Hatherleigh Market Site - Meteorological Data

Meteorological Observations

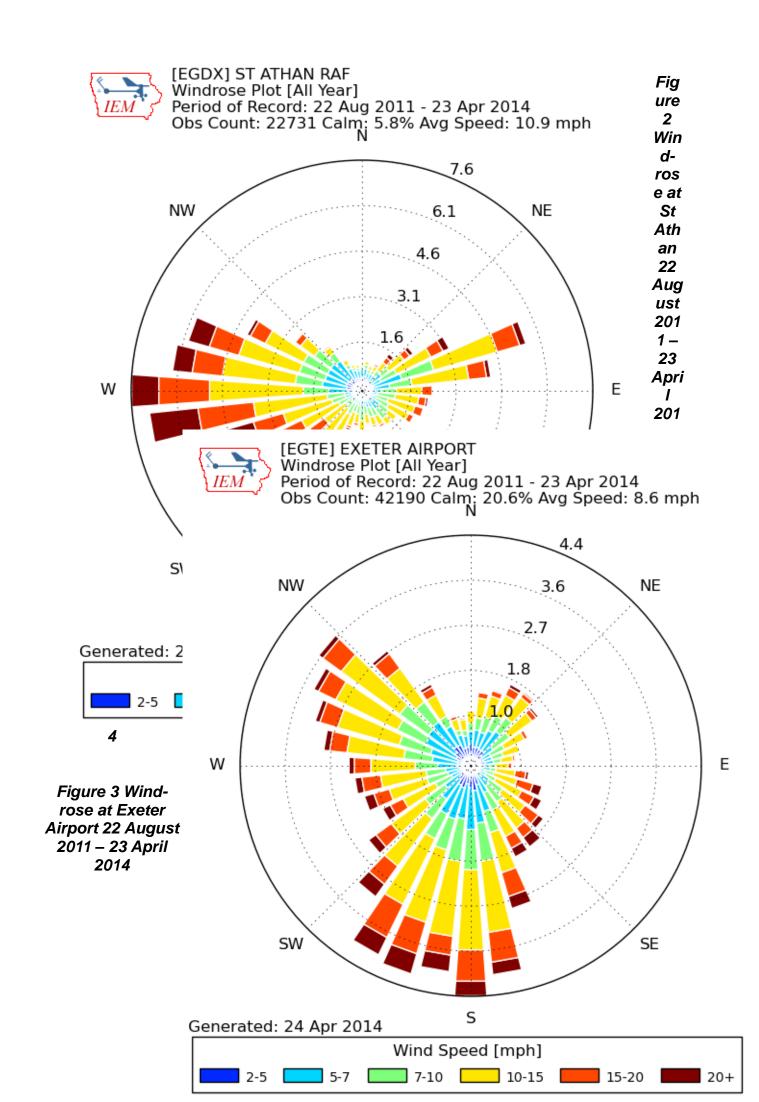
There are no meteorological stations observing wind speed and direction in Hatherleigh. The locations of the closest official stations with readily available historical data are indicated in figure 1.

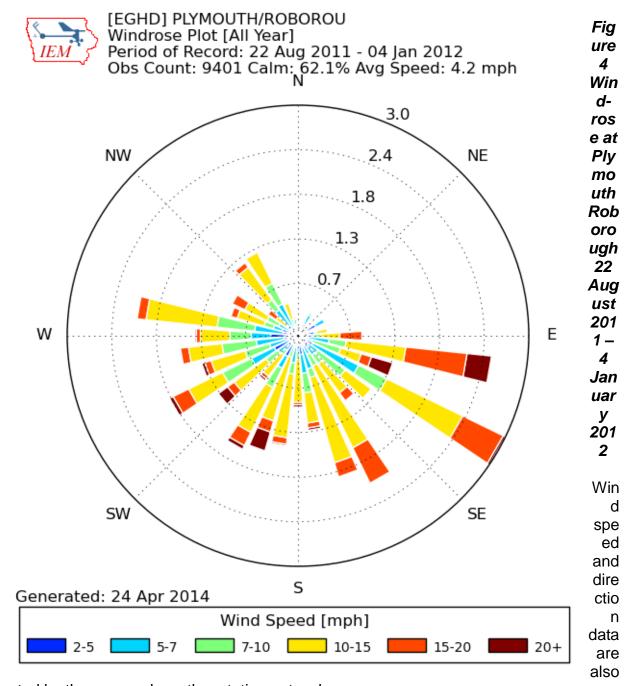


Figure 1 Nearest Meteorological Stations With Historical Wind Speed and Direction Data

The closest is St Athan RAF (EGDX) approximately 20 miles north, near Barnstaple. In the East is Exeter Airport (EGTE) at a distance of approximately 29 miles. To the south is Plymouth Roborough (EGHD) at about 33 miles.

Long term wind-roses for each of these stations are reproduced in figures 2, 3 and 4.





collected by the personal weather station network.

This is the world's largest, with over 30,000 active stations and growing. Observations are taken by a group of dedicated amateur meteorologists who have purchased their own meteorological instruments. The data that they collect are fed into a proprietary forecasting model, to provide the group with accurate local weather forecasts.

The closest PWS stations to Hatherleigh are in Okehampton, Holsworthy and Torrington. Wind speed and direction data from these stations is not displayed as a traditional windrose but rather as two graphs as shown in figures 5, 6 and 7.

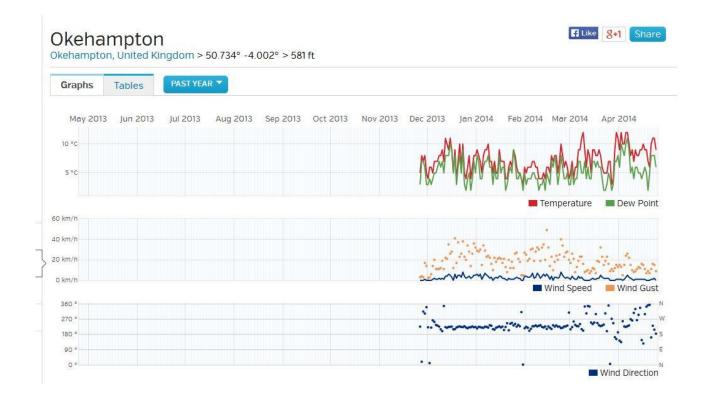


Figure 5 Wind Speed and Direction Data recorded in Okehampton

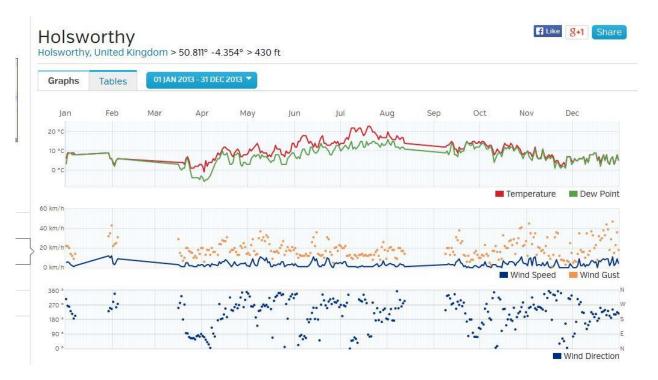


Figure 6 Wind Speed and Direction Data recorded in Holsworthy



Figure 7 Wind Speed and Direction Data recorded in Torrington

Significance to the Market Redevelopment

The meteorological data collected at the three airports/airfields extends over a longer period and is probably more reliable than that provided by the PWS network. However the PWS data was collected much closer to Hatherleigh. Regardless of this all data sets tell the same story. Wind direction in this part of the country is variable. The prevailing wind is from the SW but this will generally occur for less than 20% of the time depending on the angle of the sector considered. Winds from the north ie from the abattoir to the proposed housing area occur for a less but still a significant period of time, particularly based on the local PWS data.