AEROCLO-sA PEGASUS radiosondes

General information

Dataset name:	AEROCLO-sA PEGASUS radiosondes
Dataset DOI:	10.6096/AEROCLO.1806
Created on:	2020-01-24

Contact(s)

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Period

Date begin (yyyy-mm-jj):	2017-08-20
Date end (yyyy-mm-jj):	2017-09-13

Project(s)

AEROCLO

Data description

Abstract

Radiosonde data launched from surface level at the SANUMARC research center in Henties Bay, Namibia.

Data provided are

*clean.csv files with processed data

AEROCLO-radiosondes_clean_plots: # plots with outliers removed.

AEROCLO-radiosondes _tephi_plots/ #skewT plots of the clean data. Winds are thinned by plotting 1 in every 3.

Observing strategy

Individual launches as much as possible syncronised to the F20 aircraft flights.

References

Formenti, P., B. D?Anna, C. Flamant, M. Mallet, S.J. Piketh, K. Schepanski, F. Waquet, F. Auriol, G. Brogniez, F. Burnet, J. Chaboureau, A. Chauvigné, P. Chazette, C. Denjean, K. Desboeufs, J. Doussin, N. Elguindi, S. Feuerstein, M. Gaetani, C. Giorio, D. Klopper, M.D. Mallet, P. Nabat, A. Monod, F. Solmon, A. Namwoonde, C. Chikwililwa, R. Mushi, E.J. Welton, and B. Holben, 2019: The Aerosols, Radiation and Clouds in Southern Africa Field Campaign in Namibia: Overview, Illustrative Observations, and Way Forward. Bull. Amer. Meteor. Soc., 100, 1277?1298, https://doi.org/10.1175/BAMS-D-17-0278.1

Instrument information

Sensor

Instrument type:	Profilers/Sounders
Model:	IMET1-ABXN

Sensor resolution

Observation frequency:	sporadic
Horizontal coverage:	Depending on wind
Vertical coverage:	up to 250 hPa

Geographic information

Henties Bay

Location name:	Henties Bay
Plateform type:	GROUND STATIONS

Measured parameters

Wind Direction

Parameter keyword:	Atmosphere > Atmospheric Winds > Wind Direction
Unit:	degrees - degrees

Wind Speed

Parameter keyword:	Atmosphere > Atmospheric Winds > Wind Speed
Unit:	meters per second - m/s

Vertical Profiles

Parameter keyword:	Atmosphere > Atmospheric Temperature > Upper Air Temperature > Vertical Profiles
Unit:	Degrees Celsius - °C

Atmospheric Pressure Measurements

Parameter keyword:	Atmosphere > Atmospheric Pressure > Atmospheric Pressure Measurements
Unit:	hecto Pascal - hPa

Data use information

Use constraints:	The Principal Investigator(s) of the radiosonde data for the AEROCLO-sA campaign is Stuart John Piketh. If you intend to use the following data please consult with him via e-mail: Stuart.Piketh@nwu.ac.za. Please consider authorship for the PI whenever using the data. They were acquired with the support of Stephen Broccardo (NWU). Data were processed and formatted with the help of Michael Weston (NWU). The CRG at NWU is a research entity based in Potchefstroom, South Africa.
Data policy:	AEROCLO data policy
Database:	AEROCLO-sA on BAOBAB
Original data format(s):	csv file (comma separated values) png