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Why are NH beaches different colors?

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time I do research, I want to learn how animals survive under the ice during winter.

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Date	3/29/22
School	Newport Middle School, Newport, NH
Grade	7th
Detailed Observations	Over the summer I went to many beaches around NH and they all didn't have the same sand color and I wondered why.
Your Question	Why does NH beaches have different color sand
Sources	Movie Cultists , Science Line , The conversation ,

Aiden

Why are NH beaches different colors?

As I was enjoying a nice sunny day at the beach in July I looked at the sand and realized that the sand was a different color than the beach I went to a week earlier. It was a lighter color and this one was dark. This got me thinking about why the sand was different colors and maybe have to do with the geology of the area. Almost every time I went to the beach the sand was a different shade of sand than the beach beforehand. I realized that I wanted to do some research and this is what I found.

The reason some beaches are different is because of the minerals and the rock sediments that formed over time. (ScienceLine.ocsb.edu). Sand is formed when rock or other hard substances are broken down

by waves and as they are breaking off the little sediments stack up over time to provide the sand we know and love. Only a tenth of the minerals arrive at the shore. The strong minerals stay like olivine which is a strong black color and the weaker ones wash away so this is how we mainly get our color in the sand. ([Science Line.ucsb.edu](http://ScienceLine.ucsb.edu))

Although it may seem like the sand always stays in one place it doesn't. Sand moves around all the time from the beach to the beach or goes to the ocean floor which may contribute to the different colors of sand on beaches. The sand can move around freely in the ocean and can have a small chance of going on to a different beach and continuing the cycle. (Theconversation.com)

Certain vitamins and bacteria can contribute to the color. Also Iron makes orange sand and tons of iron after it rusts gives it that red color. Manganese Garnet is almost like a crystal and can be found in quartz and is most commonly found in sedimentary rocks. Manganese Garnet which is usually on the hill when erosion happens on the said hill the manganese garnet washes down onto the beach it then contributes its purple properties into the sand making it purple. There is also micro bacteria called foraminifera which has a pink shell and as everything in the sand combines with the shell-like calcium and other shells the sand turns pink. As of now, there are zero blue sand beaches. (MovieCultists.com)

In conclusion, this is why beaches have different colored sand. I learned a lot in this project and I feel like you and I now have a better understanding of why beaches have different colors of sand and different geology and maybe different species causing the color. Although I did a lot of research on this project, I would like to know a few more things about this subject. I would like to know why there are no blue beaches since there are tons of pink, orange, brown, and red beaches so this has me thinking is there not a material that has the staining capability to turn sand blue.