



C'Space 2010 – Biscarrosse, France

BUDSTAR TEAM

MORPHEUS DEBRIEFING



ISAE

institut supérieur de l'aéronautique et de l'espace

FLIGHT DEBRIEFING

1. Atmospheric probing debriefing
2. Flight path modeling debriefing
3. Come Back debriefing



ATMOSPHERIQUE PROBING

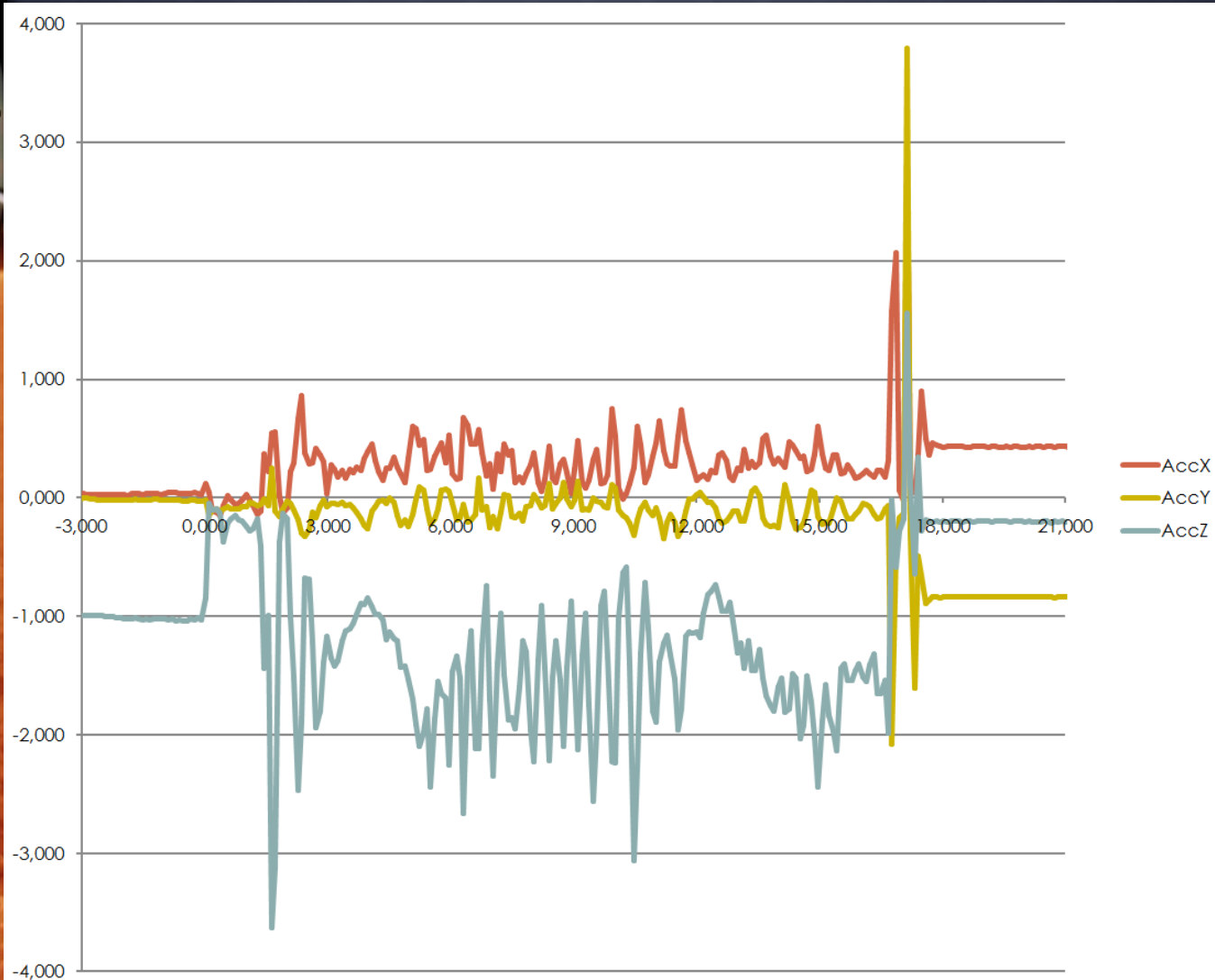
- ◉ Data transmission
 - Reception failure (7.3s)
 - No distance problem
 - No antenna directivity problem
 - Interferences
- ◉ Received data
 - Reliable pressure (4.9m/s)
 - Reliable temperature only on ground before launch (22.5°C)



MODÉLISATION DU VOL

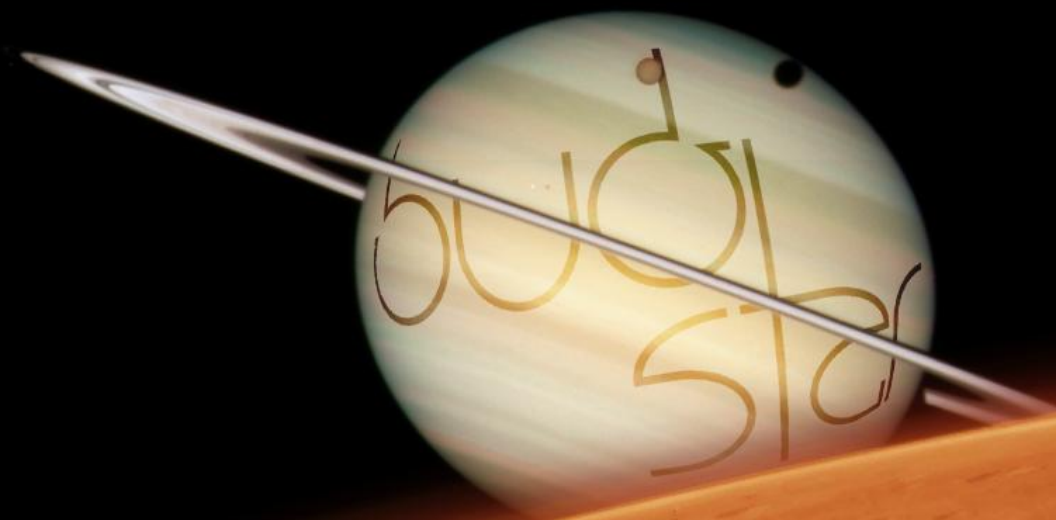
- ◉ Kalman Filter
 - Out of modelling domain
 - Complex movements during flight
- ◉ Impossible to integrate
 - Compass data missing

INERTIAL MEASUREMENT UNIT





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