

PUBLIC WEATHER MEDIA SERVICE – PRODUCT DESCRIPTIONS

UK and surrounding area gridded forecast data

PRODUCT CODE – PWMS001

Release: 2.0

Date: 27 May 2016

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Client: PWMS

Document Number: 1

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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

Low resolution model data of 17km, for the UK and surrounding area updated four times per day for hourly intervals to T+36 to 72 (6 hourly intervals) and T+84 to 132 (12 hourly intervals). Data is reviewed and modified by the Met Office, Chief Forecaster to ensure consistency with the meteorological 'story' for the period and used in medium range chart production.

Product Title

Forecast data for the UK and surrounding area

Purpose of the Product

For use on:

- Broadcast graphics
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Data Parameters Supplied

The following parameters are used:

Parameter	Units	GRIB	Levels	00z, 12z
Fog Fraction at 1.5m	fraction	0/130	ground surface	T+36,42,48,54,60,66,72,84,96,108,120,132
High cloud cover	fraction	0/75	ground surface	T+36,42,48,54,60,66,72,84,96,108,120,132
Low cloud cover	fraction	0/73	ground surface	T+36,42,48,54,60,66,72,84,96,108,120,132
Medium cloud cover	fraction	0/74	ground surface	T+36,42,48,54,60,66,72,84,96,108,120,132
MSL pressure	Pa	0/2	mean sea	T+36,42,48,54,60,66,72,84,96,108,120,132
Rate of convective rain	kg/m ² s	0/144	ground surface	T+36,42,48,54,60,66,72,84,96,108,120,132
Rate of convective snow	kg/m ² /s	0/147	ground surface	T+36,42,48,54,60,66,72,84,96,108,120,132
Rate of dynamic rain	kg/m ² s	0/143	ground surface	T+36,42,48,54,60,66,72,84,96,108,120,132
Rate of dynamic snow	kg/m ² s	0/146	ground surface	T+36,42,48,54,60,66,72,84,96,108,120,132

Relative Humidity	%	0/52	2m	T+36,42,48,54,60,66,72,84,96,108,120,132 (Note that T+132 is not currently available in UKMO Global data supply)
Air Temperature	K	0/11	850hpa 300hpa 2m	T+36,42,48,54,60,66,72,84,96,108,120,132
Thickness	Gpm	0/164	500-1000hpa	T+36,42,48,54,60,66,72,84,96,108,120,132
Visibility	M	0/20	ground surface	T+36,42,48,54,60,66,72,84,96,108,120,132
Wet Bulb potential Temp	K	0/128	850hpa	T+36,42,48,54,60,66,72,84,96,108,120,132
Wind - U ground	m/s	0/33	850hpa 700hpa 400hpa 300hpa 10m	T+36,42,48,54,60,66,72,84,96,108,120,132
Wind - V ground	m/s	0/33	850hpa 700hpa 400hpa 300hpa 10m	T+36,42,48,54,60,66,72,84,96,108,120,132

All the above parameters should be produced 6 hourly time steps from T+36 to 72 and 12 hourly intervals T+84 to 132 inclusive on both runs per day.

Data Timesteps Supplied

Lead Time: 5 days

Temporal Resolution: 6 Hourly, (T+36, T+72) 12 hourly (T+84 to T+132)

Horizontal Resolution: 17 km

Frequency of Issue

2 times per day

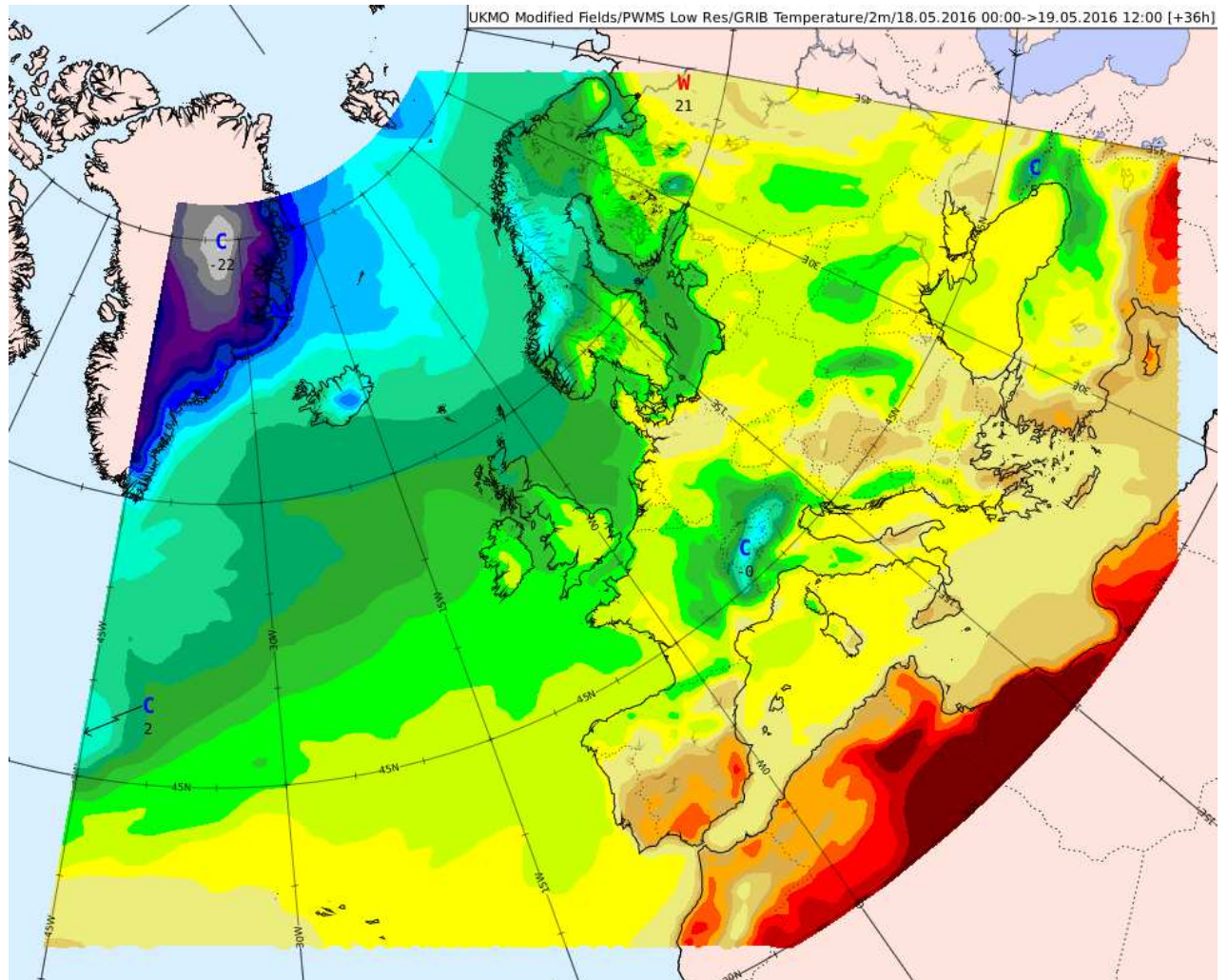
Format of Output File

GRIB 1 format

GRIB files will be split into files containing one parameter and one timestep for UK area.

The approximate file size per run is 20MB

Lat, long grid covering the sub area as shown below



01	Geographical Boundary	<ul style="list-style-type: none">• Top left: 77°N 45°W• Bottom right: 30°N 45°E
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Delivery Method

FTP pull from PWMS FTP (FTPWEB)

The file names will be in the format:

UK_Low_Res_PartX_YYYYMMDD_HHMMSS.grb

X has the possible values 1,2 or 3

Roles and Responsibilities

Met Office – Corinne George