

Reduced set of fields from example file generated by 'real' Cumulus		Contents	HWA Application	Domoticz		Meteotemplate		Script-operation	Remarks
#		Short description	B = Basic/Basis O = Option/ Optie D = Don't care	svalue	API/ JSON	Plugin wuUpload	Script StationFeed	Generation of data-contents	
	The HWA-server looks at strings as defined below. Besides BOF and EOF, comprising lines with \$ followed by text, closed by "<data>" Only format as listed will be considered for processing: other format neglected.								Fields marked B are mandatory for the minimal uploadfile for HWA. Fields marked O are optional, with data to be used if presented. Contents of fields marked D will not be used at the HWA-server. If no meaningful contents available, then minimal placeholder-content per field is --- If the file is uniquely generated for HWA-application, then all light & dark blue-marked fields may be deleted.
0	BOF	File-Header	B						Fixed contents/ character-string
1	\$stationDate = "07-01-2021";	Local Date (CET)	B		x	tobesplit	x	x	Extract in script
2	\$stationTime = "18:30";	Local time (CET)	B		x	tobesplit	x	x	Extract in script
3	\$tempUnit = "°C";	Unit	O			F	x		Fixed contents/ character-string
4	\$humUnit = "%";	Unit	O			%	x		Fixed contents/ character-string
5	\$barUnit = "hPa";	Unit	O			in	x		Fixed contents/ character-string
6	\$rainUnit = "mm";	Unit	O			in	x		Fixed contents/ character-string
7	\$rateUnit = "mm/hr";	Unit	O				x		Fixed contents/ character-string
8	\$windUnit = "km/h";	Unit	O			mph	x		Fixed contents/ character-string
9	\$sunriseTime = "08:45";	Sunrise (CET)	B		x			x	Extract in script
10	\$sunsetTime = "16:32";	Sunset (CET)	B		x			x	Extract in script
11	\$outsideTemp = "1,2";	Current Temperature	B	x	x	x	x	x	Extract in script
12	\$hiOutsideTemp = "3,3";	Highest Temp. Today	B				x	x	Calculate in script/ from Database?
13	\$lowOutsideTemp = "0,6";	Lowest Temp. Today	B				x	x	Calculate in script/ from Database?
14	\$lowOutsideTempTime = "00:00";	Time of Lowest Temp.	B					x	Calculate in script/ from Database?
15	\$hiOutsideTempTime = "13:54";	Time of Highest Temp.	B					x	Calculate in script/ from Database?
16	\$outsideHumidity = "97";	Current Humidity	B	x	x	x	x	x	Extract in script
17	\$lowHumidity = "----";	Highest Hum. Today	D				x	x	Calculate in script/ from Database?
18	\$hiHumidity = "----";	Lowest Hum. Today	D				x	x	Calculate in script/ from Database?
19	\$lowHumTime = "----";	Time of Lowest Hum.	D					x	Calculate in script/ from Database?
20	\$hiHumTime = "----";	Time of Highest Hum.	D					x	Calculate in script/ from Database?
21	\$outsideDewPt = "0,8";	Current Dewpoint	B	x	x	x	x	x	Extract in script
22	\$windSpeed = "0,0";	Current Windspeed	O	x	x	x	x	x	Extract in script
23	\$wind10Avg = "0,0";	Average Windspeed	B			?		x	Calculate in script/ from Database?
24	\$hiWindSpeed = "3,0";	Highest Windgust	B				x	x	Calculate in script/ from Database?
25	\$hiWindSpeedTime = "13:14";	Time of Highest Windgust	B					x	Calculate in script/ from Database?
26	\$windDir = "313";	Current Winddirection (number)	O	x	x	x	x	x	Extract in script
27	\$windDirection = "-";	Current Winddirection (text)	B	x	x		x	x	Extract in script
28	\$windChill = "1,2";	Current Windchill	B				apparent Temp?	x	Calculate in script/ from Database? [fill-in is more important than preference for formula]
29	\$outsideHeatIndex = "1,2";	Current HeatIndex	O				apparent Temp?	x	Calculate in script/ from Database?
30	\$barometer = "1010,3";	Actual pressure at MSL	B	x	x	x	x	x	Extract in script
31	\$barTrend = "Rising slowly";	Pressure Trend	O					x	Calculate in script/ from Database?
32	\$lowBarometer = "1009,6";	Lowest Pressure Today	O				x	x	Calculate in script/ from Database?
33	\$hiBarometer = "1013,0";	Highest Preessure Today	O				x	x	Calculate in script/ from Database?
34	\$lowBarometerTime = "14:46";	Time Lowest	O					x	Calculate in script/ from Database?
35	\$hiBarometerTime = "00:00";	Time Highest Rain Rate	O					x	Calculate in script/ from Database?
36	\$dailyRain = "1,6";	Rain Today	B	x	x	x	x	x	Extract in script
37	\$monthlyRain = "4,8";	Rain This Month	B					x	Calculate in script/ from Database?
38	\$rainRate = "0,0";	Rain This Hour	O	x	x		x	x	Extract in script
39	\$solarRad = "0";	SolarRadiation	O	x	x	x	x	x	Extract in script
40	\$hiSolarRad = "----";		O					x	Calculate in script/ from Database?
41	\$hiSolarRadTime = "----";		O					x	Calculate in script/ from Database?
42	\$uv = "0,0";	UVI	O	x	x		x	x	Extract in script
43	\$hiUV = "----";		O					x	Calculate in script/ from Database?
44	\$hiUVTime = "----";		O					x	Calculate in script/ from Database?
45	\$cumulusversion = "Versie 3.9.4, build 3099"	Software for generation	O				x	x	"Cumulus-application by xxxx"
46	EOF	File-closure	B						Fixed contents/ character string

Some stations add fields with geographical & status information
in the section following BOF

Application since
january 2021

This information should first be provided in the list of values for application of the station.

\$stationAlt = "5";	D						To be determined how to process if the station becomes mobile
\$stationLon = "3.742904";	D				x		To be determined how to process if the station becomes mobile
\$stationLat = "51.160928";	D				x		To be determined how to process if the station becomes mobile
\$altUnit = "m";	D						To be determined how to process if the station becomes mobile
\$stationStatus = "ONLINE";	D						Any other report than 'ONLINE' indicates that stationdata is invalid
\$stationWithRainModule = "YES";	D						Configuration info indicating whether Rain-module is part of configuration
\$stationWithWindModule = "NO";	D						Configuration info indicating whether Anemo-module is part of configuration

Formula/ Classification for barotrend as found in Davis-documentation and at weather-forums.

Barotrend [text/tekst]	Formula
Snel stijgend / Rising rapidly	barorate >= +2 hPa/3hr
Stijgend / Rising	+1 hPa/3hr <= barorate < +2 hPa/3hr
Langzaam stijgend / Rising slowly	+0,7 hPa/3hr < barorate < +1 hPa/3hr
Stabiel / Steady	-0,7 hPa/3hr <= barorate <= +0,7 hPa/3hr
Langzaam dalend / Falling slowly	-1 hPa/3hr < barorate < -0,7 hPa/3hr
Dalend / Falling	-2 hPa/3hr < barorate <= -1 hPa/3hr
Snel dalend / Falling rapidly	barorate <= -2 hPa/3hr

Decoding/classification as used by AWEKAS

N	Formula for numeric 5 levels
2	barorate >= +2 hPa/3hr
1	+1 hPa/3hr <= barorate < +2 hPa/3hr
0	-1 hPa/3hr < barorate < +1 hPa/3hr
-1	-2 hPa/3hr < barorate <= -1 hPa/3hr
-2	barorate <= -2 hPa/3hr