Climate Analysis
London, England, UK

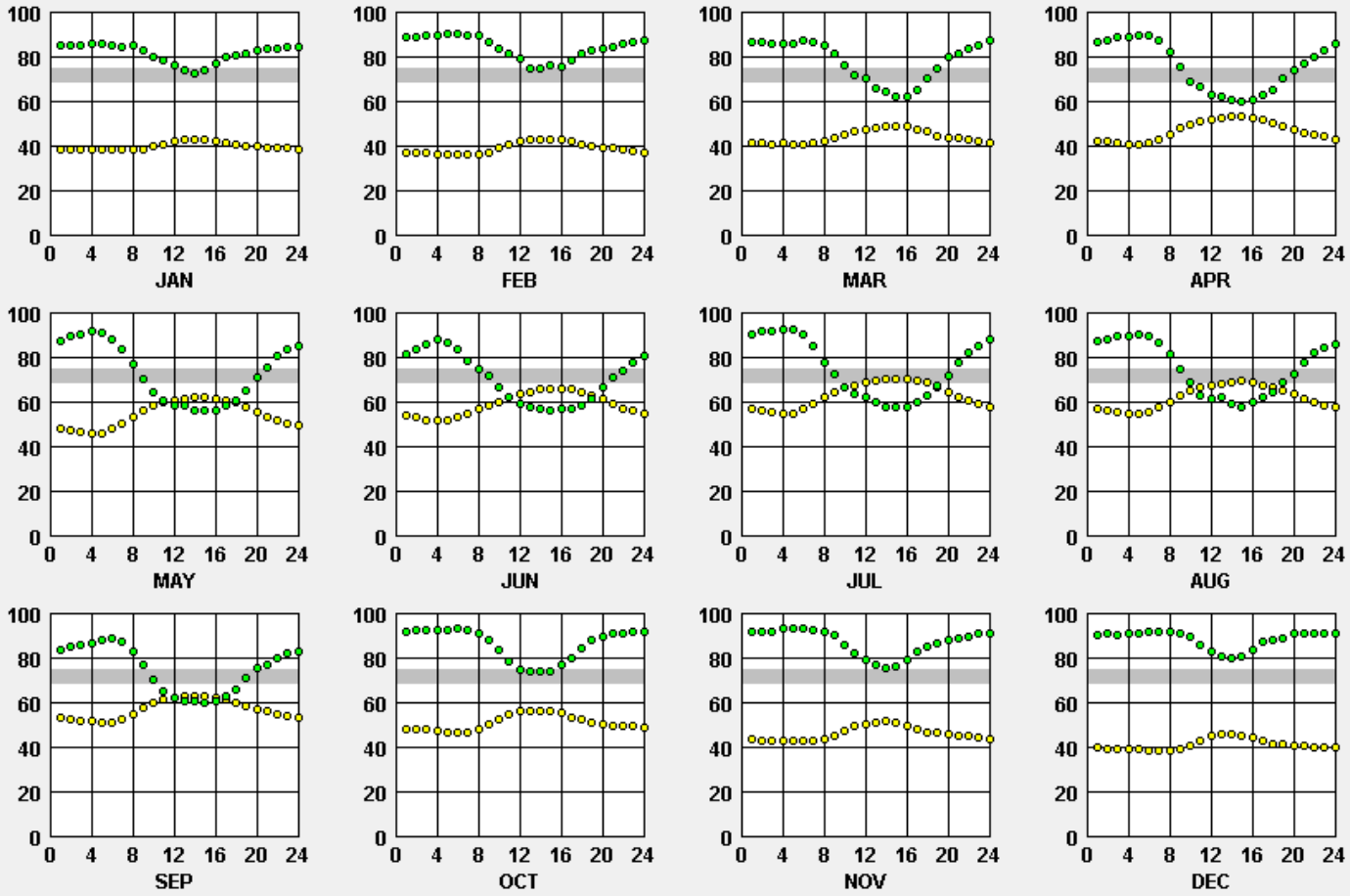
Munazza Bhatti

DRY BULB X RELATIVE HUMIDITY
California Energy Code

LOCATION: **LONDON/GATWICK, -, GBR**
Latitude/Longitude: 51.15° North, 0.18° West, **Time Zone from Greenwich** 0
Data Source: IWEC Data 037760 WMO Station Number, **Elevation** 203 ft

LEGEND

Dry Bulb
Humidity
Comfort Zone



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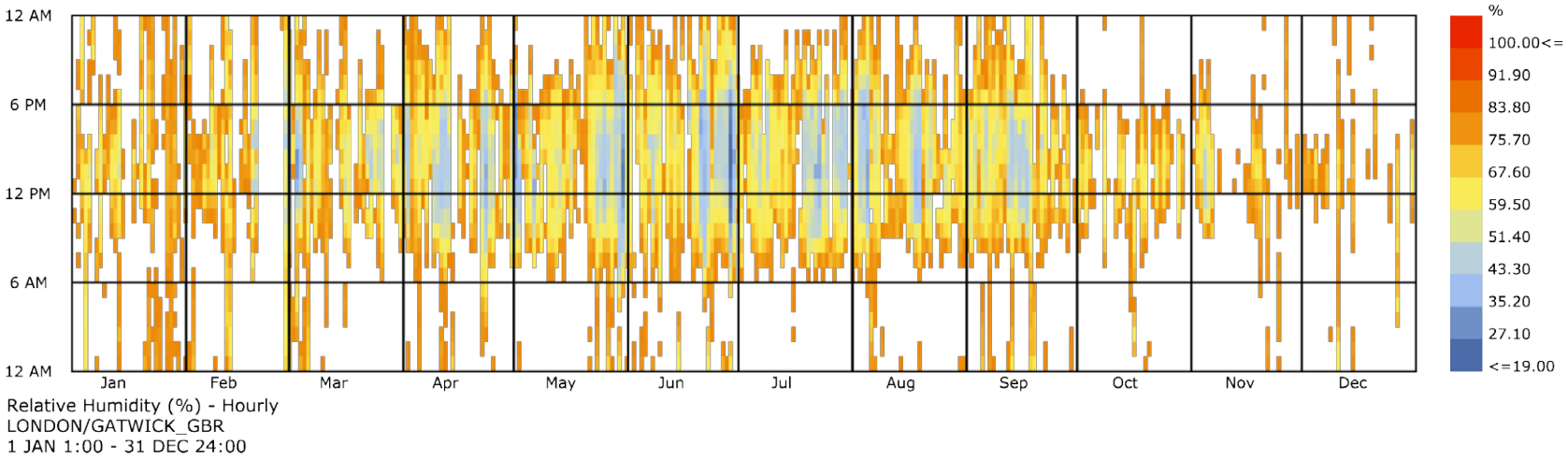
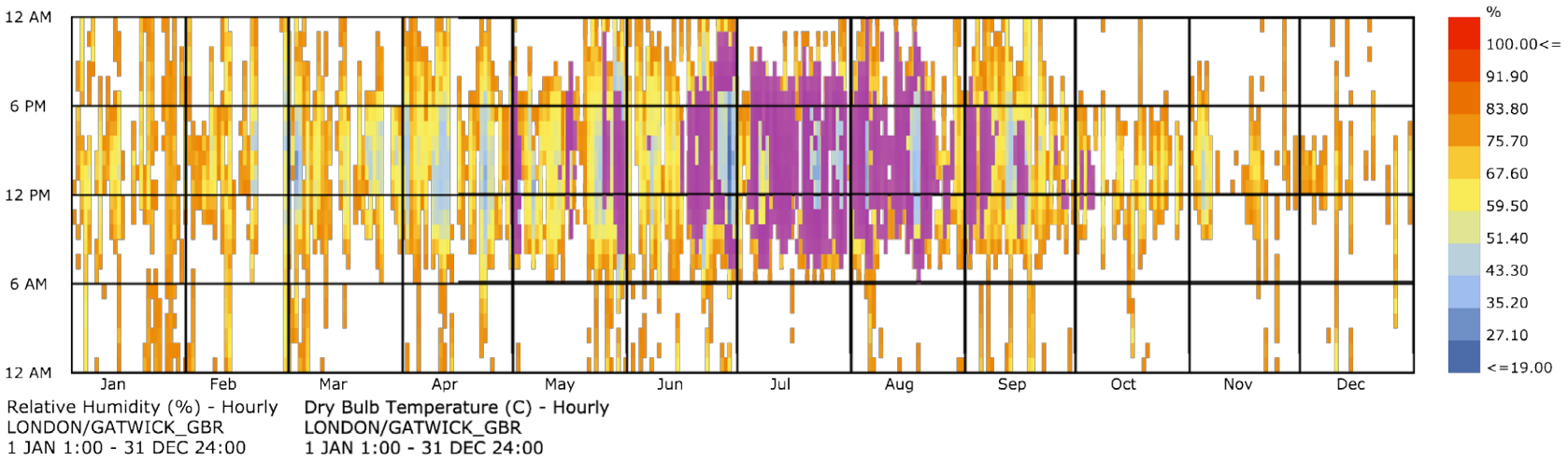


Humidity reaches to more than 80% but this graph shows comfortable levels of humidity during the year.

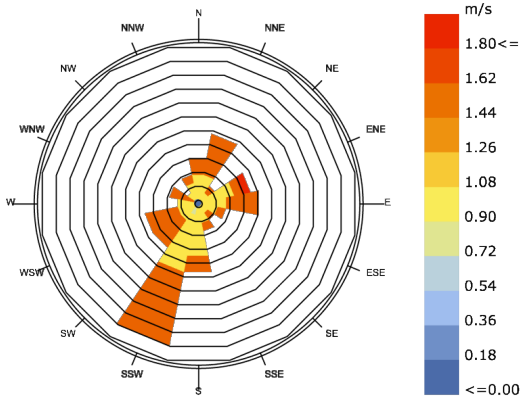


This graph explains the comfort levels in realtions to relative humidity versus dry bulb temperature. Relative humidity is measured as high as 80% and dry bulb temperature is between 18 degrees and 24 degrees.

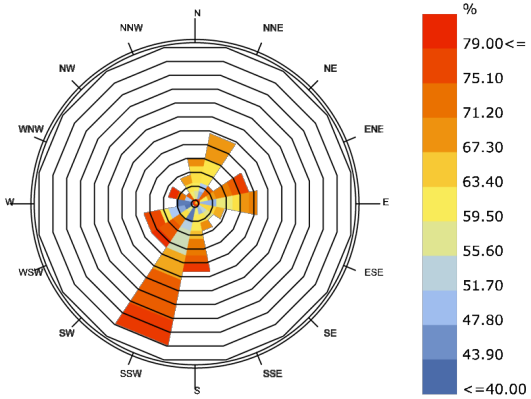
As shown, the most comfortable temperature is when the dry bulb temperature, shown in purple, overlaps the relative humidity. London has an optimum temperature between June to September.

This makes the outdoors comfortable enough to open windows for natural ventilation.

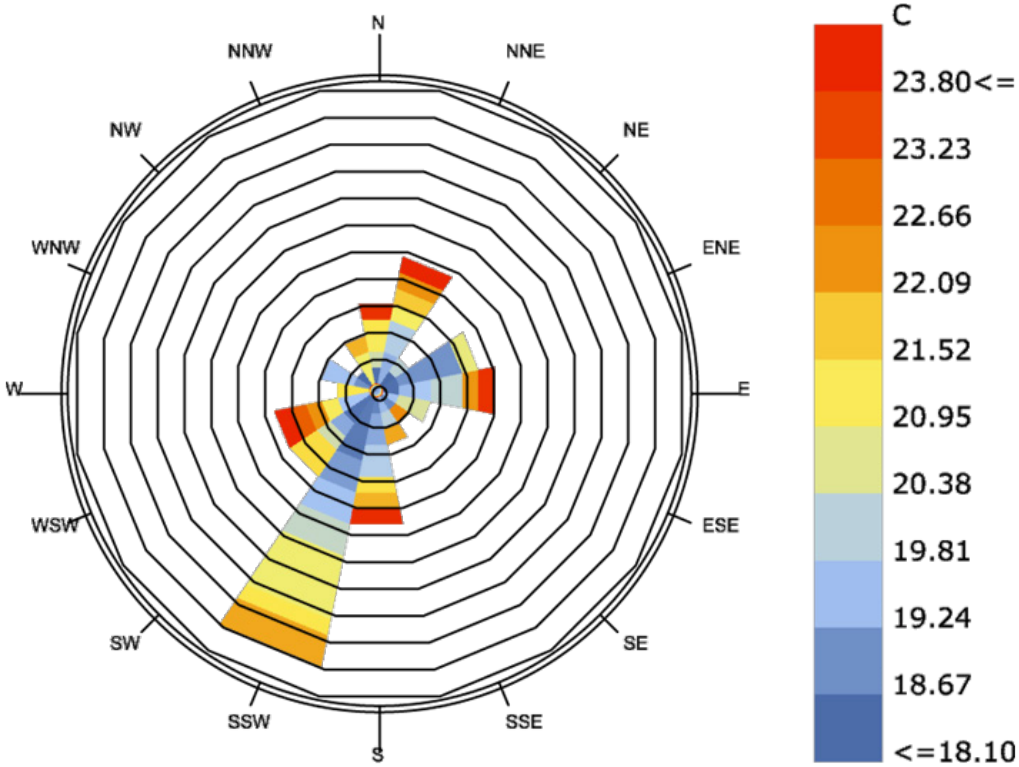
During the months of October to May temperature is higher or lower than comfort level and other measures must be taken to make it comfortable.



Wind-Rose
LONDON/GATWICK_GBR
1 MAY 1:00 - 31 OCT 24:00
Hourly Data: Wind Speed (m/s)
Calm for 0.16% of the time = 7 hours.
Each closed polyline shows frequency of 0.0%. = 1 hours.
... ...
Conditional Selection Applied:
Wind Speed<2
and Relative Humidity<80
and 18<Dry Bulb Temperature<24
89.0 hours of total 8760.0 hours (1.02%).
89.0 hours of analysis period 4416.0 hours (2.02%).

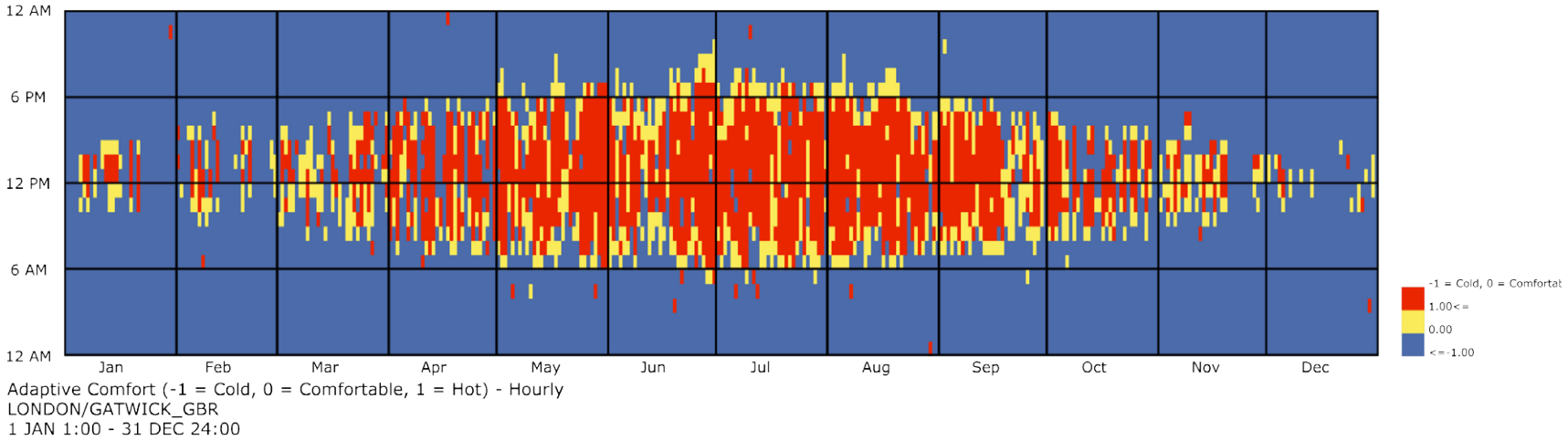


Wind-Rose
LONDON/GATWICK_GBR
1 MAY 1:00 - 31 OCT 24:00
Hourly Data: Relative Humidity (%)
Calm for 0.16% of the time = 7 hours.
Each closed polyline shows frequency of 0.0%. = 1 hours.
... ...
Conditional Selection Applied:
Wind Speed<2
and Relative Humidity<80
and 18<Dry Bulb Temperature<24
89.0 hours of total 8760.0 hours (1.02%).
89.0 hours of analysis period 4416.0 hours (2.02%).



Wind-Rose
LONDON/GATWICK_GBR
1 MAY 1:00 - 31 OCT 24:00
Hourly Data: Dry Bulb Temperature (C)
Calm for 0.16% of the time = 7 hours.
Each closed polyline shows frequency of 0.0%. = 1 hours.
... ...
Conditional Selection Applied:
Wind Speed<2
and Relative Humidity<80
and 18<Dry Bulb Temperature<24
89.0 hours of total 8760.0 hours (1.02%).
89.0 hours of analysis period 4416.0 hours (2.02%).

In order to take advantage of optimum temperature and humidity levels, natural ventilation can be considered and should be designed so that windows face



This graph evaluates general adaptive comfort levels. Each color indicates whether the comfort level is too cold, too hot, or comfortable.

This analysis takes wind, temperature, solar radiation and calculates it according to a user's comfort.

Results show that in London, it is considered colder before 6am and after 6pm throughout the year.

SKY COVER RANGE

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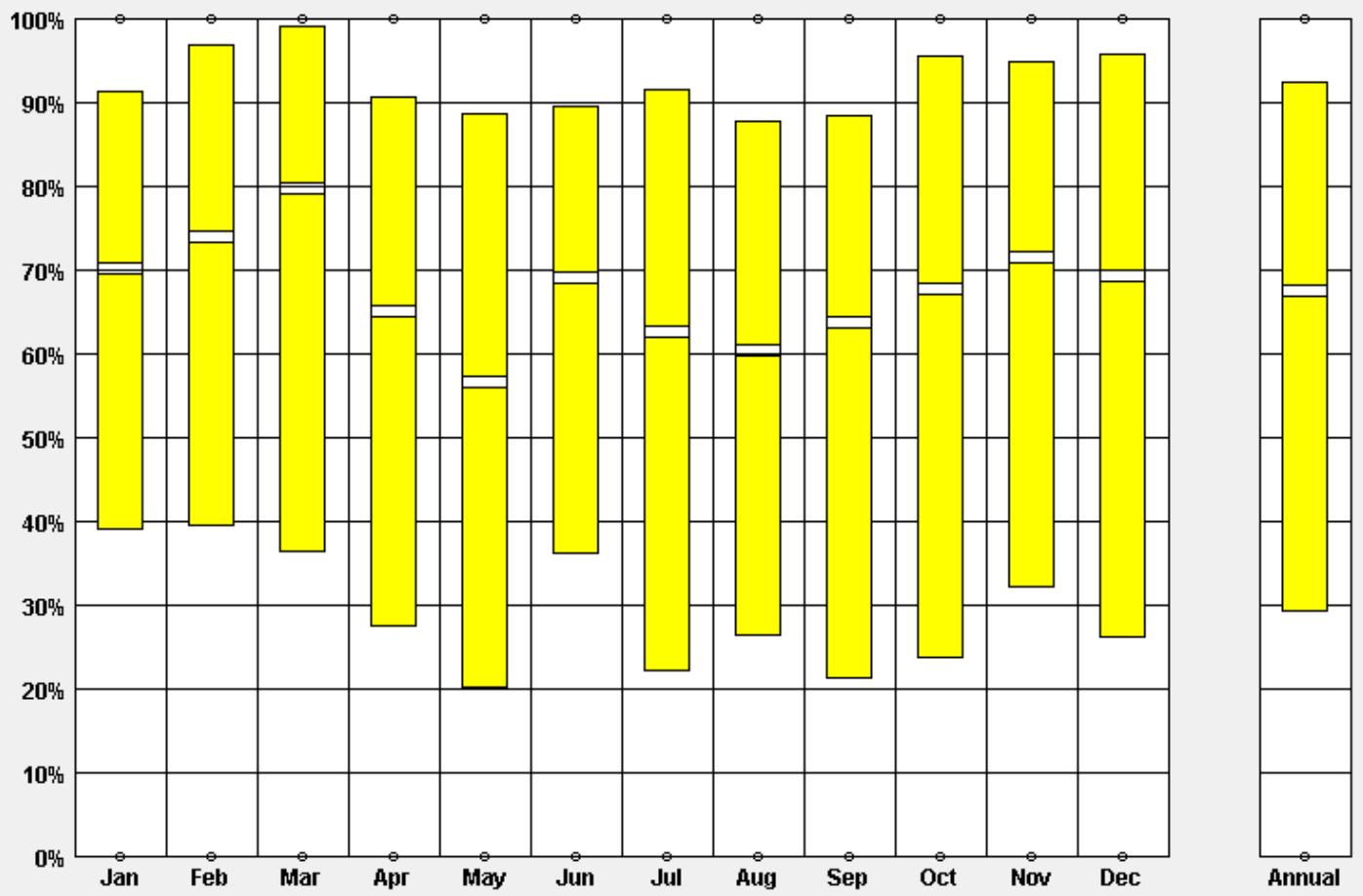
LEGEND

Total Cloud Cover	100%
RECORDED HIGH -	○
AVERAGE HIGH -	▭
MEAN -	▭
AVERAGE LOW -	▭
RECORDED LOW -	○
Clear Skies	0



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