

✦ AI Overview

Discomfort Heat Index Intensity (DCI) is a climate metric that measures cumulative yearly heat stress and the need for cooling using a baseline threshold. Zenodo

What is DCI?

- **Comfort Heat Index (CHI):** Set at **26.6°C (79.9°F)**, representing the threshold above which thermal discomfort begins and cooling is required.
- **Calculation:** The positive difference between the actual Heat Index and the CHI, multiplied by the total cumulative time (in hours) the Heat Index exceeds that threshold.
- **Unit of Measurement:** Expressed in degrees Celsius multiplied by hours (**°C•hr**) per year. LinkedIn +1

Key Annual Parameters

Researchers analyze four main yearly indicators to track changes in thermal comfort over time (such as studies covering 1940–2025 across multiple global cities): Zenodo

- **DC:** Annual Discomfort Heat Index (°C).
- **maxDC:** Annual Maximum Discomfort Heat Index (°C).
- **DDC:** Annual Discomfort Heat Index Duration (hours).
- **DCI:** Annual Discomfort Heat Index Intensity (°C•hr). Zenodo

Would you like to know more about the **DCI trends** for a specific city like Tel Aviv or Jerusalem?

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Discomfort Heat Index Intensity in Tel Aviv 1940–2025 | Zenodo

Description This publication determines Discomfort Heat Index Intensity (DCI) to measure cumulative yearly heat stress. It uses a ...

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What is heat intensity?



What is a normal heat index?



What is the danger level for heat index?



How do you interpret the heat index?



ResearchGate

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Discomfort Heat Index Intensity in Five Locations 1940-2025

12 Aug 2026 — Air temperature and Heat Index are in Centigrade and Relative Humidity in %.

Discomfort **Heat Index Intensity** (DCI) is in degree-hour (°C•hr). [Read more](#)



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Jerusalem Discomfort Heat Index Rises 47%

... a 106% increase in the Discomfort **Heat Index Intensity** from 1797 to 3693 °C·hr per year.
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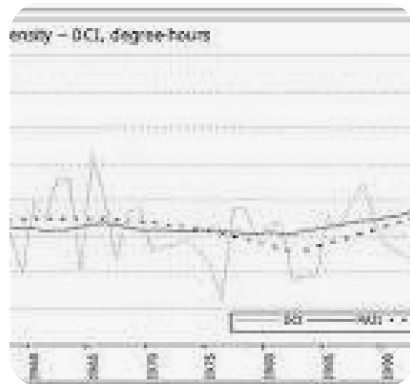


Singapore Management University (SMU)
https://ink.library.smu.edu.sg/cis_research

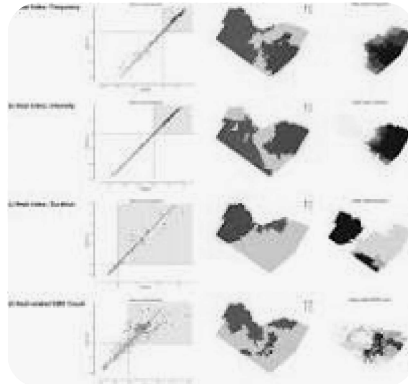
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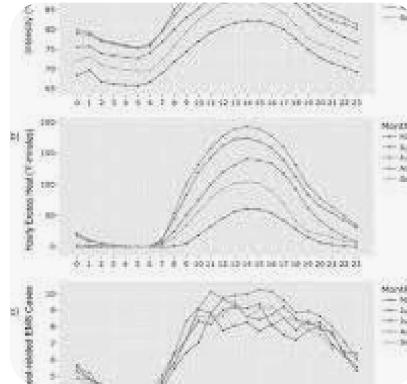
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Annual Discomfort Heat Index duration (DDC), hr

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