**Product User Guide and Specification for In situ temperature, wind and humidity from 1905 to present from radiosondes**

C3S\_311c\_Lot2\_UNIVIE

Access to early upper air observations

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# Summary

observational data is key in addressing climate change and

key is also the use of such data.

Previously this data has been scattered by institutions all over the world and everyone had "the" copy of data. It is clear from a user perspective that these observations should be kept together in a easily accessible manner.

# Data and Metadata Sources

The aim of this service is to create a

*“... quality-controlled global database containing all known digitised in-situ upper-air weather observations made prior to 1979, together with metadata and information needed for data assimilation such as bias adjustments and uncertainty estimates. The objective is to provide C3S-users with access to quality-assured observations of upper-air weather data for temperature, wind and humidity.”*

In order to deliver this data set, the following steps have been carefully developed and executed:

1. Data collection and source inventory
2. Conversion into the Common Data Model (CDM)
3. Data access and bias estimates
4. Quality assessment and uncertainty estimation

# Data Processing

# Quality **Assessment and Uncertainties**

# Examples

# Access

# Acknowledgements

References