Class Exercises for Session 5*

Tide Tables; Current Tables
Chapters 13 and 14 of the Course book

*See complimentary PowerPoint class presentation available for download from www.MarineNavigationBooks.com

Part I: Tide Tables

5.1 Tide times and heights

What are the times and tidal heights at Fulford	Harbour on July 14, 2016 (Appendix 3, p. 103)?
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5.2 Tide heights from interpolation

What is the tide at Fulford Harbour at 15:30 on July 6, 2016? (Appendix 3, p. 103; Table 5 and 5A in Appendix 5, p 105)

5.3 Time for a specific tide height

At what time, in the afternoon of August 29, 2016 will the tide have risen to 4 m at Point Atkinson? (Appendix 4, p 104; Table 5 and 5A in Appendix 5, p 105)

5.4 Scope and rode length for overnight anchoring

You arrive near Point Atkinson on August 10, 2016 at around 17:00, and decide to anchor overnight in a cove where the charted depth is 6 m. The weather forecast calls for moderate to strong winds overnight, so a 7 to 1 scope (height/length) would be appropriate. What is the minimum rode you should use, given that the freeboard of your boat is 1.3 m?

5.5 Highest tide

What is the highest tide (time and height) at Gibsons, September 11, 2016? (Appendix 2, p. 102; Appendix 6, p. 106; and Appendix 7, p. 107)

Part II: Current Tables

5.6 Porlier Pass, July 18, 2016

a) Give the time of the	ie mid-morning turn at Porlier Pass	on July 18, 2016 (Appendix 12, p. 112)
Turn at:		
maximum speed i	fore and after the turn, give the typ n each direction, the time of these n these periods before and after the t	maximum speeds, and the direction of
Before turn: Max speed	; Time of Max Speed:	; direction:
After turn: Max Speed	; Time of Max Speed:	; direction:

5.7 Current at Boat Passage, August 2, 2016

Give the times of Turn to Flood, Max Flood, and Turn to Ebb currents at Boat Passage on August 2, 2016, and the speed of the current in each case. (Appendix 9, p. 109; Appendix 10,

	p. 110; Appendix 14	4, p. 114)	
	Type	Time	Speed
	Turn to Flood		
	Max Flood		
	Turn to Ebb		
	Direction of flood	:	
	Direction of ebb ?:		
5.8	Maximum floo	od current at Georgeson Passag	e, July 5, 2016
		d speed of the current at Maximum Flood at ppendix 9, p. 109; Appendix 10, p. 110; Appe	•
	Max. flood:	<u>Time:</u>	
		Speed:	
		Direction:	
5.9	Current near	the mouth of the St. Lawrence	
	What is the referen (Appendix 13, p. 11	ce tide-station for a boat location near 47° 24 3)	' N, 070° 27' W?
	What is the (local)	time of the highest tide at this station on July	23, 2016?
	What are the curren	nt direction and speed around the boat, two h	ours after this highest tide?