



ALTIUS CAL/VAL Announcement of Opportunity Call

C. Zehner, Daniel Navarro Reye - ESA

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ALTIUS CAL/VAL AO Call

Purpose: This ESA Announcement of Opportunity solicits proposals for the calibration/validation of ALTIUS products, namely the Level 1 and Level 2 products. The planned duration of this AO covers a timeframe of 3 years that includes the Commissioning Phase (E1) with a duration of half a year and an Operational Phase (E2) with a duration of 2.5 years.

Planning: The AO Call focuses during the Commissioning Phase on Calibration and Validation of the Level 1 and primary Level 2 products (O_3 , Aerosol Information, NO_2). During the Operational Phase all ALTIUS products will be calibrated and validated.

Funding: national funding (not ESA)

Advantage for ALTIUS Cal/Val PIs: early access to ALTIUS products



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ALTIUS Level 1 and Level 2 PRODUCTS

Level 1 - calibrated spectra Level 2 - vertical profiles of:

Species	Category	Observation Scenario
O ₃	primary	UV, VIS bright and occultation limb sounding
Aerosol Information	primary	UV, VIS, NIR bright and occultation limb sounding
NO ₂	primary	VIS occultation limb sounding
H ₂ O	secondary	NIR occultation limb sounding
B _r O	secondary	UV solar occultation limb sounding only
OCIO	secondary	UV lunar occultation limb sounding only
NO ₃	secondary	NIR lunar occultation limb sounding only
т	secondary	VIS bright and occultation limb sounding
PSC Occurrence	secondary	UV, VIS, NIR bright and occultation limb sounding
PMC Occurrence	secondary	UV, VIS, NIR bright and occultation limb sounding

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ALTIUS CAL/VAL AO PI Obligations

Signature of Terms and Conditions (e.g. including rules on publishing)

Regular Reporting to ESA

Participation in Workshops

Provision of Reference Measurements to the ESA Atmospheric Validation Data Base





Time Schedule

Call Opening

Deadline of Proposal Submission

Notification of the evaluation results to Principal Investigators

1st Workshop: Kick-off of AO Activities

Start of Validation Rehearsal

2nd Workshop: Validation Rehearsal Review / Validation Readiness

Launch

E1 Calibration activities/campaign with a duration of about 2 months

E1 Validation campaigns for the Primary Products

3rd Workshop: Preliminary Validation Results Review Yearly Workshops 1 September 2024

1 November 2024

1 February 2025

September 2025

March 2026

May 2026

September-November 2026

Launch + 1 Month

Launch + 3 Months

Launch + 6 Months

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