

# Climate Data Summary

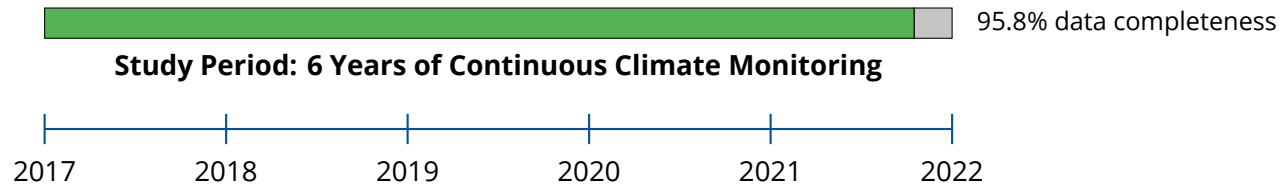
Johannesburg Urban Climate Exposures (2017-2022)

| Climate Variable       | Mean (SD)   | Median | Min  | Max  | IQR  | Extreme Days (%)  |
|------------------------|-------------|--------|------|------|------|-------------------|
| Temperature (°C)       | 18.2 (5.4)  | 18.5   | -2.1 | 35.8 | 7.2  | <div></div> 8.3%  |
| Apparent Temp (°C)     | 17.8 (5.9)  | 17.9   | -5.2 | 38.1 | 8.1  | <div></div> 10.2% |
| Land Surface Temp (°C) | 22.4 (6.8)  | 22.7   | 2.3  | 42.1 | 9.5  | <div></div> 12.5% |
| Humidity (%)           | 58.3 (18.2) | 57.0   | 12.0 | 98.0 | 25.0 | <div></div> 5.1%  |
| Precipitation (mm)     | 2.1 (8.7)   | 0.0    | 0.0  | 89.2 | 0.2  | <div></div> 3.2%  |

| Season       | Mean Temp (°C) | Heat Days | Cold Days | Rain Days |
|--------------|----------------|-----------|-----------|-----------|
| Summer (DJF) | 22.8 ± 3.2     | 45        | 0         | 62        |
| Autumn (MAM) | 18.4 ± 4.1     | 12        | 8         | 28        |
| Winter (JJA) | 13.2 ± 3.8     | 0         | 35        | 5         |
| Spring (SON) | 19.6 ± 4.5     | 28        | 2         | 41        |

#### CRITICAL CLIMATE THRESHOLDS

**Heat Threshold:** Temperature > 30°C (8.3% of days)  
**Cold Threshold:** Temperature < 5°C (4.1% of days)  
**Extreme Humidity:** RH > 85% or < 20% (5.1% of days)  
**Heavy Rainfall:** Precipitation > 25mm/day (3.2% of days)



**2,191 Days**  
Total Ob-  
servation

**182 Days**  
Extreme Events

**9 Lag Periods**  
Temporal  
Analysis