

INTERNATIONAL  
**CHIANTI TOPICS**  
FOCUS WORKSHOPS

# ATMOSPHERES

CURRENT CHALLENGES IN THE REMOTE-SENSING OF PLANETARY ATMOSPHERES



# atmospheres

CURRENT CHALLENGES IN THE REMOTE-SENSING OF PLANETARY ATMOSPHERES

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Marcel Snels  
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Glenn Orton  
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Patrick Irwin

LOC:  
Clarissa Calamai  
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Lara Fossi  
Marianna Michelagnoli  
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Ruggiero Stanga

Osservatorio Polifunzionale del Chianti, Firenze (Italy)

9-12 June 2026

<http://chiantitopics.it>  
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**Scientific Rationale:**

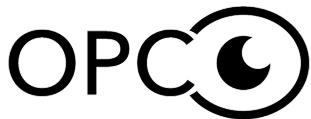
This congress is convened to address the current interpretative hurdles in the remote sensing of planetary atmospheres. It will serve as a dedicated forum for discussing the ambiguities and model-dependencies inherent in deriving atmospheric properties, such as composition and structure, from observational data. The event aims to critically evaluate existing retrieval techniques, explore the development of more robust and sophisticated models, and foster discussions on mitigating observational biases and quantifying uncertainties. A key objective is to promote the cross-validation of methods applied to diverse targets, from well-constrained Solar System atmospheres to the often data-limited exoplanetary environments.

The main goal is to prepare the next generation of astronomers and physicists to embark on this exciting and challenging research field. Therefore, young researchers, PhD students and post Docs, are encouraged to submit and present their idea or projects and the results of their research; the Scientific Organising Committee will select talks and posters by young presenting authors preferentially that will be published on the workshop proceedings; the friendly and welcoming location in Chianti-Tuscany will favour interactions and discussions between young researchers and invited experts offering wider question time and breaks, round table, social events.

**Sessions/Topics:**

- modelling of gaseous absorption and emission
- aerosol properties
- Machine-Learning approaches
- radiative transfer codes
- comparative planetary atmospheres: planets and exoplanets
- laboratory activities

**Period:** 9-12 June 2026**Location:** Osservatorio Polifunzionale del Chianti**Organizers:** Osservatorio Polifunzionale del Chianti, Università di Firenze, INAF, CNR**Chairpersons:** Emanuele Pace, Riccardo Claudi**SOC:**  
Marcel Snels (CNR)  
Stefania Stefani (INAF)  
Francesca Vitali (INAF)  
Chiara Castagnoli (INAF)  
Glenn Orton (JPL, NASA)  
Jacopo Terragni (Goddard Space Flight Center, NASA)  
Thomas Drant (ETH Zurich)  
Patrick Irwin (Oxford University)**LOC (TBC):**  
Emanuele Pace (Uni Firenze, OPC)  
Lorenzo Betti (Uni Firenze, OPC)  
Clarissa Calamai (Uni Firenze, OPC)  
Riccardo Ciantini (Uni Firenze, OPC)  
Lara Fossi (Uni Firenze, OPC)



Marianna Michelagnoli (Uni Firenze, OPC)  
Irene Parenti (Uni Firenze, OPC)  
Ruggero Stanga (Uni Firenze, OPC)

Participants: Priority to PhD & postdocs

Invited Speakers:	Ha Tran Giuliano Liuzzi Audrey Chatain Manuel Lopez Puertas Sarah Moran Hannah Wakeford Lorenzo Pino	LMD, Paris University of Basilicata, Potenza LATMOS, Paris IAA-CSIC, Granada Goddard Space Flight Center, NASA University of Bristol INAF, Arcetri
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Proceedings: Earth & Planetary Science (TBC)

Key dates:	10 January 2026:	First announcement
	16 February 2026:	Second announcement
	10 March 2026:	Call for Abstracts
	10 March 2026:	Workshop Registration opens
	27 April 2026:	Abstract submission closes
	8 May 2026:	Speaker selection notification
	22 May 2026:	Workshop Registration closes
	8 June 2026:	On-site reception opens
	9 June 2026:	Workshop opens
Activities:	9 June 2026:	Welcome drink in a typical Chianti winery
	11 June 2026:	Social dinner in a typical Tuscan location

Fees:	Registration:	220,00 €
	Social dinner:	50,00 €
	Including:	conference fee, coffee breaks, lunches, bus service