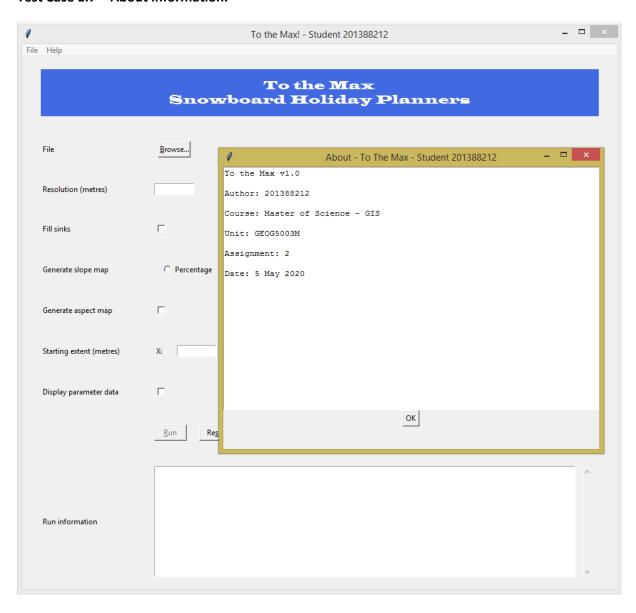
16	Output files		
16.1	snow_slope_map_perc.txt	File not georeferenced.	Pass
	(Slope map data as a percentage)	Format and layout matches input file.	
		File overwritten for each run.	
		Contains same number of rows and cells as in input file.	
		Each data cell is in float format with precision to 1 decimal place.	
		NoData is represented as NaN.	
16.2	snow_slope_map_deg.txt	File not georeferenced.	Pass
	(Slope map data in degrees)	Format and layout matches input file.	
		File overwritten for each run.	
		Contains same number of rows and cells as in input file.	
		Each data cell is in float format with precision to 1 decimal place.	
		NoData is represented as NaN.	
16.3	snow_aspect_map.txt	File not georeferenced.	Pass
	(Aspect map data)	Format and layout matches input file.	
		File overwritten for each run.	
		Contains same number of rows and cells as in input file.	
		Each data cell is in integer format.	
		NoData is represented as NaN.	

GEOG5003M – Assignment 2 Testing Evidence

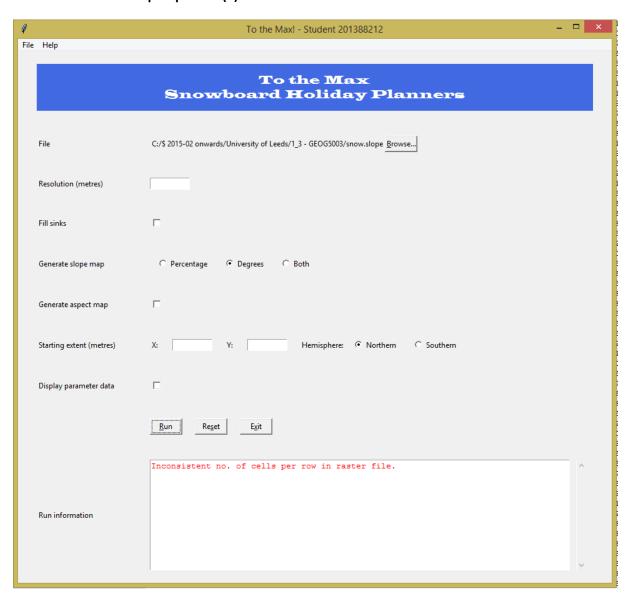
Test Case 1.6 - Help information.



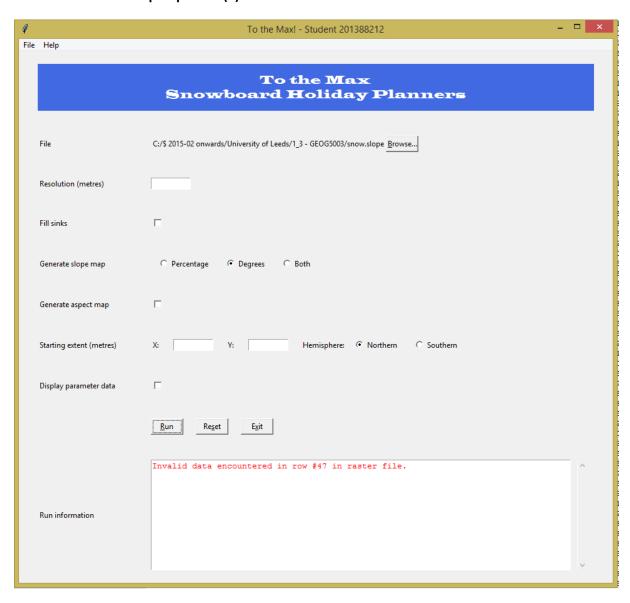
Test Case 1.7 – About information.



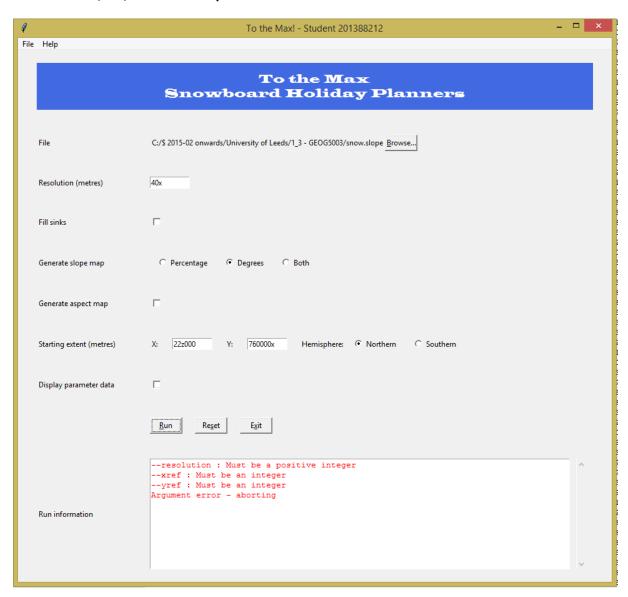
Test Case 13.1 - Corrupt input file (1).



Test Case 13.2 - Corrupt input file (2).

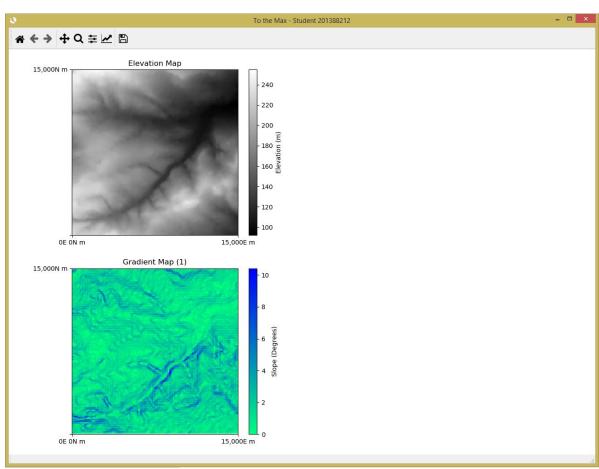


Test Cases 5.2, 9.2, 10.2 – Invalid parameter data.



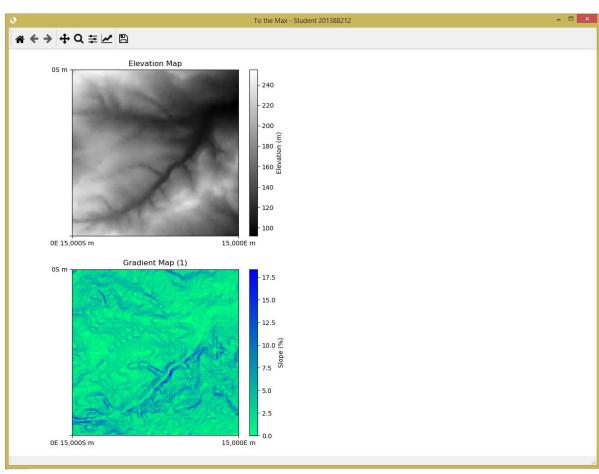
Test Cases 5.1, 6.1, 7.2, 8.1, 9.1, 10.1, 11.1 – Standard run with no overrides.

•	To the Max! - Student 201388212	- 🗆 ×
File Help		
	To the Max Snowboard Holiday Planners	
File	C:/\$ 2015-02 onwards/University of Leeds/1_3 - GEOG5003/snow.slope Browse	
Resolution (metres)		
Fill sinks	Г	
Generate slope map	C Percentage	
Generate aspect map	Г	
Starting extent (metres)	X: Y: Hemisphere: • Northern C Southern	
Display parameter data	▽	
	Run Reget Exit	
Run information	Processed with the following arguments:, - Area file name: c:/\$ 2015-02 onwards/university of leeds/1_3 - geog5003/snow.sl - Area resolution (metres): 50, - Fill sinks / holes: N, - Generate area slope map: D, - Generate area aspect: N, - Starting x,y reference: 0 0, - Hemisphere: N.	ope,



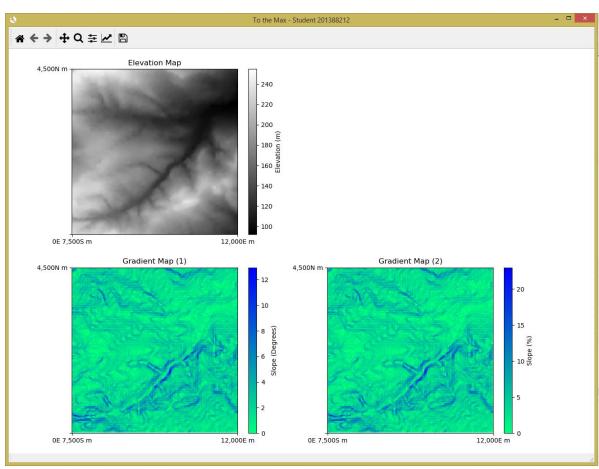
Test Cases 10.4, 11.2, 15.11 – Southern hemisphere labels.

Ø		To the Max! - Student 201388212	- 🗆 ×
File	Help		
		To the Max Snowboard Holiday Planners	
	File	C:/\$ 2015-02 onwards/University of Leeds/1_3 - GEOG5003/snow.slope Browse	
	Resolution (metres)		
	Fill sinks	г	
	Generate slope map	◆ Percentage ← Degrees ← Both	
	Generate aspect map		
	Starting extent (metres)	X: Y: 15000 Hemisphere: C Northern C Southern	
	Display parameter data	▽	
		Reset Exit	
	Run information	Processed with the following arguments:, - Area file name: c:/\$ 2015-02 onwards/university of leeds/1_3 - geog5003/snow.slopersity of leeds/1_3 - geog5003/snow.slope	pe,

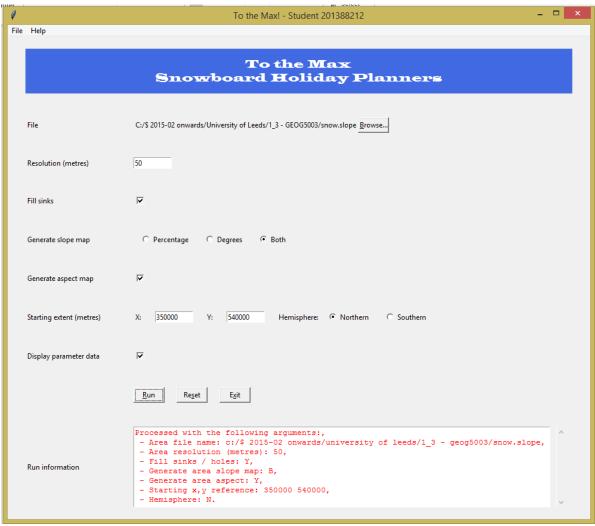


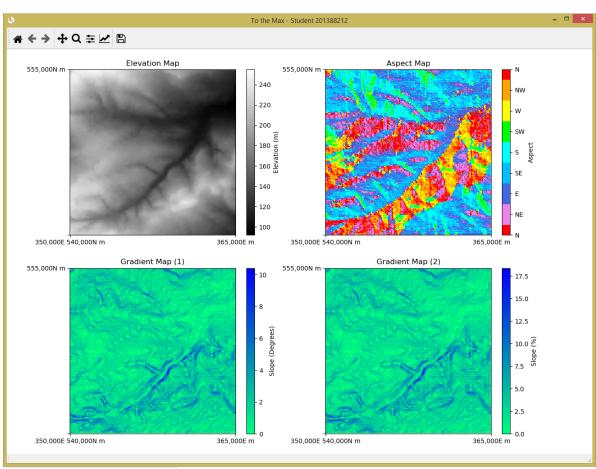
Test Cases 15.12 – Y axis label either side of equator.

0		To the Max! - Student 201388212
File	Help	
		m - 41 mr
		To the Max Snowboard Holiday Planners
	File	C:/\$ 2015-02 onwards/University of Leeds/1_3 - GEOG5003/snow.slope Browse
	Resolution (metres)	40
	Fill sinks	Г
	Generate slope map	← Percentage ← Degrees ← Both
	Generate aspect map	Г
	Starting extent (metres)	X: Y: 7500 Hemisphere: C Northern © Southern
	Display parameter data	
		<u>Run</u> Re <u>s</u> et E <u>x</u> it
	Run information	Processed with the following arguments:, - Area file name: c:/\$ 2015-02 onwards/university of leeds/1_3 - geog5003/snow.slope, - Area resolution (metres): 40, - Fill sinks / holes: N, - Generate area slope map: B, - Generate area aspect: N, - Starting x,y reference: 0 7500, - Hemisphere: S.

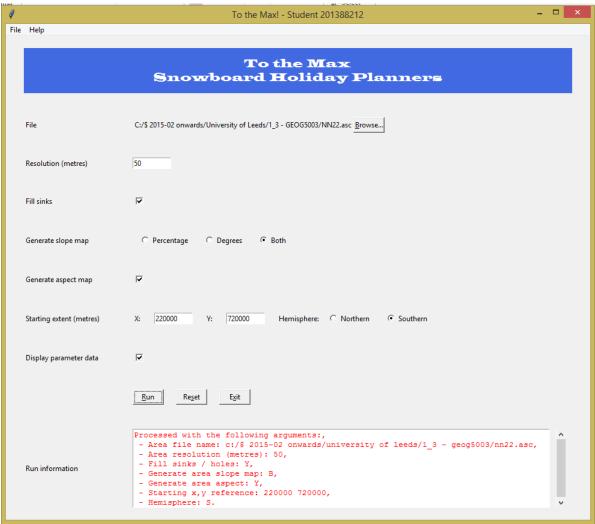


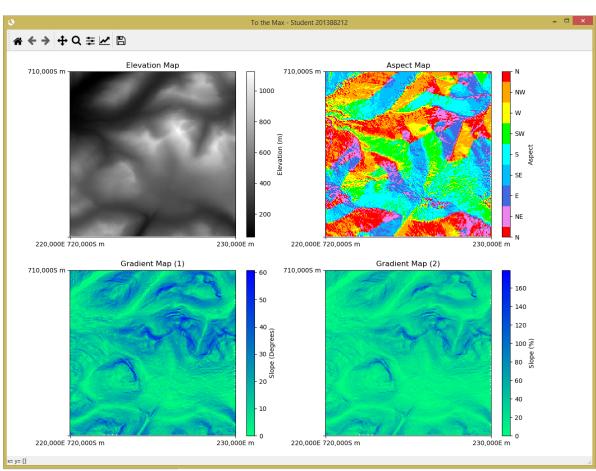
Test Cases 5.5, 6.2, 7.3, 8.2, 9.4, 10.4, 11.1, 12.2, 16.1-3 – Standard run with full set of overrides.

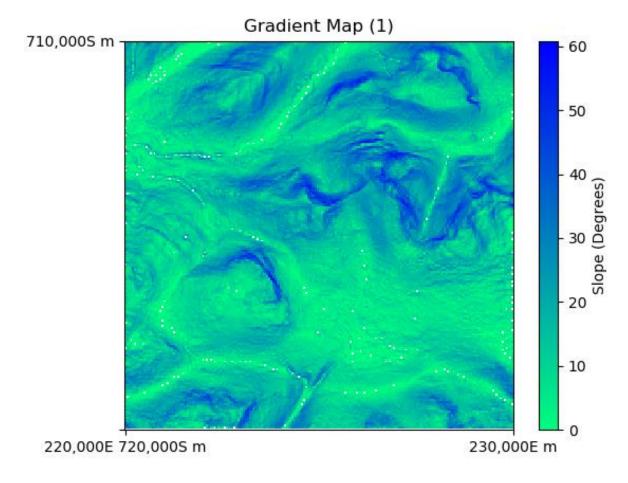


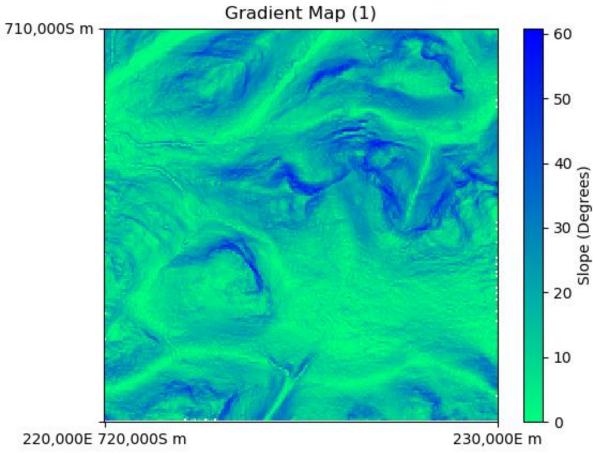


Test Cases 14.1-3, 14.5, 14.7, 15.1, 15.3-7. 15.9-10, 16.1-3 - Georeferenced input file.









Test Cases 16.1-3 – Output file.

Refer to following output files:

- Related to snow.slope
 - o snow_slope_map_perc_1.txt
 - o snow_slope_map_deg_1.txt
 - o snow_aspect_map_1.txt
- Related to nn22.asc (georeferenced)
 - o snow_slope_map_perc_2.txt
 - o snow_slope_map_deg_2.txt
 - o snow_aspect_map_2.txt