Study of Relationships Between Misalignments, Descent Speed and the Shape of the Parachutes

Kurashiki Amaki High School

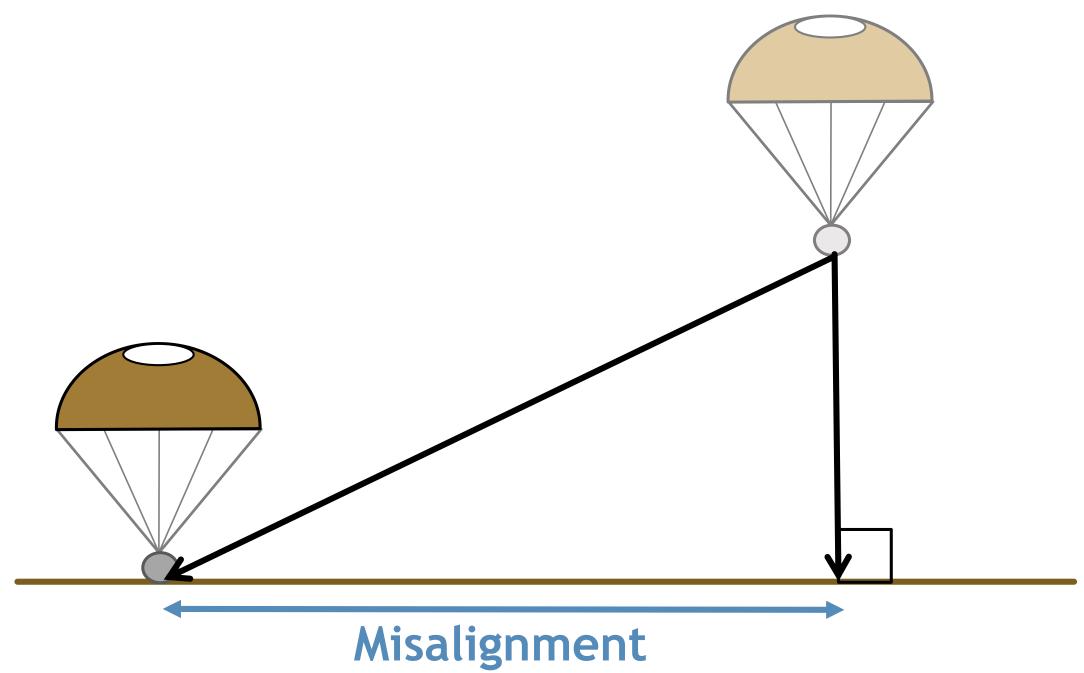




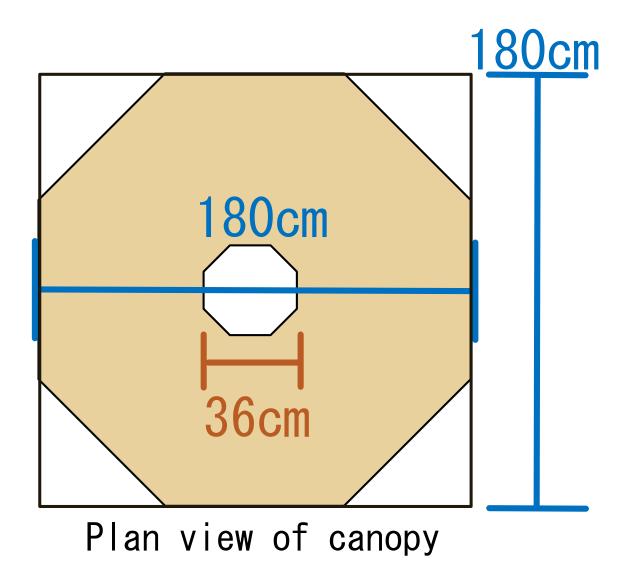


We want to deliver supplies to people suffering from hunger!



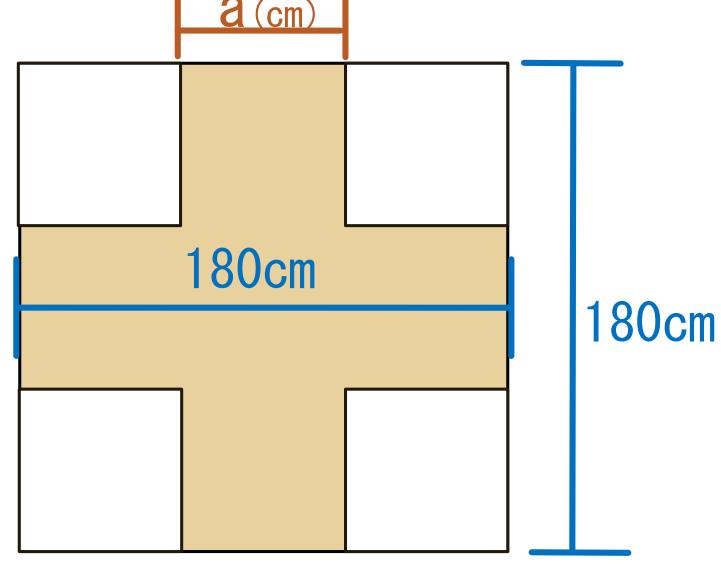


Octagon Parachute



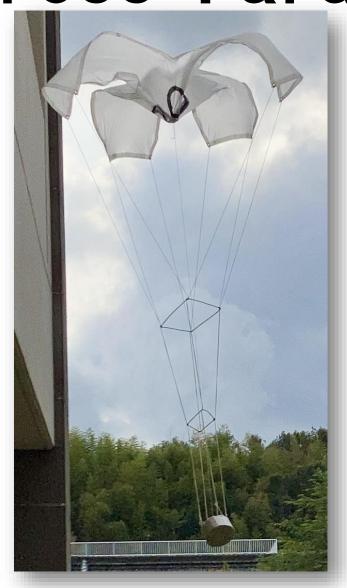


Cross Parachute



Plan view of canopy

Cross Parachute







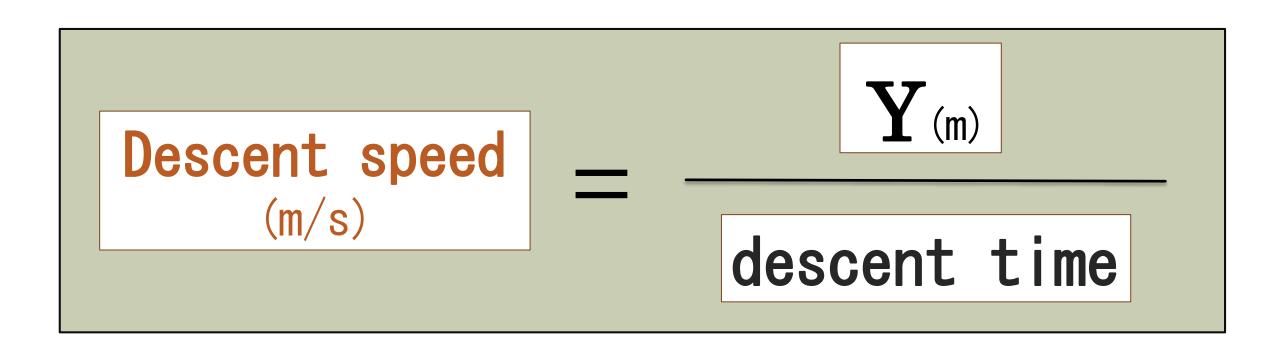
40cm

80cm

160cm

Method **Octagon** Cross Third floor 8.73m 8. 73m Ground Cross's Octagon's Misalignment Misalignment

How to derive..



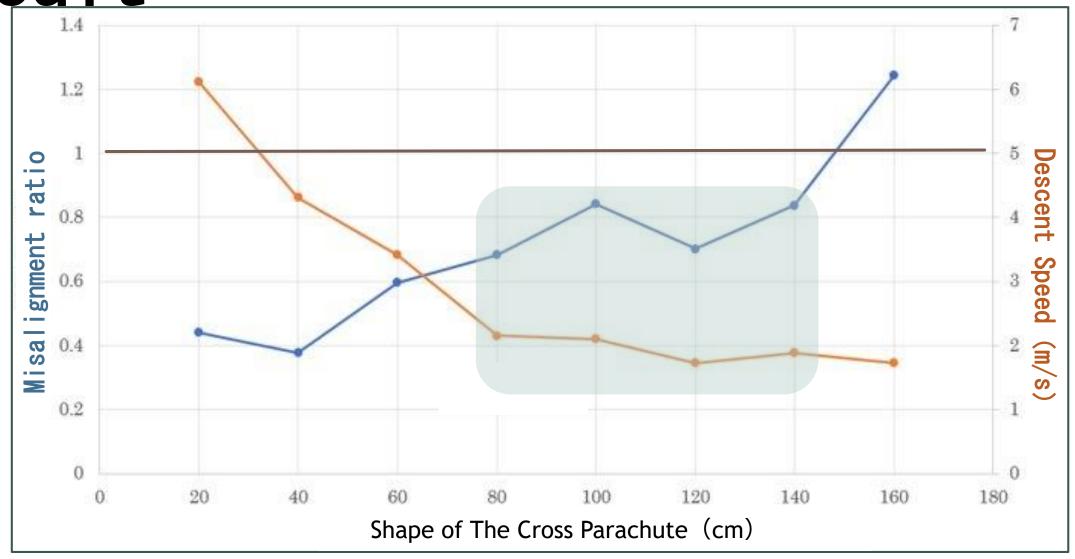
How to derive..

Misalignment ratio

Misalignment of cross parachute per second (m/s)

Misalignment of octogon parachute per second (m/s)

Result



Graph3 Relationships between Misalignments, Descent speed and The Shape of Parachutes

Conclusion and the Future Goals

The parachutes, sides of 80cm~140cm were the best.

The future goal is to make new parachute and help people.