



# ALTIUS CALVAL Announcement of Opportunity Call

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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<sub>3</sub>). 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

## ALTIUS Level 1 and Level 2 PRODUCTS

Level 1 - calibrated spectra

Level 2 - vertical profiles of:

Species	Category	Observation Scenario
O <sub>3</sub>	primary	UV, VIS bright and occultation limb sounding
Aerosol Information	primary	UV, VIS, NIR bright and occultation limb sounding
NO <sub>2</sub>	primary	VIS occultation limb sounding
H <sub>2</sub> O	secondary	NIR occultation limb sounding
B <sub>r</sub> O	secondary	UV solar occultation limb sounding only
OCIO	secondary	UV lunar occultation limb sounding only
NO <sub>3</sub>	secondary	NIR lunar occultation limb sounding only
T	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

# 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

1 September 2024

Deadline of Proposal Submission

1 November 2024

Notification of the evaluation results to Principal Investigators

1 February 2025

1<sup>st</sup> Workshop: Kick-off of AO Activities

September 2025

Start of Validation Rehearsal

March 2026

2<sup>nd</sup> Workshop: Validation Rehearsal Review / Validation Readiness

May 2026

## Launch

September-November 2026

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

Launch + 1 Month

E1 Validation campaigns for the Primary Products

Launch + 3 Months

3<sup>rd</sup> Workshop: Preliminary Validation Results Review

Launch + 6 Months

Yearly Workshops