

File Revision Date:

September 15, 2025

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

Sience Pump Corporation ECC-6A ozone sensor, EnSci-Z since 7 November 2024
Vaisala Radiosonde RS41

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	calibration 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
2019-10	start tachometer add-on
2022-09	stopped measuring IB2
2023-01	first test with EnSci model Z + SST0.5
2023-08	new test-unit EnSci KTU3
2024-02	strict criterium for IB0 (< 0.03)
2024-07	new groundstation (Vaisala SPS 311G, RI41-B, MW41 v 2.21)
2024-11	start operational flights with EnSci model Z, changed from SST1.0 to SST0.5
2025-08	changed from drierite to silicagel in external drying tube of KTU3 unit
2025-09	this document was last updated