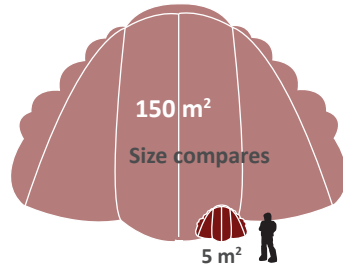
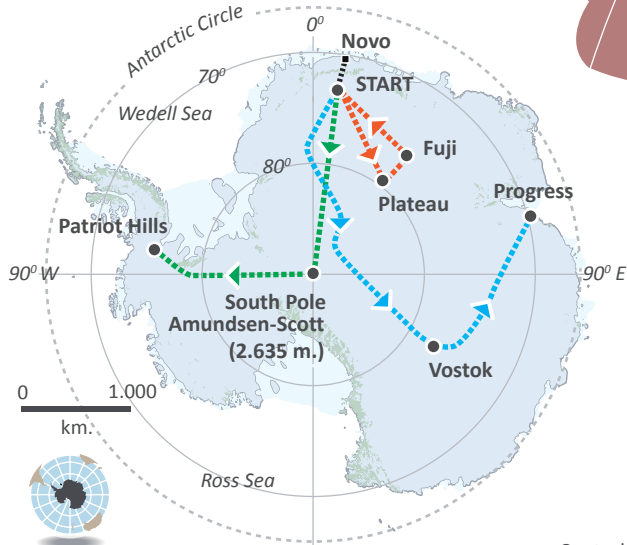


# THE WINDSLED

## 1st wind powered vehicle in the world to cross Antarctica

Antarctic expeditions:

- ..... 2005/06 Windsled Transantartic Expedition
- ..... 2011/12 Windsled Wind Powered Acciona Antarctica
- ..... 2018/19 Antarctica Unexplored Dome Fuji



## THE KITE

Is together with the wind, the windsled propellant. They are equipped with twelve kites. The biggest one has an area of 150 square meters (it is used for slow winds). The smallest has a measure of 5 square meters (it is used for strong winds).

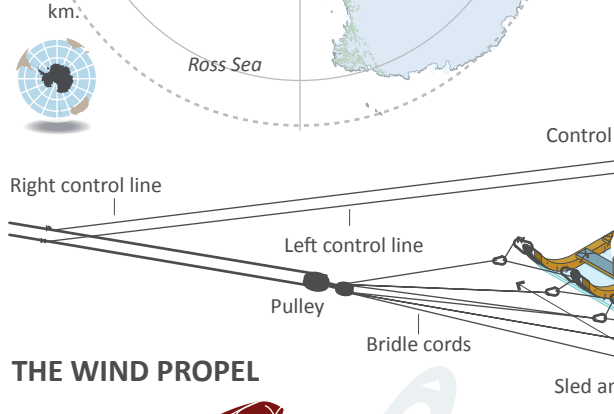
## LOAD MODULES

The food, kites, tools and spare parts, etc...are divided in two Sleds. Covered with canvas. And above them there are solar panels that charge the batteries used for recharging the electronic equipment (scientific equipment, dataloggers, phones, computers, cameras, etc...).

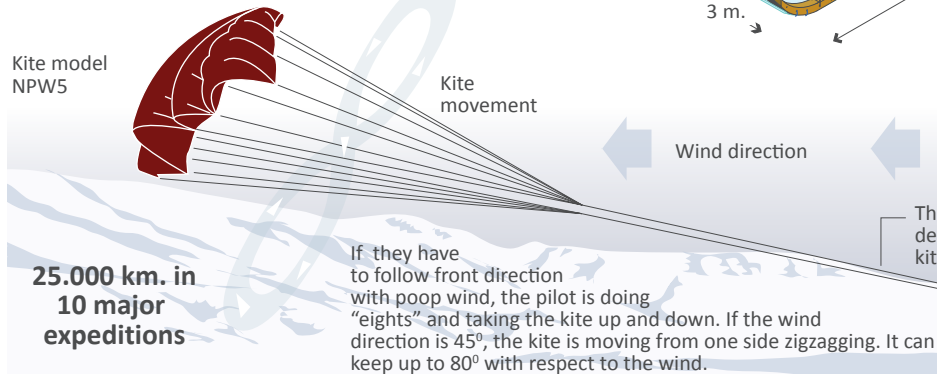
## LOCOMOTIVE MODULE

It is the traction part of the sled. The kite is attached to it. Three members of the team are responsible for flying/running the kite in shifts of 10 hours.

Instrument for collecting air samples



## THE WIND PROPEL

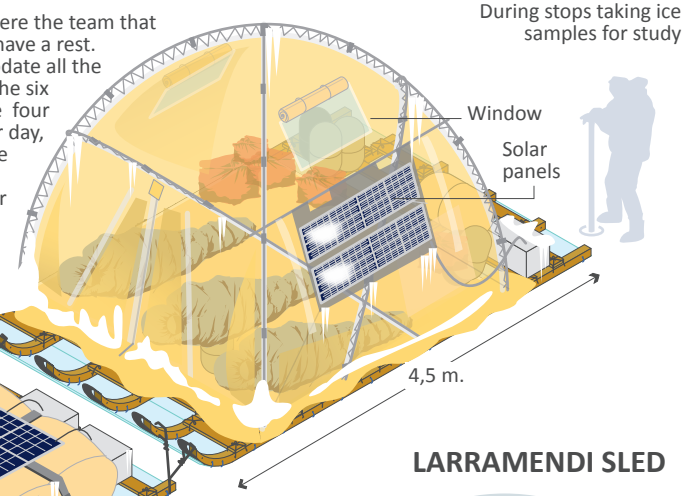


25.000 km. in 10 major expeditions

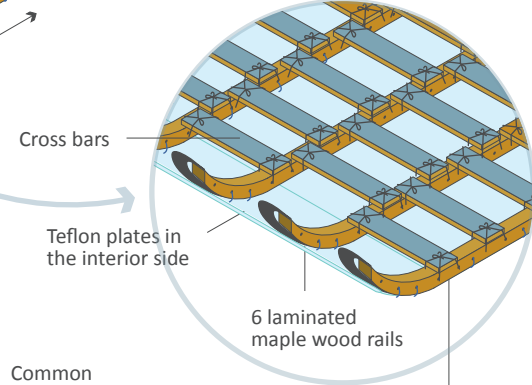
The length of the lines are around, 150, 300 and 500 meters, depending on the strength and direction of the high wind. All the kites have Kevlar reinforcement.

## LIVING SPACE MODULE

This is the unit where the team that is not driving can have a rest. This can accommodate all the team members. The six crew members are four hours together per day, to have lunch, have arrest and take air and ice samples for study.

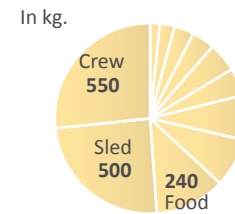


## LARRAMENDI SLED



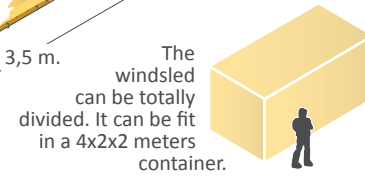
The rails are sewn by the cross bars. Thus, the sled get a flexibility and exceptional resistance which allows it to adapt to the ice irregularities.

## LOAD DISTRIBUTION



- 175 Common
- 150 Personal
- 100 Boxes
- 100 Fuel
- 80 Communications
- 70 Kites
- 50 Energy
- 30 Science

TOTAL: 2.045 kg.



The maximum wind speed with which you can navigate is 50 km/h.

Average speed: 8 to 15 km./h.