



Northeastern German Lowland Observatory

The data will be made available as part of the TERENO data via the TERENO data portal on : <http://www.tereno.net/overview-de> and by GFZ dataservices under the following url: <http://dataservices.gfz-potsdam.de/portal/>.

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This metadata report was automatically derived from available measured data and stored metadata using the rmarkdown package. In case of inconsistencies or recommended improvements please contact the responsible author of this dataset.

Station Information Beggerow :

Name: Beggerow

Type: Climate station

Owner: German Aerospace Center (DLR)

DOI: 10.5880/TERENO.DLR.2018.003

Status: active

Location WGS84: E: 13.0219 °, N: 53.8367 °, Alt: 999 [m] a.s.l.

Start of operation: 2012-11-19

End of operation: -

The station is located on a small wind farm on grassland, surrounded by agricultural used fields.

Variable list (alphabetical):

BatteryVoltage LeafWetness Precipitation PyranometerCMP3incoming Radioerrortateshort RelativeHumidity
Soilmoisture10cm Soilmoisture20cm Soilmoisture30cm Soilmoisture40cm Soilmoisture50cm Soilmoisture60cm
Soilmoisture70cm Soilmoisture80cm Soilmoisture90cm Soiltemperature15cm Soiltemperature45cm Soiltem-
perature75cm Temperature WindDirection WindSpeed

Sensor and variable information:

Anemometer

Sensor specifications:

name	type	manufacturer	installation_date	removed_on	serial	height
Anemometer	Windspeed Pro10	Adcon Telemetry	2012-11-20 00:15:00			2.5

Variables

Variable	Unit
WindSpeed	km/h

CMP3

Sensor specifications:

name	type	manufacturer	installation_date	removed_on	serial	height
CMP3	Pyranometer	CMP3	Kipp & Zonen	2013-08-17 00:15:00		1.7

Variables

Variable	Unit
PyranometerCMP3incoming	W/m ²

RTU

Sensor specifications:

name	type	manufacturer	installation_date	removed_on	serial	height
RTU	Remote Transmission Unit	Adcon Telemetry	2012-11-20 00:15:00			2.5

Variables

Variable	Unit
BatteryVoltage	V
Radioerrorrateshort	percent

RainGauge

Sensor specifications:

name	type	manufacturer	installation_date	removed_on	serial	height
RainGauge	RG Pro Rain Gauge	Adcon Telemetry	2012-11-20 00:15:00			1

Variables

Variable	Unit
Precipitation	mm

SEN-R

Sensor specifications:

name	type	manufacturer	installation_date	removed_on	serial	height
SEN-R	TR1 Combisensor Temp. Humid	Adcon Telemetry	2012-11-20 00:15:00			1.7

Variables

Variable	Unit
Temperature	degree_Celsius
RelativeHumidity	percent

SM1

Sensor specifications:

name	type	manufacturer	installation_date	removed_on	serial	height
SM1	SM1 Soil Moisture Sensor	Adcon Telemetry	2013-08-25 00:15:00			

Variables

Variable	Unit
Soiltemperature75cm	degree_Celsius
Soiltemperature45cm	degree_Celsius
Soiltemperature15cm	degree_Celsius
Soilmoisture90cm	percent
Soilmoisture80cm	percent
Soilmoisture70cm	percent
Soilmoisture60cm	percent
Soilmoisture50cm	percent
Soilmoisture40cm	percent
Soilmoisture30cm	percent
Soilmoisture20cm	percent
Soilmoisture10cm	percent

WET

Sensor specifications:

name	type	manufacturer	installation_date	removed_on	serial	height
WET	WET Leaf Wetness Sensor	Adcon Telemetry	2013-08-17 00:15:00			1.7

Variables

Variable	Unit
LeafWetness	1

WindVane

Sensor specifications:

name	type	manufacturer	installation_date	removed_on	serial	height
WindVane	Wind Direction Pro10	Adcon Telemetry	2012-11-20 00:15:00			2.5

Variables

Variable	Unit
WindDirection	degree

Flag value information:

Table 17: Flag value table

Flag value	Meaning	Translation	Flag system
1	valid data	good	simple
-999	missing data	missing	simple
-998	exceeding range minimum	bad	simple
-997	exceeding range maximum	bad	simple
-996	dead signal, signal does not change within signal specific interval	bad	simple
-995	amplitude change unreasonable high	bad	simple
-994	standard deviation for signal specific interval is too big	suspicious	simple
-993	manual deactivation	bad	simple
-992	precipitation exceeding 6h maximum limit	bad	simple
-991	precipitation exceeding 12h maximum limit	bad	simple
-990	precipitation exceeding 24h maximum limit	bad	simple
-989	precipitation exceeding 2d maximum limit	bad	simple
-988	precipitation exceeding 5d maximum limit	bad	simple
-899	not detected area wide precipitation event	suspicious	simple
2	sensor drift corrected data	recalibrated	adjusted
-501	substituted value exceeding valid range	estimated	adjusted
-499	value substituted using linear regression from other station	estimated	adjusted
-498	value substituted using identical value from other station	estimated	adjusted
-489	value substituted using linear regression from DWD station	estimated	adjusted
-488	value substituted using identical value from DWD station	estimated	adjusted
-479	value substituted using spline interpolation in time	estimated	adjusted
-478	value substituted using linear interpolation in time	estimated	adjusted