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comparison of utci to selected thermal indices pmc *May 02 2024*

we also analyzed relationships between utci and indices derived from heat budget models standard effective temperature set physiological equivalent temperature pet perceived temperature pt physiological subjective temperature pst

a universal thermal climate index utci for outdoor assessments *Apr 01 2024*

in these conditions where no thermoregulation occurs the model predicts a basal skin blood flow of 0.4 l min⁻¹ basal skin wettedness of 6 a mean skin temperature of 34.4 c and body core temperatures of 37.0 c in the head core hypothalamus and 36.9 c in the abdomen core rectum fiala et al 1999

an introduction to the universal thermal climate index utci *Feb 29 2024*

the utci is defined as the air temperature t_a of the reference condition causing the same model response as actual conditions utci was developed in 2009 by virtue of

thermal sensation and climate a comparison of utci and pet *Jan 30 2024*

the thermal sensation ranges of two thermal indices the universal thermal climate index utci and the physiological equivalent temperature index pet were calibrated for three warm temperate climate contexts cfa cfb csa against the subjective evaluation of the thermal environment indicated by interviewees during field surveys conducted

outdoor comfort cbe clima tool gitbook Dec 29 2023

from this a universal thermal climate index utci of perceived thermal stress is derived clima allows the user to visualize the annual utci equivalent temperature as heatmap under various environmental conditions example utci perceived temperature annual heatmap in sun and wind conditions for rome ita

calculating human thermal comfort and thermal stress in the Nov 27

2023

thermal comfort can be assessed by calculating thermal indices e g the predicted mean vote pmv fanger 1972 physiologically equivalent temperature pet höppe 1993 1999 the perceived temperature pt staiger et al 2012 or the universal thermal climate index utci jendritzky et al 2012 combining several aspects to approximate

the utci and the isb international journal of biometeorology Oct 27

2023

11 citations 32 altmetric 4 mentions explore all metrics abstract thermal effects of the environment are the most prominent environmental influences on the human body keeping the body core temperature in a narrow optimum range is the dominating physiological process

comparing universal thermal climate index utci with Sep 25 2023

utci is the equivalent temperature for the environment derived from a reference environment it is defined as the air temperature of the reference environment which produces the same strain index value in comparison with the reference individual s response to the real environment

essd gloutci m a global monthly 1 km universal thermal Aug 25 2023

22 may 2024 gloutci m a global monthly 1 km universal thermal climate index dataset from 2000 to 2022

zhiwei yang jian peng yanxu liu song jiang xueyan cheng xuebang liu jianquan dong tiantian hua and xiaoyu yu abstract

utci why another thermal index international journal of Jul 24 2023

utci was then derived conceptually as an equivalent temperature et thus for any combination of air temperature wind radiation and humidity stress utci is defined as the isothermal air temperature of the reference condition that would elicit the same dynamic response strain of the physiological model

what is utci the utci story hub Jun 22 2023

as utci provides a more realistic picture of the thermal stress perceived by the human body understanding its historical evolution and future changes is of paramount importance to develop on time effective and efficient adaptation and mitigation policies and action plans to alleviate its consequences but also to reduce counter effects derived b

comparison of utci with other thermal indices in the May 22 2023

utci in comparison with other indices is more sensitive to even slight changes in temperature solar radiation humidity and wind speed and describes better various climatic conditions which might be an opportunity for more appropriate human biometeorological assessments 20

predicting urban thermal comfort from calibrated utci Apr 20 2023

the results indicate that when utci 19.3 c thermal sensation is cold cool slightly cool if 19.3 c utci 26.7 c people feel neutral with regard to thermal conditions when utci 26.7 c thermal sensation is slightly warm warm hot

looking for a universal thermal climate index utci for Mar 20 2023

seasonal variation of the correlation coefficient r between daily total mortality and the thermal load expressed in terms of perceived temperature p_t in sw germany based on 30 years of data

the perceived temperature a versatile index for the *Feb 16 2023*

the perceived temperature p_t is an equivalent temperature based on a complete heat budget model of the human body it has proved its suitability for numerous applications across a wide

thermal indices for human biometeorology based on python nature Jan 18 2023

a previous study 11 proposed that certain rational thermal indices such as universal thermal climate index in circ c utci 27 28 perceived temperature in circ c p_t

wet bulb globe temperature universal thermal climate index *Dec 17 2022*

newer metrics have been developed that may reduce some of these limitations of interest here is the universal thermal climate index utci a heat metric derived from human energy balance

universal climate thermal index as a prognostic tool in *Nov 15 2022*

this is a systematic review of literature found in pubmed sciencedirect and of science databases from which consistent with prisma guidelines original papers employing the utci in studies related to health physiological parameters and epidemiologic applications were extracted

utci explained cbe clima tool gitbook *Oct 15 2022*

the utci is a useful tool to design the outdoor space to maximize the number of comfortable hours the designer can influence two factors out of the four driving outdoor comfort radiant temperature i e exposure to the sun and wind speed i e exposure to the wind outdoor comfort data explorer last updated 1 year ago

a comparative sensitivity analysis of human thermal comfort *Sep 13* ***2022***

the thermohygrometric indices i e thermohygrometric index and humidex exhibit a clearly deferent sensitivity pattern in comparison to the human energy balance indices i e physiologically equivalent temperature pet perceived temperature pt modified physiologically equivalent temperature mpet and universal thermal comfort index utci

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