

EUBREWNET real time ozone processing, comparison of Brewer users processing software tools.

A. Redondas¹, T. Karppinen², H. Diémoz³, B. Hernández-Cruz^{1,4}, J. López-Solano^{1,4}, S.F. León-Luis², V. Carreño², A. Berjón^{1,4}, D. Santana^{1,4}

¹ Regional Brewer Calibration Center Europe, Izaña Atmospheric Research Center, Agencia Estatal de Meteorología, Tenerife, Spain

² Finnish Meteorological institute, Arctic Research Center, Sodankylä, Finland

³ Regional Agency for Environmental Protection of the Aosta Valley (ARPA), Italy

⁴ Departamento de Ingeniería Industrial, Universidad de La Laguna, Tenerife, Spain



- Observations from three stations, Sodankyla, Aosta and Izaña in the period 2012-2014 are processed by the EUBREWNET processing scheme and compared with Brewer software packages commonly used by operators for total ozone determination (Koskela 2009). The **O3Brewer processing software (developed by M. Stanek)** is used in the case of Sodankyla (Karppinen 2016) and the **Brewer Processing Software (BPS, developed by V. Fioletov)** in the case of Aosta station whereas the RBCC-E analysis tools are used for the Izaña series. The first two software tools, O3Brewer and BPS, are routinely used by operators for data submission to the World Ozone and Ultraviolet Data Center (WOUDC).

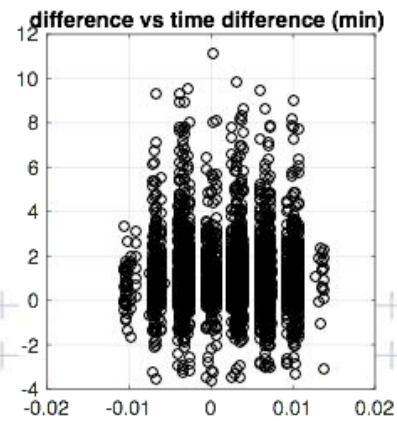
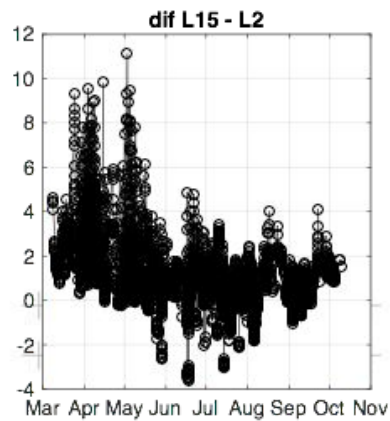
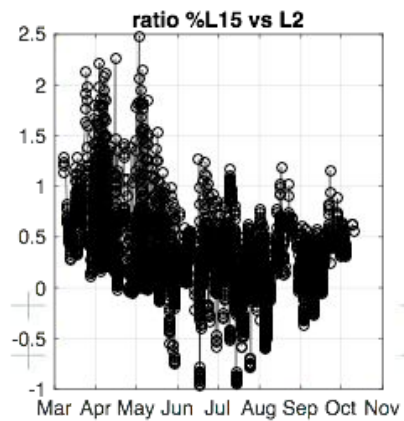
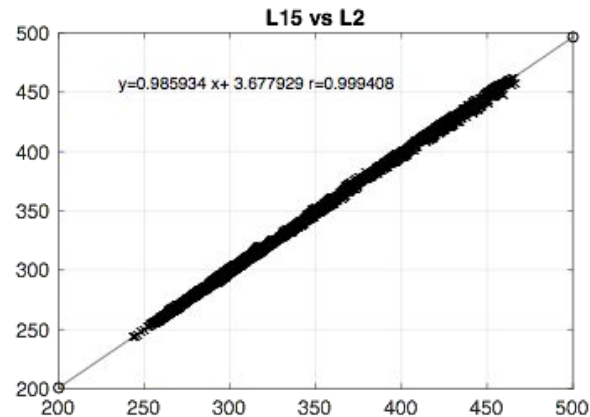
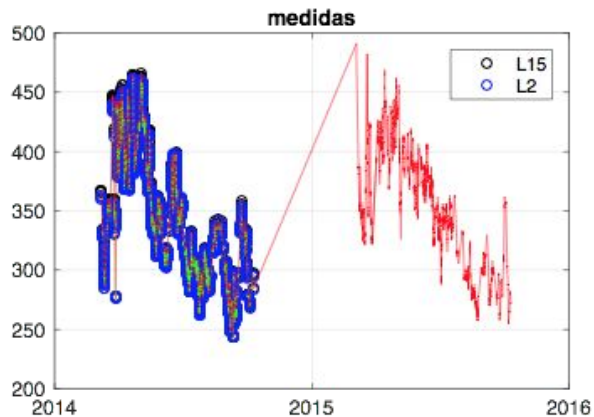


Tapani Koskela; [Ozone column recorded by different processing software packages](#), THE TWELFTH BIENNIAL WMO CONSULTATION ON BREWER OZONE AND UV SPECTROPHOTOMETER OPERATION, CALIBRATION AND DATA REPORTING ,Aosta, Italy, 20-26 September 2009

Fioletov : **Brewer Processing Software**: http://es-ee.tor.ec.gc.ca/Brewer_Processing_Software/brewer_processing_software.pdf
access

Stanek, M.: **O3Brewer**, <http://www.o3soft.eu/o3brewer.html>,
accessed November 24, 2015.

Sodankylä

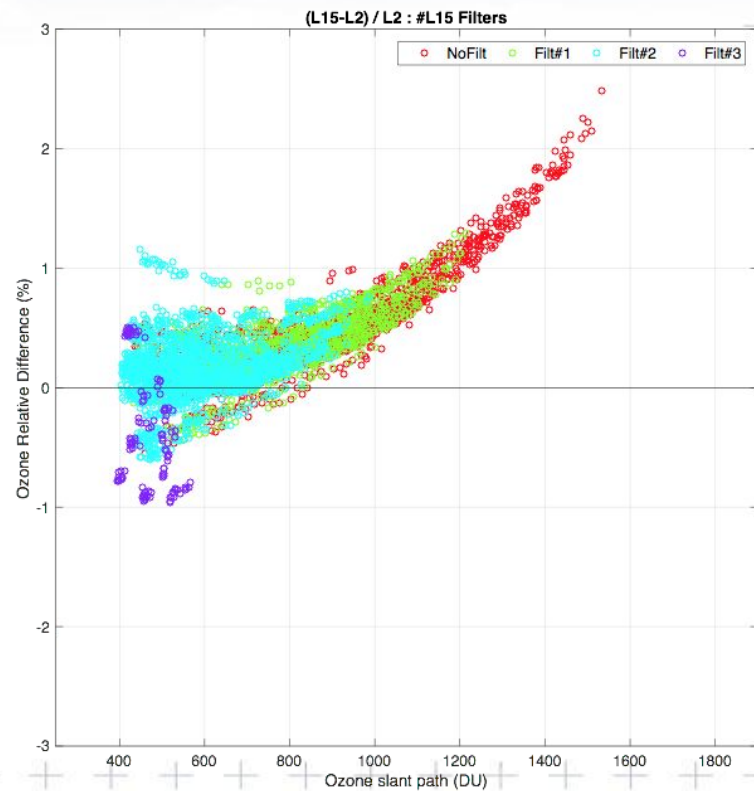
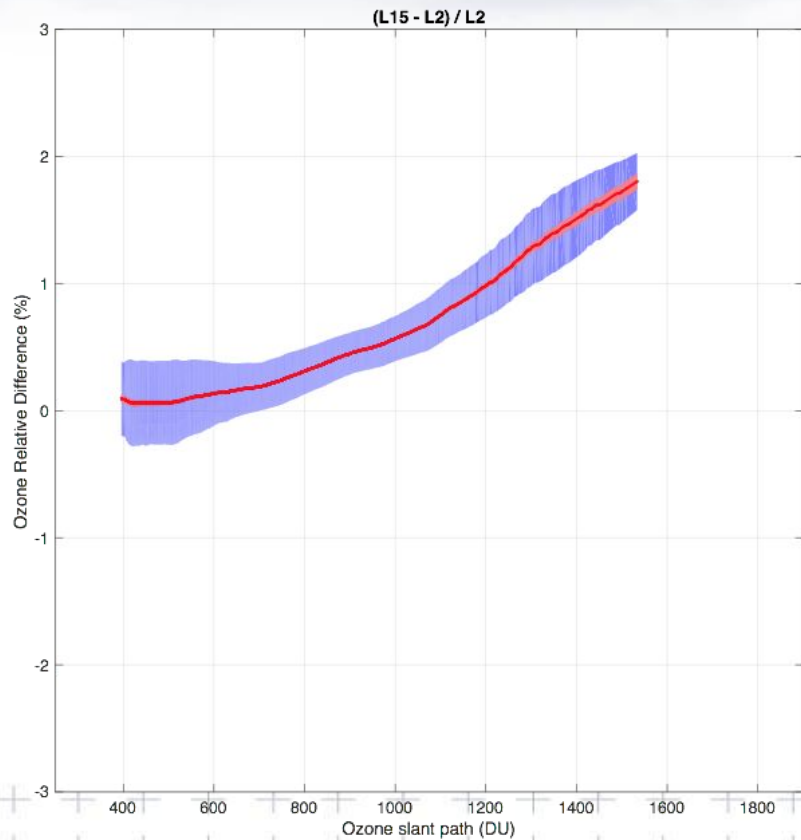




GOBIERNO
DE ESPAÑA

MINISTERIO
DE AGRICULTURA, ALIMENTACIÓN
Y MEDIO AMBIENTE

AEMet
Agencia Estatal de Meteorología

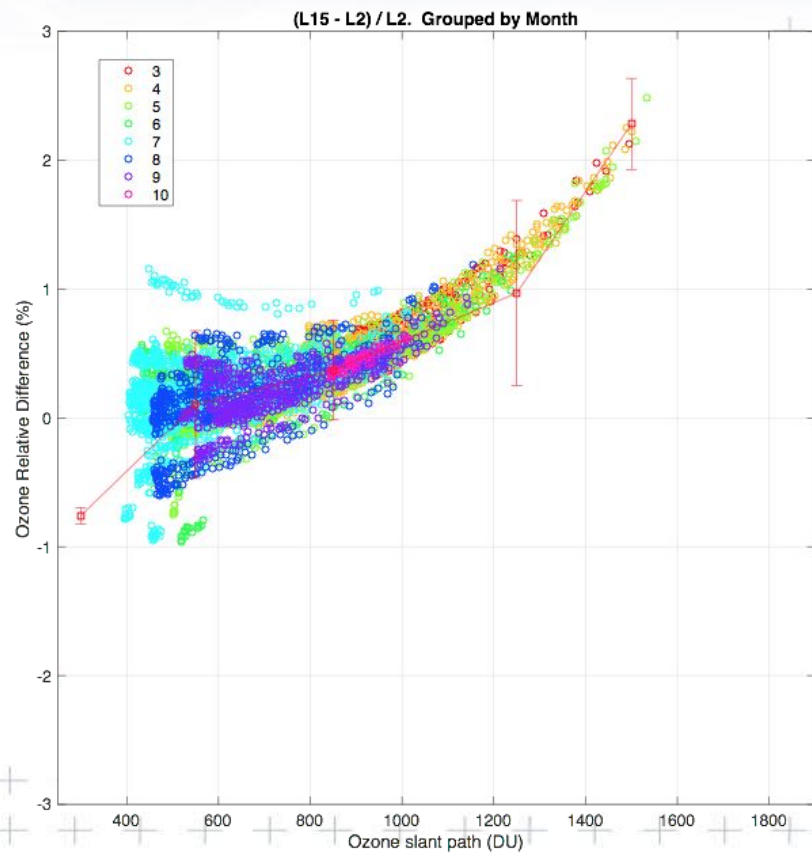
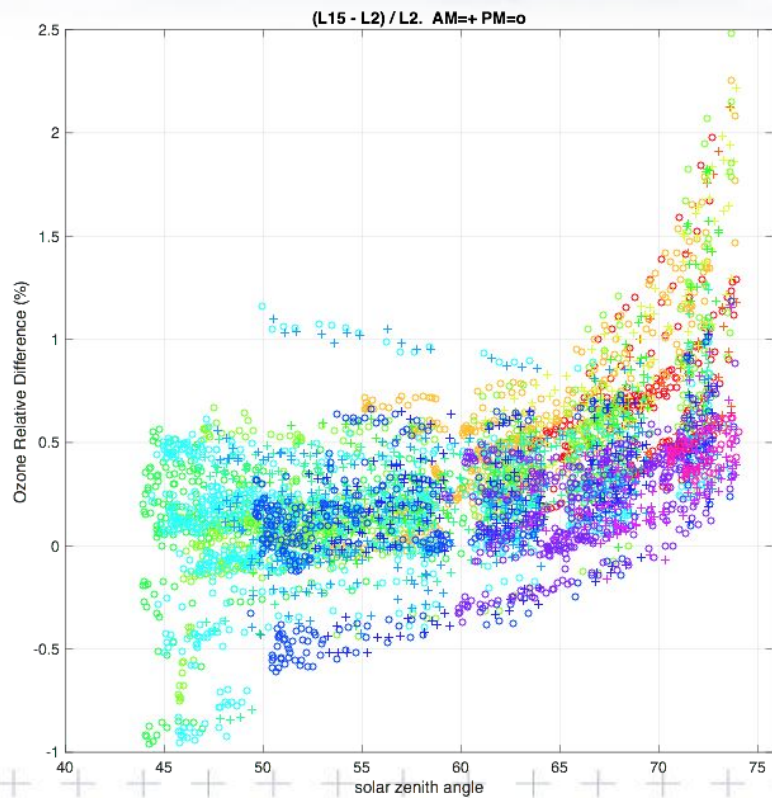


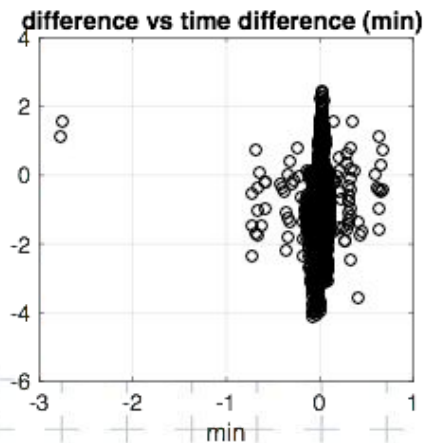
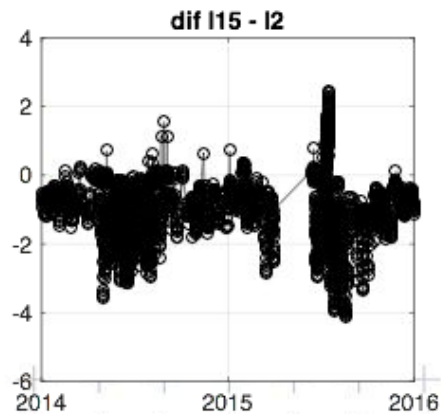
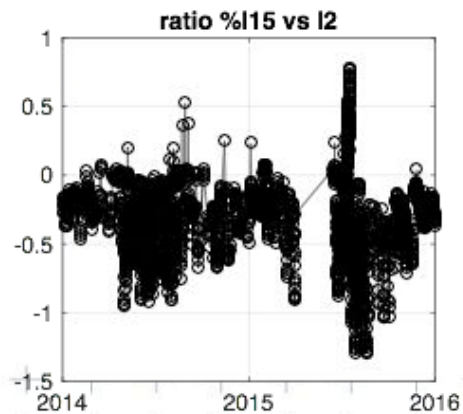
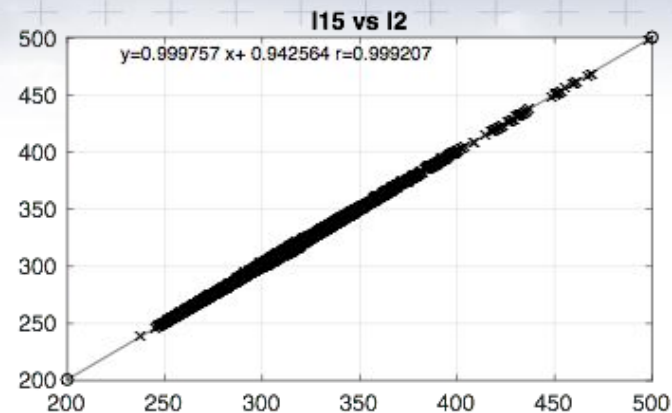
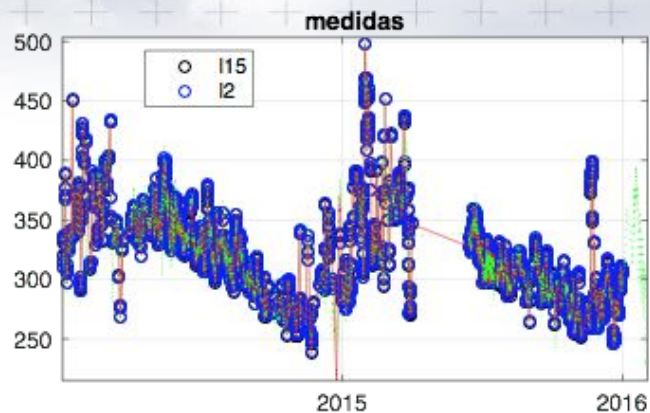


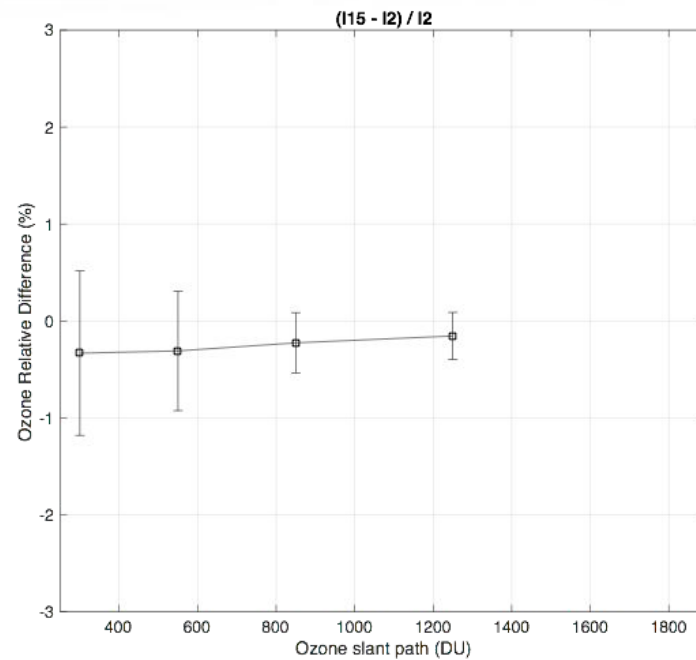
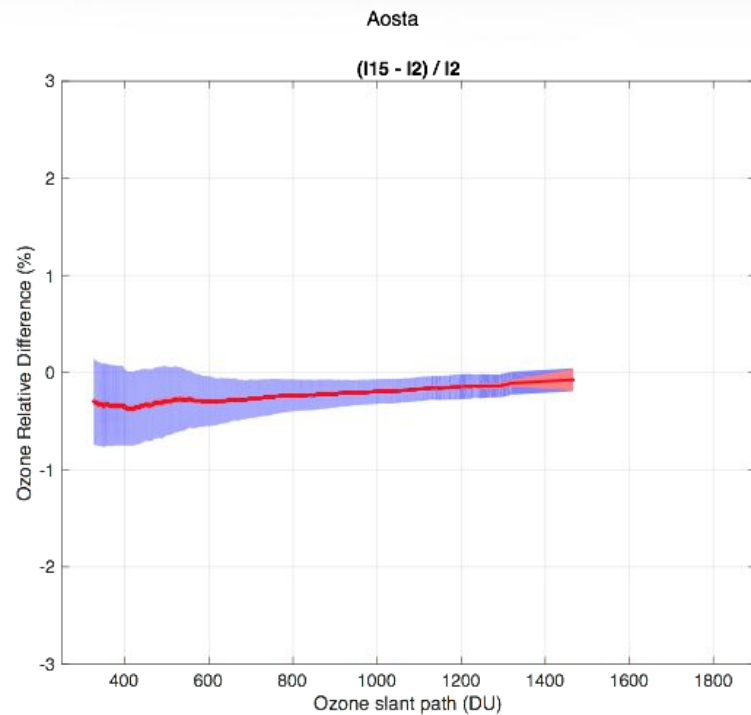
GOBIERNO
DE ESPAÑA

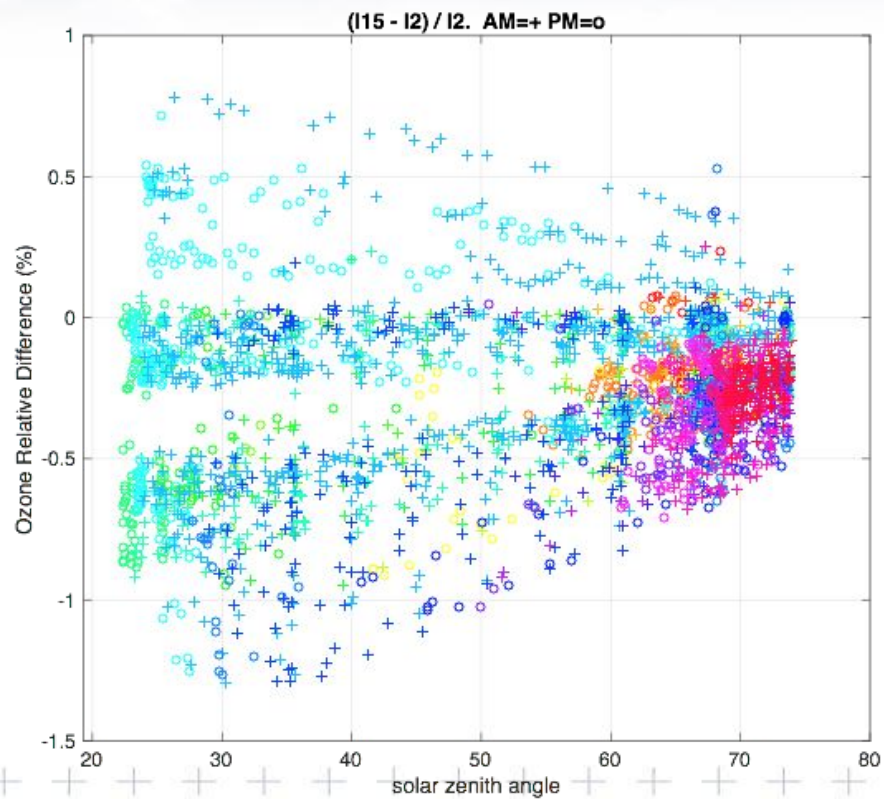
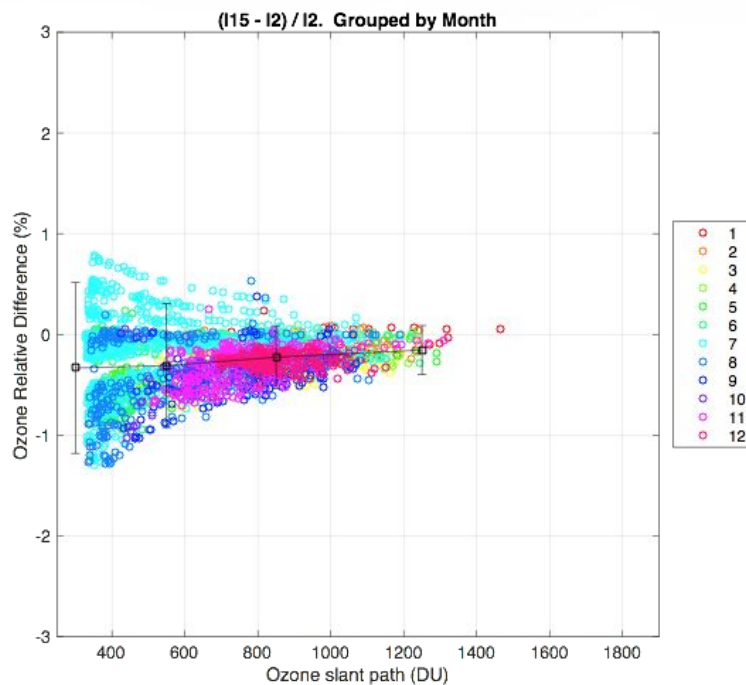
MINISTERIO
DE AGRICULTURA, ALIMENTACIÓN
Y MEDIO AMBIENTE

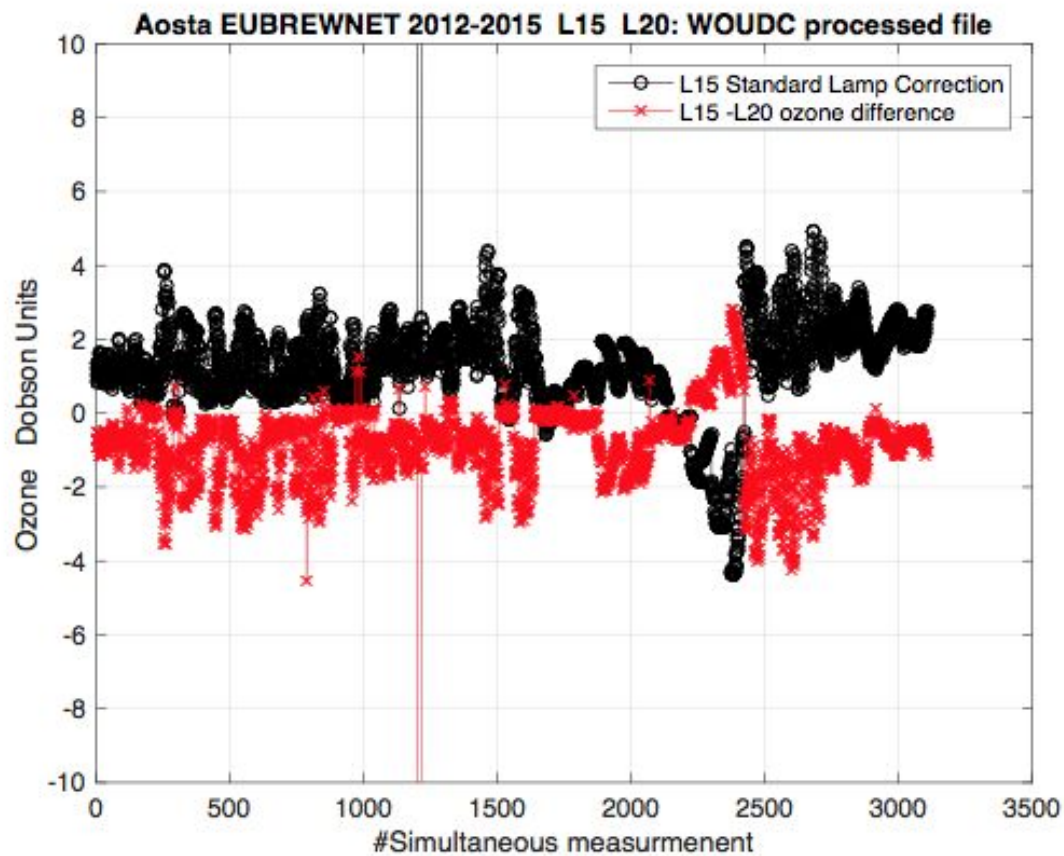
Aemet
Agencia Estatal de Meteorología













Do you want to join the experiment with your
ozone L2 data.

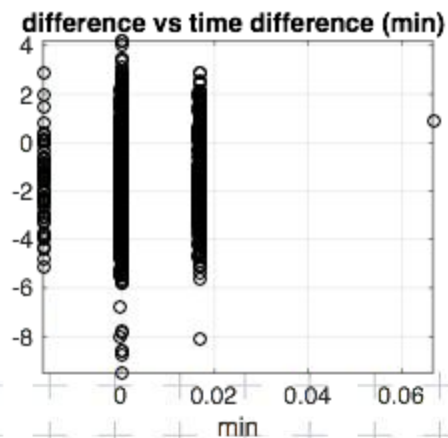
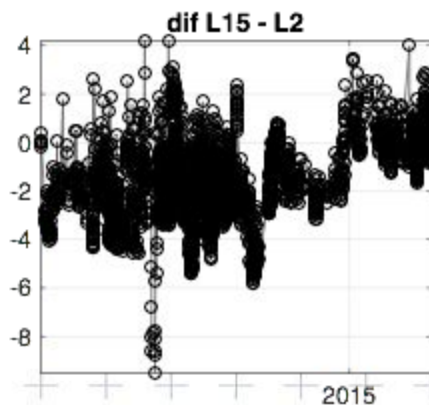
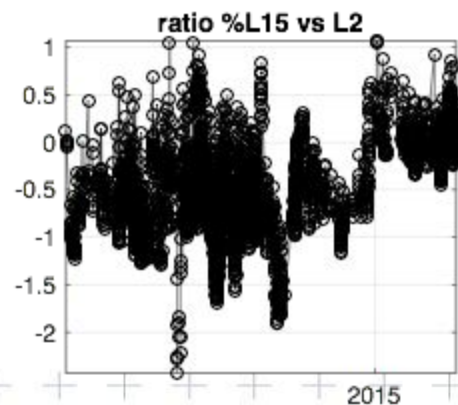
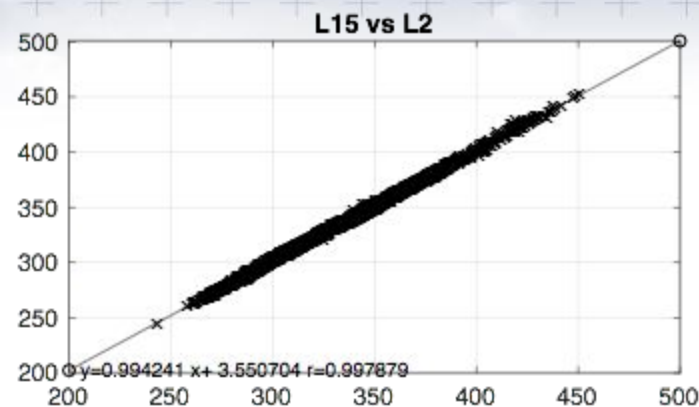
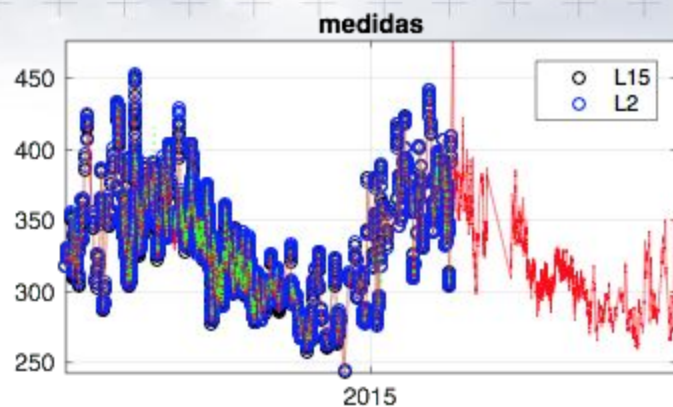
What we need : time, ozone, **filter** and
temperature ?

Thanks !!

The RBCC-E Team



Alberto Redondas (AEMET)
Alberto Berjon (ULL, ATMOZ)
Javier López Solano (ULL, IDEAS)
Bentorey Hernandez (ULL, PANDONIA)
Virgilio Carreño (AEMET)
Manuel Rodriguez Valido (ULL)
Daniel Santana (ULL,PANDONIA)
Sergio Fabián León Luis (AEMET)

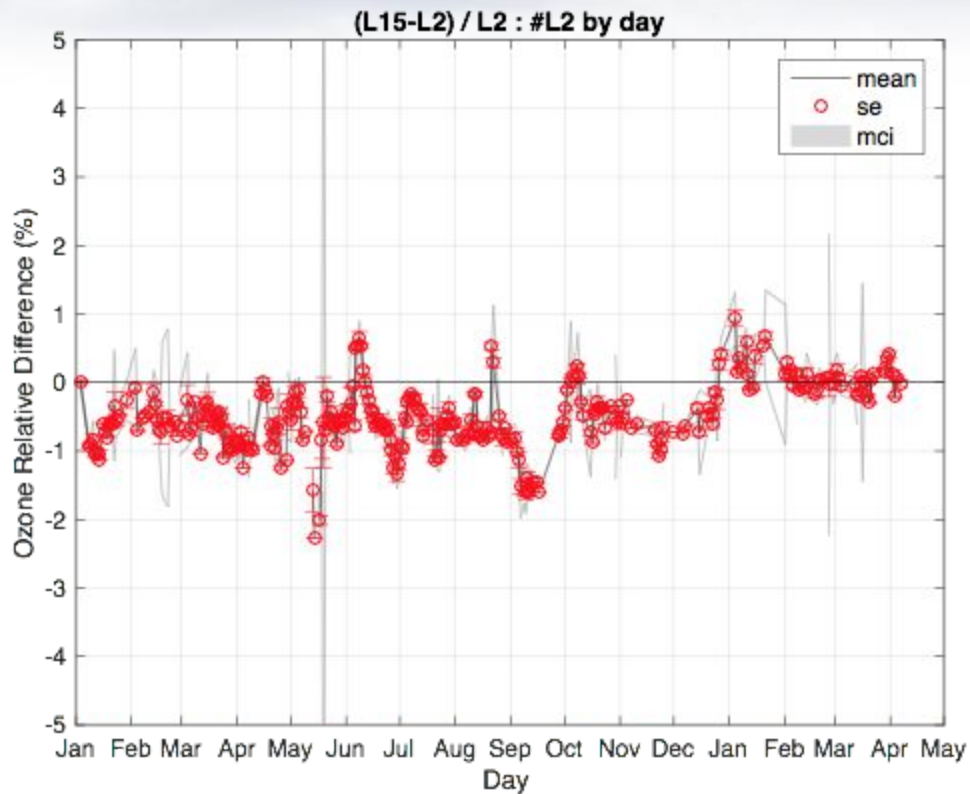




GOBIERNO
DE ESPAÑA

MINISTERIO
DE AGRICULTURA, ALIMENTACIÓN
Y MEDIO AMBIENTE

AEMet
Agencia Estatal de Meteorología

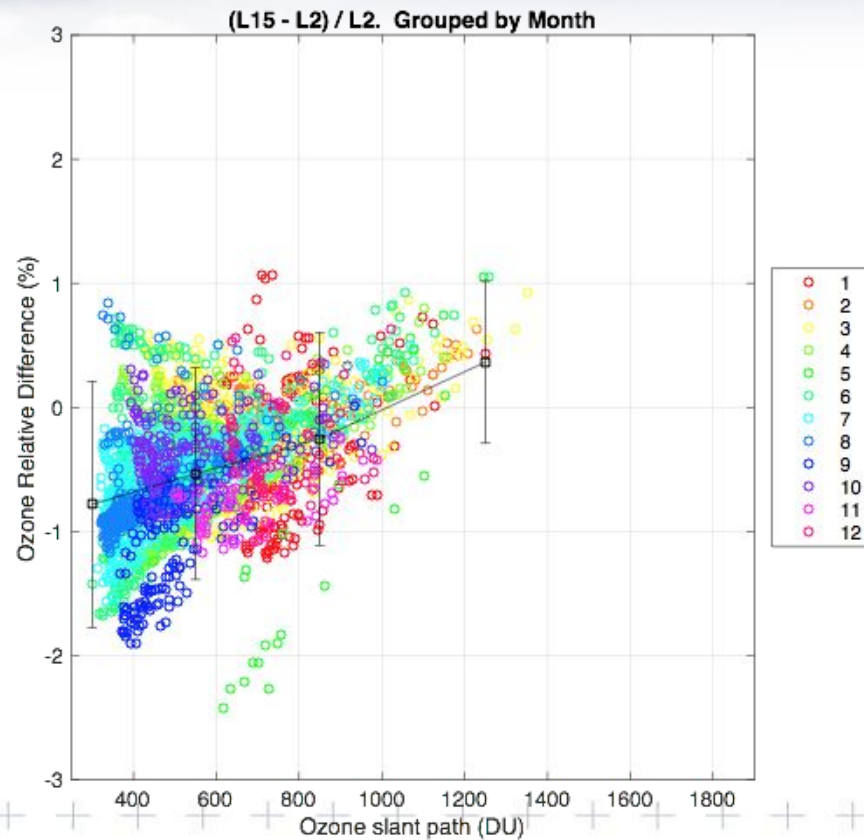
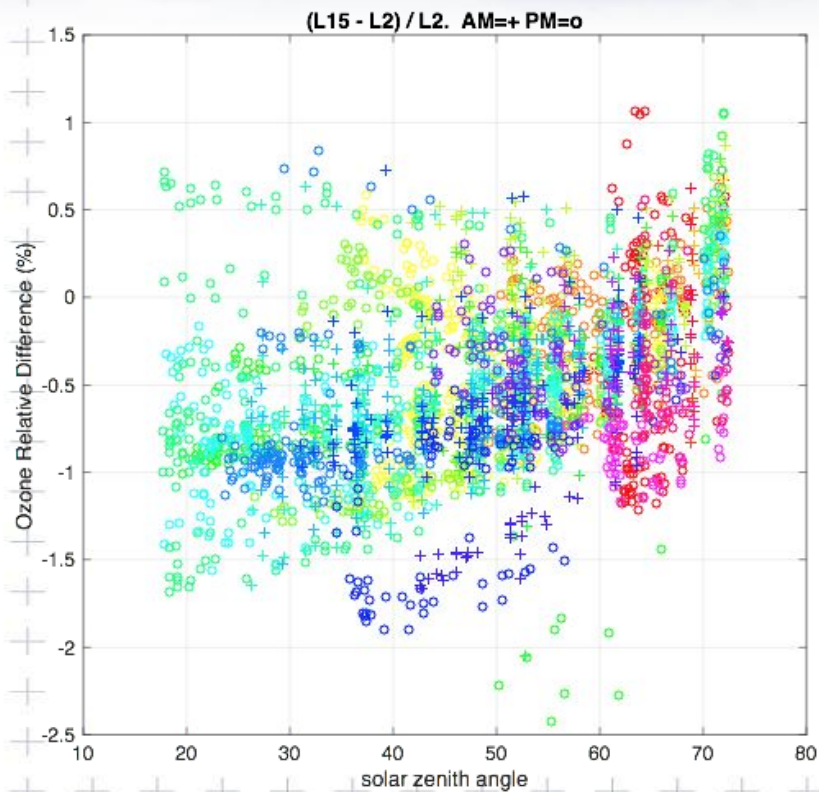




GOBIERNO
DE ESPAÑA

MINISTERIO
DE AGRICULTURA, ALIMENTACIÓN
Y MEDIO AMBIENTE

AEMet
Agencia Estatal de Meteorología

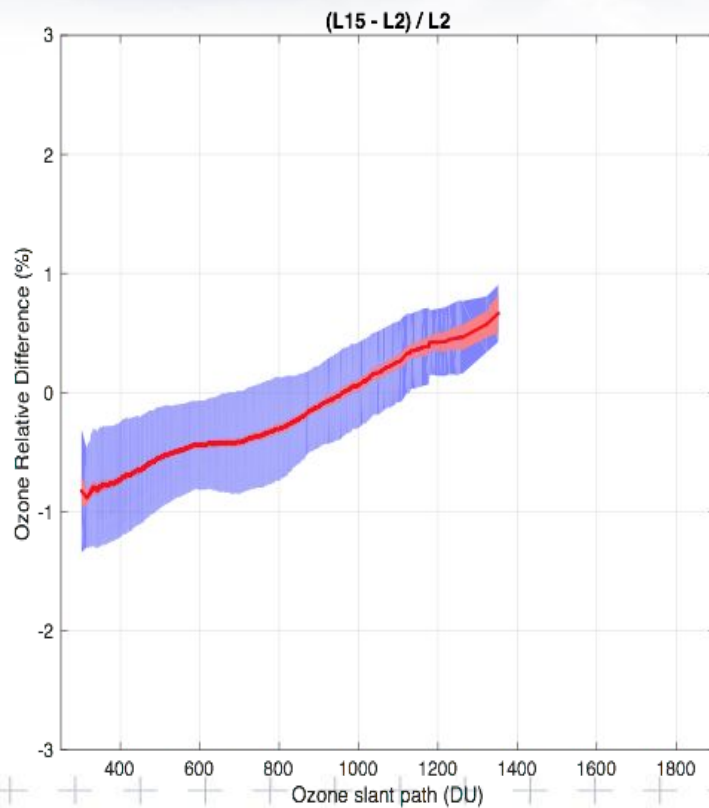




GOBIERNO
DE ESPAÑA

MINISTERIO
DE AGRICULTURA, ALIMENTACIÓN
Y MEDIO AMBIENTE

AEMet
Agencia Estatal de Meteorología





GOBIERNO
DE ESPAÑA

MINISTERIO
DE AGRICULTURA, ALIMENTACIÓN
Y MEDIO AMBIENTE



Filiación Completa

Alberto Redondas Marrero, RBCC-E site manager Izaña Atmospheric Research Centre, State Meteorological Agency of Spain.

Virgilio Carreño Corbella , RBCC-E researcher, Izaña Atmospheric Research Centre, State Meteorological Agency of Spain.

Alberto Berjón Arroyo, RBCC-E researcher, University of La Laguna, Spain.

