

III. Gather Data



- Click on the National Data Buoy Center main page that shows the world map.

Alaska

- Click on the box that covers Alaska.
- Find "46035" and click on the box.

A. Current data for Alaska

1. What is the latitude? _____ longitude? _____

- Scroll down to "Conditions" and answer the following questions.





2. What time was the most recent observation? _____

3. Current Meteorological Data:

Temperature _____

Sea level pressure _____

4. Wind and Sea State Data:

Sustained wind _____

Gust _____

Water temperature _____

5. Detailed Wave Data

Significant wave height _____

Average wave period _____

B. Recent Observations for Alaska

- Scroll down to and click on "Real Time Data."
- Click on "description" to the right of "Real Time Standard Meteorological Data."

1. What does "ATMP" mean? _____

2. What does "WTMP" mean? _____

- Click "Back" to return to the "46035 Real Time Data" site.
- Click on "Real Time Standard Meteorological Data."

Times in the chart are given in 24-hour format like military time. If the hour (hh) is given as 1 through 12, the times are a.m. and 12 o'clock is noon. If the hour is given as 13 through 23, subtract 12 from the time. You now have regular time p.m. If the hour is given as 00, it is midnight.





3. Record the air temperature (ATMP) and water temperature (WTMP) for the last two days at 1 a.m. and 1 p.m. Record the unit of measure with your answers.

Date _____	Air temp	WTMP
1 a.m.	_____	_____
1 p.m.	_____	_____

Date _____	Air temp	WTMP
1 a.m.	_____	_____
1 p.m.	_____	_____

4. What was the highest water temperature? _____
5. What was the lowest water temperature? _____
6. What is the difference between the lowest and highest water temperatures? _____



- Click "Back" to return to the world map on the NDBC main page.
- Click on the left box on the Gulf of Mexico/Texas Coast (not Florida.)

Mobile, Alabama

- Find station "42040" and click on the box.

C. Current Data for Mobile

1. What is the latitude? _____ longitude? _____
2. Time of last observation? _____





3. Current Meteorological Data:

Temperature _____

Sea level pressure _____

4. Wind and Sea State Data:

Sustained wind _____

Gust _____

Water temperature _____

5. Detailed Wave Data

Significant wave height _____

Average wave period _____



- Click "Back" to return to the NOAA Research "Ocean Temperatures" main page, or choose "Ocean Temperatures" from your Bookmarks or Favorites.

- Click "Forward" at the bottom of the page to go to "Gather Data.2".

D. Recent Observations for Mobile

- Scroll down to the bottom of the page and click on "Real Time Data."

1. Record the air temperature (ATMP) and water temperature (WTMP) for the last two days at 1 a.m. and 1 p.m. Record the unit of measure with your answers.

NOTE: all answers to questions 1, 2, 3, & 4 will vary daily.

Date _____

Air temp

WTMP

1 a.m.

1 p.m.

Date _____

Air temp

WTMP

1 a.m.

1 p.m.





2. What was the highest water temperature? _____

3. What was the lowest water temperature? _____

4. What is the difference between the lowest and highest water temperatures? _____

E. Differences in Latitude

1. How many degrees latitude apart are Alaska and the Gulf Coast?

Bering Sea Buoy	_____	latitude
Mobile Buoy	_____	latitude
	_____	difference

(When you borrow, you borrow 60 seconds.)

2. How is temperature affected by latitude?

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- Click "Back" to return to the NOAA Research "Ocean Temperatures" main page, or choose "Ocean Temperatures" from your Bookmarks or Favorites.
 - Click on "Application."

