



Télécom SudParis



T'SPACE

2nd French CanSat Competition Results of T'SPACE : Chrysaor & Pegasus

25th August 2010 – DGA EM



Missions of Chrysaor and Pegasus



■ Chrysaor :

- Main mission : send pressure and temperature
- Free mission : send humidity, CO₂ and CO

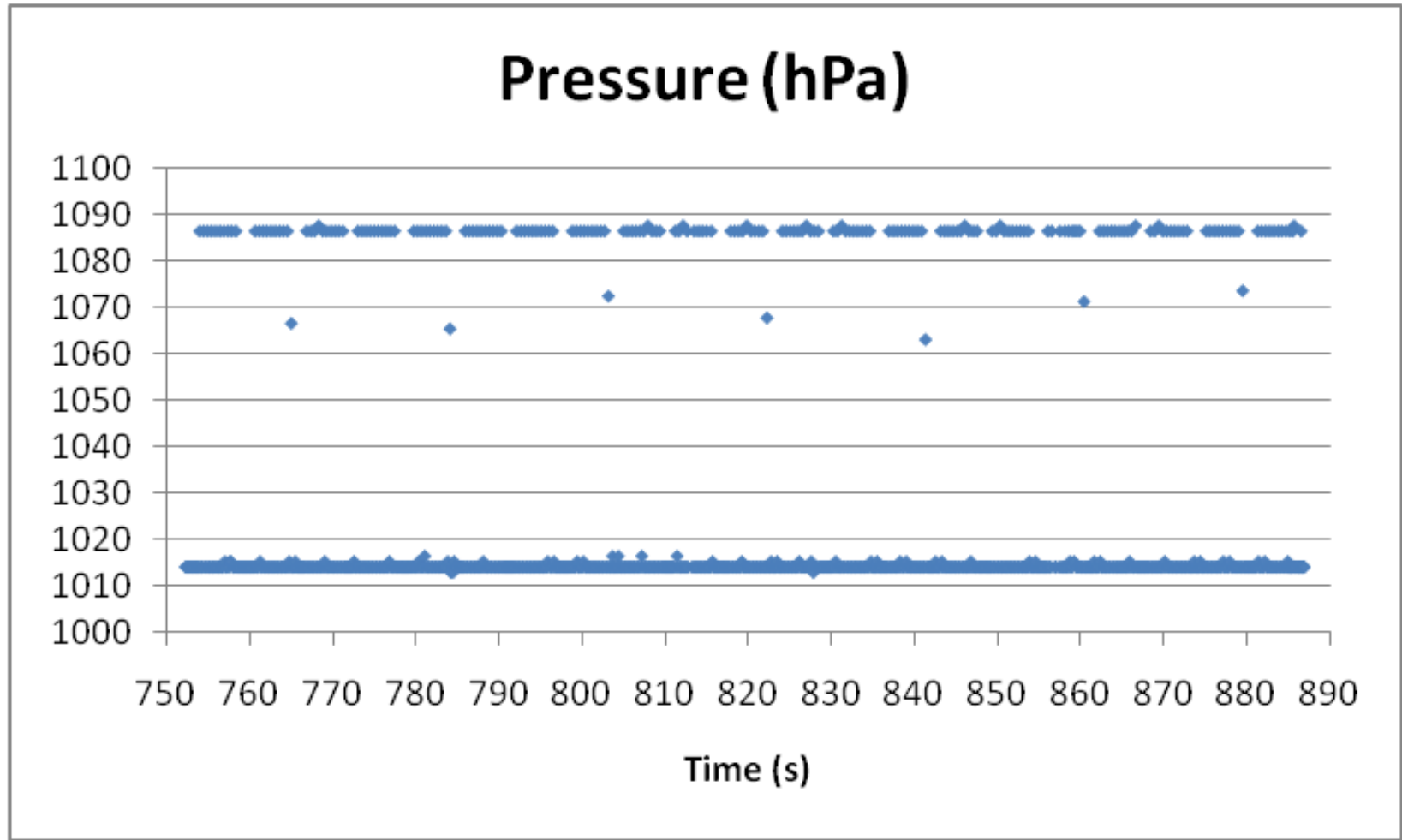
■ Pegasus :

- Main mission : send pressure, temperature, humidity, CO₂ and CO
- Take a video during the flight

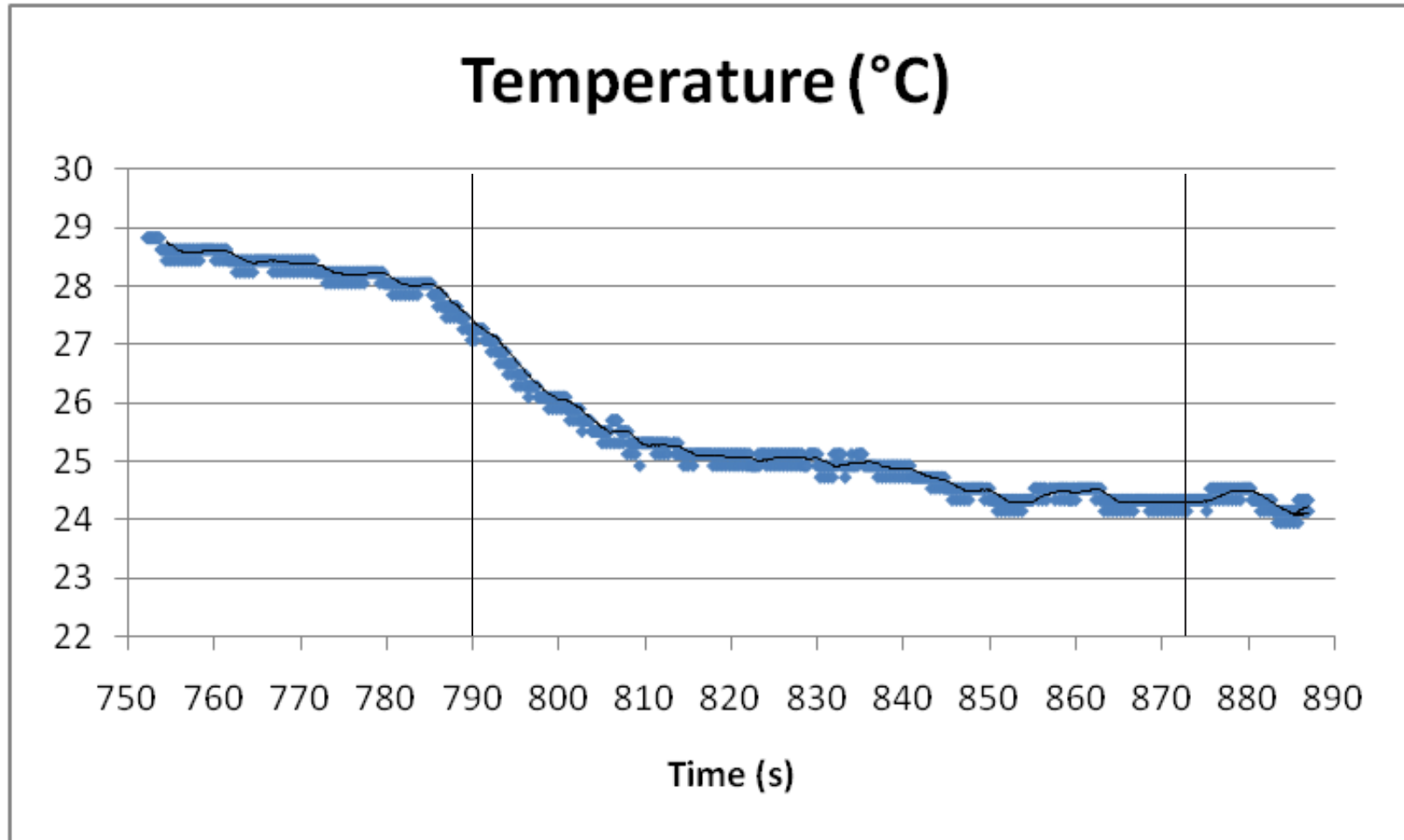
1 – Chrysaor



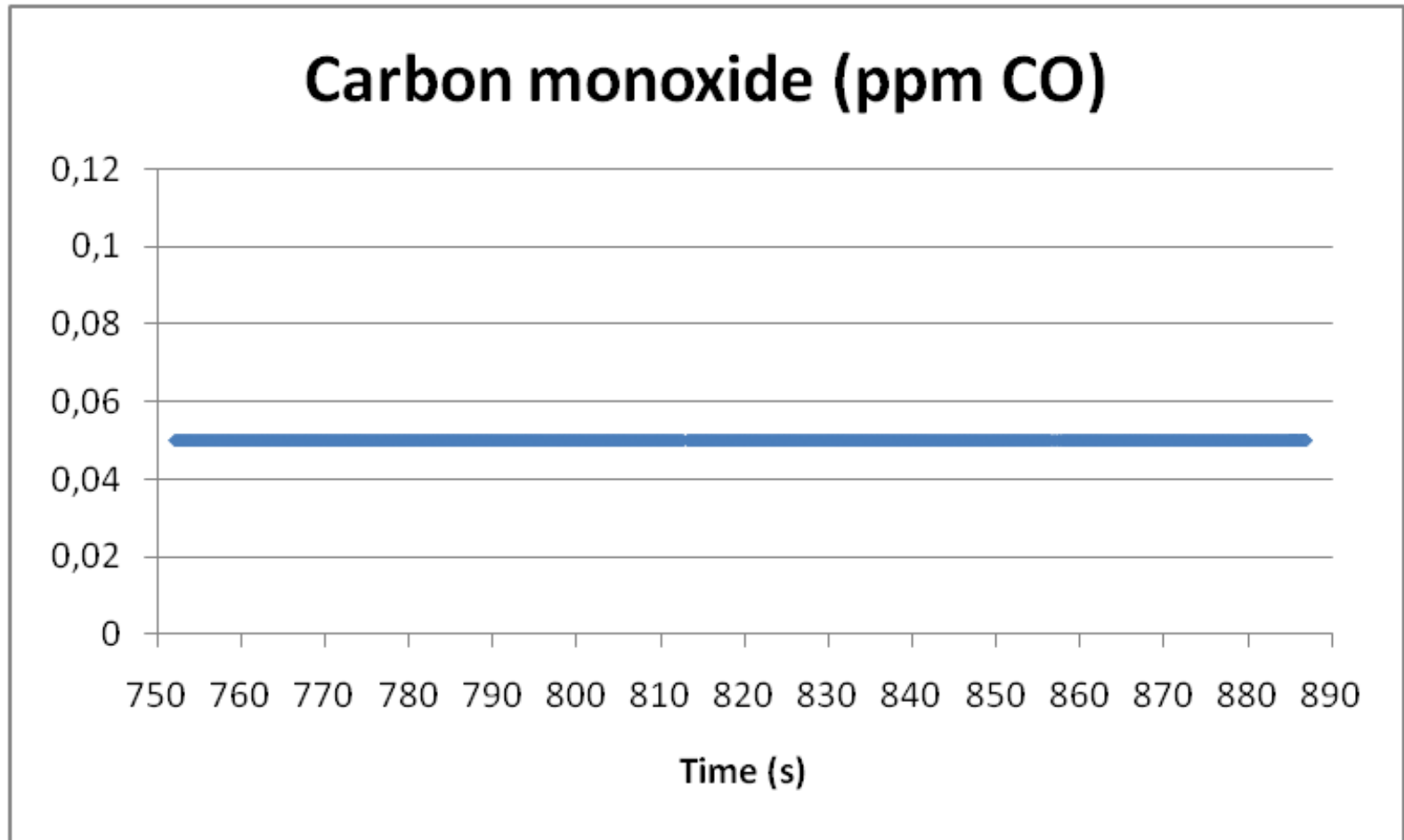
Chrysaor : pressure



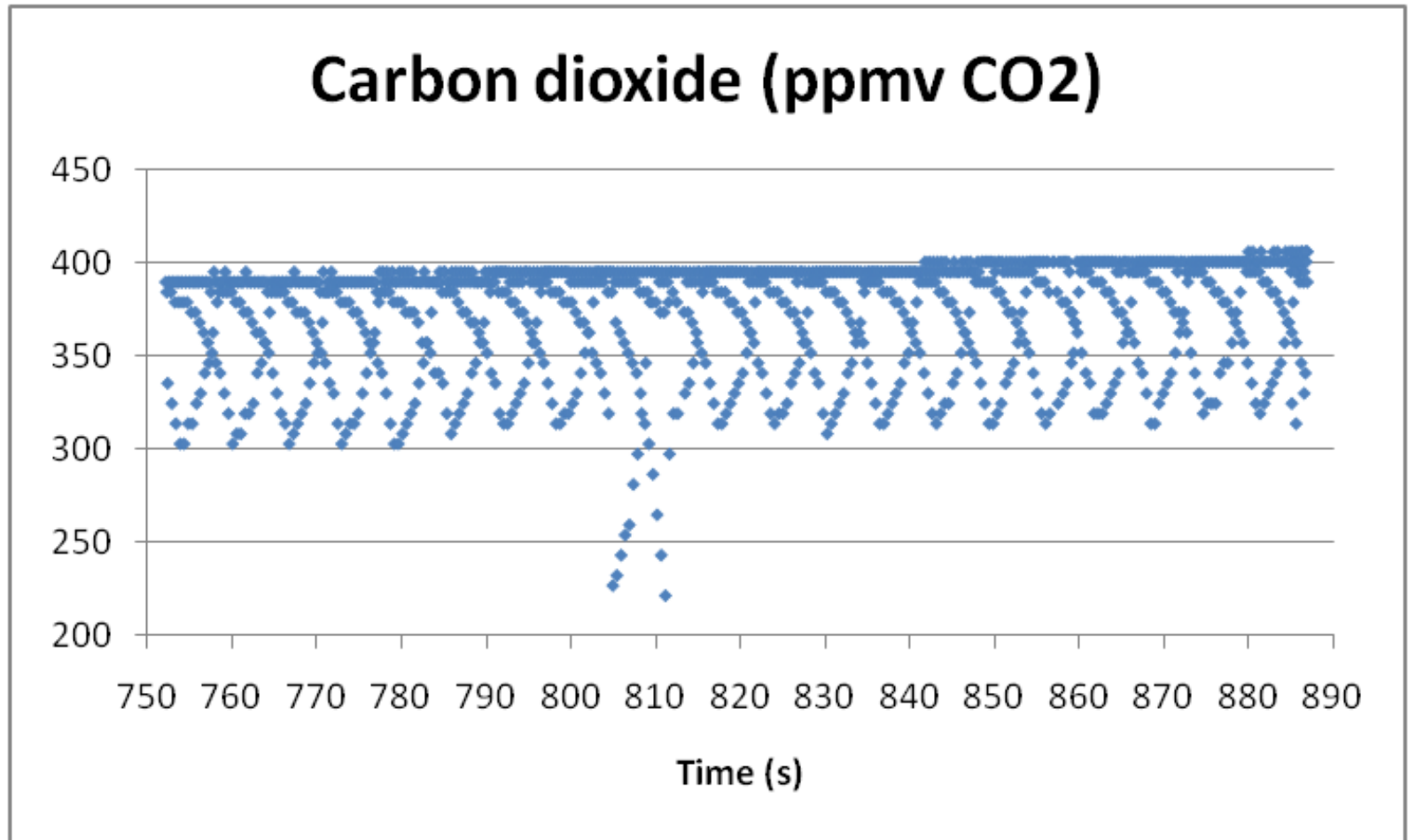
Chrysaor : temperature



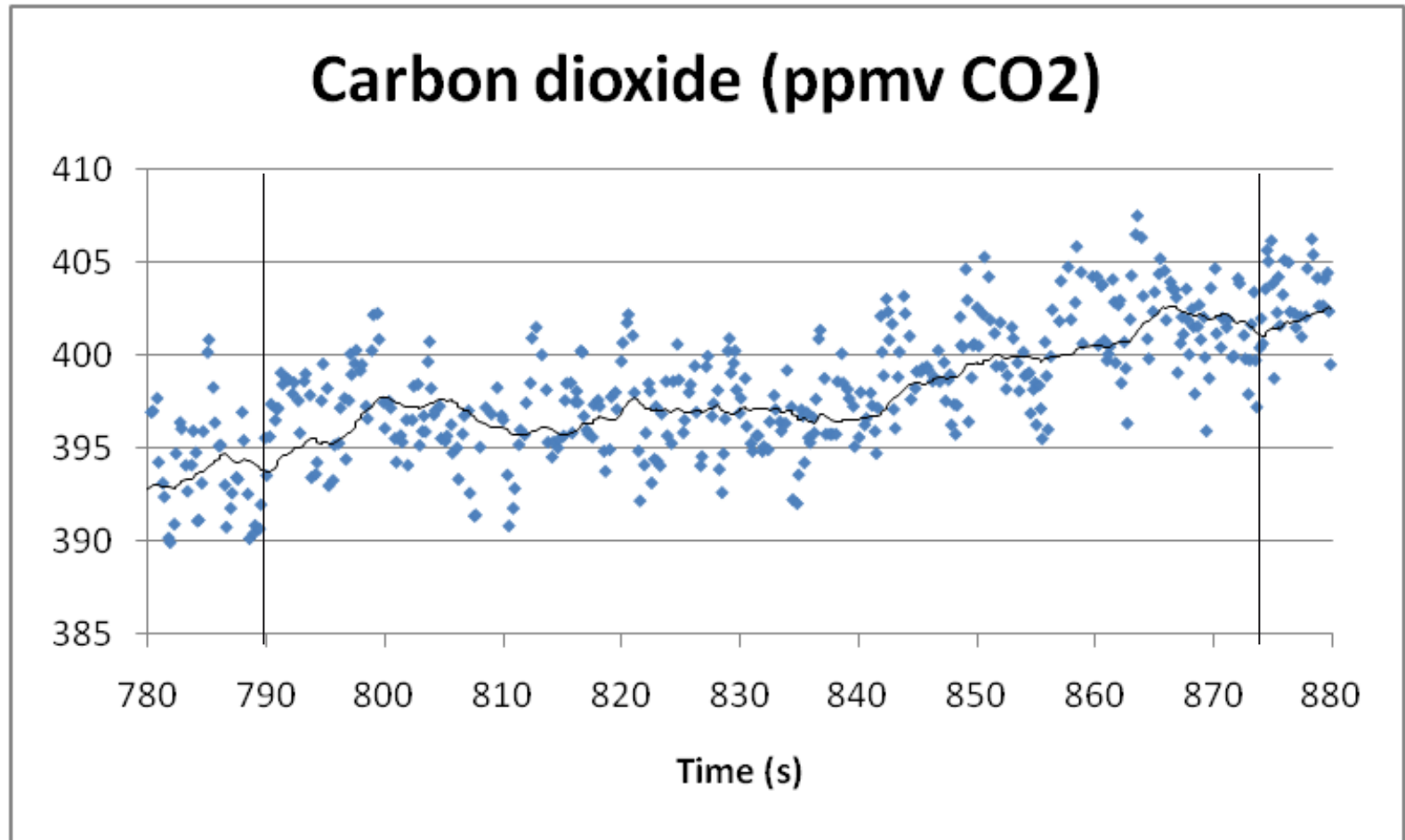
Chrysaor : carbon monoxide



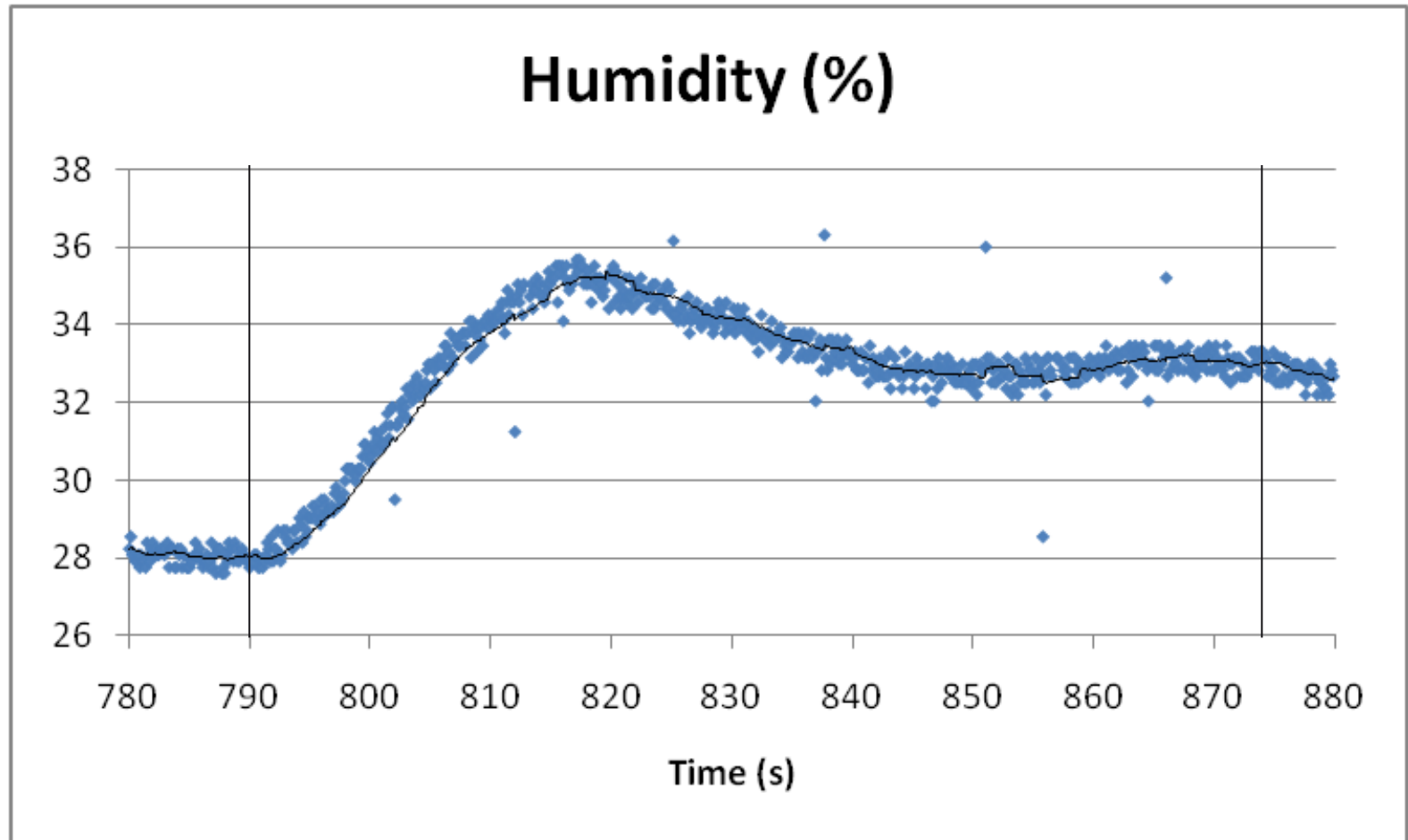
Chrysaor : carbon dioxide



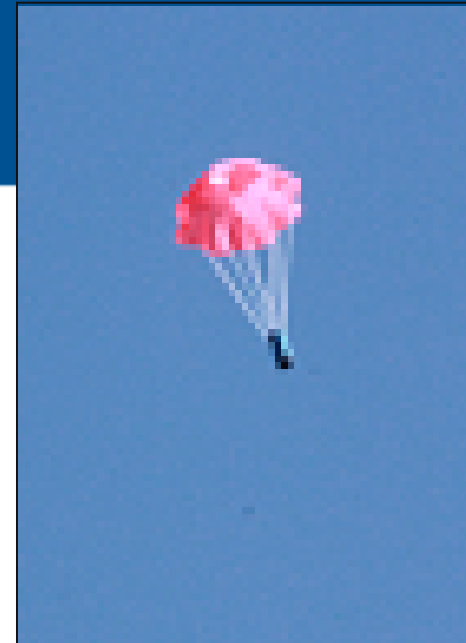
Chrysaor : carbon dioxide



Chrysaor : humidity

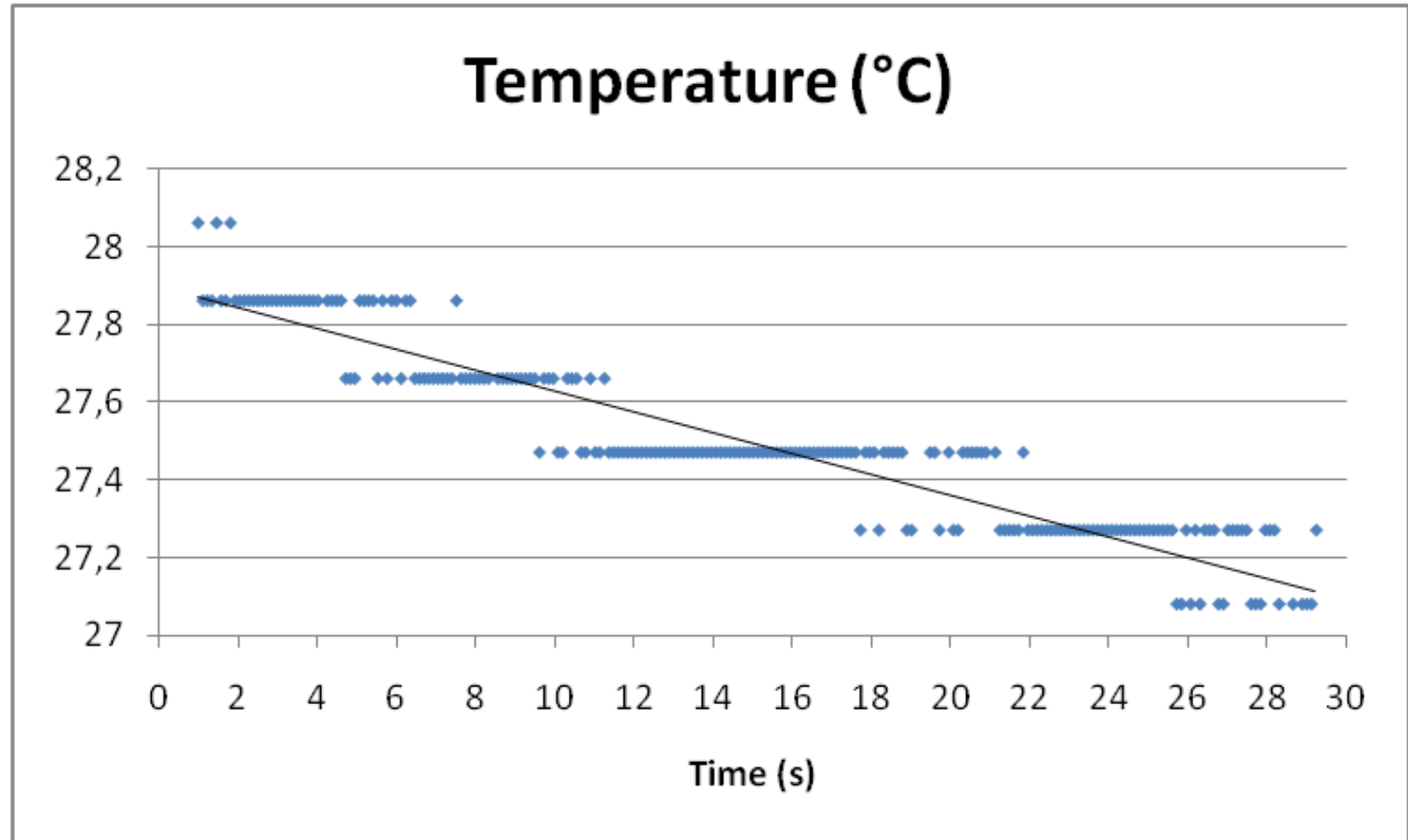


2 – Pegasus

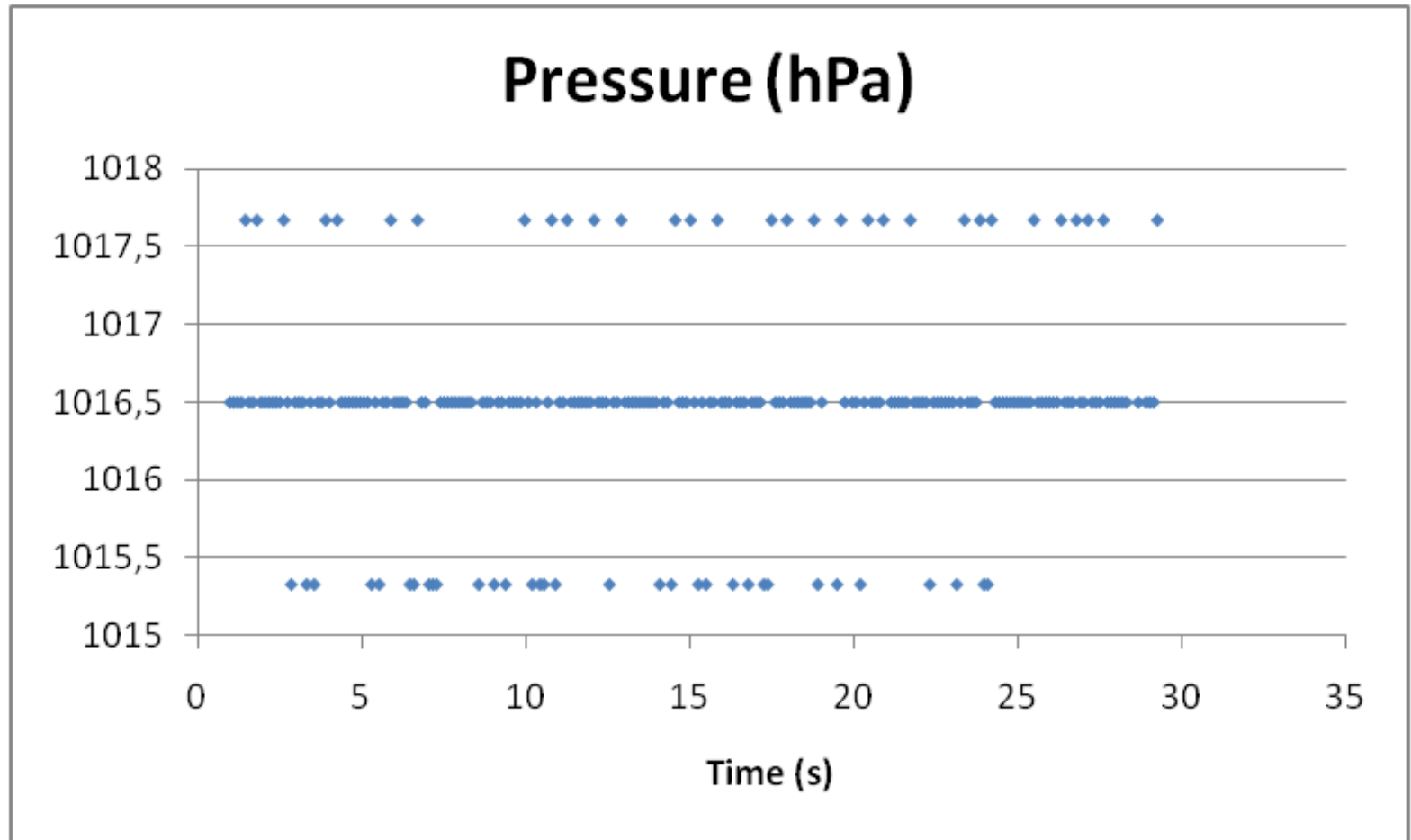


- **We unplugged the CO sensor**
- **CO₂ sensor sent only zeroes**

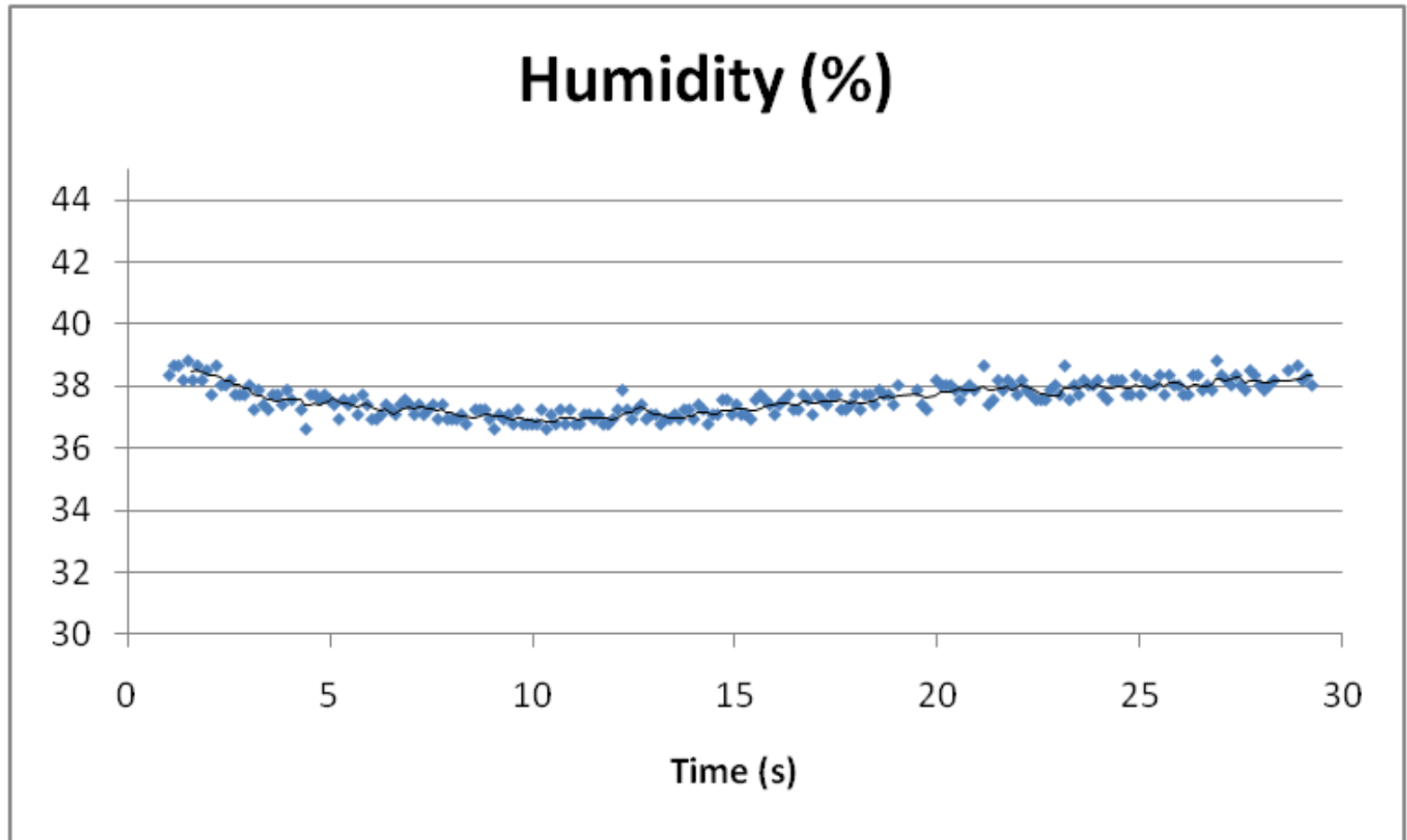
Pegasus : temperature



Pegasus : pressure



Pegasus : humidity



What didn't work...

- **Chrysaor :**
 - **Pressure sensor**
 - **Flight speed : 1,2 m/s**

- **Pegasus :**
 - **Pressure sensor**
 - **CO sensor**
 - **CO₂ sensor**
 - **camera**



What did work !

■ Chrysaor :

- Temperature, CO, CO₂, humidity sensors
- Structure, telemetry, parachute

■ Pegasus :

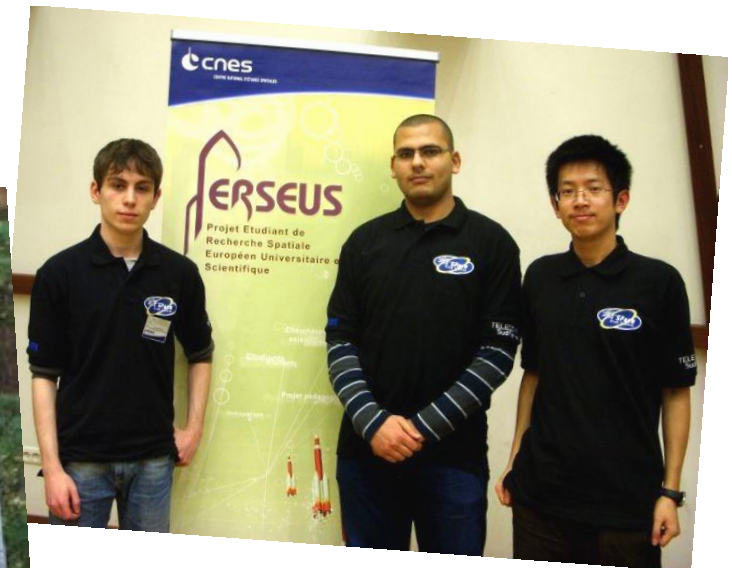
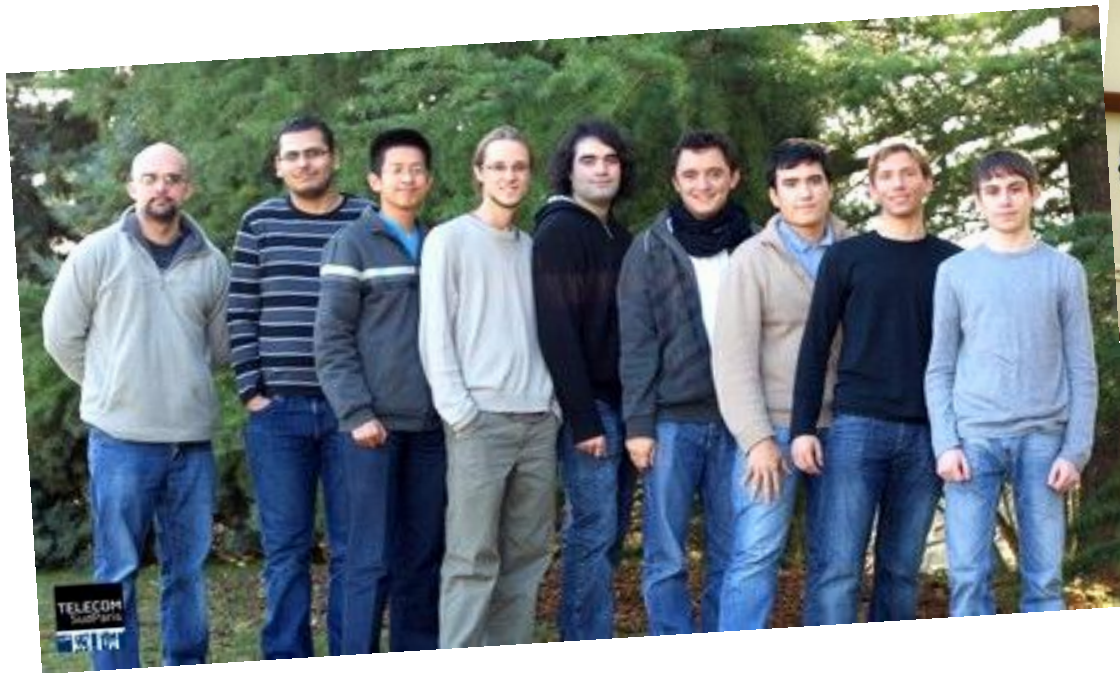
- Temperature and humidity sensors
- Structure, telemetry, parachute

Technical findings and issues



- Our CanSats weren't heavy enough
- International Class is the next challenge
- Room has to be managed better
- Another mission : trajectography

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... and then ?

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