AWESOME stories

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This image depicts an interesting iceberg phenomenon: Most of an iceberg's mass exists below the waterline. Image online, courtesy U.S. Coast Guard.

As *Titanic* made her way from Queenstown to New York City, she would steam through the North Atlantic. As she neared the Grand Banks, she would skirt a dangerous area called <u>Iceberg Alley</u>.

Where does this ice originate? Greenland, which is a kind of huge iceberg factory, has about 20 icebergproducing glaciers <u>along its coast</u>. Glaciers are formed from thousands of years of accumulating snow.

After the snow compacts, forming glacial ice, it begins to slowly move as a kind of viscous ice river. Sometimes pools of melting glacial ice form beautiful deep-blue glacial <u>cirques</u>.

The ice river continues its slow <u>trek to the ocean</u>. Huge portions of ice then "calve," or <u>break away</u> at the water's edge. We call those breakaway sections of former fresh-water glaciers "icebergs." <u>Watching</u> (and hearing) an iceberg calve is an amazing event.

Once icebergs have broken away, they can become part of "ice packs" which form during the North Atlantic's "ice season." The <u>ice season</u> typically lasts from February 15 through July 1st.

Some of the biggest <u>icebergs</u> in the world are <u>formed</u> in <u>Greenland</u>. <u>Ilulissat</u>, the most active glacier in the northern hemisphere, <u>sends</u> about twenty million tons of ice into the sea every day. Some <u>bergs</u> are 100 meters high and are still moving south in April.

Although these mountains of ice are buoyant, fully <u>7/8 of their mass is underwater</u>. A ship, steaming at top speed directly south of Iceberg Alley during the month of April, could reasonably be assured of a <u>potential</u> <u>disaster</u>.

See Alignments to State and Common Core standards for this story online at: <u>http://www.awesomestories.com/asset/AcademicAlignment/ICEBERGS-Fatal-Voyage-The-Titanic</u>

See Learning Tasks for this story online at: <u>http://www.awesomestories.com/asset/AcademicActivities/ICEBERGS-Fatal-Voyage-The-Titanic</u>

ICEBERGS



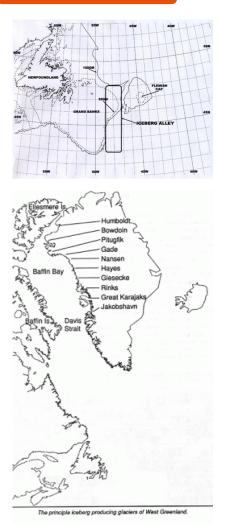
What Happens When "What You See" is NOT "What You Get?"

What makes an iceberg appear the way we see it in the Coast Guard's picture at the top of Chapter 5?

If 7/8 of an iceberg's mass is underwater, what precautions would *Titanic's* crew have to take to be sure they could avoid striking a berg while steaming through "Iceberg Alley?"

Did people understand the nature of icebergs in 1912? How would a ship's crew today handle a similar situation faced by *Titanic*'s captain and crew?

Media Stream



Iceberg Alley

Image online, courtesy thefreedictionary.com forum. View this asset at: <u>http://www.awesomestories.com/asset/view/Iceberg-Alley</u>

<u>The Coast of Greenland</u> Image online, courtesy the <u>U.S. Coast Guard</u> website. View this asset at: <u>http://www.awesomestories.com/asset/view/The-Coast-of-Greenland</u>





<u>Cirques</u> Image online, courtesy Wikimedia Commons. PD View this asset at: <u>http://www.awesomestories.com/asset/view/Cirques</u>

<u>Glacier Ice Movement</u> Image online, courtesy the sciencewithmorton wiki site. License: CC BY-SA 3.0.

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<u>Icebergs</u> Image online, courtesy Wikimedia Commons. PD View this asset at: <u>http://www.awesomestories.com/asset/view/Icebergs</u>

Iceberg Formation

Image online, courtesy the greenland.com website. View this asset at: <u>http://www.awesomestories.com/asset/view/Iceberg-Formation</u>



<u>Map of Greenland</u> Image online, courtesy Wikimedia Commons. PD View this asset at: <u>http://www.awesomestories.com/asset/view/Map-of-Greenland</u>



Calving Glacier

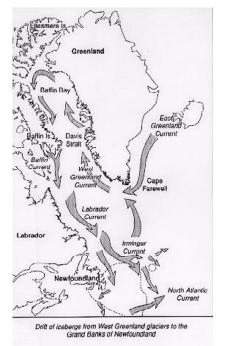
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The Ilulissat Glacier

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Large Bergs Image online, courtesy NOAA. View this asset at: <u>http://www.awesomestories.com/asset/view/Large-Bergs</u>

Map of Iceberg Movement

Image online, courtesy <u>cerfacs.fr</u> website. View this asset at: <u>http://www.awesomestories.com/asset/view/Map-of-Iceberg-Movement</u>



Icebergs - Glaciers Calving

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