

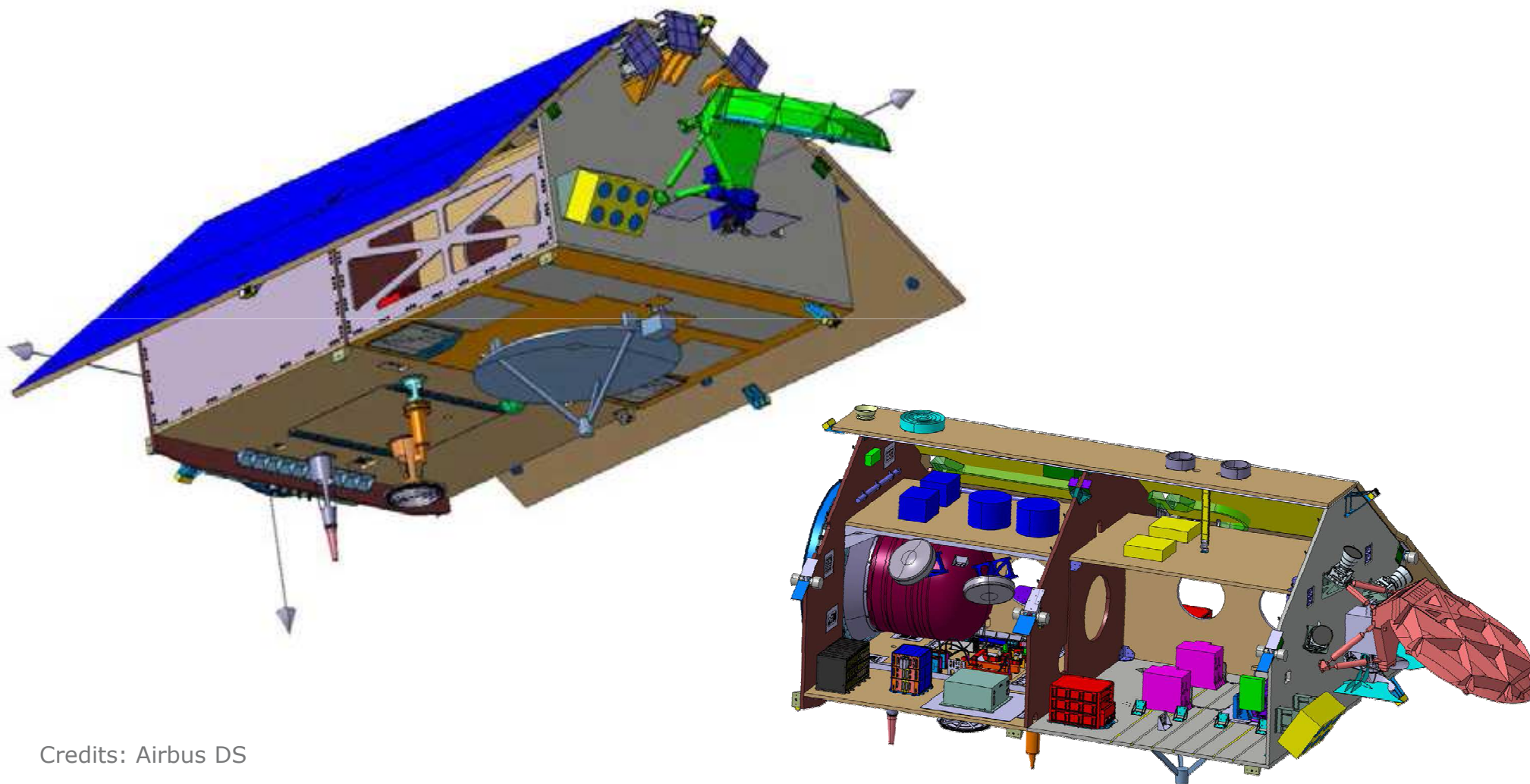
Credits: Airbus DS



## **Sentinel-6 / Jason-CS Space Segment development status**

Pierrik Vuilleumier - OSTST 2015

# Spacecraft configuration



Credits: Airbus DS

European Space Agency

Sentinel-6 / Jason-CS development status - OSTST 2015

# Sentinel-6/Jason-CS Data sheet



## **Mission Duration**

6 months commissioning  
5 year operational mission.

## **Mission Orbit**

Type: LEO, non sun-synchronous  
Repeat cycle: 10 days  
Mean altitude: 1336 km  
Inclination: 66°

## **Launch Vehicle**

Falcon-9, Atlas-4 or Antares

## **Flight Operations**

Mission control for LEOP and SIOV from ESOC.  
Commissioning and routine operations from EUMETSAT.

Data volume about 1200 Gbit/day

## **RF Links**

X-band data : 150 Mbps at 8.090 GHz  
S-band TTC : 16 kbps up, 32 kbps down

## **Configuration**

Dimensions: 5.13 m x 4.17 m x 2.35 m

Mass: 1440 kg (wet)

Power: 891 W average consumption

On-board storage: 496 Gbits solid state

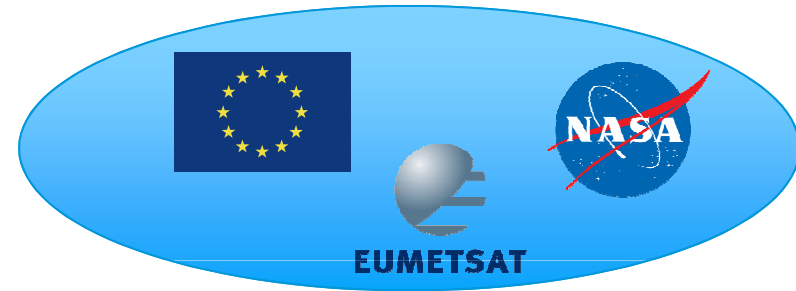
Mono-propellant propulsion system for orbit maintenance and EOL perigee lowering.

Fuel tank: 220kg hydrazine with baffles

- **Two identical satellites** are funded by the Partners and produced in parallel.



Sentinel-6A/Jason-CSA



Sentinel-6B/Jason-CSB

- A multi-partite legal agreement is in preparation.
- Governance implemented through a **Joint Steering Group (JSG)**.
- ESA has the contractual authority for the satellites development.
- NASA contributes in kind the AMR-C, the RO, the LRA and the launch services for both satellites.
- A **Mission Advisory Group (MAG)** will be established to advise on scientific matters and to relate with OSTST.



# Development Status



Phase B2

Phase C0

Phase C1/D

↑ • Satellite PDR end 2014

↑ C0 phase kick-off 25 March 2015

↑ PATP C1/D phase 5 August 2015

Satellite CDR April 2017 ↑

Satellite A FAR April 2020 ↑

- PDR cycle is completed.
- Procurement of satellite elements 80% by end 2015.
- Start of the CDR cycle.
- Satellite A launch mid 2020, for overlapping with Jason-3.
- Satellite B stored from 2021 until launch in 2025.