



TV

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UN IN ACTION

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CROZET ISLANDS: NUCLEAR TESTING STATION

VIDEO

HELICOPTER

CROZET ISLANDS

SEA LION

WATER/PENGUINS

RESEARCH VESSEL

VESSEL PLUNGING INTO WATER

TEAM OF EXPERTS

JERRY STANLEY ON-CAM

AUDIO

NARRATION:

NATSOT - HELICOPTER

NARRATION

The French administered Crozet Islands - a sub-Antarctic archipelago in the southern Indian ocean is one of the last remaining untouched places on earth. (10)

NATSOT – WAVES – PENGUINS

NATSOT – WATER - CHATTER

Today a technical team is on a mission to prepare the installation of CTBTO's – the Comprehensive Nuclear Test Ban Treaty Organization's hydro acoustic station – part of an International Monitoring System. (14)

JERRY STANLEY: (In English) M

“The International Monitoring system uses four different technologies for detecting nuclear

CROZET ISLANDS

explosions. Potentially detecting nuclear explosions. These technologies are underwater hydro acoustic stations. There are six of these underwater listening stations and we are installing one at the Crozet Islands.”(21)

JERRY POINTING

AERIAL OF VESSEL

NATSOT – HELICOPTER

NARRATION

AERIAL – MARION DUFRESNE
ANIMATION

Installing hydrophones deep in the ocean at one of the most remote places on Earth is a complex engineering feat. (7)

SOUNDWAVE
JERRY POINTING

Used to monitor sounds within the depths of the ocean, these hydrophones send data through tens of kilometers of cables to a receiving station. // From there the data is transmitted to the CTBTO back in Vienna, Austria. (16)

NATSOT – HELICOPTER

SATELLITE DISH

The project requires high-tech equipment which was flown in so that work could begin. (5)

NATSOT – HELICOPTER

SCIENTIFIC BASE

Jerry and a team of survey experts stay behind to undertake offshore deep-water surveys.(6)

JERRY STANLEY ON-CAM
POINTING AT SCREEN

JERRY STANLEY: (In English) M

“We have cables going out to the north of the island 40 to 50 kilometers and the ship was able to run along the track where we’re going to lay

CUTAWAYS

the cable. We need to understand the bottom profile because our cables are going to be on the bottom for over 20 years and we need to be sure that we will put them in places where they're not going to be abraded or damaged by the bottom of the sea." (23)

TIMELAPSE OF CLOUDS

NATSOT - RAIN

CROZET ISLAND

The hard work pays off. // On shore, the receiving station is now complete, // and connection to Vienna has been established. (11)

OFFICER TYPING

RAPHAEL SHEFFIELD: (In English) M

MARIO ZAMPOLLI

"The monitoring system // isn't just applicable to the total interdiction of nuclear testing. We have a lot of whales in the Antarctic and sub Antarctic regions. The hydrophones will pick those up and this gives us really valuable materials that enable us to do long term studies. They will also pick up seismic movements and for Tsunami alerts. Basically the CTBTO network supplies a lot of information as well." (28)

ANTENNA/VIENNA

RAPHAEL SHEFFIELD

ON-CAM

CUTAWAY TO ORCA WHALES

NATSOT – HELICOPTER

VESSEL

Meanwhile at the Marion Dufresne, a 3D map of the underwater landscape is almost finished. (6)

NARRATION

MARIO AND TEAM ENTER

HELICOPTER/WAVE BYE

A vital tool, which will help the team to determine exactly where to install the hydrophones and lay the cables when they

return later in the year. (9)

CU 3D MAP
UNDERWATER LANDSCAPE

JERRY STANLEY: (In English) M

"The mission has been a great success but we have one more major job and that is to come back in December to install the hydro acoustic station." (7)

CROZET ISLANDS
OCEAN
WATER

NARRATION

At this stage Crozet will be part of the network of stations listening out for nuclear explosions across the oceans of the world. (8)

And, as a consequence, help to make the world a safer place... (6)

UN LOGO

This report was produced by Krzysztof Kolasinski for the United Nations.