MeteoTracker

Projects | Scientific publications | Technical documents and manuals | Demo

Projects

- European Commission - Climate monitoring with citizen science https://projects.research-and-innovation.ec.europa.eu/en/strategy/strategy-2020-2024/environment-and-climate/european-green-deal/green-deal-projects-support/green-deal-success-stories/climate-monitoring-citizen-science
- ISAC-CNR ATAC – monitoraggio micrometeorologico area metropolitana di Roma https://www.linkedin.com/feed/update/urn:li:activity:7224844792654888961
- CityClim Citisen Science project with MeteoTracker https://zenodo.org/records/10450393 https://www.youtube.com/watch?v=Eu2mYTaNAKY https://www.youtube.com/watch?v=SNbPU6p0OFQ
- Genova – monitoraggio micrometeorologico su veicoli e mezzi nautici https://www.linkedin.com/posts/cima-research-foundation_citizens-research-awareness-activity-7220060973146013696-HMQk
- Genoa Living Lab: Predicting Extreme Weather with Citizen Data https://youtu.be/qe2l0K49c0s?t=101
- Thermal Walk for the ICHANGE_EU in Amsterdam https://x.com/gjsteeneveld/status/1798365500768243739
- Central Wyoming College (USA) https://www.linkedin.com/posts/jacki-klancher-68780b38_homepage-activity-7146698206683250688-SslW/
- Monitoraggio polveri sottili in agro di Arborea (Oristano, Italy) con sistema di rilevazione MT-Air Quality (2025)
- Bologna Living Lab https://www.linkedin.com/posts/climatemedia_amsterdam-genoa-bologna-activity-7205947162340253697-eRrg/
- Citizen-Science Climate Project in Krefeld (Germany) https://www.meteoblue.com/en/blog/article/show/40403_Citizen-Science+Climate+Project+in+Krefeld+%28Germany%29 https://www.linkedin.com/posts/meteoblue_citizen-science-climate-project-in-krefeld-activity-7236683248070766595-1TVV/
- Sass Pordoi – monitoraggio meteo mobile su funivia https://www.linkedin.com/feed/update/urn:li:activity:7241868387549630464
- Athens - participatory research and co-production of climate change adaptation measures for urban green with MeteoTracker https://youtu.be/qUhbS2_Stlc?t=828
- Ferrara – HUI monitoring https://www.citizenscienceferrara.org/home-page

- Urban heat: twin citizen science projects in Barcelona and Vienna
  https://opush.net/uncategorised/urban-heat-twin-citizen-science-projects-in-barcelona-and-vienna
- Padua University – UHI monitoring in Padua
  https://isprs-archives.copernicus.org/articles/XLVIII-1-W1-2023/555/2023/isprs-archives-XLVIII-1-W1-2023-555-2023.pdf
- Politecnico di Torino – UHI monitoring along bike paths in Turin
  https://www.dist.polito.it/focus/eventi_esterni/(idnews)/15834
- Radboud university (Nijmegen – Olanda) – citizen science project for UHI monitoring (100 MeteoTracker on the field)
- Università di Lipsia (Germania) – monitoraggio micrometeorologico urbano
  https://meteorologiehautnah.github.io/MeteorologieHautnah/

Scientific publications and academic papers

- The impact of tree canopy cover and imperviousness on air temperature during summer using low cost sensors on public transportation in Rome, Italy (Febbruary 2026)
  https://www.sciencedirect.com/science/article/pii/S2212095526000635?via%3Dihub#b32
- Validation of Citizen Science Meteorological Data: Can They Be Considered a Valid Help in Weather Understanding and Community Engagement? (July 2024) https://www.mdpi.com/1424-8220/24/14/4598/pdf
- Enhancing citizen science impact in environmental monitoring: Targeted engagement strategies with stakeholder groups (May 2024)
  https://www.frontiersin.org/journals/environmental-science/articles/10.3389/fenvs.2024.1375675/full
- Bridging the gap: Matching data from low-cost mobile sensors and satellite for urban heat island research. a case study in padua, italy (2024)
  https://isprs-archives.copernicus.org/articles/XLVIII-4-W10-2024/205/2024/
- Volunteered geographic information for mapping urban climate and air quality: testing and assessing 'sniffer bikes' with low-cost sensors (May 2023)
  https://isprs-archives.copernicus.org/articles/XLVIII-1-W1-2023/555/2023/isprs-archives-XLVIII-1-W1-2023-555-2023.pdf
- Validating a cycle-based IoT sensor for mapping intra-urban air temperature and humidity (November 2022)
  https://www.researchgate.net/publication/365682035_Validating_a_cycle-based_IoT_sensor_for_mapping_intra-urban_air_temperature_and_humidity
- Padua University | Ondate di calore a padova nell'estate del 2024: mobile mapping delle isole di calore urbane mediante l'uso di MeteoTracker
  https://meteotracker.com/wp-content/uploads/2025/11/Micoli_Mila_TESI_UNI_PADOVA_METEOTRACKER.pdf
- Validating a Cycle-based IoT Sensor for Mapping Intra-urban Air Temperature and Humidity (2022)

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https://research.tudelft.nl/en/publications/validating-a-cycle-based-iot-sensor-for-mapping-intra-urban-air-t/

- Università e Politecnico di Torino | Studio e applicazione di MeteoTracker valutazione del comfort termico nelle piste ciclabili urbane torinesi | Tesi integrale (2021) https://meteotracker.com/wp-content/uploads/2026/01/Studio-e-applicazione-di-MeteoTracker-valutazione-del-comfort-termico-nelle-piste-ciclabili-urbane-torinesi.pdf

Technical documents and manuals

- MeteoTracker manuals https://meteotracker.com/manuali/
- MeteoTracker manual for citizen science projects https://zenodo.org/records/10450393/files/Manual%202%20-%20Becoming%20a%20CityCLIM%20Citizen%20Scientist%20-%20A%20Handbook%20for%20interested%20Citizens_finalZ.pdf?download=1 (page 21)

Demo

- Real-time integration of MeteoTracker data in the Sardegna Clima map https://www.youtube.com/watch?v=vPaFvtBi5po
- Monitoring the city microclimate with MeteoTracker – Lipsia (Germany) https://www.youtube.com/watch?v=EnW4uBqqQKQ
- Urban Heat Island monitoring in Karlsruhe (Germany) with MeteoTracker (CityClim EU project)
  - https://www.youtube.com/watch?v=Eu2mYTaNAKY
  - https://www.youtube.com/watch?v=SNbPU6p0OFQ

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