

# Research

## Bergy Seltzer

September 01, 1980 / T. Neil Davis

Bergy seltzer is something you have heard but perhaps never heard about. One cynic I know has said that her life could have been fully and happily lived without ever learning about bergy seltzer. For those who do not feel that way, the whole story is laid out here.

Bergy seltzer is a continuous crackling, frying sound that has been heard by submariners and other sailors when close to melting icebergs. Another name for bergy seltzer is ice sizzle, also descriptive of the sound which is attributed to the breaking out of air bubbles from the melting ice.

Among the first to gain insight into bergy seltzer was Peter Scholander, a well-known northern scientist. Twenty years ago, he co-authored an article that described the pressures inside air bubbles locked into glacier ice. Measurements showed that the pressure could range from about one atmosphere (14 lbs. per square inch) to more than 20 atmospheres.

Glacier ice and some other types of ice can contain huge numbers of air bubbles, which give the ice a cloudy appearance. It seems possible that part of the noise called bergy seltzer can come from the bubbles breaking away the ice when melting causes each bubble to come in close contact with the ice surface. However, much of the noise is just the escape of the air under high pressure as the bubble breaks out. Anyhow, placement of hydrophores near melting icebergs enabled U.S. Navy scientists to conclude that



Climate change activists commemorated Okjökull's death with a plaque...

## Bergy Seltzer

A crackling or sizzling similar to that made by soft drinks or seltzer water but louder. The sound made as air bubbles formed at many atmospheres of pressure are released during the melting of glacier ice. Also called **Ice Sizzle**.



Northwest-looking photograph showing a part of the calving terminus of Holgate Glacier, Kenai mountains, Kenai Fjords National Park, Alaska. The dark, rocky terrain is the result of glacial erosion.

## ICE

exploring, learning, teaching

RESEARCH TEACHING OUTREACH PHOTOS PEOPLE ABOUT

## Rising Waters and Melting Ice

### LISTENING TO THE INTERPLAY BETWEEN A WARMING GLOBAL OCEAN AND RAPID GLACIER RETREATS

A project supported by the National Geographic Society and the National Science Foundation

Sound can teach us a lot about any environment - the city or the wilderness. We are using sound to understand the flow and fracture, the shrinking and growing of tidewater glaciers where they tumble into the ocean. The crashing of calving events, the sizzle of melting ice, the grumble of sliding ice, and the whoosh of mixing waters.

Listen to the ice....

Also check out another (new) project that we're really excited about:  
<http://exploreice.org/melting-ice>



A short film by Elliot Nash (age 12) during our 2016 expedition



# Research



Its appearance is due, in part, to climate change. The temperature in Iceland has risen. It's as simple as that. And the glaciers are being affected by that warming.

In fact, the Breiðamerkurjökull glacier, that feeds this lagoon with icebergs, has now melted far into the distance, whereas it once s

So how do glaciers move and disap

In a word, yes, it is natural.

In the years where more snow accumu forward scratching and pushing the lan melted faster than snow accumulated, (or tam). This is a normal process and (fjords) throughout the millennia. The s are retreating every single year without

iceland Diamond Beach

<https://guidetoiceland.is> › connect-with-locals › regina ▼

## Iceland Has Got a sparkling Ice Diamond Beach on Breiðame...

The real Icelandic name of the ice Diamond beach is Breiðamerkursandur or Fellsfjara - Eystri-Fellsfjara or Vestri-Fellsfjara depending on which side of the ...

<https://adventures.is> › Attractions ▼ 翻译此页

## The Diamond Beach in Iceland | Arctic Adventures

The Diamond Beach in Iceland is a black volcanic sand beach where icebergs from the glacier lagoon drift ashore. Truly a must-see when visiting Iceland.

<https://adventures.com> › Attractions › Beaches ▼ 翻译此页

## A Complete Guide to Diamond Beach in Iceland - Adventures ...

The name comes from the glistening icebergs which sit on the beach after they have floated around Jökulsárlón Glacier Lagoon. The icebergs first start off as ...

<https://twotaltravellers.com> › Blog ▼ 翻译此页

## Your Ultimate Guide to the Awesome Diamond Beach, Iceland

What Is Diamond Beach In Iceland? ... Dian the Breiðamerkurjökull glacial tongue into th

When I searched for Icelandic diamond beaches, all that came up were basically quick compliments on the beauty of the scenery or travel recommendations, and the same "positive comments" were also found on the iceberg bubble waters

为什么有种 看起来这水就很甜的感觉...

**Why does it feel like this water will taste sweet?**

8-24 17:00

834

好听哎 🧊 很舒服, 感觉适合做助眠的白噪音

**Sounds good and feels suitable as a sleep aid**

8-24 17:07

50

像油炸鸡块

**Sounds like fried chicken nuggets**

8-24 17:10

17

Only a very few people realise that the cause of all this 'beauty' is warming, which is a very sad thing

**Awesome Diamond Beach,**



# Storyboard

