Sea Level Change



**Make a line graph on the paper**

**provided using the data below:**



**Using your graph and the one provided above, answer the following questions in complete sentences on the back of this sheet or your own paper:**

1. In the last 148,000 years, when was the sea level lowest?
2. Aside from the present time, when was sea level highest?
3. Looking at the graph provided above, estimate the amount of sea level rise over the last 20 years (as sea level rise per year).
4. Climatologists at the USGS estimate that the sea level will rise 80 cm in the next century. More than 50% of the people in the U.S. live in coastal communities. What impact will sea level rise have on the U.S.?
5. Give two possible causes of sea level rise 120 thousand years ago.
6. Give two possible causes of current sea level rise.
7. You are a realtor specializing in beach front property in Florida. What pressure can you bring on your elected officials to protect your livelihood?

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| **Thousands of years ago** | **Sea Level (meters)****compared to today** |
| 0 | 0 |
| 7 | -24 |
| 15 | -124 |
| 20 | -95 |
| 33 | -75 |
| 38 | -78 |
| 40 | -80 |
| 41 | -77 |
| 45 | -80 |
| 48 | -82 |
| 50 | -60 |
| 54 | -75 |
| 58 | -57 |
| 61 | -76 |
| 70 | -73 |
| 75 | -70 |
| 79 | -58 |
| 85 | -35 |
| 90 | -38 |
| 92 | -35 |
| 95 | -37 |
| 100 | -26 |
| 105 | -55 |
| 110 | -53 |
| 115 | -5 |
| 120 | -2 |
| 125 | -60 |
| 130 | -52 |
| 140 | -132 |
| 142 | -127 |
| 144 | -132 |
| 146 | -125 |
| 148 | -140 |

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