

Rosie's Discoveries

This IceCube extension will deploy 7 new strings in the middle of the current array and will have a total of 760 new sensors. Strings will go even deeper than before, down to 2600 meters. And the plan is to drill the 7 holes in one season. There's a second extension of IceCube planned, called IceCube-Gen 2. This one is to build a 10-times-larger detector and to look for very high energy neutrinos from outer space. I'm amazed, but if there's a team that can build it, it's the IceCubers.

The drill is the most critical piece of equipment for this new project. It will use near boiling water to efficiently make holes in which to put the new sensors.

What IceCube calls low-energy neutrinos are in fact high-energy for other detectors. These are neutrinos created in Earth's atmosphere that can be used to study the properties of neutrinos themselves.

These are all light sensors that can detect the blue light produced by neutrino and other particle interactions in the ice.

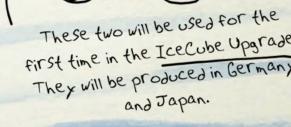


This is the one used in the current Icecube.



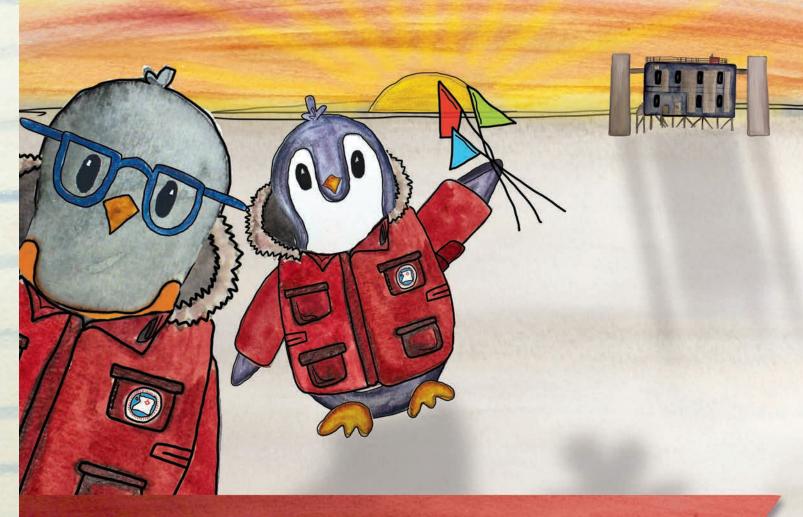


first time in the IceCube Upgrade. They will be produced in Germany and Japan.

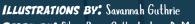








ADVENTURE 6: NEW EXCITEMENT ON THE HORIZON



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