PUBLIC WEATHER MEDIA SERVICE – PRODUCT DESCRIPTIONS

Spot observations

PRODUCT CODE – PWMS035

Release: 2.0

Date: 27 May 2016

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Client: PWMS

Document Number: 1

Product Description History

Document Location

This document is only valid on the day it was printed.

Revision History

Date of this revision: 27th May 2016
Date of Next revision: 1st June 2017

Revision date	Summary of Changes
27 May 2016	First issue

Distribution

This document has been distributed to

Name	Title	Date of Issue	Version

Product Description

Site specific observations for up to 7,000 locations across the globe updated as observed at each site, to recognised WMO standards, as available, including "Feels Like" data in this feed

Product Title

Spot observations

Purpose of the Product

For use on:
- Broadcast graphics
- Online Services

Data Parameters Supplied

1. Wind Direction (16 point compass)
2. Wind Speed (mph)
3. Temperature (whole degrees Celsius)
4. Weather (weather code)
5. Visibility (descriptive term)
6. Pressure (hPa)
7. Pressure Tendency (code figure)
8. Humidity (%)
9. Wind gust (mph)
10. Feels like (whole degrees Celsius)

Each line contains the following comma delimited fields:

Field number and description	Example Contents	Null Values
1. Site Name	Characters e.g. = **Exeter**	
2. Site Latitude	Latitude (Decimal Degrees) e.g. = 48.51	
3. Site Longitude	Longitude (Decimal Degrees) e.g. = -122.612	
4. US State (where available)	Characters e.g. = Alabama	
5. Country	Characters e.g. = **United Kingdom**	
6. Continent	Characters e.g. = **Europe**	
7. WMO ID	Numeric i.e. 40831	-99
8. Hour	hhmm = observation time	
9. Day	'Sun', 'Mon', Tue', Wed', Thu', 'Fri' or 'Sat'	
10. Date of observation	DD e.g. = **05**	
11. Month	MM e.g. = **08**	
12. Year	YYYY e.g. = **2010**	
13. Wind Direction	'N', 'NNE', 'NE','ENE', 'E', 'ESE', 'SE', 'SSE', 'S', 'SSW', 'SW', 'WSW', 'W', 'WNW', 'NW' or 'NW'	N/A
14. Wind Speed	Integer – mph	-99
15. Screen Temperature	Integer – Degrees celsius	-99
16. Weather	Code – see decode	-99
17. Visibility	2 character code – see decode	-99
18. Mean Sea Level Pressure	Integer – millibars	-99
19. Pressure tendency	Code – see decode	N
20. Relative Humidity	Integer – percentage	-99
21. Wind gust	Integer – mph	-99
22. Feels Like Temperature	Integer – degrees celsius	-99
23. Fields 12 to 22 inclusive are repeated for each forecast site		

Visibility Decode

Visibility	Description	Code
< 1000 m	Very poor	VP
< 4000 m	Poor	PO
< 10000 m	Moderate	MO
< 20000 m	Good	GO
< 40000 m	Very good	VG
>= 40000 m	Excellent	EX

Significant Weather Decode

Code	Decode
-99	N/A
0	Clear sky (Night)
1	Sunny (Day)
2	Partly cloudy (Night)
3	Sunny intervals
4	Dust storm
5	Mist
6	Fog
7	(White) Medium-level cloud
8	(Black) Low-level cloud
9	Light rain shower (Night)
10	Light rain shower (Day)
11	Drizzle
12	Light rain
13	Heavy rain shower (Night)
14	Heavy rain shower (Day)
15	Heavy Rain
16	Sleet shower (Night)
17	Sleet shower (Day)
18	Sleet
19	Hail shower (Night)
20	Hail shower (Day)
21	Hail
22	Light snow shower (Night)
23	Light snow shower (Day)
24	Light snow
25	Heavy snow shower (Night)
26	Heavy snow shower (Day)
27	Heavy snow
28	Thundery shower (Night)
29	Thundery shower (Day)
30	Thunder storm
31	Tropical storm

Pressure Tendency Decode

Code	Decode
R	Rising
S	Steady
F	Falling

Data Timesteps Supplied

Lead Time: observations available at hourly, 3 hourly or 6 hourly intervals as reported by WMO sites
Temporal Resolution: Hourly, 3 hourly or 6 hourly, as available

Frequency of Issue

Hourly

Format of Output File

CSV
Filename is EX1778_UK_Land_SeaObs_ddMMyy_HHmmss.CSV

Delivery Method

FTP pull from PWMS FTP (FTPWEB)

Roles and Responsibilities

Met Office – Corinne George