

Chapter 7134

Charles nodded and introduced them to the four of them,

"The main building in front of us is the research station's living and daily indoor work area."

"All indoor spaces are equipped with electric underfloor heating."

"And there are 24-hour heat exchange, fresh air, and humidification equipment."

"Plus a molecular sieve oxygen production system,"

"So it can basically maintain constant temperature, humidity, and oxygen."

After speaking, he pointed to several arched buildings on the left and said,

"Our generator sets are in the first equipment compartment on the left."

"There are a total of five diesel generator sets."

"Three main and two backup, plus an energy storage system to ensure an uninterrupted power supply."

"The second equipment compartment contains our ice-melting equipment and water storage equipment."

"Using the temperature and electricity of the diesel generator sets,"

"The stored glacial ice is slowly melted, purified, and stored in water tanks, then transported to various rooms through underground pipes."

Charlie asked him,

"Are all these devices automatically operating?"

"Yes,"

Charles said. "All the equipment will run automatically after the mode is set."

"The diesel generator set will adjust its power according to the electrical load."

"And the same goes for the melting water equipment."

"It stores a large amount of glacial ice."

"At least a thousand cubic meters, plus the underground reservoir,"

"Which also has nearly a hundred cubic meters."

Charlie nodded.

More than a thousand cubic meters of water should be enough for the four of them to use for a winter.

Charles continued, "Our oil storage tanks are all built underground around the main building."

"With ample fire and explosion prevention measures."

"They can store up to 500 tons of high-grade diesel fuel."

"Besides the generator sets, all the vehicles are also diesel-powered."

Charlie asked him, "How do we refuel these vehicles?"

Charles led Charlie to the central parking lot.

In the center of the parking lot, there were four refueling machines specially developed for polar regions.

While demonstrating how to refuel the vehicles, Charles explained,

"The fuel here is ultra-low-temperature diesel fuel mixed with aviation kerosene."

"It can flow normally even at minus 70 degrees Celsius."

"All the vehicles have also been modified for polar environments."

"Apart from needing a little extra time to preheat,"

"They are not much different from inland vehicles in terms of operation."

Charlie specifically asked him about the operation of the enclosed snowmobile.

After understanding everything,

He asked Charles to take everyone inside the research station to learn more.

Although the outside temperature was below -50 degrees Celsius, the interior of the main building of the research station maintained a comfortable 26 degrees Celsius.

The building covered approximately 4,000 square meters and contained over 20 rooms,

Ranging from four-person to single rooms,

Similar to those on the research vessel.

Each room was equipped with a portable toilet and shower.

Wastewater was automatically recycled,

And sludge and solid waste were automatically collected and transported back to their home country for processing on supply ships.

The restaurant and kitchen had ample food reserves,

Not enough to keep the station fully operational for the entire winter,

But fortunately, only Maria among Charlie's group of four needed to eat.

The others could abstain from food, so the supplies were quite plentiful.

Charles also explained to Charlie that, in addition to the necessary equipment and supplies,

There was a television, a telephone, and satellite internet.

All communications were via satellite, with efficiency comparable to that onshore.

In case of any emergency, Charlie could contact the outside world immediately,

And others could also contact him instantly.

However, this network coverage is limited to the research station area.

When venturing outside for fieldwork, the vehicles are equipped with Musk's Starlink system,

Providing signal coverage across the entire Antarctic continent at high speed,

Exceeding 100 megabits per second.

Charlie was quite surprised by Starlink's coverage and speed.

He had never encountered such a product before and was surprised that such a comprehensive network service could be guaranteed even in the polar regions.

Even with the first phase of the satellite communication system, he had Abren built and completed and operationalized,

It could only ensure basic communication outside the two major polar regions.

To achieve such seamless, high-speed network coverage,

The number of satellites would need to be increased exponentially.

While Charlie was mastering the operation of the research station's equipment and vehicles,

Fuel trucks were constantly shuttling between the research vessel and the vessel.

They spent a full thirty hours refueling and replenishing other necessary supplies.

After refueling, they packed and loaded large amounts of garbage onto trucks.

Three days had passed by the time the last truck was fully loaded, and the transport was completed.

During these three days, Charlie witnessed two auroras,

But because the others were still working,

He did not leave the research station.

As the supply team and the three remaining personnel finished their work and prepared to return,

Charlie watched their vehicles depart from outside the research station.

After leaving, everyone completely forgot about Charlie's existence.

Subconsciously, they considered the research station to be in its unmanned operation phase,

And the next visit wouldn't come until the Antarctic summer in the latter half of the year.

After these people left, only the four of them remained within a radius of several hundred kilometers around Charlie's research station.

Charlie joked that this might be the loneliest place in the world,

But interestingly, none of them felt lonely.

On the contrary, all four felt this was a rare opportunity in life,

A chance to completely escape the hustle and bustle of the world.

Just as the four had settled into their new home,

A Japanese research vessel set sail from Ushuaia.

On the vast sea, a fishing boat bobbed gently.

Brovnen sat cross-legged in the cabin, meditating with his eyes closed.

At this moment, Siyan ran in, excitedly saying,

"Elder, the research vessel you've been waiting for has arrived!"