

File Revision Date:

September 15, 2022

Data Set Description

PI: Ankie Piters (piters@knmi.nl)  
Instrument: Ozonesonde  
Site: De Bilt, Royal Netherlands Meteorological Institute (KNMI)  
Latitude: 52.10 N  
Longitude: 5.18 E  
Altitude: 2 m ASL  
Measurement Quantities: Ozone, Temperature, Pressure, Humidity, Wind

Data Contact:

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Instrument Description

Sienco Pump Corporation ECC-6A ozone sensor  
Vaisala Radiosonde

Launch frequency

Normally there is one flight per week, usually Thursday at 12 UTC.

Data processing

Pre-flight procedures comply with:

"Ozonesonde OES User's Guide OES-TO533-1.3 April 1991, Vaisala Oy" and, since 2021, with the "Ozonesonde Measurement Principles and Best Operational Practices, ASOPOS 2.0", GAW report 268. From the start, all digital data from the ozone interface have been kept. This makes complete reprocessing possible.

All data have been reprocessed to comply with the "O3S-DQA-Guidelines Homogenization-V2-19November2012.pdf"

Instrument History

1992-11 first flight (microcora+basic)  
1994-11 2.5 → 3.0 cc solution used  
1997-07 Start ECC-6A

1997-10 RS80-15NE -> RS80-18LE  
1997-10 new groundstation digicora II MW15  
1998-08 ozone destruction filter used before launch (5 min)  
1998-11 pump temperature sensor used  
2001-03 last ECC-5A  
2001-10 start RS80-H (not sure)  
2005-10 RS80 →R S92-SGP radiosonde  
2007-02 calibrator TSC-0110  
2010-04 new groundstation (digicora III SPS 311)  
2017-01 RS92-SGP -> RS41-SGP radiosonde  
2017-09 water activated battery was replaced with lithium batteries  
2017-11 stopped exposing to HI-O3 on day of flight  
2019-10 new test unit EnSci KTU3  
2022-09 this document was last updated