Met Office

PUBLIC WEATHER MEDIA SERVICE – PRODUCT DESCRIPTIONS

UK & Global site specific daily forecast data

PRODUCT CODE – PWMS042

Release: 2.0

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Author: Colin Seddon

Owner: Corinne George

Client: PWMS

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Contact us

0370 900 0100 0370 900 5050 pwms@metoffice.gov.uk www.metoffice.gov.uk

Met Office, FitzRoy Road, Exeter, Devon, EX1 3PB, United Kingdom

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 forecasts for 7 days at daily intervals for locations across the globe updated hourly.

Product Title

UK & Global Site Specific Forecast Daily Data

Purpose of the Product

For use on:

- Broadcast
- Online Services

Data Parameters Supplied

1. Wind Direction at 1200 UTC (16 point compass)
2. Wind Speed at 1200 UTC (mph)
3. Maximum Temperature (whole degrees Celsius)
4. Minimum Temperature (whole degrees Celsius)
5. Daytime Weather (code figure)
6. Wind Speed at 2400 UTC (mph)
7. Wind Direction at 2400 UTC (16 point compass)
8. Mean sea level pressure at 1200 UTC (whole hPa)
9. Mean sea level pressure at 2400 UTC (whole hPa)
10. Night-time weather (code figure)
11. Relative Humidity at 1200 UTC (%)
12. Relative Humidity at 2400 UTC (%)
13. Visibility at 1200 UTC (descriptive term)
14. Visibility at 2400 UTC (descriptive term)
15. Wind gust at 1200 UTC (mph)
16. Wind gust at 2400 UTC (mph)
17. Feels like temperature for maximum temperature (whole degrees Celsius)
18. Feels like temperature for minimum temperature (whole degrees Celsius)
19. UV – max index value for the day
20. Lower boundary for Maximum Temperature (whole degrees Celsius)
21. Upper boundary for Maximum Temperature (whole degrees Celsius)
22. Lower boundary for Minimum Temperature (whole degrees Celsius)
23. Upper boundary for Minimum Temperature (whole degrees Celsius)
24. Lower boundary for Feels like temperature for maximum temperature (whole degrees Celsius)
25. Upper boundary for Feels like temperature for maximum temperature (whole degrees Celsius)
26. Lower boundary for Feels like temperature for minimum temperature (whole degrees Celsius)
27. Upper boundary for Feels like temperature for minimum temperature (whole degrees Celsius)
28. Most likely high (max) temperature (whole degrees Celsius)
29. Most likely low (min) temperature (whole degrees Celsius)
30. Most likely Feels like temperature for high (max) temperature (whole degrees Celsius)

31. Most likely Feels like temperature for low (min) temperature (whole degrees Celsius)

Each line contains the following comma delimited fields:

Field number and description	Contents	Missing Values default code
1. Site Name	Characters e.g. = **Nashville**	
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 = **Tennessee**	
5. Country	Characters = **United States of America**	
6. Continent	Characters = **N.America**	
7. Type (of forecast site)	**(BLANK)**	
8. Hour (of forecast start point,day 1, 2, 3, 4, or 5)	HHHH e.g. always = **0600**	
9. Day (of forecast start point, day 1, 2, 3, 4 or 5)	'Sun', 'Mon', Tue', Wed', Thu', 'Fri' or 'Sat'	
10. Date of first forecast day 1, 2, 3, 4, or 5	DD e.g. = **01** for 1st of the month	
11. Month	MM e.g. = **02** for February	
12. Year	YYYY e.g. = **2010**	
13. Wind Direction at noon – ID (Day 1)	'N', 'NNE', 'NE','ENE', 'E', 'ESE', 'SE', 'SSE', 'S', 'SSW', 'SW', 'WSW', 'W', 'WNW', 'NW' or 'NW'	N/A
14. Wind Speed at noon (Day 1)	Integer - mph	-99
15. Maximum day-time temperature (Day 1)	Integer – degrees Celsius (sunrise to sunset day 1)	-99
16. Minimum night-time temperature (Day 1)	Integer – degrees Celsius (sunset day 1 – sunrise day 2)	-99
17. Significant Weather (Day 1)	Integer – see decode table	-99
18. Wind Speed at midnight (Day 1)	Integer - mph	-99
19. Wind Direction at midnight (Day 1)	'N', 'NNE', 'NE','ENE', 'E', 'ESE', 'SE', 'SSE', 'S', 'SSW', 'SW', 'WSW', 'W', 'WNW', 'NW' or 'NW'	N/A
20. Mean Sea Level Pressure - noon (Day 1)	Integer - millibars	-99
21. Mean Sea Level Pressure - midnight (Day 1)	Integer - millibars	-99
22. Significant Weather – Night (Day 1)	Integer – see decode table	-99
23. Relative Humidity at noon (Day 1)	Integer - percentage	-99
24. Relative Humidity at midnight (Day 1)	Integer - percentage	-99
25. Visibility at noon (Day 1)	Integer – see decode table	-99
26. Visibility at midnight (Day 1)	Integer – see decode table	-99
27. Wind gust at noon (Day 1)	Integer - mph	-99
28. Wind gust at midnight (Day 1)	Integer - mph	-99
29. Feels like temperature for maximum temperature	Integer – degrees Celsius (sunrise to sunset day 1)	-99
30. Feels like temperature for minimum temperature	Integer – degrees Celsius (sunset day 1 – sunrise day 2)	-99
31. UV index (Day 1)	Max index value for the day	-99
32. Fields 12 to 30 inclusive are repeated for each subsequent day i.e. day 2, day 3, day 4 & day 5		
33. Lower boundary for maximum temperature (Day 1)	Integer – degrees Celsius (sunrise to sunset day 1)	-99
34. Upper boundary for maximum temperature (Day 1)	Integer – degrees Celsius (sunrise to sunset day 1)	-99
35. Lower boundary for minimum temperature (Day 1)	Integer – degrees Celsius (sunset day 1 – sunrise day 2)	-99
36. Upper boundary for minimum temperature (Day 1)	Integer – degrees Celsius (sunset day 1 – sunrise day 2)	-99
37. Lower boundary for feels like temperature for maximum temperature (Day 1)	Integer – degrees Celsius (sunrise to sunset day 1)	-99
38. Upper boundary for feels like temperature for maximum temperature (Day 1)	Integer – degrees Celsius (sunrise to sunset day 1)	-99
39. Lower boundary for feels like temperature for minimum temperature (Day 1)	Integer – degrees Celsius (sunset day 1 – sunrise day 2)	-99
40. Upper boundary for feels like temperature for minimum temperature (Day 1)	Integer – degrees Celsius (sunset day 1 – sunrise day 2)	-99
41. Most likely maximum temperature (Day 6)	Integer – degrees Celsius (sunrise to sunset day 1)	-99
42. Most likely minimum temperature (Day 6)	Integer – degrees Celsius (sunset day 1 – sunrise day 2)	-99

43. Most likely feels like temperature for maximum temperature (Day 6)	Integer – degrees Celsius (sunrise to sunset day 1)	-99
44. Most likely feels like temperature for minimum temperature (Day 6)	Integer – degrees Celsius (sunset day 1 – sunrise day 2)	-99
45. Fields 32 to 43 inclusive are repeated for day 7		

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

Data Timesteps Supplied

Lead Time: 7 days

Frequency of Issue

Hourly

Format of Output File

CSV

EX0000_UK_SS_Daily_FX_ddMMyy_HHmmss.CSV

Delivery Method

FTP pull from PWMS FTP (FTPWEB)

Roles and Responsibilities

Met Office – Corinne George