Weather and Vacation

(Part 1 Only)

Data Analysis Report

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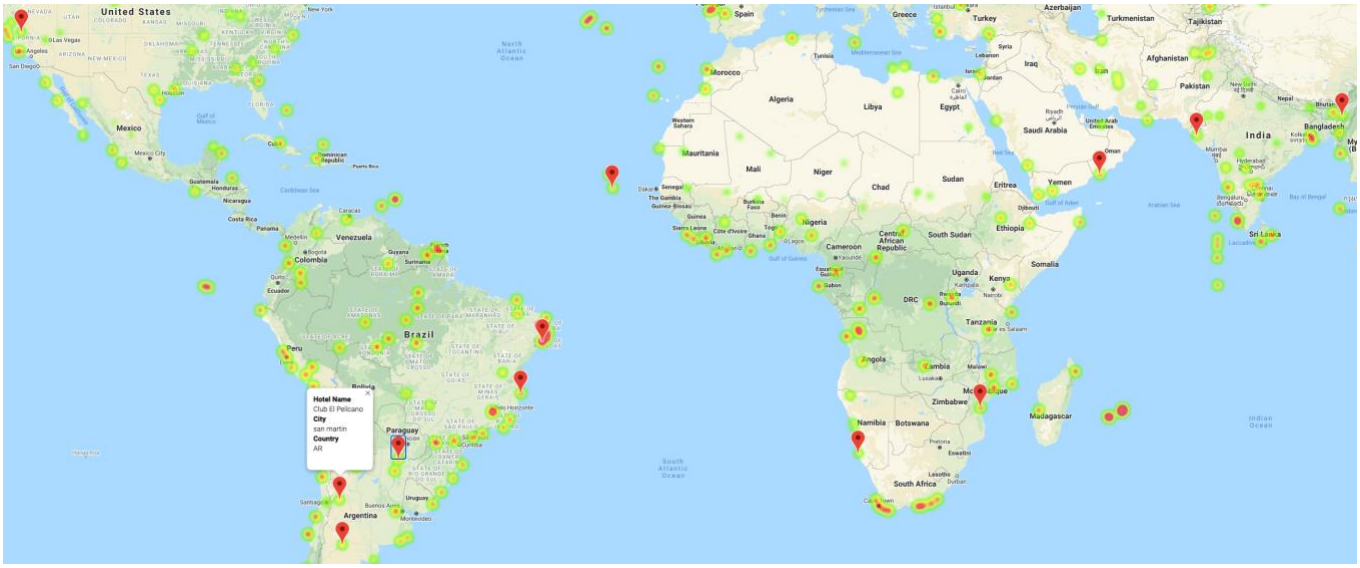
Observable Trends

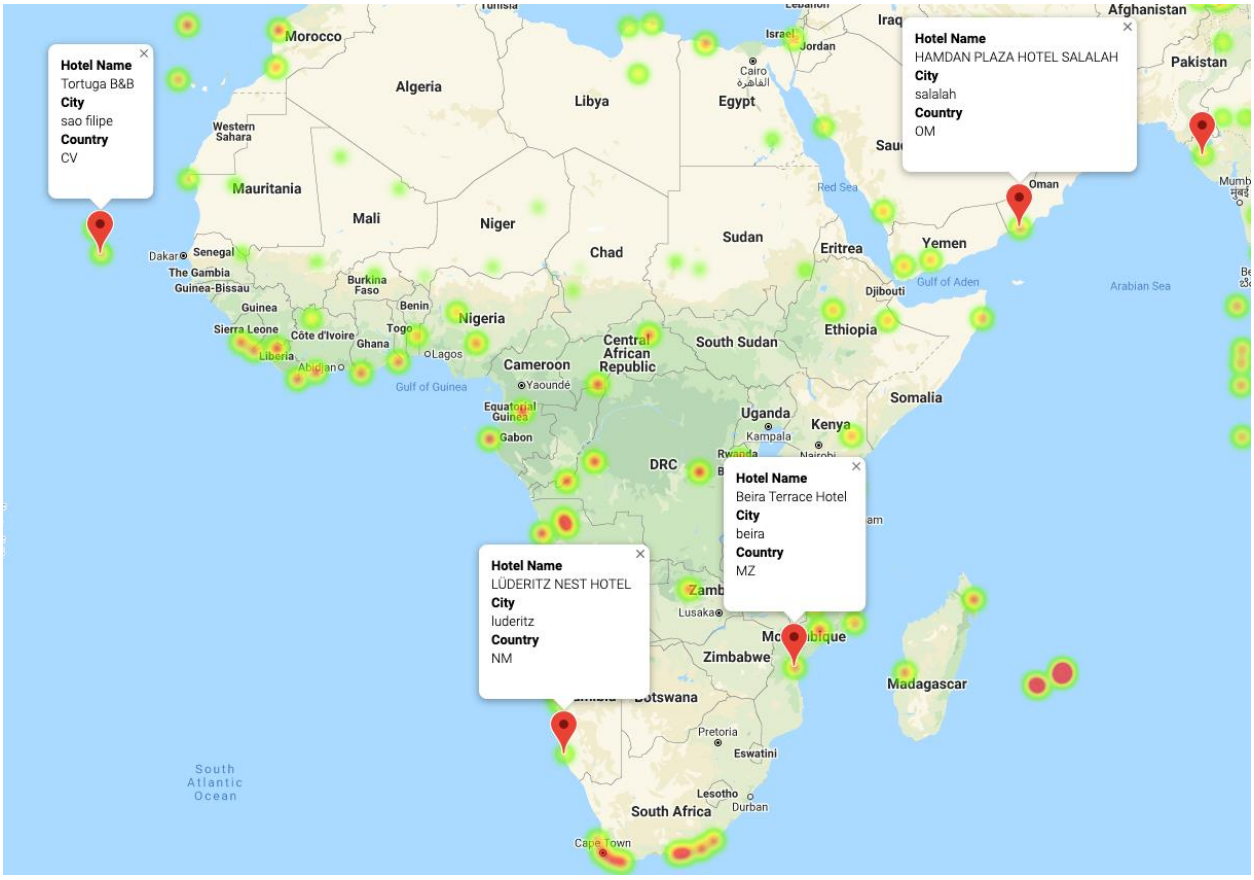
1. According to the data sample that was collected on April 13, 2020 for randomly collected cities, the northern hemisphere contained 400 cities, while the southern hemisphere contained 165 cities. Cloudiness held the weakest correlations of all the weather observations when comparing the northern and southern hemispheres. The northern hemisphere revealed an R-value of 0.01 and the southern hemisphere held an R-value of 0.040, in terms of cloudiness.
2. In terms of correlation when examining Windspeed (mph) for city location (based on latitude) on April 13, 2020 for both the northern hemisphere (r = 0.014) and southern hemisphere (r = 0.042), both reflected very weak correlations.
3. In terms of observing the Maximum Temperature vs. Latitude in the northern and southern hemispheres, the data showed that the northern hemisphere held a strong correlation (r = 0.78) where the southern hemisphere held a weak correlation (r = 0.39). These maximum temp and latitude variables held the strongest correlations of all the weather conditions that were observed for the 565 selected cities. It can be concluded that the latitude plays the strongest factor in max temperature weather conditions.

Heatmap Screenshot

Humidity Vs. Hotel Location


United States
Mexico
Brazil
Argentina
Paraguay
Hotel Name
Club El Pelicano
City
san martin
Country
AR


Hotel Name
Tortuga B&B
City
sao filipe
Country
CV
Hotel Name
Poutur Pousada
City
maceio
Country
BR
Hotel Name
Niyat Urban Hotel
City
resistencia
Country
AR
Hotel Name
Club El Pelícano
City
san martin
Country
AR
North Atlantic Ocean
Gulf of Mexico
Caribbean Sea
New York
Cuba
Dominican Republic
Puerto Rico
Guatemala
Honduras
Nicaragua
Costa Rica
Panama
Caracas
Venezuela
Medellín
Bogotá
Colombia
Guyana
Suriname
French Guiana
Quito
Ecuador
Peru
Lima
Brazil
Pelo Horizonte
São Paulo
Curitiba
Uruguay
Montevideo
Buenos Aires
Argentina
Santiago
Dakar


Hotel Name
Tortuga B&B
City
sao filipe
Country
CV
Hotel Name
HAMDAN PLAZA HOTEL SALALAH
City
salalah
Country
OM
Hotel Name
Beira Terrace Hotel
City
beira
Country
MZ
Hotel Name
LÜDERITZ NEST HOTEL
City
luderitz
Country
NM
Morocco
Algeria
Libya
Egypt
Western Sahara
Mauritania
Mali
Niger
Chad
Sudan
Eritrea
Yemen
Oman
Pakistan
Afghanistan
Iraq
Israel
Jordan
Cairo
Red Sea
Gulf of Aden
Arabian Sea
Djibouti
Ethiopia
Somalia
Kenya
Uganda
Kampala
Dakar
Senegal
The Gambia
Guinea-Bissau
Guinea
Sierra Leone
Liberia
Côte d'Ivoire
Ghana
Togo
Benin
Burkina Faso
Nigeria
Lagos
Cameroon
Yaoundé
Central African Republic
South Sudan
Gulf of Guinea
Equatorial Guinea
Gabon
DRC
Zambia
Lusaka
Zimbabwe
Mozambique
Madagascar
Botswana
Pretoria
Eswatini
Lesotho
Durban
South Africa
Cape Town
South Atlantic Ocean