Sailing Weather Module E (Sample. Case w77) - page 1 of 3. Steps 1-4.

Steps 1 - 4. Pre-readings and online activities done by each student **individually**.

1 Scenario / Narrative

It is a beautiful Spring day, so you decide to take 2 friends sailing with you in your sailboat. You depart Vancouver near Granville Island at 10 am to sail south to Sydney on Vancouver Island. When you are halfway across the Georgia Strait, you see a line of thunderstorms approaching from the northwest.

What should you do? Consider only the following options:

A) Continue sailing south to the destination.
B) Turn northwest (NW) directly toward the storm. After the storm passes, sail to Sydney.
C) Drop anchor. Drop all sails. Ride out the storm.
D) Return to the starting point.
E) Divert to the nearest safe haven.

To help you decide, access the Related Info linked below to better understand the situation and the weather that can affect the flight.

2 Access to Related Info

(Note: None of the links are active in this sample.)

Boat	Skipper Experience Level
Maps	Passengers & Cargo
Regulations & Limitations	Other Factors

3 Your Weather Queries

(Note: None of the links are active in this sample.)

Often, the first step to making a good decision is knowing what questions to ask regarding the weather.

Your assignment: What questions do YOU want to ask, to help you make the best decision?

Select the following quiz link to enter your questions: Sailing w77-Step 3.

For help on how to earn the most marks when you answer this question, see the Step-3 rubric.

4 Meteorological Concepts

Instructions: To help you make a wiser decision, please access each link below to learn how the weather works, and how it affects your activity.

- Start on row 1, and work left to right. After you have studied all the meteorological concepts on that row, do the quiz listed at the end of that row.
- Then do the same for row 2, etc.

Note, each quiz will take you out of this Module. When you finish the quiz for any row, you should return here to work on the next row. Do this in Canvas by clicking on "Modules", and selecting page-1 of the Module that you are currently working on.

Row	Topic (& learning goal)	Topic (& learning goal)	Quizzes Online
	(Note: None of the links are active in this sample.)		
1	Wind Waves (8a)	Currents (9d)	w77-Quiz 1
2	Breaking Waves (8c)	Swell (8d)	w77-Quiz 2
3	Thunderstorm Gust Fronts (4d)	Thunderstorm Lightning (4e)	w77-Quiz 3

After you have completed all the quizzes AND after the deadline for page 1 is reached, you will be given access to page 2 (steps 5 & 6) in this module.

Group Activities Using Slack and the VOTING APP

Click on each link below to get details of the specific weather situation for this particular scenario. Use this specific info, along with the general weather fundamentals you learned in Step 4, to help you and your team make a decision using the voting app in Step 6.

5 Data Available at Start of Trip

5a. Data Available at Start of Trip

Don't know how to interpret these data? Review the meteorological concepts back in Step 4.

(Note: None of the links are active in this sample.)

Canadian Marine Broadcast	Satellite Images
Tides	Radar Images
Currents	Your Own Observations

5b. Discuss your interpretation of these data with your group mates

To get the highest points in Step 6 below, you must make the right decision for this case study AND 4 or more of your teammates must select the same answer. Thus, effective interaction in your team is crucial. In real life, sometimes there is not a "perfect" decision, because of uncertainties in the weather. Your job is to work together, help each other to understand the underlying principles at play and scrutinize the information provided to make the most reasonable decision, given the uncertainty.

At this time, before beginning Step 6, you should begin deliberating with your Slack teammates.

(Notes. If this had been a real module, students would have been assigned to groups of 6 -10 prior to the start of this module. They would have also opened a Slack channel to communicate among their group mates.)

6 Your Recommendations

6a. What Should You Do?

As you continue to discuss with your Slack team, begin Step 6a by logging onto the Voting App. If you have not yet registered for the Voting App, follow the instructions available on the course homepage under Getting Started.

The best approach is to have Slack open side-by-side with the Voting App on your screen. You might also want to have an Internet tab open with the learning goals for this module displayed, so that your decision-making as a team is as informed and efficient as possible. Make sure that you know how the Voting App works for your team, so that you don't risk losing points. Once again, the place to go is Getting Started.

When you log into the Voting App, click on "open" next to the current module step 6a, where you will see the following choices:

A	Continue south to the destination.
B	Turn NW directly toward the storm. After it passes, sail to Sydney.
C	Drop anchor. Drop all sails. Ride out the storm.
D	Return to the starting point.
E	Divert to the nearest safe haven.

Don't forget to hit the "My choice is final" button in the Voting App, otherwise your vote isn't saved. Please note that the deadline for Steps 5-6 can be found in the course Schedule on our homepage.

6b. Quick Quiz

After you have completed Step 6a in the Voting App, please return to this page in Canvas and respond to the Step 6b quiz. The question on this quiz is where you indicate your decision-making process.

(After you have completed all the quizzes AND after the deadline for page 2 is reached, you will be given access to page 3: steps 7 - 10.)

Readings and online activities done by each student **individually**.

7 Actual Outcome

This scenario was based on a real accident reported by the authorities.

The skipper continued toward the destination with reefed sails to reduce the chance of capsizing, but as a result the forward speed decreased. The gust front from the thunderstorm squall line reached the boat before making port, causing the boat to capsize in the Georgia Strait. The boat sunk. The skipper and one passenger drowned. The second passenger, who was wearing a wet suit, survived and was rescued by the Coast Guard.

8 Related Stories and Links

(Note: None of the links are active in this sample.)

- The Hobart race
- Round the World Race - UBC skipper wins.
  https://www.youtube.com/watch?v=qTIPAcerK1w
- Weather tips for sailors

9 Thoughts by Experts

See: Marine Safety Victoria (Note: None of the links are active in this sample.)
http://transportsafety.vic.gov.au/maritime-safety/recreational-vessel-operators/sailing-boats

Transport Canada - Marine / weather warnings
https://www.tc.gc.ca/eng/marinesafety/tp-tp10038-73-wi-weather-warnings-922.htm

Environment & Climate Change Canada - Marine forecasts & warnings
https://weather.gc.ca/marine/index_e.html

10 Do-over / Reset

Reflect Critically on Your Experience

To conclude your journey through this case study, we ask you to reflect critically on your experience, having placed yourself in the shoes of a pilot, skier/snowboarder or sailor. Please go to quiz f13 -Step 10 and answer the following questions:

Question 1: State your decision in Step 6, and state whether or not you would change your vote, now that this module is finished.

Question 2: If you stated you would change your vote, provide two facts that you learned from the learning goals, and/or the outcome in Step 7, which informed you that you made the incorrect choice. If you stated you would NOT change your vote, provide two facts that support your original decision. HINT: You do NOT need to know the correct response to Step 6 to answer this question. Again, we want to know your thinking.

Question 3: Knowing the actual outcome in Step 7, what would you do differently that may have helped your decision-making?

Question 4: Which meteorological concept(s) did you find difficult to understand in this module? State the concept(s) and in which learning goal(s) they are found (e.g. Learning Goals 2a, 5b).

A Rubric (Links to an external site.)Links to an external site. is available to help you answer these questions and maximize the number of points you earn.

End of Sailing-Weather Module __(sample case w77)__