ILRS SLR Mission Support Request Form Results

Below is what you submitted to noll@cddis.gsfc.nasa.gov on Tuesday, January 2, 2007 at 03:20:42

Satellite_name: PROBA-2

Satellite_organization: ESA

Primary_technical_contact: Frederic Teston

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Altscience_website:

Mission_objectives: Science Objectives: Sun observation in UV light, measurement of space plasma characteristics. Engineering Objectives: technology demonstration including nflight demonstartuon and validation of new spaceborne GPS receivers.

SLR_role: Verification of GPS based navigation

Launch_date: Dec. 2007

Mission_duration: 2 years

Altitude: 721 km

Inclination: 98 deg (Sun-sync. dusk-dawn)

Eccentricity: 0.0

Tracking_schedule: ideally 2 campaigns of 2 weeks, approx. 3 and 6 months after launch (TBC)

Spatial_coverage: world wide

Temporal_coverage: full

Data_accuracy: best effort

Mission_coordinator:

Priority: low

Acquisition_data_source:

Other_POD_sources: GPS

Primary_analysis_center: DLR/GSOC

NPT_time_span: 5 s

Station_tracking_requests: any

Delivery_time: none

Array_info: Identical to Cryosat-LRR-01

Array_technical_contact: Luc Dayers, Verhaert

Array_technical_contact_phone: +32(3)250-1423

Array_technical_contact_email: Luc.Dayers@verhaert.com

Comments: Proba-2 will be operated in a sun-synchronous dusk dawn orbit. For solar observations the spacecraft will be operated in a Sun-pointing attitude. Here, the –x body axis is continuously oriented towards the Sun. Furthermore, the spacecraft is rotatated by 90deg about the -x axis four times per orbit such a way as to align either the +z-, +y-, –z-, or – y-axis with the ecliptic north-pole, while maximizing the off-nadir angle of the star cameras. The retroreflector is mounted on the -z face and will be nominally nadir-pointing with maximum off-nadir angles of up to 45 deg.

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