

**Extent Of Ice Across the Arctic Basin (millions of Square Kilometers of Sea
Data for August 1979 – August 2007**

Year	Ice (in millions of sq. km)
1979	8.2
1980	8.1
1981	7.7
1982	8.3
1983	8.4
1984	7.9
1985	7.5
1986	8.1
1987	7.6
1988	8.0
1989	8.1
1990	6.8
1991	7.5
1992	8.0
1993	7.4
1994	7.7
1995	6.7
1996	8.3
1997	7.5
1998	7.6
1999	7.5
2000	7.4
2001	7.7
2002	6.6
2003	6.9
2004	6.8
2005	6.4
2006	6.6
2007	5.5

1. What kind of graph will you use to display the data?
2. How should you orient your graph paper? (Draw a sketch)
3. Write a meaningful title for your graph
4. What should be your label for the x-axis?
5. What should be your label for your y-axis?
6. What would be a logical scale for your y-axis?

Directions:

1. Draw your graph.
2. Draw a “best fit” line through your data.
3. Answer the following questions.
4. Attach the graph to this paper

Conclusions:

1. What is the general direction of your “best fit” line?
2. Make two estimates about the Arctic Basin Sea Ice after studying your data
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3. Does the graph support or not support the idea that the Earth is experiencing global warming? Explain your answer.
4. What other data would you want to see or collect to verify global warming?
5. What do scientists believe is/are the cause(s) of global warming?