

# FLIGHT DATA

## PAGE 1: NAVIGATION



### OVERVIEW

Maximum Altitude:

21650 ± 10 metres

Flight Time:

03:11:02

Mean Ascent Velocity:

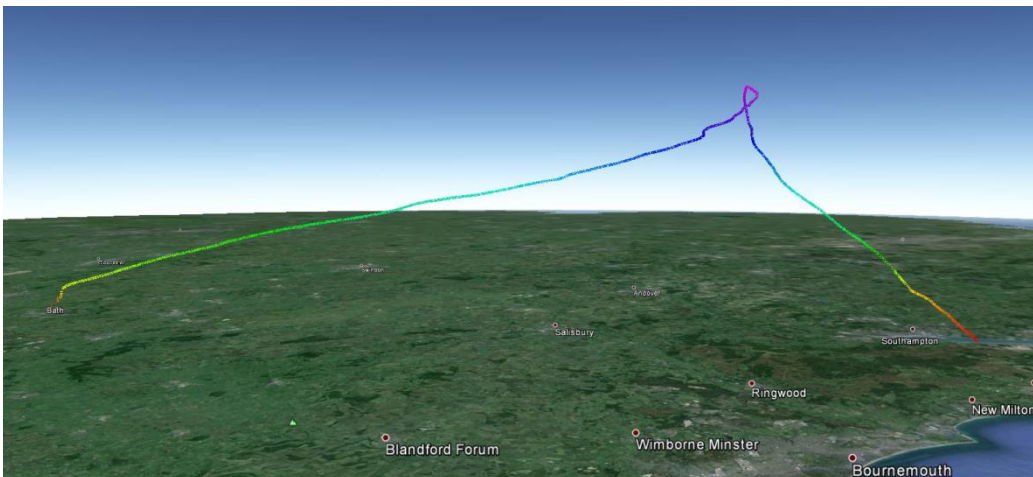
2.49 m s<sup>-1</sup>

Mean Descent Velocity:

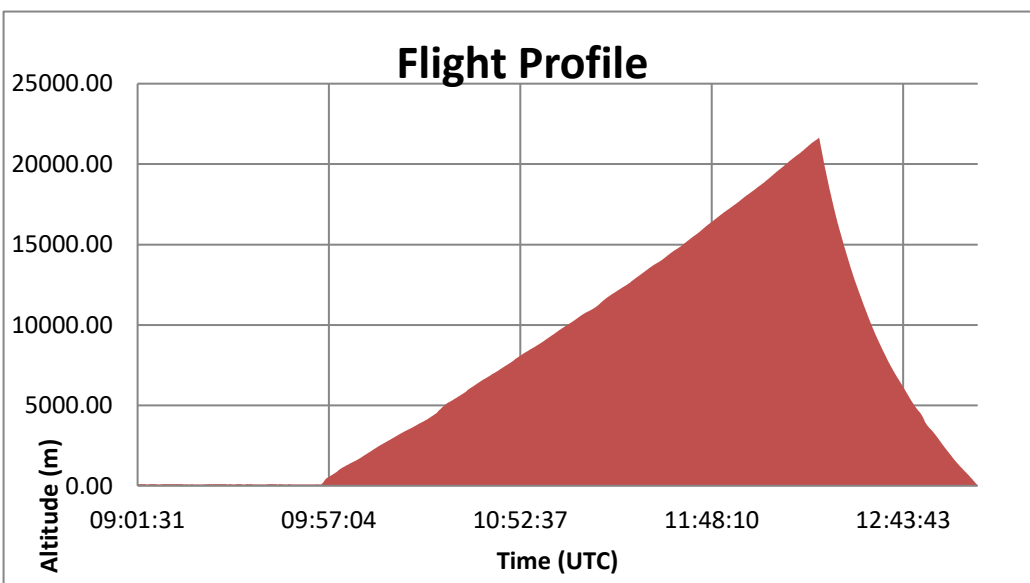
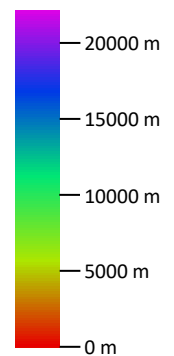
-7.82 m s<sup>-1</sup>

Max Descent Velocity:

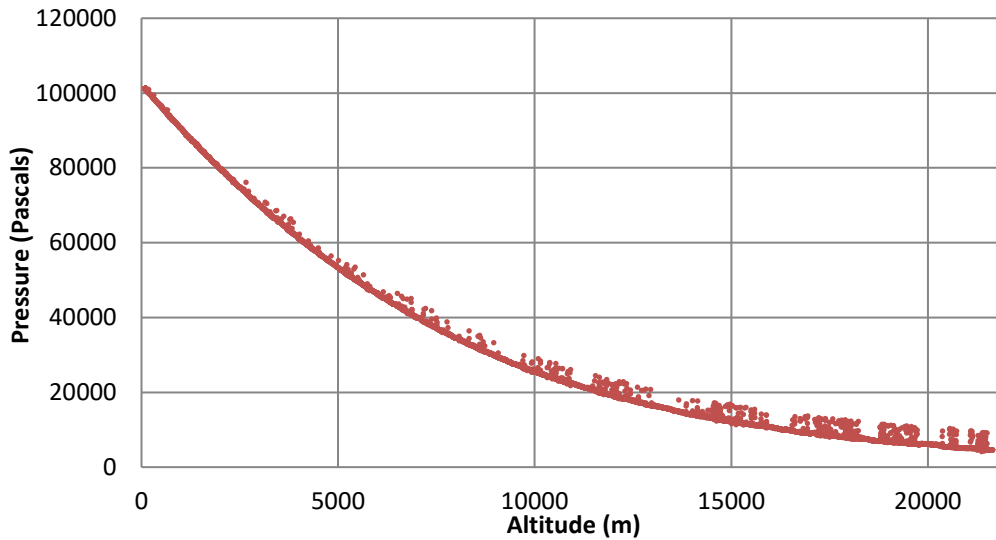
-20.64 m s<sup>-1</sup>



### Key



## Atmospheric Pressure Measurements



### INSTRUMENTATION

#### Atmospheric Pressure:

- BMP180 I2C Barometer
- Rated to minimum pressure of 30000 Pa

#### Temperature:

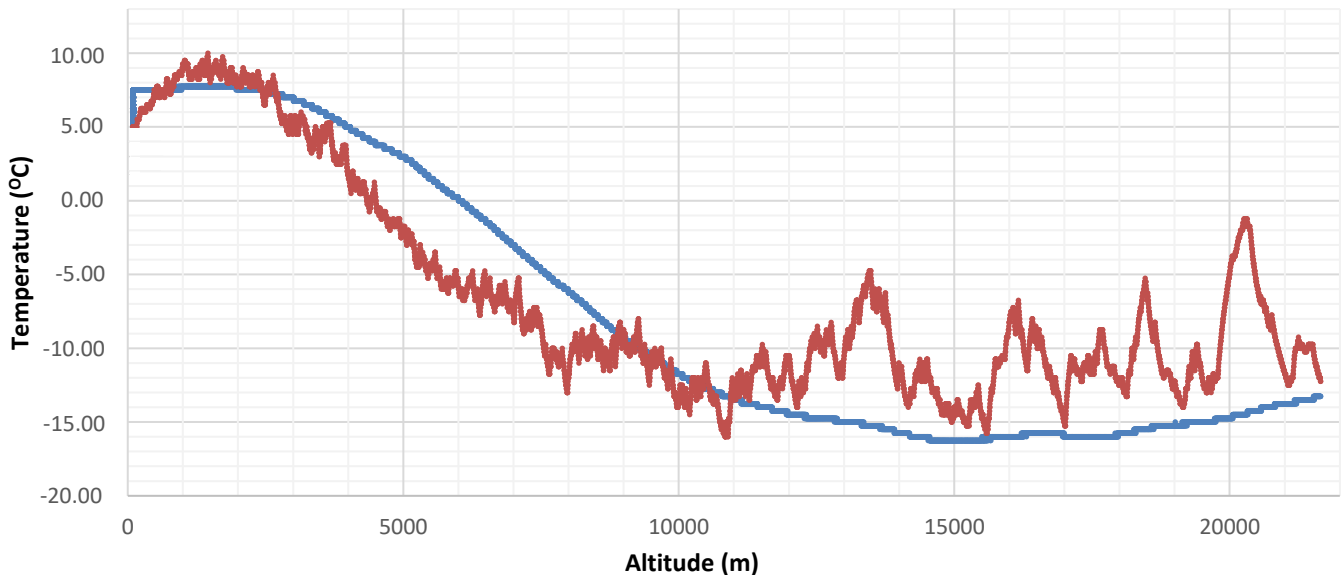
- DS18B20 1-wire digital thermometer
- Set to 10-bit resolution

#### Geiger Counter:

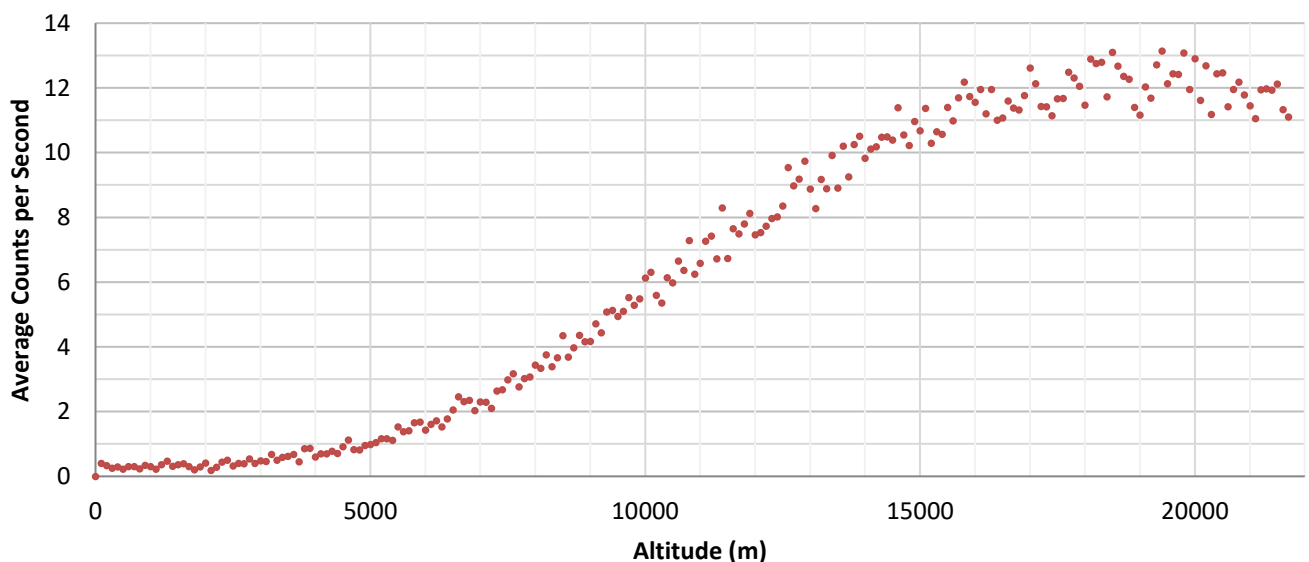
- Event/Interrupt system
- SMB-20 Geiger-Müller Tube

## Temperature Variation by Altitude

• Internal Temperature • External Temperature



## Atmospheric interception of solar radiation



Based on 100m altitude segments