



Govern d'Andorra

Presentació

MONITORING THE TROPOSPHERIC OZONE LEVELS IN ANDORRA

Ministeri de Medi Ambient, Agricultura i Sostenibilitat
Andorra la Vella, novembre del 2018

MONITORING THE TROPOSPHERIC OZONE LEVELS IN ANDORRA

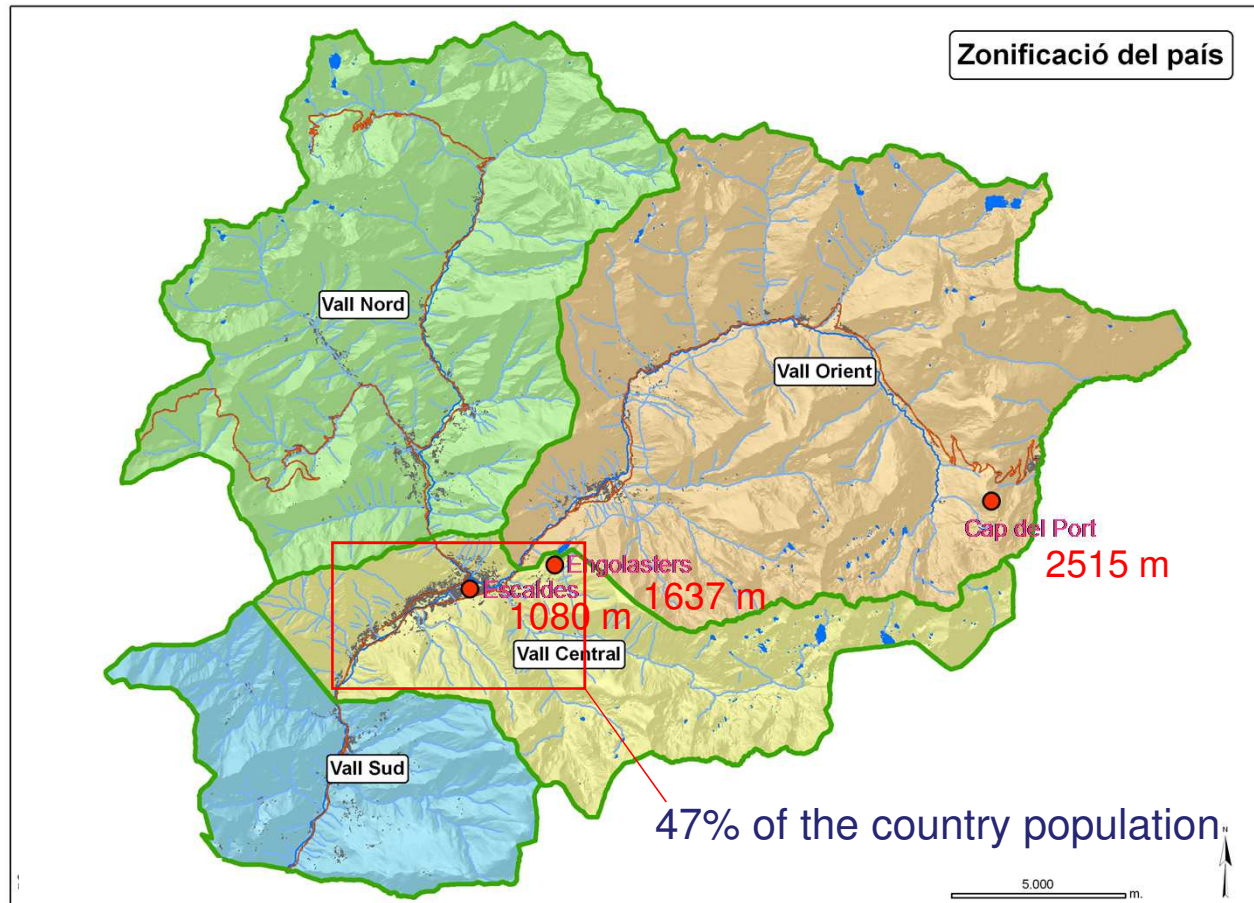
GEOGRAPHICAL FRAMEWORK



Andorra inside the Central Pyrenees. Surface: 468 Km² Population: 80.209 (2017)

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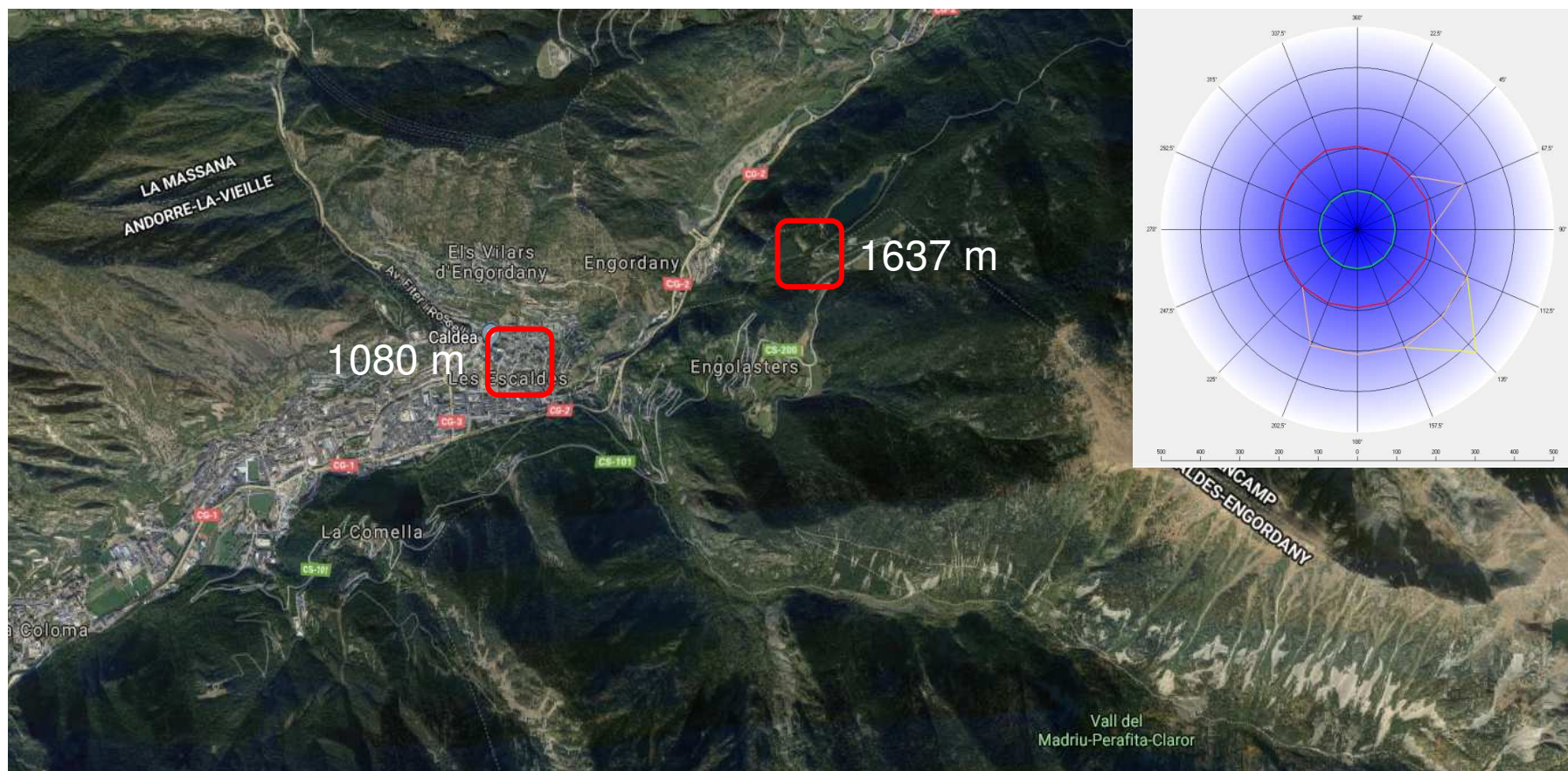
MONITORING SITES



Andorra's ozone stations

MONITORING THE TROPOSPHERIC OZONE LEVELS IN ANDORRA

CENTRAL VALLEY: O₃ REFERENCE STATION: (ENGOLASTERS, 1637 m)



Rose of pollutant O₃ : period 01/05/2018 to 01/10/2018

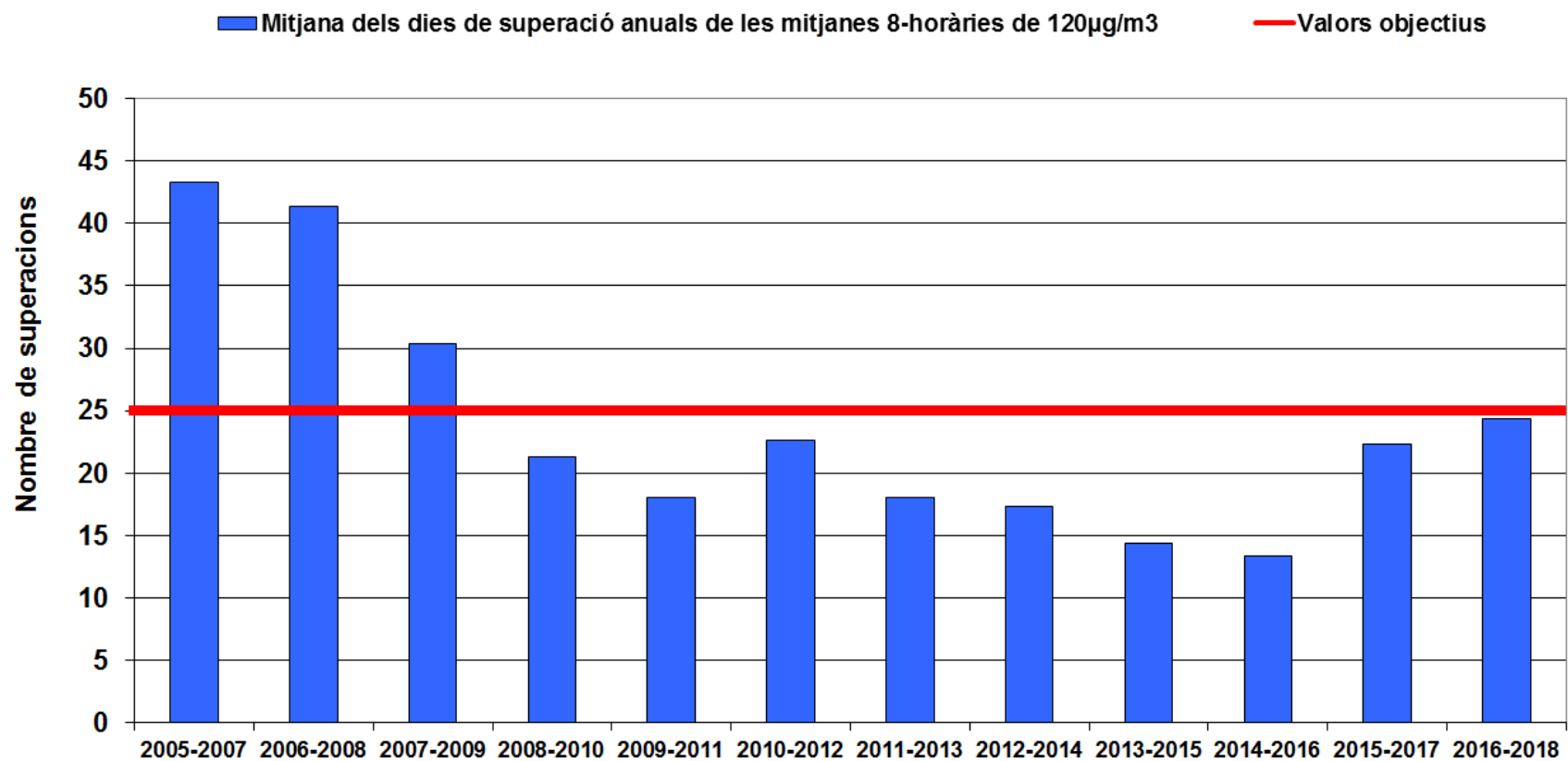
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SEASONAL STATION: NORTHERN SLOPE (PORT D'ENVALIRA 2515 m)



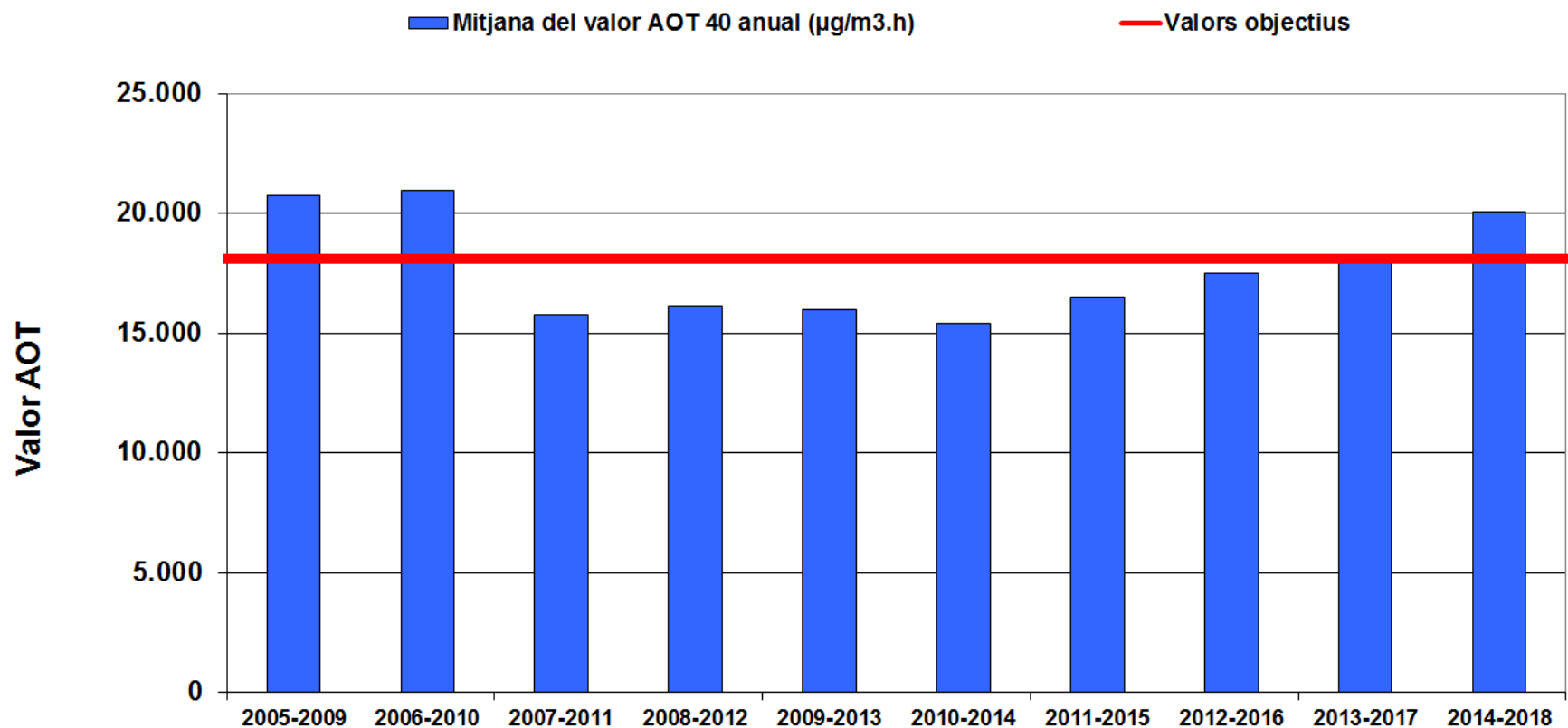
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PROTECTION OF HUMAN HEALTH. EVOLUTION OF THE MAXIMUM DAILY 8H MEAN



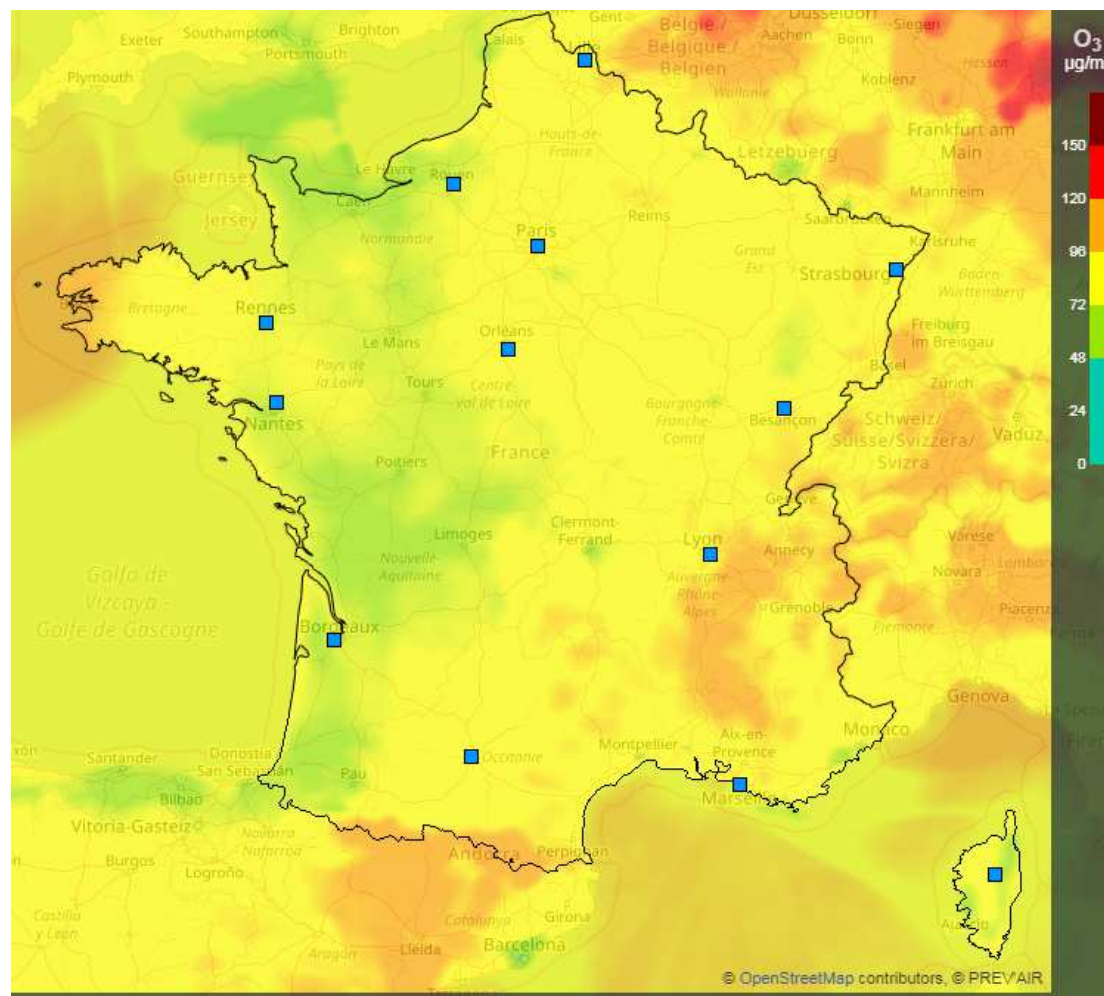
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PROTECTION OF VEGETATION: AOT 40 EVOLUTION



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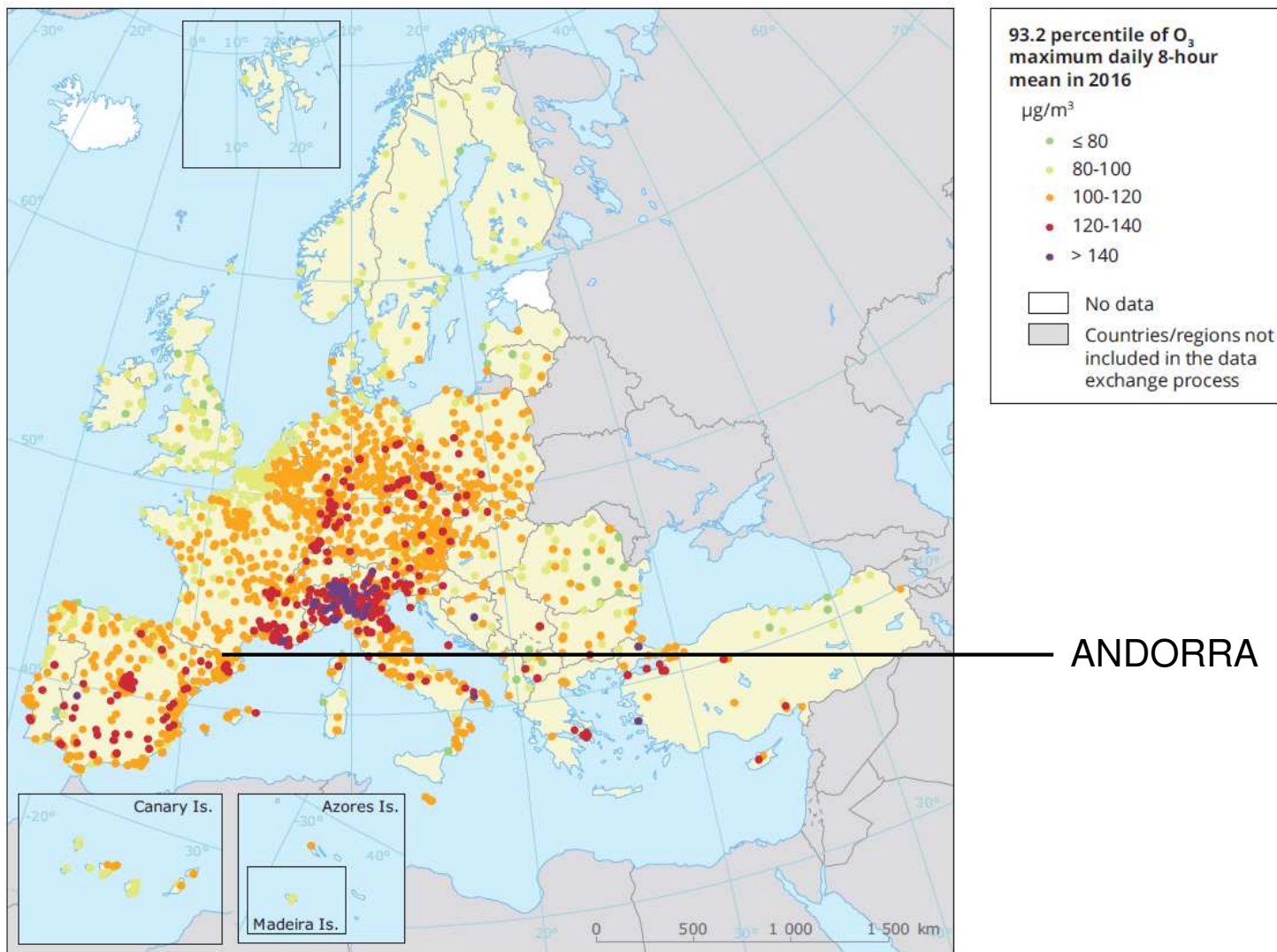
2018: ONE INFORMATION THRESHOLD



04/07/2018 at 18h30 - 182,8 µg/m³ during 1 hour

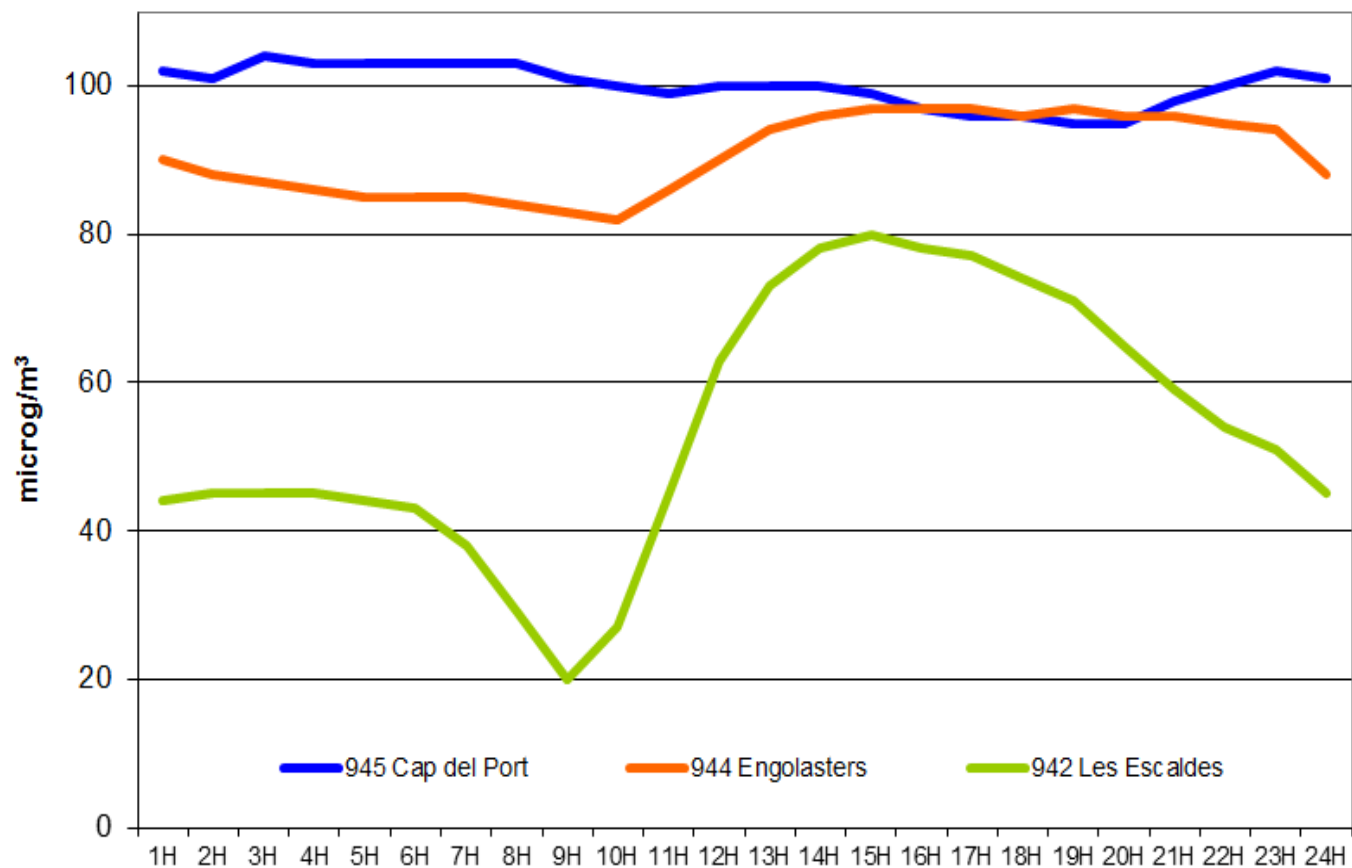
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REGIONAL CONTEXT



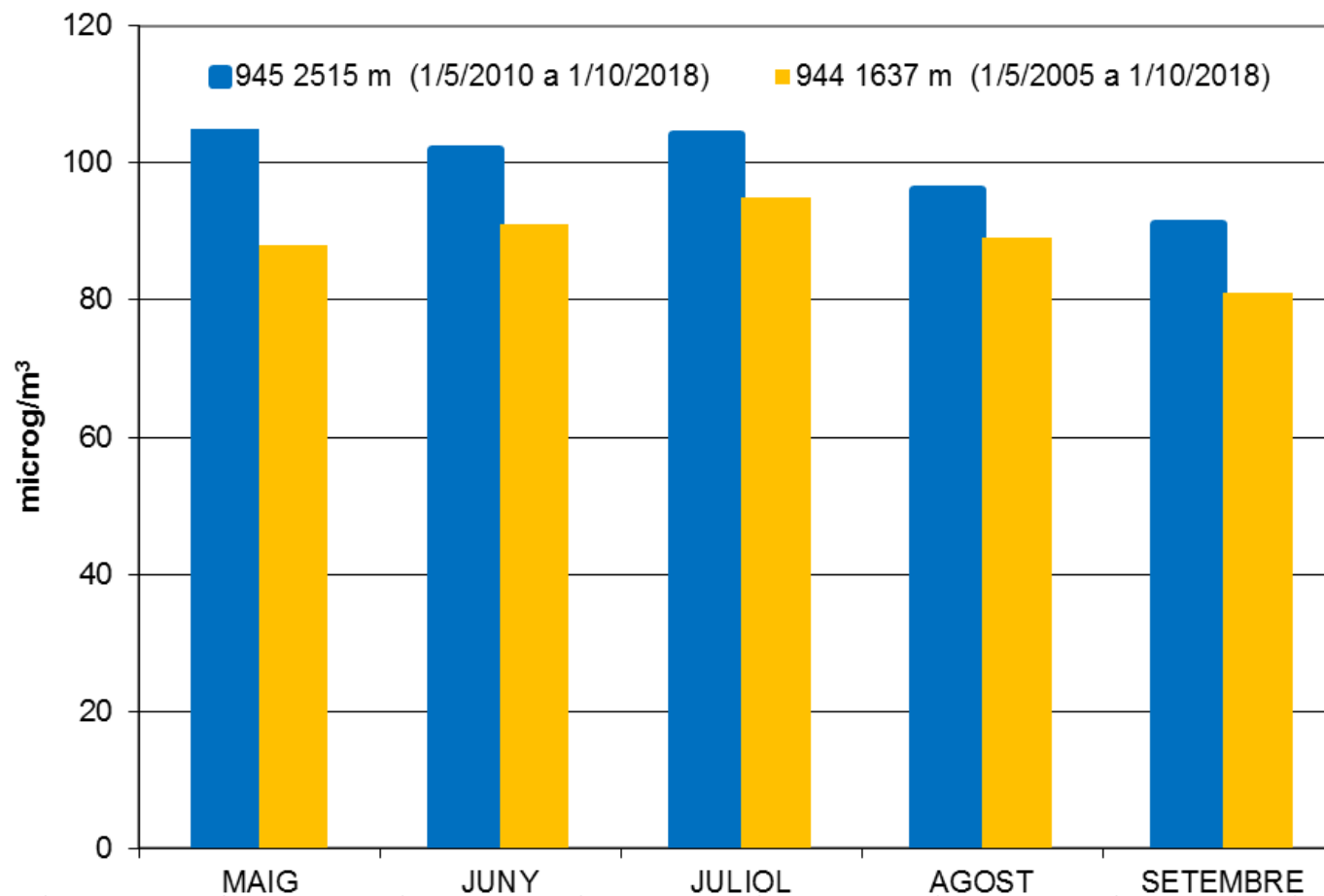
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HISTORICAL DATA: DAILY PROFILE TYPE



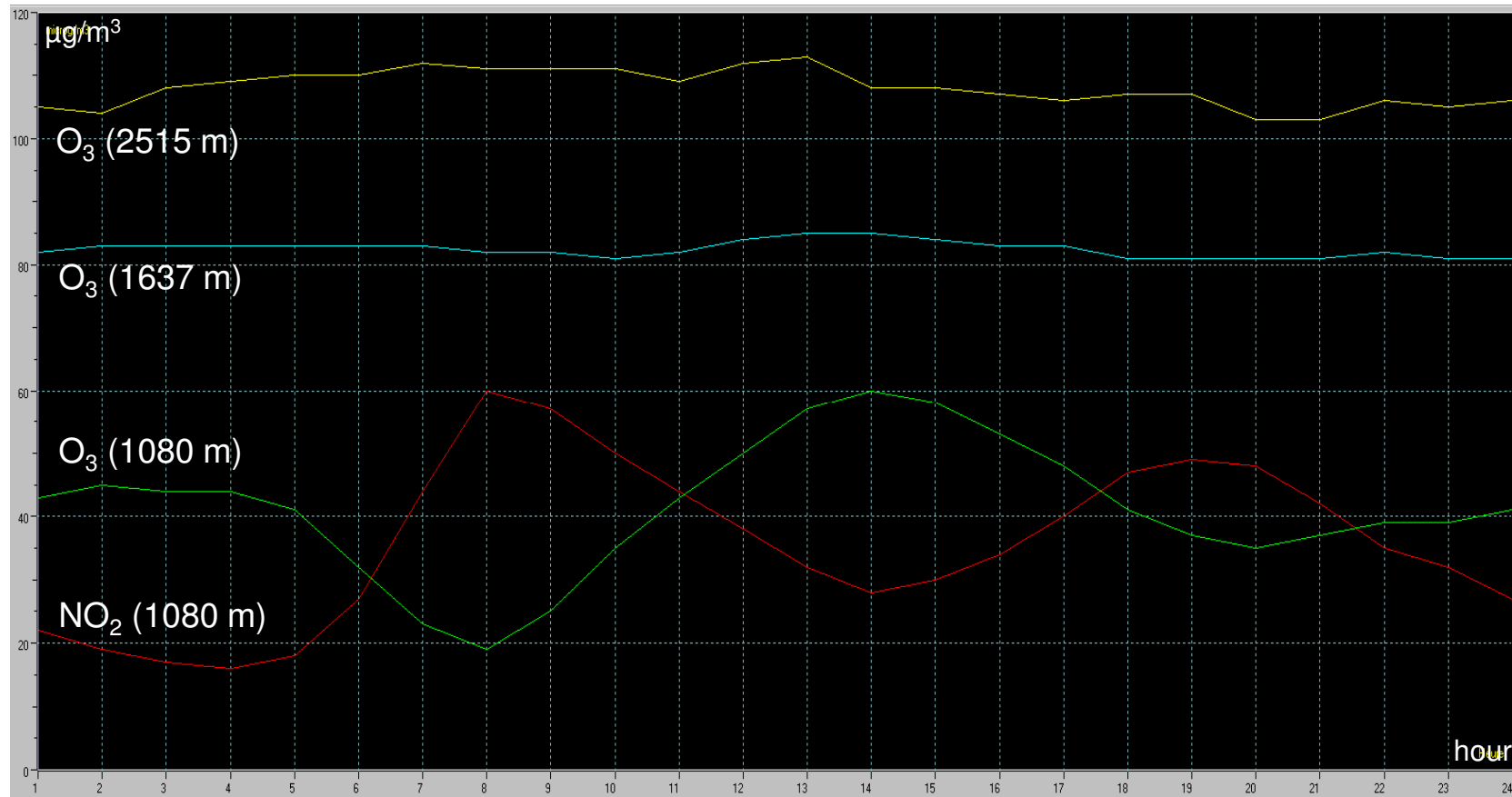
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HISTORICAL DATA: SEASONAL PROFILE



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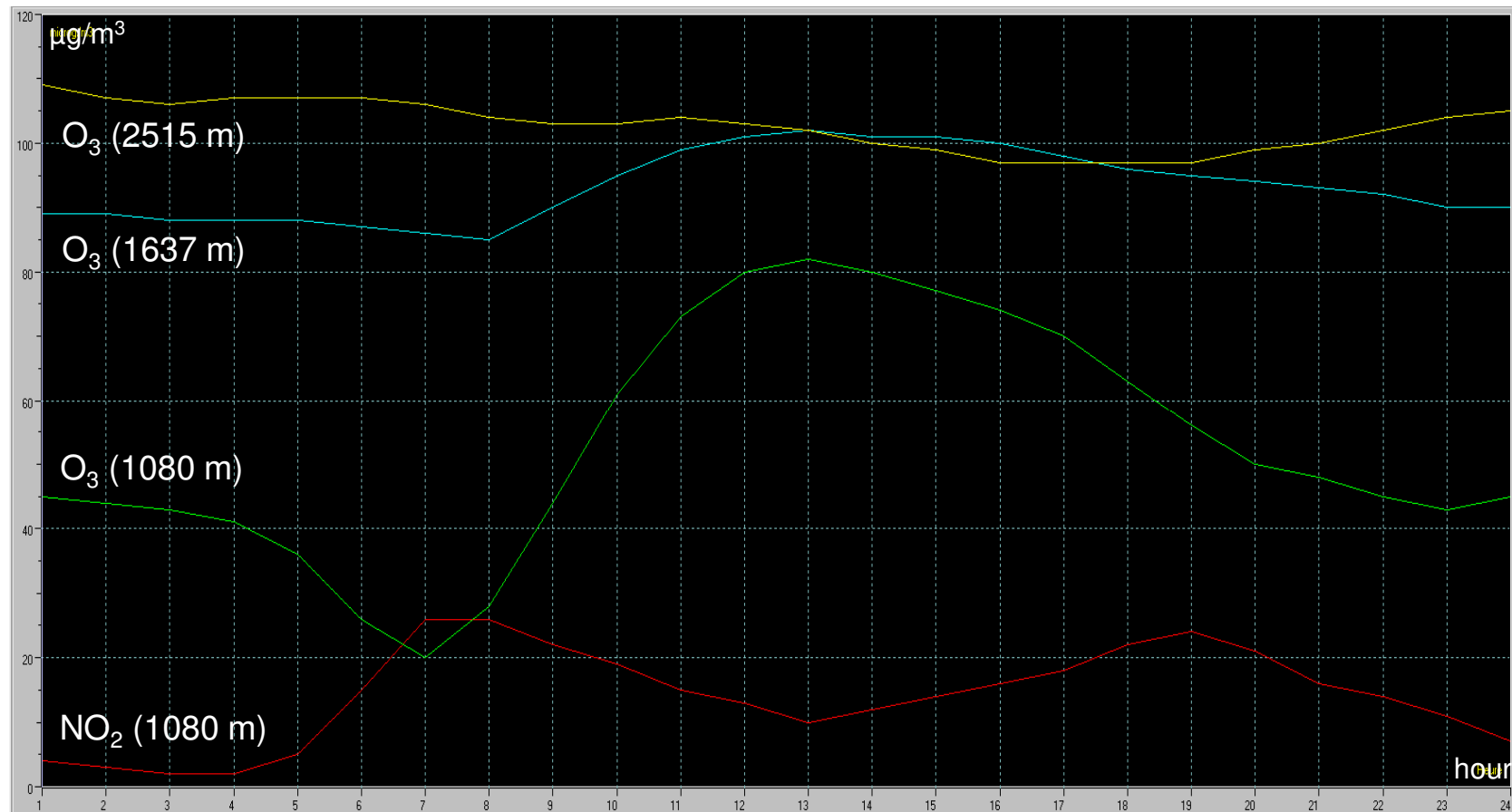
NO₂/O₃ COMPARISON



Lately winter season: from 01/01/2018 to 01/05/2018

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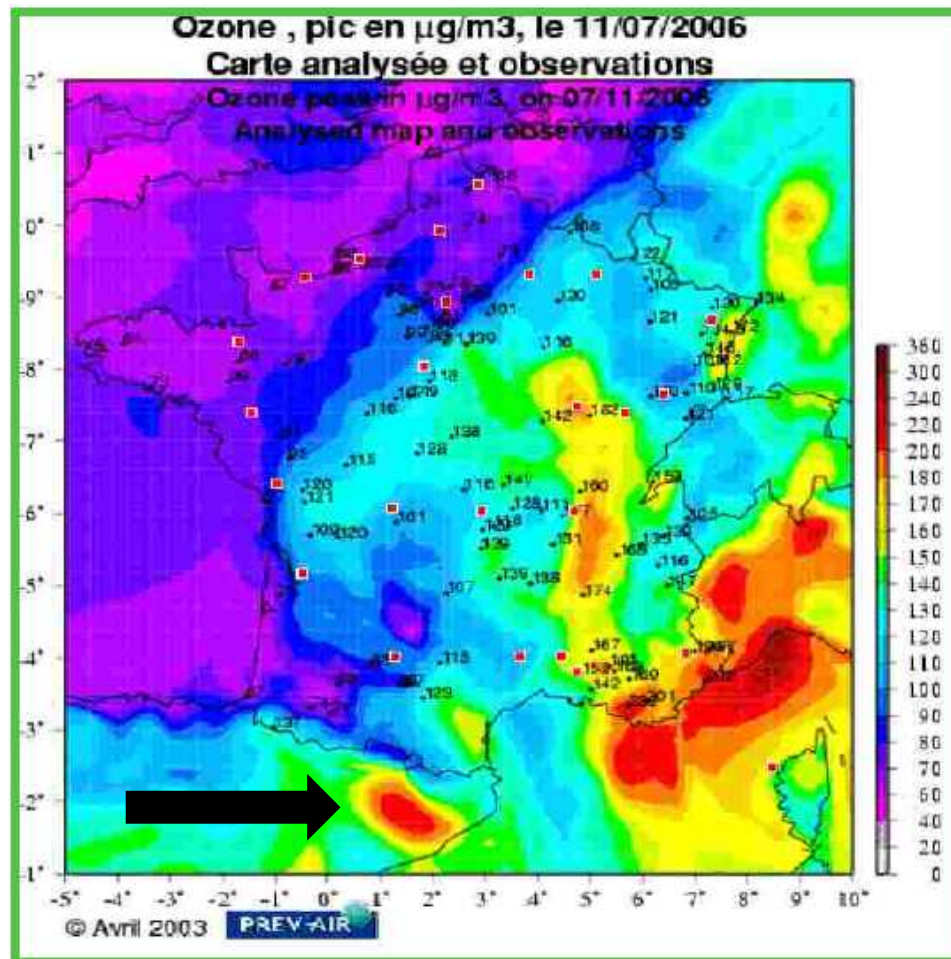
NO₂/O₃ COMPARISON



Ozone season: from 01/05/2018 to 01/10/2018

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11/07/2006 OZONE EPISODE

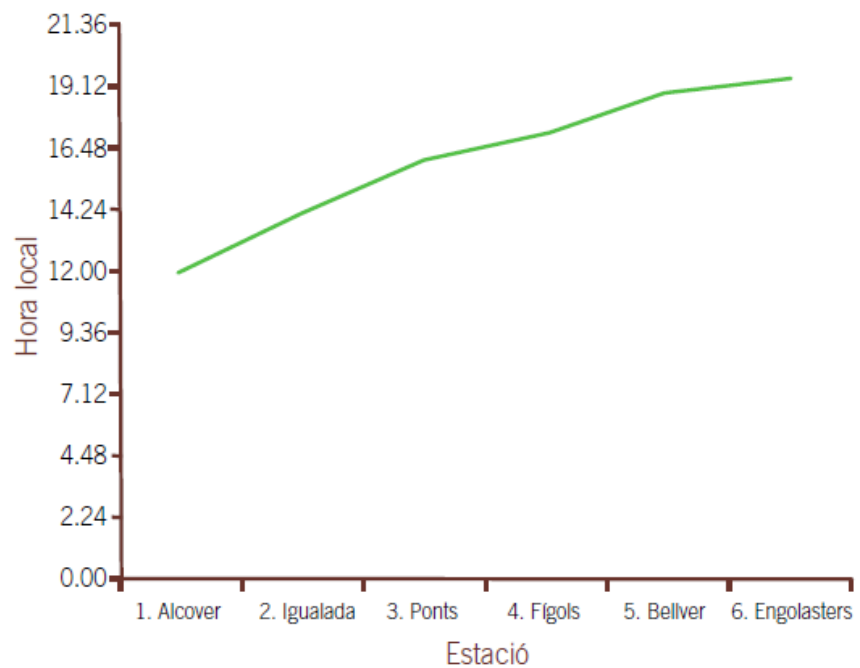


The most important ozone episode registered in Andorra was during the summer of 2006 due to the meteorological conditions and high emission levels of primary pollutants at the area of generation.

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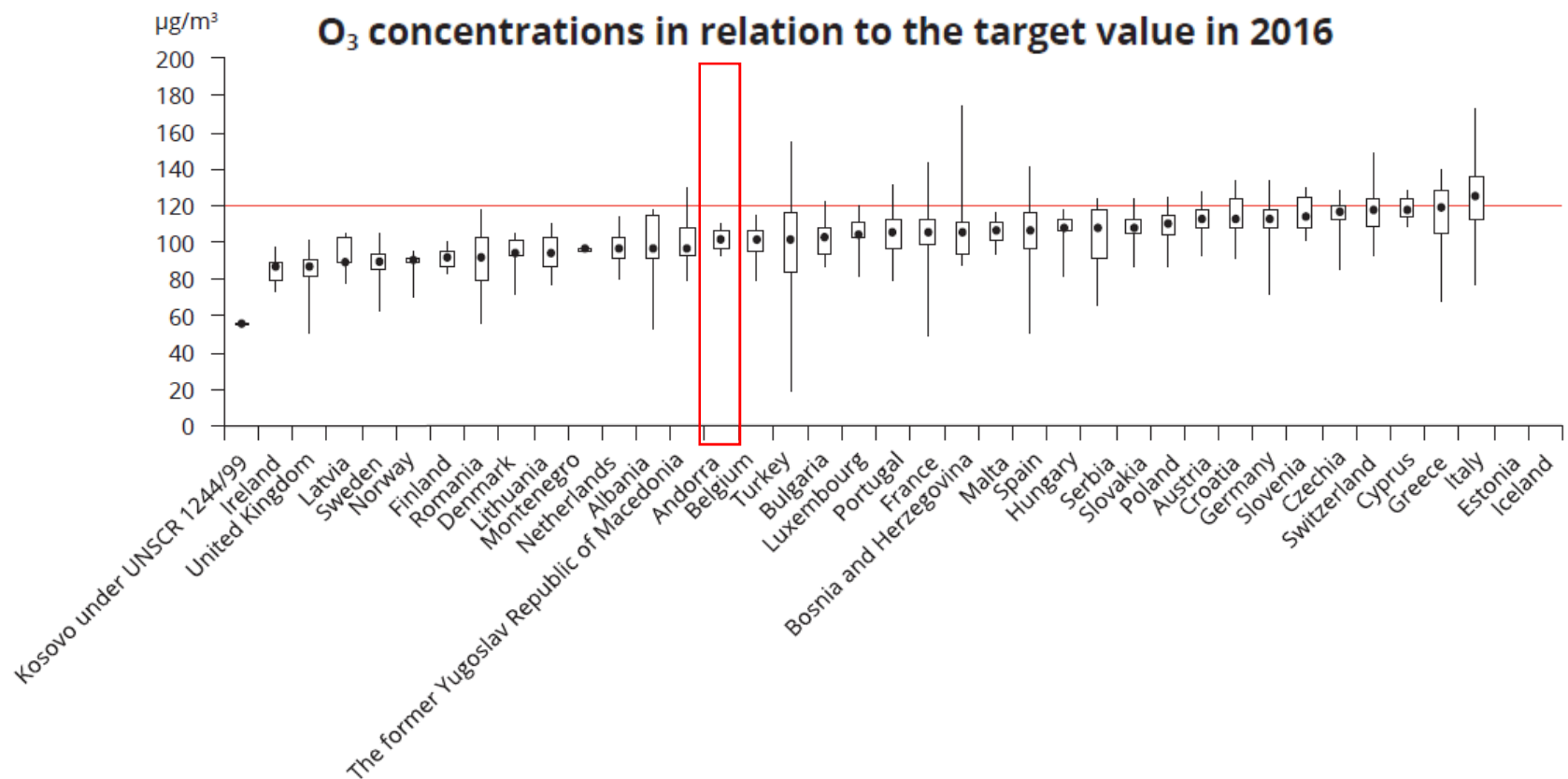
OZONE EPISODE: 11/07/2006

The focus was located in the south of Catalonia. The information threshold of $180 \mu\text{g}/\text{m}^3$ arrived at 19h00 in the Engolasters station and lasted for 3 hours.



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DATA COMMUNICATION: Air Quality in Europe (2018 report)





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Thank you