EOSC 114: The Ca	atastrophic	Earth: Natural [	Disasters
encircle one: Section 101		Section 102	
Last Name, First	Name, Stud	dent Number:	
I worked with:	Last Name, First Name:		
	Last Nam	e, First Name:	
	Last Nam	e, First Name	

1) Consider a wave with L = 100 m. As it passes a patch of ocean where depth is indicated on column 1, fill in columns 2 - 3 in the Table below.

Depth of Water, d	ls d ≥ L ÷ 2?	ls d ≤ L ÷ 20?	Type of Wave (deep, intermediate or shallow)
75 m			
50 m			
25 m			
10 m			
5 m			

2) Consider a patch of ocean with depth as indicated in row 1. As a wave passes this patch of ocean, what should be its maximum wavelength to be considered a deep water wave (row 2)? what should be its minimum wavelength to be considered a shallow water wave (row 3)?

	d = 4,000 m	d = 500 m	d = 5 m
Maximum L to be a  Deep water wave			
Minimum L to be a Shallow water wave			