



**2<sup>nd</sup> improved edition**  
 with additional material  
 tailored to participant needs



**Sharing the future of our atmosphere**

**Starting date: May 12, 2025**

**Registration from March 31, 2025**



**Duration:**  
2 weeks



**Effort:**  
~5 hours



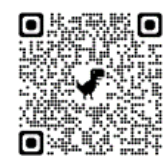
**Pace:**  
~2.5 h/week



Scientists depict the issues of air pollution & climate change. They explain the importance of atmospheric research & the workflow of three key Research Infrastructures (RIs): ACTRIS, IAGOS & ICOS



**Easy & quick learning with:**



**Enrol now**



**A free badge will be awarded upon successful completion of the final quiz**



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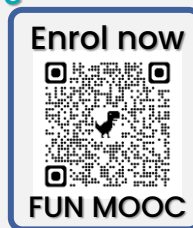


Air pollution & climate change are two critical atmospheric issues that have become global concerns. In this MOOC, scientists will explain their complex interconnections, highlight the importance of atmospheric research, & outline the workflow of atmospheric Research Infrastructures (RIs).

**Enrol to discover how three RIs, ACTRIS, IAGOS & ICOS, take care of the future of our atmosphere**



Course from May 12 to June 8, 2025  
 Registration from March 31, 2025  
 Commitment of about 2.5 hours/week



**By the end of the course, you will be able to:**

- assess the role & interest of atmospheric research
- describe different means of monitoring the atmosphere
- summarise the goals & framework of the 3 RIs
- explain the workflow of an atmospheric RI
- access & process the 3 RIs data on your own



**Prerequisites**

Undergraduate level in science  
 Basic level in general chemistry

**MOOC plan**

**Week 1: Air Pollution (AP) & Climate Change (CC), what is happening in our atmosphere & what should we do?**

- Part 1: Air pollution vs Climate change
- Part 2: Aerosols & Clouds
- Part 3: Trace gases & Greenhouse gases
- Part 4: Atmospheric Research Infrastructures
- Part 5: In-depth Questions & Answers on AP & CC



**Week 2: Three Atmospheric Research Infrastructures on their way to addressing atmospheric issues**

- Part 1: ACTRIS (*Aerosol, Clouds & Trace Gases Research Infrastructure*)
- Part 2: IAGOS (*In-service Aircraft for a Global Observing System*)
- Part 3: ICOS (*Integrated Carbon Observation System*)
- Part 4: The workflow & benefits of a coordinated approach
- Part 5: MEET the Atmospheric Simulation Chambers



**To go further: How to access & process the RIs data**



[www.atmo-access.eu/massive-open-online-course-mooc/](http://www.atmo-access.eu/massive-open-online-course-mooc/)