

Cruise of the Power Cruiser "SWAG"

Homework Answers

Note: *In this cruise, answers which are plus or minus two units from the stated answer are considered acceptable.*

1. L 44°42.6'N Lo 65°46.5'W

2. The *List of Lights, Buoys and Fog Signals* for the area

3. A. 274°

B. True course to steer 279°

T	V	M	D	C
279°	19°W	298°	2°W	300°

C. 7.4 kn

4. L 44°44.0'N Lo 65°59.0'W

5. A. Yes

B. The local VTM services, to advise them, you will be crossing the lane.

6. A. No

B. The current direction and speed may have changed.

7. Set 099°, drift 1.5 kn

8. Track 271°

True course to steer 273°

T	V	M	D	C
273°	19°W	292°	1°W	293°

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9. 4.5 kn

10. Distance; 15.0M; Elapsed time = 3h 20m
ETA at destination 1420

11. Visual bearings
GPS fix
LORAN fix

12.	T	V	M	D	C
Hdg	273°	19°W	292°	1°W	293°
Brg#1	282°	19°W	301°	1°W	302°
Brg#2	202°	19°W	221°	1°W	222°

13. A white occulting light, period 6 seconds, 122 feet above datum, with a nominal range of 12 nm

14. A. Drift 1.5 kn, Distance = $\frac{1.5 \times 150}{60} = 3.8M$

B. L 44°44.3'N Lo 66°34.3'W

15. Yes—the nominal ranges are 12M and 18M, respectively

16.	T	V	M	D	C
Hdg	081°	19°W	100°	0°	100°
Brg#1	255°	19°W	274°	0°	274°
Brg#2	224°	19°W	243°	0°	243°

Fix: L 44° 48.2'N, Lo 66° 32.3'W

17. A. Distance 32.4M; Elapsed time = 5h 24m
ETA 2208

B.	T	V	M	D	C
	040°	19°W	059°	4°W	063°

18. The current would turn at 1700 approximately. This may affect the arrival time.

19. L 44°49.5'N, Lo 66°30.5'W

20. A. Track 040°; True course to steer 047°

T	V	M	D	C
047°	19°W	066°	3°W	069°

B. 4.7 kn

C. Distance 30.7M; Time 6h 32m; ETA 2332

21. The average is about 2/3 of the maximum current rate

22. No, slightly off course to port

	T	V	M	D	C
Hdg	047°	19°W	066°	3°W	069°
Brg#1	298°	19°W	317°	3°W	320°
Brg#2	346°	19°W	365°	3°W	008°

23. Variable current

Leeway effect

Erratic steering

24. No, still off course to port

TH	+	RB	=	TB
047°	+	221°	=	268°
047°	+	249°	=	296°

25. L 45°07.3'N Lo 66°10.4'W

26. Distance 9.1M; Time 98m; SOG 5.6kn

27. Distance 7.8M; Time 1h 24m, ETA 2202

28. T	V	M	D	C
268°	19°W	287°	1°W	288°

29. Distance 6.8M; Time 54m; ETA 2132

30. The largest scale chart available.

DECK LOG FORM

DECK LOG - VESSEL:

Time	Observation	Latitude	Longitude	T	V	M	D	C	Speed	Dist.	ETA	Remarks Use two lines if necessary	
0730	DEP	44°42.6'N	65°46.5'W	274°	19°W	293°	1°W	294°	6.0	37.5			
				CTS 279°	19°W	298°	2°W	300°	6.0			CTS 300° compass	
0900	DR	44°44.0'N	65°59.0'W	274°	19°W	293°	1°W	294°	6.0	28.5		Steering 300° compass SOA 7.4 kn	
1100	LORAN FIX	44°44.0'N	66°12.1'W	274°	19°W	293°	1°W	294°	6.0	19.5		Steering 300° compass SOA 7.4 kn	
1100	LORAN FIX	44°44.8'N	66°18.5'W	274°	19°W	293°	1°W	294°	6.0	15.2		Set 099° Dft 1.5 kn SOG 4.5 kn	
				CTS 273°	19°W	292°	1°W	293°			1420	CTS 293° compass	
1414	Brg 1			282°	19°W	301°	1°W	302°				Blown fuse in Loran—not working on Swallow Tail Light	
												on Great Duck I Light	
1414	Brg 2			202°	19°W	221°	1°W	222°				Drift to look for whales, and work on electrical problems in Loran	
1414	FIX	44°45.0'N	66°39.5'W										
1644	Hdg			081°	19°W	100°	0°	100°				on Swallow Tail Light	
1644	Brg 1			255°	19°W	274°	0°	274°				on Great Duck Island Light	
1644	Brg 2			224°	19°W	243°	0°	243°				Heading for fairway buoy at Entrance to St. John harbour	
1644	FIX	44°48.2'N	66°32.3'W	040°	19°W	059°	4°W	063°	6.0	32.4	2208		
				Complete remainder of log as taught									