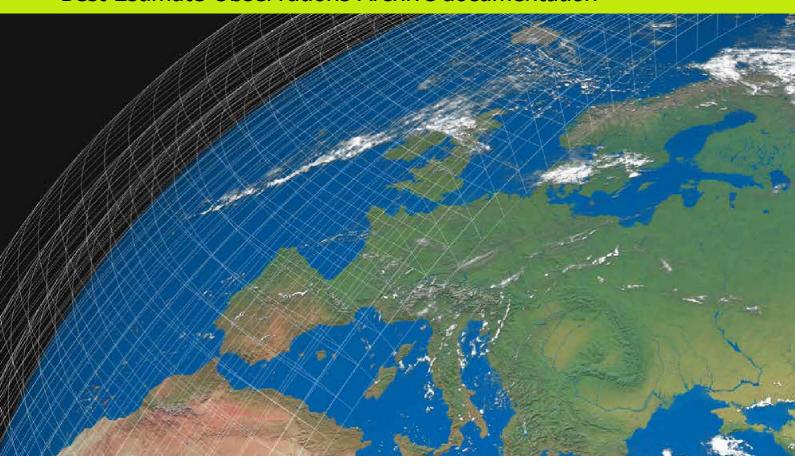# Met Office

Best Estimate Observations Archive documentation

DESCRIPTION

We've developed this archive to help you excel in identifying weather impacts on your business and use this actionable intelligence to plan effectively and enhance your results. Customers often require historic data to help them identify weather sensitivities behind trends in historic sales data. They want to be able to be able to predict likely sales patterns that will develop as a result of forecast weather. This can allow them to manage supply, anticipate footfall, target promotions and even manage staffing levels.

WHAT IS IN THIS PRODUCT?

This product includes our archive of "best estimate" observations since 2011. These data are sourced from our Nowcast Analysis. This combines our station, satellite and radar observations onto a 2km grid, with terrain adjustment to interpolate between station locations, giving a best estimate of actual weather conditions in population centers.

PARAMETERS

Hourly Data

Abbrev.	Parameter Name	Unit	Precision
VT{HH}	Valid Hour	YYYYMMDDhhmm	Int
SiteID	SSPA Identifier (Postcode Sector Mapping - csv)	Code	Int
Sin_Phi	Solar Elevation Angle (Day/Night Indicator)	Rad	3dp
Tscreen	Instantaneous Screen Temperature	degC	1dp
Tx	Maximum Screen Temperature in previous hour	degC	1dp
Tn	Minimum Screen Temperature in previous hour	degC	1dp
T*	Instantaneous ('Gridbox Mean') Surface Temperature	degC	1dp
FLT	Instantaneous Feels Like Temperature (Wind Chill/Heat Stress)	degC	1dp
RH	Instantaneous Relative Humidity	%	Int
Wspd	'Instantaneous' (10min mean) 10m Wind Speed	m/s	1dp
Wdir	'Instantaneous' (10min mean) 10m Wind Direction	deg	Int
Gust	'Instantaneous' (Max 3s mean in 10min) 10m Wind Gust	m/s	1dp
MxGust	Maximum Gust (Max 3s mean) in previous hour	m/s	1dp
Wx	Predominant Weather Symbol or Type	Code	Int
Vis	Instantaneous Screen-level Visibility	m	Int
TotCld	Instantaneous Total Cloud Amount	Oktas	1dp
TotSun	Total Sunshine Duration in previous hour	s	Int
IntSW	Integrated Surface Downward Short-Wave (Solar) Irradiance in previous hour	kWh+	2dp
UV	UV Index	Index	Int
TotRain	Total Rainfall Amount in previous hour	kg/m2 OR mm	1dp
TotSnow	Total Snowfall Amount in previous hour (falling, not necessarily settling)	kg/m2 OR ~cm	1dp
SnDepth	Instantaneous Snow Depth	kg/m2 OR ~cm	1dp

Daily Data

Abbrev.	Parameter Name	Unit	Precision
VT	Valid Day (06-21Z)	YYYYMMDD	Int
SiteID	SSPA Identifier (Postcode Sector Mapping - csv)	Code	Int
Tx	Maximum Screen Temperature in the period 06-21Z	degC	1dp
Tn	Minimum Screen Temperature in the period 06-21Z	degC	1dp
mxFLT	Maximum Feels Like Temperature (Wind Chill/Heat Stress) in the period 06-21Z	degC	1dp
mnFLT	Minimum Feels Like Temperature (Wind Chill/Heat Stress) in the period 06-21Z	degC	1dp
Rain	Total Rainfall Amount in the period 06-21Z	kg/m2 OR mm	1dp
Snow	Total Snowfall Amount in the period 06-21Z (falling, not necessarily	kg/m2 OR ~cm	1dp

	settling)		
TotSun	Total Sunshine Duration in the period dawn to dusk	s	Int
TotSunPC	Percentage of daytime period with sunshine	%	Int
Sunny	Total Duration of weather type 'Full Sun' in the period 06-21Z	s	Int
SunnyPC	Percentage of daytime period with weather type 'Full Sun'	%	Int
Wspd	Max (10min mean) 10m Wind Speed in the period 06-21Z	m/s	1dp
Wx	Predominant Weather Symbol or Type in the period dawn to dusk	Code	Int