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Q154 - Navigation Problems: Oceans

1. On 26 February 1983, at 1750 EST (ZD +5) what will be the predicted height of tide at New Haven (city dock), CT?

- -.3 foot (-0.1 meter)
- **-6 foot (-0.2 meter)**
- 1.3 feet (0.4 meter)
- 1.6 feet (0.5 meter)

Note:

Interpolate between the two surrounding predicted tide heights in the 1983 tide tables for New Haven (city dock), CT, to determine the predicted height at 1750 EST.

2. On 27 April 1983, at 1105 DST (ZD +4), what will be the predicted height of tide at Falkner Island, CT?

- **5.3 feet (1.6 m)**
- 5.6 feet (1.7 m)
- 6.2 feet (1.9 m)
- 6.8 feet (2.7 m)

Note:

The predicted tide height at Falkner Island on 27 April 1983 at 1105 DST is 5.3 feet (1.6 m). This requires converting the time to Local Standard Time, using the 1983 Tide Tables, applying subordinate station corrections, and interpolating using the Height of Tide Table.

3. For 3 November 1983, at 0830 EST (ZD +5) at Catskill, NY, what is the predicted height of tide?

- +0.1 foot (+0.0 m)
- **-0.6 foot (-0.2 m)**
- +0.9 foot (+0.3 m)
- -1.3 feet (-0.4 m)

Note:

The predicted tide height at Catskill, NY, on November 3, 1983, at 0830 EST is -0.6 foot (-0.2 m). This value is determined by referencing the 1983 tide tables, applying subordinate-station corrections, and linearly interpolating between the heights of the bracketing tides.

4. On 5 March 1983, at 0630 EST (ZD +5), what will be the predicted height of tide at Ocracoke, Ocracoke Inlet, NC?

- **0.1 foot**
- 1.2 feet
- 1.9 feet
- 2.3 feet

Note:

The predicted tide height at Ocracoke, Ocracoke Inlet, NC on 5 March 1983 at 0630 EST is 0.1 foot. This is determined by referencing the 1983 Tide Tables, applying subordinate-station corrections, and interpolating for the specified time.

5. On 6 June 1983, at 1719 EST (ZD +5), what will be the predicted height of tide at Chester, PA?

- 0.8 feet(0.2 meters)
- **1.1 feet (0.3 meters)**
- 3.5 feet (1.1 meters)
- 4.7 feet (1.4 meters)

Note:

The predicted tide height at Chester, PA on June 6, 1983, at 1719 EST is 1.1 feet (0.3 meters). This is determined by interpolating between the surrounding high and low tides using the official 1983 Tide Tables.

6. You are at anchor in the anchorage at the entrance to Delaware Bay. You weigh anchor at 1445 DST (ZD +4) on 24 July 1983 and proceed northbound enroute to Philadelphia at a speed of 10 knots. Which of the following should you expect to experience?

- a flood current from Ship John Shoal Lt. to Philadelphia
- an ebb current north of New Castle, DE
- a flood current the entire trip
- **a weak flood between Reedy Island and Edgemoor**

Note:

Based on the 1983 Tidal Current Tables for Delaware Bay, a northbound transit at 1445 DST with a speed of 10 knots will experience a weak flood current between Reedy Island and Edgemoor.

7. You are on course 138°T. To check the latitude of your vessel you should observe a celestial body on which bearing?

- 270°
- 318°
- 138°
- **000°**

Note:

A latitude check requires observing a celestial body on the meridian, which corresponds to a bearing of due north or due south. Therefore, the correct bearing is 000.

8. You are on course 238°T. To check the course of your vessel you should observe a celestial body on which bearing?

- 180°
- 238°
- **328°**
- 090°

Note:

To verify your course, select a celestial body bearing 90 from your current course, which in this case is 328.

9. Determine the duration of the first PM slack water on 3 March 1983, east of the Statue of Liberty, when the current is less than 0.1 knot.

- 10 minutes
- **13 minutes**
- 16 minutes
- 19 minutes

Note:

The duration of the first PM slack water on 3 March 1983, east of the Statue of Liberty, when the current is less than 0.1 knot, is 13 minutes, as determined by the 1983 Tidal Current Tables.

10. Determine the height of the tide at 2045 EST (ZD +5) at Augusta, ME, on 8 March 1983.

- 1.4 feet (0.5 meter)
- **1.9 feet (0.6 meter)**
- 2.3 feet (0.7 meter)
- 2.6 feet (0.8 meter)

Note:

The height of the tide at 2045 EST on 8 March 1983 in Augusta, ME, is determined by applying subordinate-station corrections to the reference-port tides and interpolating between low and high water heights using the tidal curve.
