File Revision Date:

23 September, 2025

Data Set Description

PI: Ankie Piters (piters@knmi.nl)

Instrument: Ozonesonde

Site: Paramaribo, Meteorological Service Suriname (MDS)

Latitude: 5.806 degrees
Longitude -55.214 degrees
Altitude: 7 meters ASL

Measurement Quantities: Ozone, Temperature, Pressure, Humidity, Wind

Data Contact

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Site Contact:

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Instrument Description

Sience Pump Corporation ECC-6A ozone sensor; switched to EnSci model Z on 22 April 2025 Vaisala Radiosonde RS41

Launch frequency

Normally there is one flight per week, on Monday around local noon.

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

1999-08	first flight (RS80+GPS)
2002-11	5 minutes of ground-data before launch
2005-09	RS80 -> RS92-SGP radiosonde
2006-10	checklist in digital form
2015-02	groundstation failed
2015-06	new groundstation installed
2015-06	change in sensing solution
2017-03	record of downward phase kept
2017-10	RS92-SGP -> RS41-SGP radiosonde
2017-11	stopped exposure to HI-O3 on day of flight
2018-08	water activated battery was replaced with lithium batteries
2020-06	new test unit EnSci KTU3
2024-03	new test unit EnSci KTU3
2024-03	stopped measuring IB2
2024-03	strict criterium for IBO (<0.03)
2025-04	start operational flights with EnSci model Z, changed from SST1.0 to SST0.5
2025-09	this document was last updated

Known issue

In 2015-06 we found that the recipe for the sensing solution was incorrect. It was corrected at that time. A transfer function was establised to correct the data prior to 2015-06. The corrected data has version number "03" or higher.