

JASON -2 : 1 SATELLITE, 8 INSTRUMENTS

PROTEUS - Reconfigurable Platform for Observation, Telecommunications and Scientific Uses. Designed for satellites with a launch mass of around 500kg.

Payload:

- 1 Poseidon-3 altimeter (CNES). Measures the distance between the satellite and the sea surface, while enabling precise corrections to be made with regard to the signal's path through the ionosphere.
- 2 AMR - Advanced Microwave Radiometer (NASA). Determines the water content of the troposphere.
- 3 DORIS system (CNES). Used for precise orbit determination.
- 4 GPSP - GPS Payload (NASA). Supports DORIS in determining the satellite's exact position.
- 5 LRA - Laser Retroreflector Array Instrument (NASA). Enables the other orbit determination systems to be precisely calibrated by analysing laser beams fired from the ground and reflected by an array of mirrors on the satellite.

Passenger instruments:

- 6 CARMEN2 dosimeter (CNES). Used to learn more about particularly aggressive radiation on Jason's orbit.
- 7 LPT - Light Particle Telescope (JAXA). Dosimeter.
- 8 T2L2 - Time Transfer by Laser Link (CNES). Enables remote clocks to be synchronised with very high precision.

