November starts the summer season at the South Pole. Many people arrive, including new IceCube winterovers, who begin their yearlong job of taking care of IceCube.

**What is it? Let’s find out!**

**SEEMS LIKE SO MUCH FUN! CAN YOU TRAIN US?!**

**I need to check on the detector. Something is wrong.**

**What? Power in the ice?**

**This weather looks pretty rough. Is it safe?**

**OK, first ask: Make your way to the IceCube.**

**Hey, Nia! Getting up already?**

**Whoa. That’s a lot of red.**

**Nope! See, these are the sensors, and the cables go up and into the IceCube through the towers!**

**Nia, how did you learn all this!?**

**Rosie and Gibbs head to the station exit, excited for their first real winterover task.**

Winterovers have to be ready for any and all problems that might come their way.

**The penguins follow Nia to an office in hopes of learning what is wrong with IceCube.**

IceCube Live

**Hey! Where are the detectors? Do you know where it is?**

**Hey! Check in the detector with things’s world.**

**What is it? It’s to the right.**

**The spaces in the world look confusing. This tells us where to look for the issue. Look for a power supply problem.**

**The flags make the journey so much easier.**

**Hey! Nia! What is this thing?**

**What this is full of equipment?**

**Nia, the wind is picking up and visibility is decreasing. Move fast!**

**After we switch the supply, it should be ready to go. Hurry!**

**Nia! Is it working? Is it working?!**

**All back to green! You make excellent winterovers! Now, hurry back and be safe!**
Rosie’s Discoveries

IceCube Lane
There is a lot of information coming from the IceCube detector every minute. IceCube Lane is the program that collects and displays that information. It is a big help to underwaterers at the Pole and IceCubers as they try to see what is happening under the ice.

Detector String
Power and information is carried from the ICL to the in-ice sensors by strings. The strings are in a box at the end hole, 80 sensors each. They go to deep as 2450 m into the ice.

Summer Season
Summer at the Pole is one long day, lasting 6 months. There is only one sun rise and set a year! When the sun sets, IceCubers are hard at work while the weather is manageable. When the sun sets, winter comes and the conditions are too harsh for anyone to travel, or be outside for very long.

Equipment Room
The ICL is full of equipment. For each string, there is a computer box that contains the power supply and other technical parts needed for the detector to run. I was happy we found the box we were looking for before the weather got bad.

Adventures with
Rosie & Gibbs
the lost penguins

Adventure 5: IceCube Winterovers to the Rescue
January 2019