

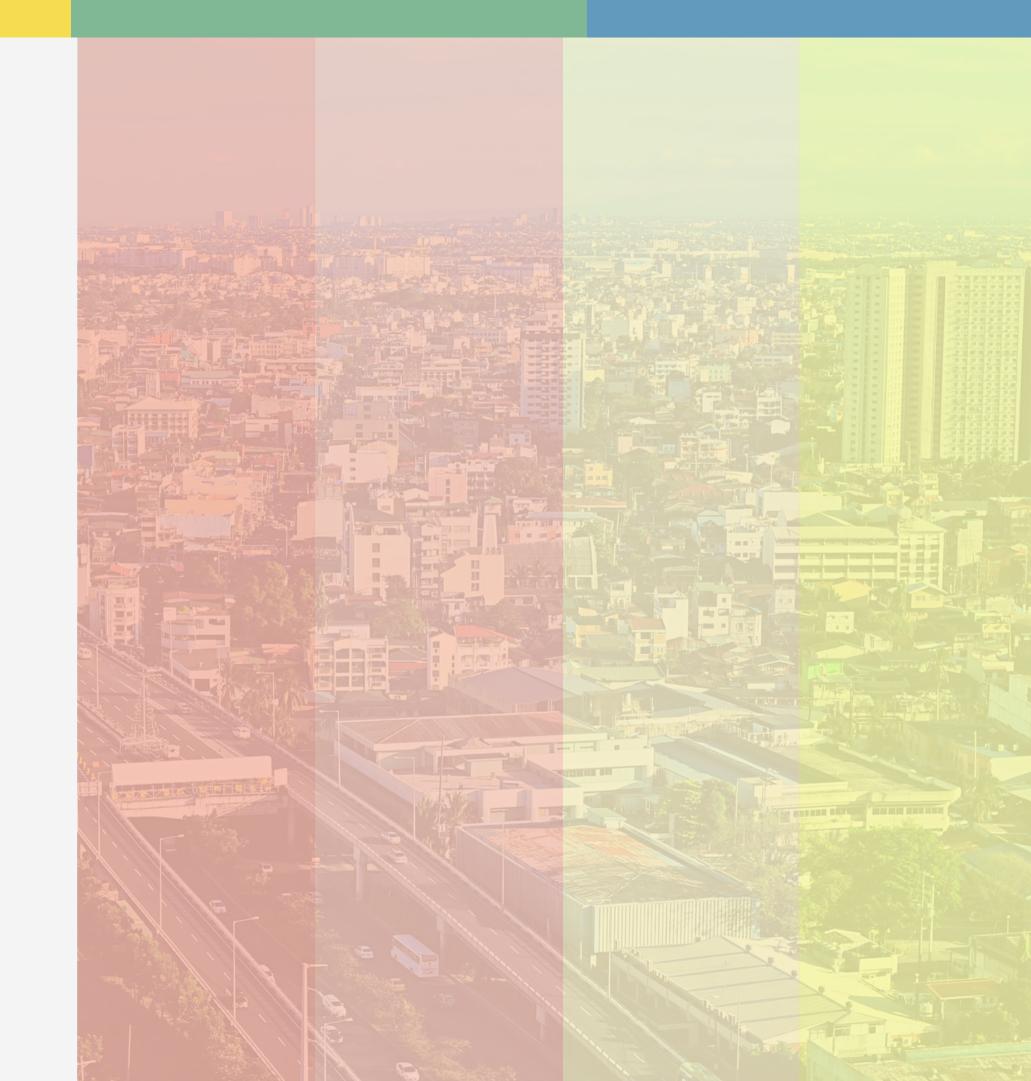
Heat Index Monitoring and Early Warning System of DOST-PAGASA

Loren Joy D. Estrebillo

Weather Specialist DOST-PAGASA

Impact Assessment and Applications Section - CAD

Email: iaascad17@gmail.com



OUTLINE

01.

Heat index: How hot the weather feels like?

02.

Operational practice on issuance of HI

HEAT INDEX



is what the temperature feels like to the human body when humidity

real feel

init factor

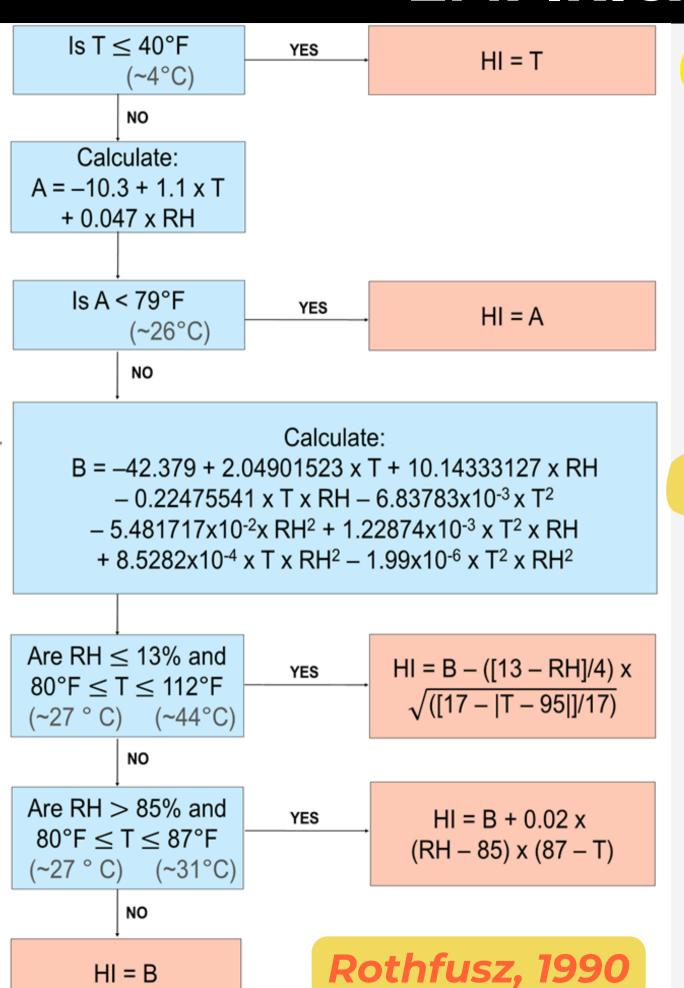
apparent temperature

damang init

EMPIRICAL DERIVATION

TABLE 2. Temperature-humidity scale: Apparent temperature (°C) corresponding to each combination of dry-bulb temperature and relative humidity. Values in parentheses correspond to skin humidities above 90% and are approximate.

							-				
Dry bulb temperature					Rela	itive h	umidit	y (%)			
(°C)	0	10	20	30	40	50	60	70	80	90	100
20	16	17	17	18	19	19	20	20	21	21	21
21	18	18	19	19	20	20	21	21	22	22	23
22	19	19	20	20	21	21	22	22	23	23	24
23	20	20	21	22	22	23	23	24	24	24	25
24	21	22	22	23	23	24	24	25	25	26	26
25	22	23	24	24	24	25	25	26	27	27	28
26	24	24	25	25	26	26	27	27	28	29	30
27	25	25	26	26	27	27	28	29	30	31	33
28	26	26	27	27	28	29	29	31	32	34	(36)
29	26	27	27	28	29	30	31	33	35	37	(40)
30	27	28	28	29	30	31	33	35	37	(40)	(45)
31	28	29	29	30	31	33	35	37	40	(45)	
32	29	29	30	31	33	35	37	40	44	(51)	
33	29	30	31	33	34	36	39	43	(49)		
34	30	31	32	34	36	38	42	(47)			
35	31	32	33	35	37	40	(45)	(51)			
36	32	33	35	37	39	43	(49)				
37	32	34	36	38	41	46					
38	33	35	37	40	44	(49)			*		
39	34	36	38	41	46						
40	35	37	40	43	49						
41	35	38	41	45							
42	36	39	42	47							
43	37	40	44	49							
44	38	41	45	52							
45	38	42	47								
46	39	43	49								
47	40	44	51								
48	41	45	53								
49	42	47				240		100 6	V 10	70	70
50	42	48				JE	uu	mo	111,	19	



HEAT INDEX EQUATION is obtained by multiple regression analysis (from Steadman's table) carried out by Rothfusz (1990)

HI value has an error of ±1.3°

Anderson (2013) showed that this algorithm is most accurate among others, relative to Steadman's table

ASSUMPTIONS

in Steadman's table of apparent temperature

Parameter	Description	Assumption
Vapor pressure (dew point)	Ambient vapor pressure of the atmosphere	1.6 kPa (14°C)
Human dimension	Determines the skin's surface area	1.7m in ht., 67 kg in wt.
Effective radiation area of skin	A ratio that depends upon skin surface area	1.78 m ²
Significant diameter of a human	Based on the body's volume and density.	15.3 cm
Clothing cover	Long trousers and short-sleeved shirt is assumed	84% coverage
Core temperature	Internal body temperature	98.6°F (37°C)
Core vapor pressure	Depends upon body's core temperature and salinity	5.65 kPa
Activity	Determines metabolic output.	180 W m ⁻² of skin area for the model person walking outdoors at a speed of 1.4 m s ⁻¹
Effective wind speed	Vector sum of the body's movement and an average wind speed. Angle between vectors influences convection from skin surface (below).	5 kts

ASSUMPTIONS

in Steadman's table of apparent temperature

Parameter	Description
Surface temperatures and vapor pressures of skin and clothing	Affects heat transfer from the skin's surface either by radiation or convection. These values are determined by an iterative process. (see Figure)
Clothing resistance to heat transfer	The magnitude of this value is based on the assumption that the clothing is 20% fiber and 80% air
Clothing resistance to moisture transfer.	Since clothing is mostly air, pure vapor diffusion is used here.
Radiation from the surface of the skin	A radiative heat-transfer coefficient determined from previous studies.
Convection from the surface of the skin	A convection coefficient also determined from previous studies. Influenced by kinematic viscosity of air and angle of wind.
Sweating rate	Assumes that sweat is uniform and not dripping from the body.

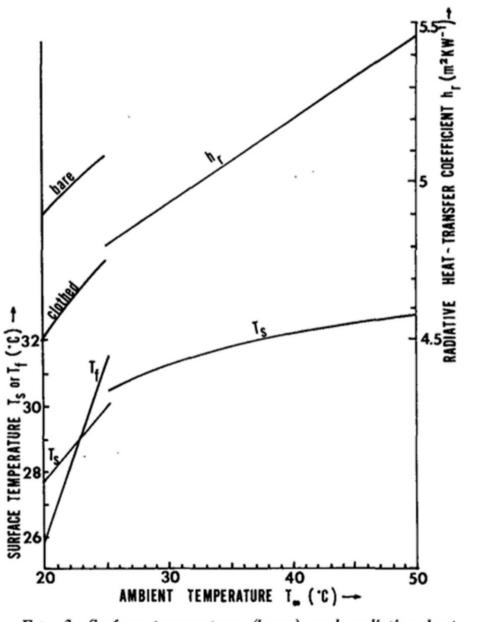
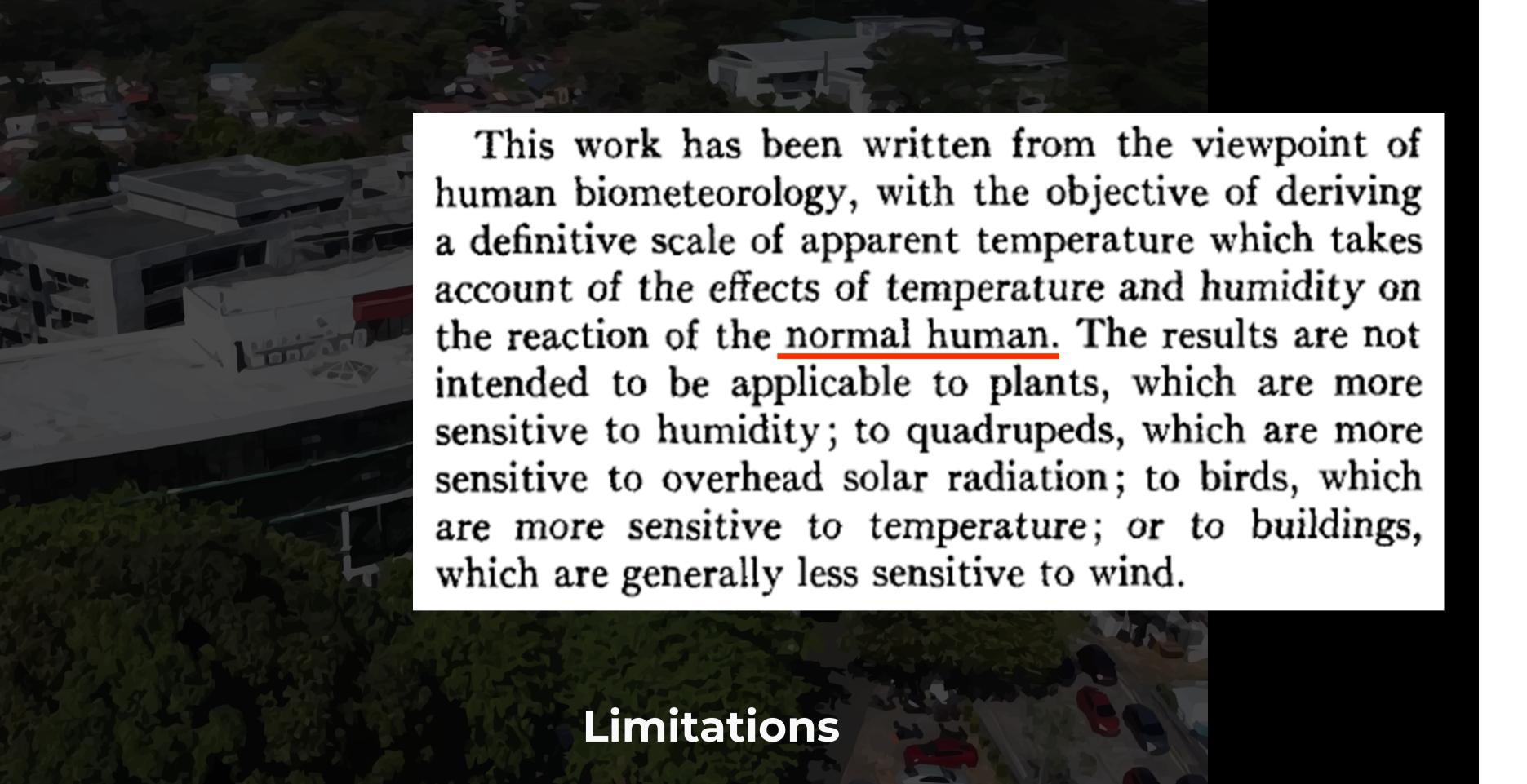
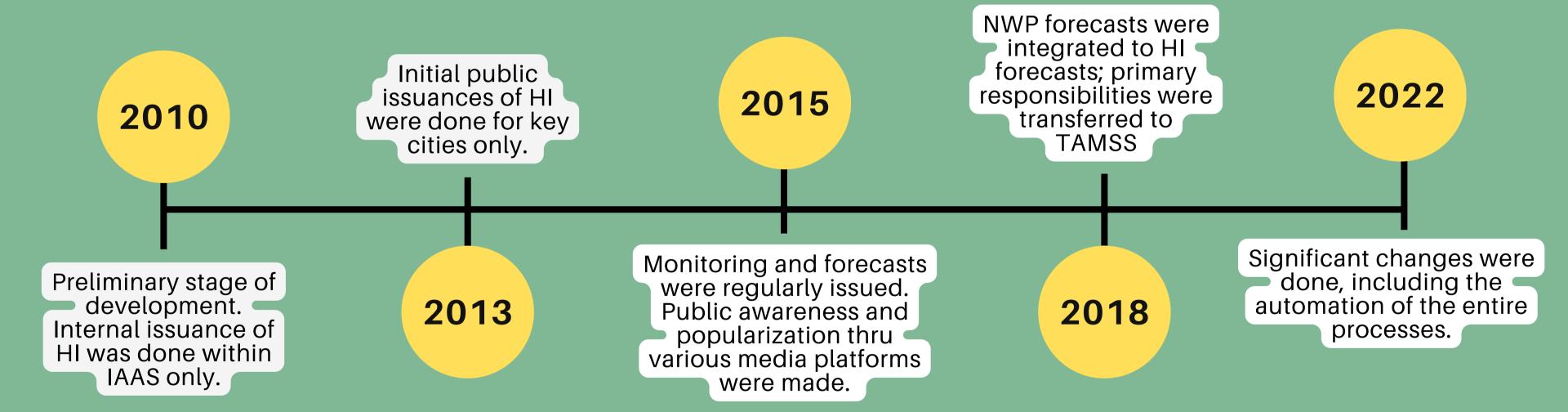


Fig. 3. Surface temperature (lower) and radiative heat-transfer coefficient as a function of ambient temperature when $P_{\infty} = 1.6 \,\mathrm{kPa}$.

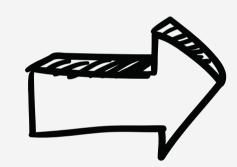


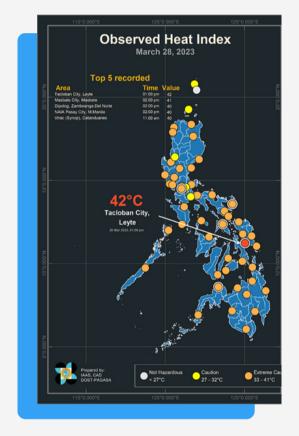
HEAT INDEX OPERATIONAL ISSUANCE

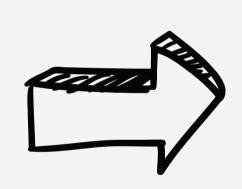




METHODS





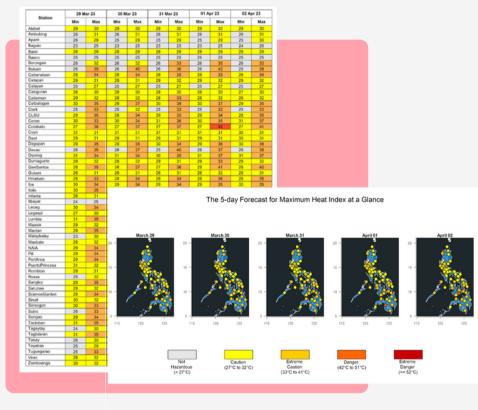


2022-early 2023

operational issuance

3-step process in preparing heat

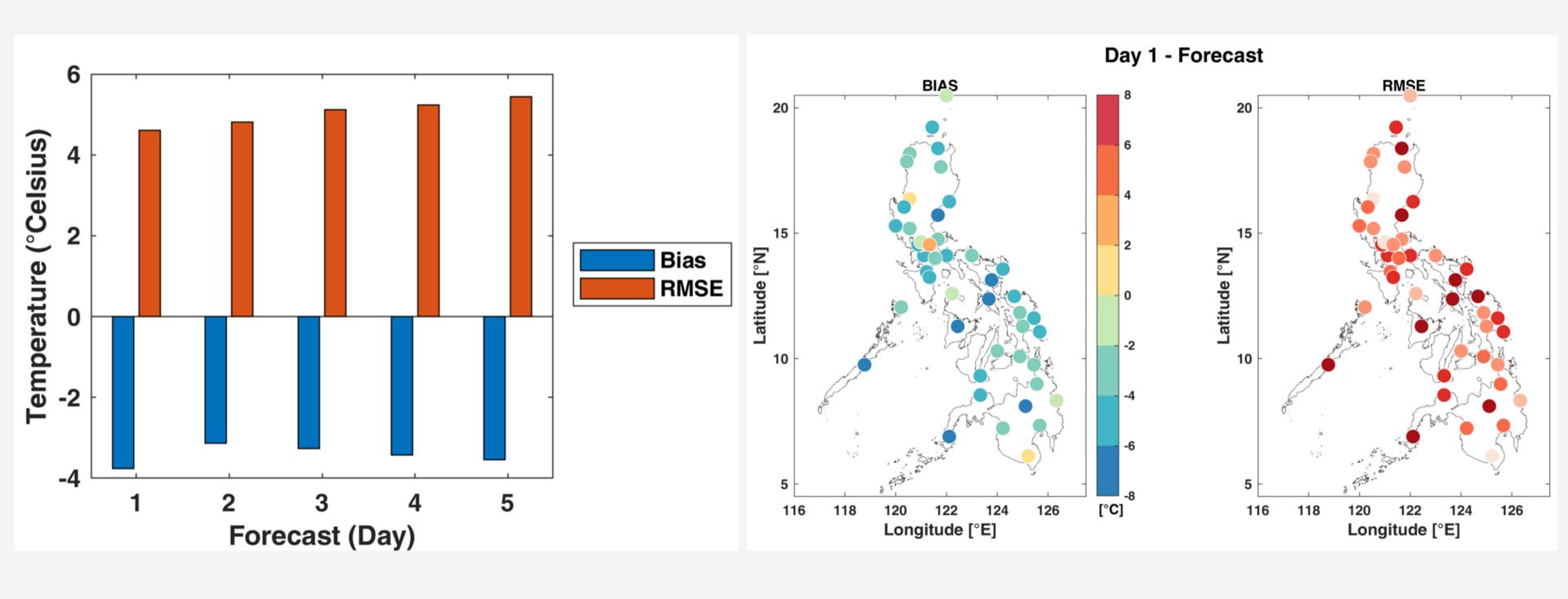
index information for daily



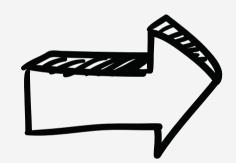
Obtain present-day
HI based on
observations taken
at PAGASA stations

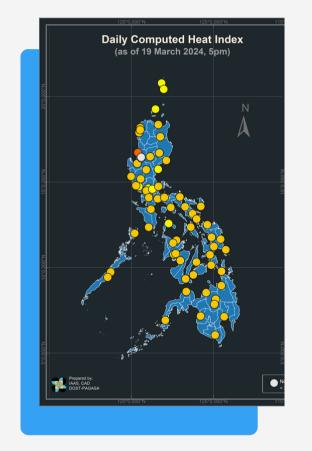
Generate map of observed max HI values for present-day

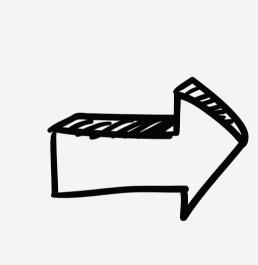
Generate table and maps of 5-day HI forecast NWP model (WRF)



METHODS





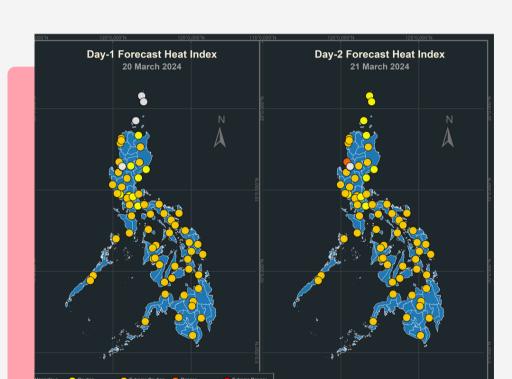


2024

3-step process in preparing heat

index information for daily

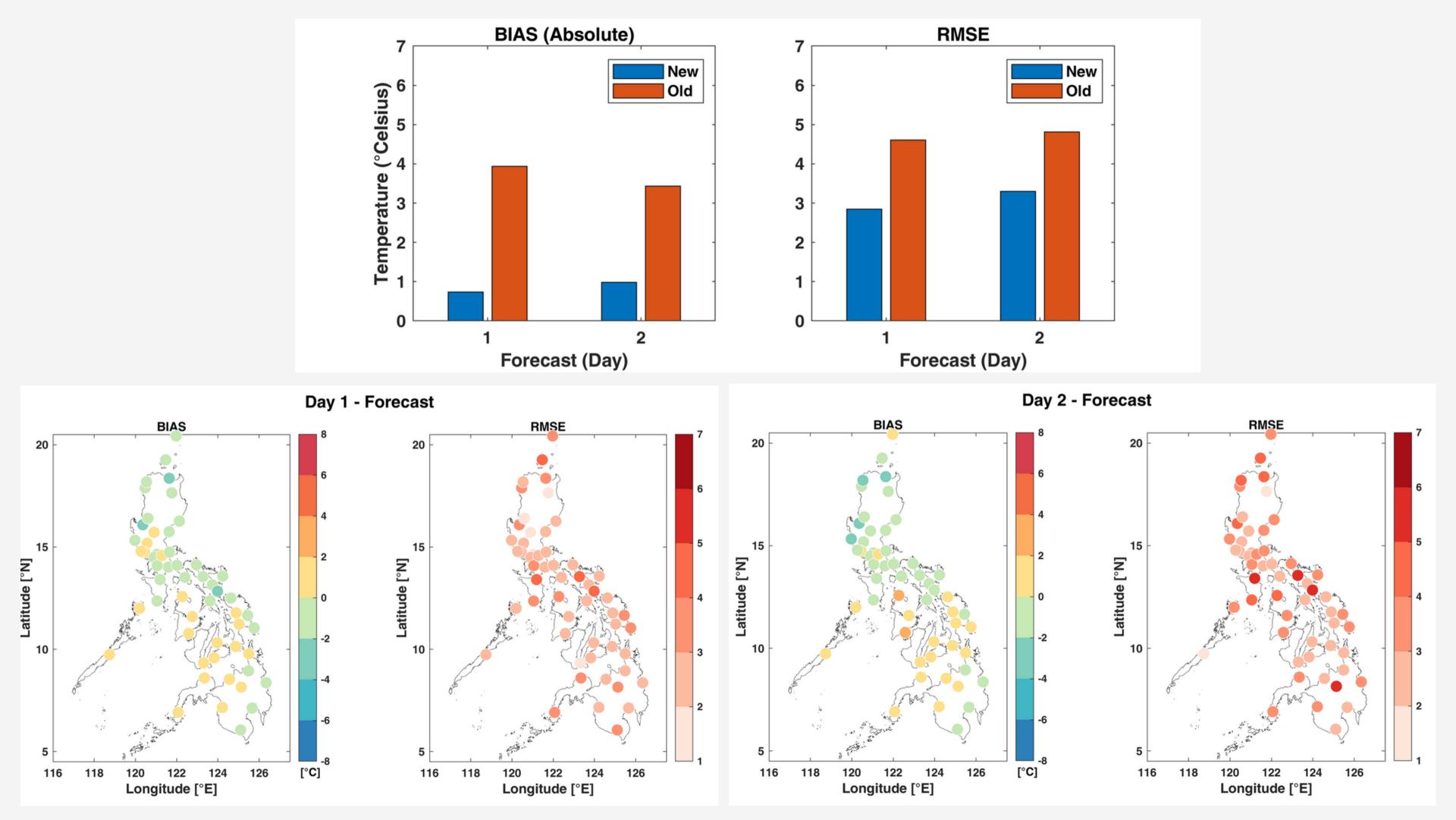
operational issuance



Obtain present-day
HI based on
observations taken
at PAGASA stations

Generate table & map of computed max HI values for present-day (incl past four days) Generate maps of 2-day HI forecast

global forecast model ECWMF

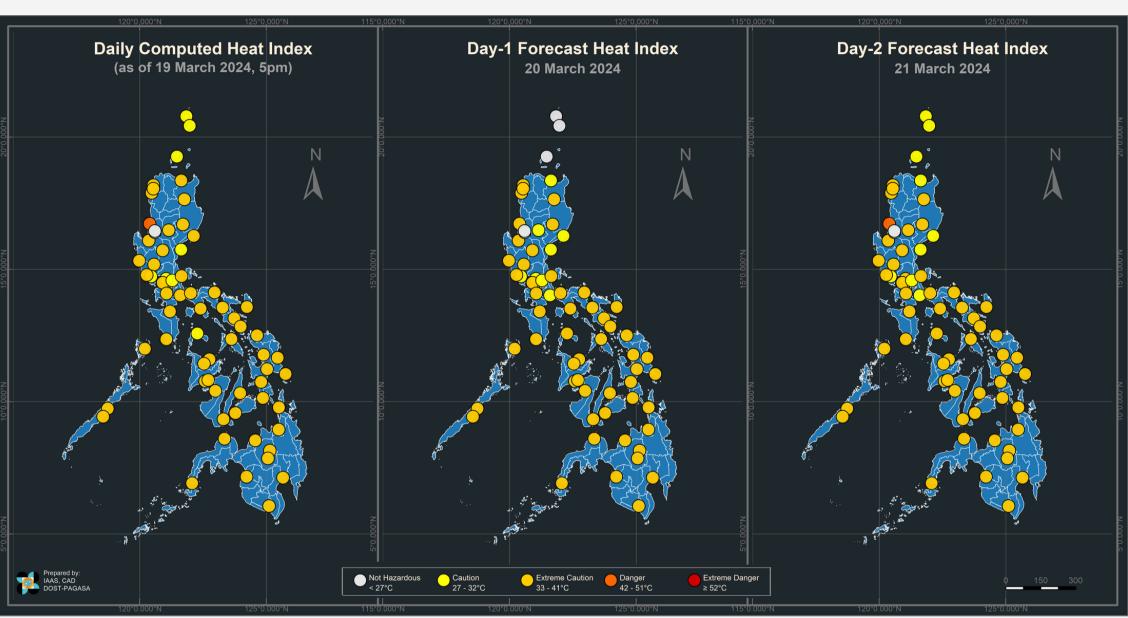


HIGHEST HEAT INDEX

5-day Computed and 2-day Forecast As of 19 March 2024, 5pm

B!			Computed 5-days Heat Index (2024)					Forecast		
Region	Station	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	1-day (20-Mar)	2-day (21-Mar)		
National Capital Region	NAIA Pasay City, M.Manila	33	36	36	36	35	34	36		
	Science Garden Quezon City, Metro Manila	32	34	34	34	32	32	35		
	Sinait, Ilocos Sur	35	35	35	34	35	33	34		
B	Laoag City, Ilocos Norte	35	37	35	35	36	33	34		
Region I (Ilocos Region)	Dagupan City, Pangasinan	39	43	40	41	40	37	39		
	MMSU, Batac, Ilocos Norte	35	35	36	35	35	34	34		
	Bacnotan, La Union Itbayat, Batanes	39	34	39 29	42	47	40	42		
	Calayan, Cagayan	26 34	29 33	33	29 32	28 32	22 26	27 29		
	Basco (Radar), Batanes	24	29	28	29	29	23	27		
Region II (Cagayan Valley)	Aparri, Cagayan	40	37	37	36	35	28	29		
region ii (ouguyan vaney)	Tuguegarao City, Cagayan	38	37	37	37	36	34	36		
	NVSU Bayombong, Nueva Vizcaya	33	34	35	34	33	32	33		
	ISU Echague, Isabela	36	36	36	35	35	33	35		
	Baguio City, Benguet	25	25	25	22	23	22	23		
Cordillera Administrative Region	BSU, La Trinidad, Benguet	26	24	24	24	22	22	23		
	Iba, Zambales	37	38	36	37	36	35	35		
	Clark Airport (DMIA), Pampanga	33	35	36	34	35	34	34		
	CLSU Muñoz, Nueva Ecija	33	34	36	34	34	34	35		
Region III (Central Luzon)	Baler (Radar), Aurora	28	25	36	34	31	31	32		
	Casiguran, Aurora	32	31	35	33	33	31	32		
	Abucay, Bataan	31	32	33	31	32	31	32		
	Cubi Pt., Subic Bay Olongapo City	36	36	35	36	34	34	36		
	Tayabas City, Quezon	33	36	34	29	34	30	32		
	Sangley Point, Cavite	33	36	37	36	37	36	37		
	Ambulong, Tanauan Batangas	34	37	36	34	34	35	36		
Region IV-A (CALABARZON)	Tanay, Rizal (Radar)	23	29	29	28	29	30	31		
	Infanta, Quezon	26	32	33	33	34	35	36		
	Alabat, Quezon	33	36	34	32	34	35	36		
	Mulanay, Quezon	37	35	34	31	36	37	38		
	Calapan, Oriental Mindoro	35	36	36	32	35	36	37		
	Coron, Palawan	36	39	35	36	34	34	35		
Region IV-B (MIMAROPA)	San Jose, Occidental Mindoro	39	41	40	38	39	38	39		
region iv-b (williamor A)	Romblon City, Romblon	32	34	34	32	32	33	34		
	Puerto Princesa City, Palawan	39	39	40	38	38	39	38		
	Aborlan, Palawan	39	41	40	38	39	38	38		
	Daet, Camarines Norte	36	36	35	35	34	35	36		
	Legazpi City, Albay	38	38	36	32	36	37	38		
Region V (Bicol Region)	Virac (Synop), Catanduanes	40	47	44	38	35	36	37		
(Masbate City, Masbate	40	40	37	33	35	36	37		
	Juban, Sorsogon	36	35	35	28	33	34	35		
	CBSUA-Pili, Camarines Sur	39	39	36	37	39	39	39		
	Roxas City, Capiz	39	38	40	38	40	39	40		
	Mambusao, Capiz	34	35	36	33	33	34	33		
Region VI (Western Visayas)	Iloilo City, Iloilo	35	39	37	36	38	37	36		
	Dumangas, Iloilo	37	40	38	38	38	38	37		
	La Granja, La Carlota, Negros Occidental	36	39	38	37	35	36	37		
	Dumaguete City, Negros Oriental	34	36	35	34	33	34	35		
Region VII (Central Visayas)	Panglao International Airport, Bohol	35	35	36	37	33	34	35		
	Mactan International Airport, Cebu	35	36	34	36	33	34	33		
	Catarman, Northern Samar	39	38	38	34	33	34	36		
	Catbalogan, Western Samar	36	36	35	36	33	33	33		
Decision VIII (Footom Vicesses)	Tacloban City, Leyte	38	37	37	37	36	35	36		
Region VIII (Eastern Visayas)	VSU-Baybay, Leyte	36	34	34	34	33	33	34		
	Borongan, Eastern Samar	38	37	34	38	37	36	36		
	Guiuan, Eastern Samar	35	35	39	40	39	38	39		
	Maasin, Southern Leyte	37	34	33	33	34	34	35		
Region IX (Zamboanga Peninsula)	Dipolog, Zamboanga Del Norte	36	37	37	36	37	37	36		
	Zamboanga City, Zamboanga Del Sur	40	40	39	39	39	38	39		
Region X (Northern Mindanao)	Laguindingan Airport, Misamis Oriental Malaybalay, Bukidnon	38	38	35	35	34	35	34 37		
region A (rectilent milidanao)		36	36	38	32	37	36	_		
Region XI (Davas Pegion)	CMU Agromet, Musuan, Bukidnon	34	35	35	34	36	35	36		
Region XI (Davao Region)	Davao City, Davao Del Sur	37	39	38	37	39	36	38		
BARMM Pagion VII (SOCCSKSARGEN)	Cotabato City, Maguindanao	41	42	39	40	41	40	41		
Region XII (SOCCSKSARGEN)	General Santos City, South Cotabato	36	35	36	34	37	37	38		
Region XIII (Caraga)	Surigao City, Surigao Del Norte	36	35	35	35	35	35	34		
	Butuan City, Agusan Del Norte	36	40	37	37	36	37	36		

^{*} Values beyond the 53°C Heat Index are estimates, which might already be unrealistic. Such values should therefore not to be interpreted in terms of their absolute magnitudes, but rather on the health risks they pose on us.



https://www.pagasa.dost.gov.ph/climate/climate-heat-index

Effect-based classification





27–32°C Caution Fatigue is possible with prolonged exposure and activity. Continuing activity could lead to heat cramps.



33–41°C Extreme Caution Heat cramps and heat exhaustion are possible. Continuing activity could lead to heat stroke.



42–51°C Danger Heat cramps and heat exhaustion are likely; heat stroke is probable with continued exposure.



52°C and beyond Extreme Danger

Heat stroke is imminent.

WHO ARE MOST AT RISK?

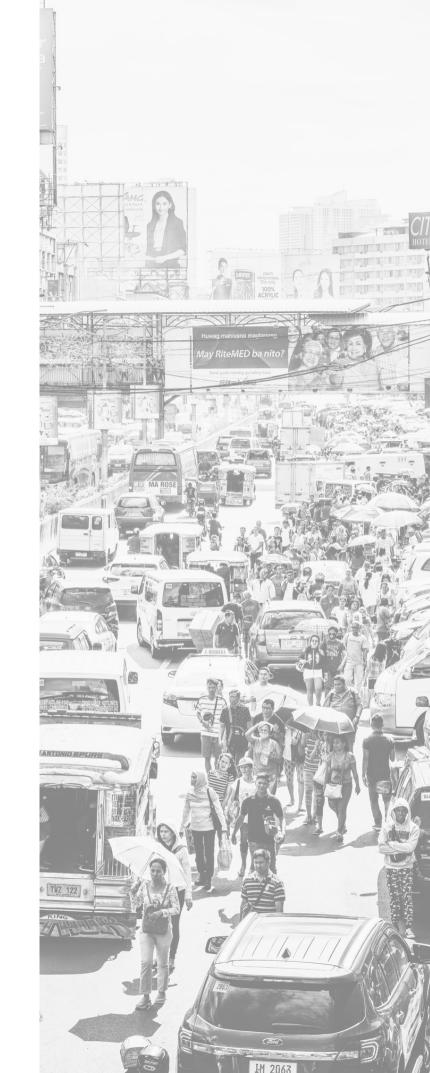








outside workers



Heat Stroke



It is the most severe form of heat illness wherein the body overheats and can't cool down by sweating because of dehydration.



CAUSES

The risk of heat stroke raises in hot and humid weather coupled with:







Dehydration;

Too much direct exposure to the sun.



Source: https://doh.gov.ph/Health-Advisory/Heat-Stroke

Heat Stroke



It is the most severe form of heat illness wherein the body overheats and can't cool down by sweating because of dehydration.

PREVENTION



Limit the amount of time you spend outdoors.



Drink plenty of water. Avoid tea, coffee, soda, and alcohol.



Wear a wide-brimmed hat and long-sleeved clothing outdoors.



Schedule heavy-duty activities for the beginning or end of the day, when it's cooler.

EMERGENCY MEASURES



Move the person to a shady spot or indoors and have him or her lie down with the legs elevated. If still conscious, have them sip cool water.



Remove clothing, apply cool water to the skin and fan them.



Apply ice packs to the armpits, wrists, ankles, and groin.



Bring to a hospital immediately.

Source: https://doh.gov.ph/Health-Advisory/Heat-Stroke

PRESS RELEASE March 7, 2024 PR-24-03-014

MMDA Reinstates 30-Minute Heat Stroke Break for Field Personnel

The Metropolitan Manila Development Authority (MMDA) has reinstated the 30-minute "heat stroke break" policy for its field personnel, particularly traffic enforcers and street sweepers, to protect them from heat-related illness amid the impact of the El Niño phenomenon.

MMDA Acting Chairman Atty. Don Artes signed a memorandum circular reinstating the "heat stroke break" policy, which will take effect from March 15 until May 31, to be implemented daily through a rotation schedule.

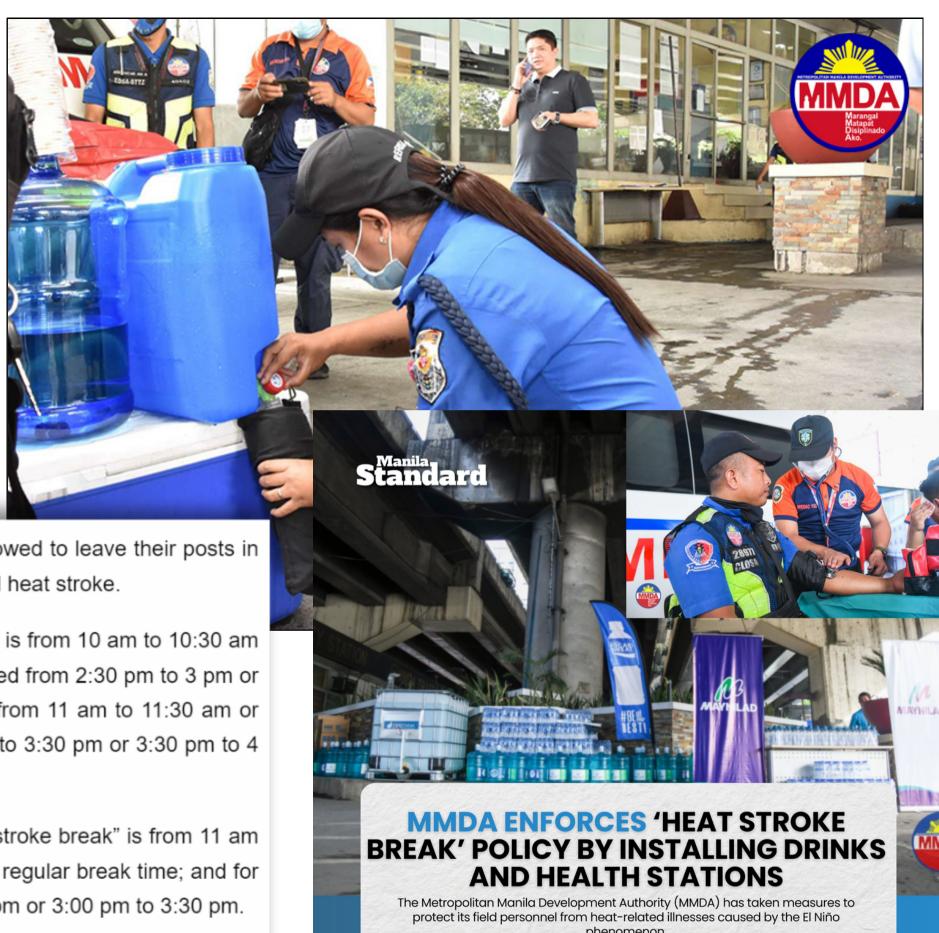
"We must understand the plight of these traffic enforcers and street sweepers who work under the scorching heat of the sun every day to fulfill their duties and responsibilities," Atty. Artes explained.

Under the heat stroke break policy, on-duty traffic enforcers and street sweepers are allowed to leave their posts in shifts so that they can rehydrate, seek shelter from the sun, and take a 30-minute break to avoid heat stroke.

For traffic enforcers who work from 5 am to 1 pm shift, the prescribed "heat stroke break" is from 10 am to 10:30 am or 10:30 am to 11 am; for those working from 1 pm to 9 pm shift, the break time shall be observed from 2:30 pm to 3 pm or 3 pm to 3:30 pm; for those working from 6 am to 2 pm, the prescribed "heat stroke break" is from 11 am to 11:30 am or 11:30 am to 12 noon; and for 2 pm to 10 pm shift, the break time shall be observed from 3 pm to 3:30 pm or 3:30 pm to 4 pm.

Meanwhile, for street sweepers who work from 6 am to 2 pm shift, the prescribed "heat stroke break" is from 11 am to 11:30 am or 11:30 am to 12 noon; for 7 am to 4 pm shift, they shall observe 12 noon to 1 pm regular break time; and for those working from 11 am to 7 pm shift, the break time shall be observed from 2:30 pm to 3:00 pm or 3:00 pm to 3:30 pm.

Field personnel could also take an additional 15-minute break time in case the heat index, or the "human discomfort index" in Metro Manila reaches 40 degrees Celsius and above.

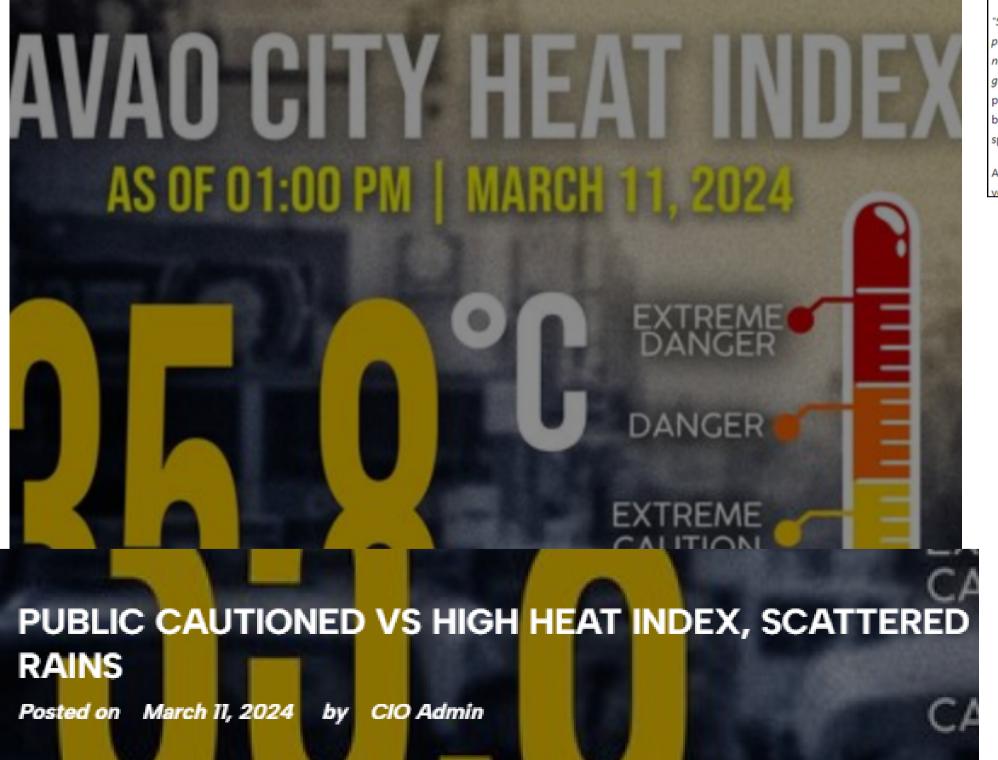


f O X @manilastandard









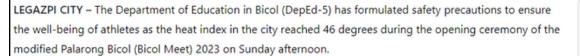
DepEd-Bicol ensures Palaro athletes' safety amid high heat index

By Connie Calipay and Emmanuel Solis ## April 24, 2023, 7:22 pm









In a press conference on Monday, architect Roland Alianza, Legazpi City Schools Division Office (SDO) disaster risk reduction management (DRRM) chief, said they made sure that the precautionary measures were discussed during the preparations for the week-long activity.

Sa mga coordination meetings conducted by our regional office with the different SDOs, napag-usapan po ang preparations with regards sa heat index to ensure the safety of the athletes. Kaya nga ang mag billeting schools natin ay hindi na katulad ng dati na punoan kundi ang instruction natin ay dapat maluwag na ang mga rooms na ginagamit (During the coordination meetings conducted by our regional office with the different SDOs, preparations were discussed regarding the heat index to ensure the safety of the athletes. That's why our billeting schools are no longer as crowded as before as the instruction was that the rooms to be used should be spacious)," Alianza said.

Aside from spacious billeting for the athletes, he said they also wanted to hold most of the games in indoor



Albay province start to play for the 3x3 basketball game for secondary boys at the Albay Central School in Legazpi City as part of the ongoing Palarong Bicol 2023. The Department of Education for the weeklong activity are to be conducted indoors as a precautionary measure amid the high heat index recorded in the city. (PNA photo by Connie Calipay)

"Tapos yung mga laro natin, lahat indoors, covered courts. Kung may laro man sa labas, hindi na siya gagawin tulad ng dati na mainit pa.. like boxing by 3:00 p.m., it's not that hot anymore with regards to outdoor events. Kaya na consider po natin yan para sa ngayon mainit na panahon (And our games are now all indoors or in covered courts. If there's a game outside, it will be done in the afternoon when it's not so hot... like boxing by 3:00 p.m., it is not that hot anymore with regards to outdoor events. So we really consider that in anticipation of the hot weather)," he added



Philippine News Agency

https://www.pna.gov.ph > articles

Laguna students hospitalized after fainting during fire drill

Mar 24, 2023 — CABUYAO CITY, Laguna – **More than 100 students** were rushed into different hospitals in this city Thursday afternoon after fainting in the middle ...



SunStar Philippines

https://www.sunstar.com.ph > Davao > Local News :

21 DayNor students faint due to heat

Sep 11, 2023 — THE 21 **students** who **fainted** due to exposure to the scorching weather have safely returned to their homes. The incident occurred on Friday, ...



Philstar.com

https://www.philstar.com > nation > 2023/03/25 > 120-...

120 high school students hospitalized after fire drill

Mar 25, 2023 — MANILA, Philippines — **Up to 120 students were taken to hospitals** after they fainted and showed symptoms of heat exhaustion during a fire ...

Laguna students hospitalized after fainting during fire drill

Region

By Belinda Otordoz

March 24, 2023, 8:25 pm

CABUYAO CITY, Laguna – More than 100 students were rushed into different hospitals in this city Thursday afternoon after fainting in the middle of a surprise fire drill at their school.

In an interview on Friday, City Disaster Risk Reduction and Management (CDRRMO) head Sabi Abinal Jr. said that based on their initial findings, the students fainted due to starvation and dehydration.

"The Gulod National High School – Mamatid Extension conducted mandatory unannounced earthquake and fire drill but the school failed to make proper coordination with the local government, the CDRRMO and the Bureau of Fire Protection (BFP)," Abinal said.

No safety and medical officers were present at the drill and only Boy Scouts and Girl Scouts served as marshals, he noted.

		Port Area, Manila	35	34	33	36
	National Capital Region	NAIA Pasay City, M.Manila	36	35	35	38
		Science Garden Quezon City, Metro Manila	34	34	36	37
		Sinait, Ilocos Sur	35	33	32	34
	Region I (Ilocos Region)	Laoag City, Ilocos Norte	36	35	33	35
		Dagupan City, Pangasinan	37	37	38	41
		Itbayat, Batanes	27	30	32	32
		Calayan, Cagayan	30	32	32	37
	Region II (Cagayan Valley)	Basco (Radar), Batanes				
		Aparri, Cagayan	33	33	34	34
		Tuguegarao City, Cagayan	34	36	36	39
	Cordillera Administrative Region	Baguio City, Benguet	23	26	26	29
		Iba, Zambales	35	34	36	35
		Clark Airport (DMIA), Pampanga	34	35	37	36
		CLSU Muñoz, Nueva Ecija	34	37	37	36
	Region III (Central Luzon)	Baler (Radar), Aurora	32	35	34	36
		Casiguran, Aurora	31	34	34	35
And the last of th		Abucay, Bataan	30	30	30	33
		Cubi Pt., Subic Bay Olongapo City	34	33	33	36
		Tayabas City, Quezon	31	30	31	35
Gulod National High S		Sangley Point, Cavite	36	35	37	38
from the FB page of G		Ambulong, Tanauan Batangas	34	35	37	41
nom the FB page of G	Region IV-A (CALABARZON)	Tanay, Rizal (Radar)	27	27	28	29
		Infanta, Quezon	32	28	24	34
		Alabat, Quezon	32	33	33	36

Station

Abinal said almost 3,000 students were told to gather and stay in classrooms at aroung 12.30 p.m. and open evacuation area and other classrooms at 2 p.m.

By this time, Abinal recounted that a number of students were already feeling sick due to the congeste passed out inside the classrooms after feeling nauseous.

33-41°C **Extreme Caution**

Mulanay, Quezon

Heat cramps and heat exhaustion are possible. Continuing activity could lead to heat stroke.

<u>ε ει Απακράνιο πισπίρσιο, συρρυποίο</u>

Computed 5-days Heat Index (2023)

21-Mar

22-Mar

23-Mar

37 39 36

34 36

39

37 38

32

37 37

29

36 38

36

40

39

33

36

34 38 41

29

31

36

19-Mar

20-Mar

nledge allegiance to gov't



Republic of the Philippines Province of Palawan Municipality of Taytay



OFFICE OF THE MUNICIPAL MAYOR

OFFICIAL STATEMENT ON FAINTING INCIDENT OF PARTICIPANTS AND SPECTATORS DURING THE PASINGGATAN FESTIVAL 2023 DRUM AND LYRE COMPETITION HELD LAST MAY 02, 2023 AT FUERZA STA. ISABEL GROUNDS

The Municipal Government of Taytay, Palawan expresses its deep concern over the fainting incident that occurred during the Pasinggatan Festival 2023 Drum and Lyre Competition held last May 02, 2023, at the Fuerza Sta. Isabel Grounds. We extend our sincerest apologies to the 90 individuals who were affected by the excessive heat and fainted.

Taytay LGU apologizes for multiple fainting incidents during drum and lyre competition

By **Gerald Ticke** - May 05, 2023 ● 97











File photo from the Municipal Government of Taytay on Facebook.

	ı .	Computed 3-days near muex (2023)						
Region	Station	28-Apr	29-Apr	30-Apr 01 43 41 39 40 44 34 41 41 41 41 38	01-May	02-May		
	Port Area, Manila	40	41		43	37		
National Capital Region	NAIA Pasay City, M.Manila	41	41	43	43	42		
	Science Garden Quezon City, Metro Manila	38	40	41	40	39		
	Sinait, Ilocos Sur	39	40	39	39	41		
Region I (Ilocos Region)	Laoag City, Ilocos Norte	41	43	40	44	40		
	Dagupan City, Pangasinan	41	41	44	44	39		
	Itbayat, Batanes	31	33		30	32		
	Calayan, Cagayan	35	39		35	36		
Region II (Cagayan Valley)	Basco (Radar), Batanes	31	34	34	26	31		
	Aparri, Cagayan	40	43	41	44	46		
	Tuguegarao City, Cagayan	39	41	41	42	39		
Cardillara Administrativa Danian	Bassia Oite Bassiat	20	20	20	^7	00		
	Coron, Palawan	37	38	38	38	39		
Region IV-B (MIMAROPA)	San Jose, Occidental Mindoro	43	41	43	41	44		
	Romblon City, Romblon	36	36	36	38	37		
	Puerto Princesa City, Palawan	43	42	37	36	41		

33–41°C Extreme Caution Heat cramps and heat exhaustion are possible. Continuing activity could lead to heat stroke.

42–51°C Danger Heat cramps and heat exhaustion are likely; heat stroke is probable with continued exposure.

SENATE OF THE PHILIPPINES

19th Congress

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Press Release May 8, 2023

SENATOR MARK VILLAR WANTS A STRONGER HEAT INDEX MONITORING SYSTEM IN THE COUNTRY

Senator Mark A. Villar filed Resolution No. 590 urging the proper Senate Committee to conduct an inquiry in aid of legislation for the Philippine Atmospheric, Geophysical, and Astronomical Services Administration (PAGASA) to develop and strengthen the existing heat index monitoring in the Philippines similar to the alert system used during other calamities.

"Ako po ay naghain ng resolution dahil sa mga ulat na nakarating sa atin na mayroong insidente kung saan 120 na mag-aaral ang dinala sa mga ospital sa Laguna matapos silang mahilo habang isinasagawa ang fire drill sa kanilang paaralan sa Cabuyao City. Isa pa dito ang isang insidente na nangyari kamakailan lamang sa isang pagdiriwang sa Taytay, Palawan na siyamnapu ang nahilo't hinimatay dahil sa sobrang init", Senator Mark Villar said.

The inquiry aims to assess the current status of heat index monitoring and warning systems in the country, identify the potential impacts of extreme heat on public health and the economy, and determine the best practices and technologies on heat index monitoring and alert systems in other countries.

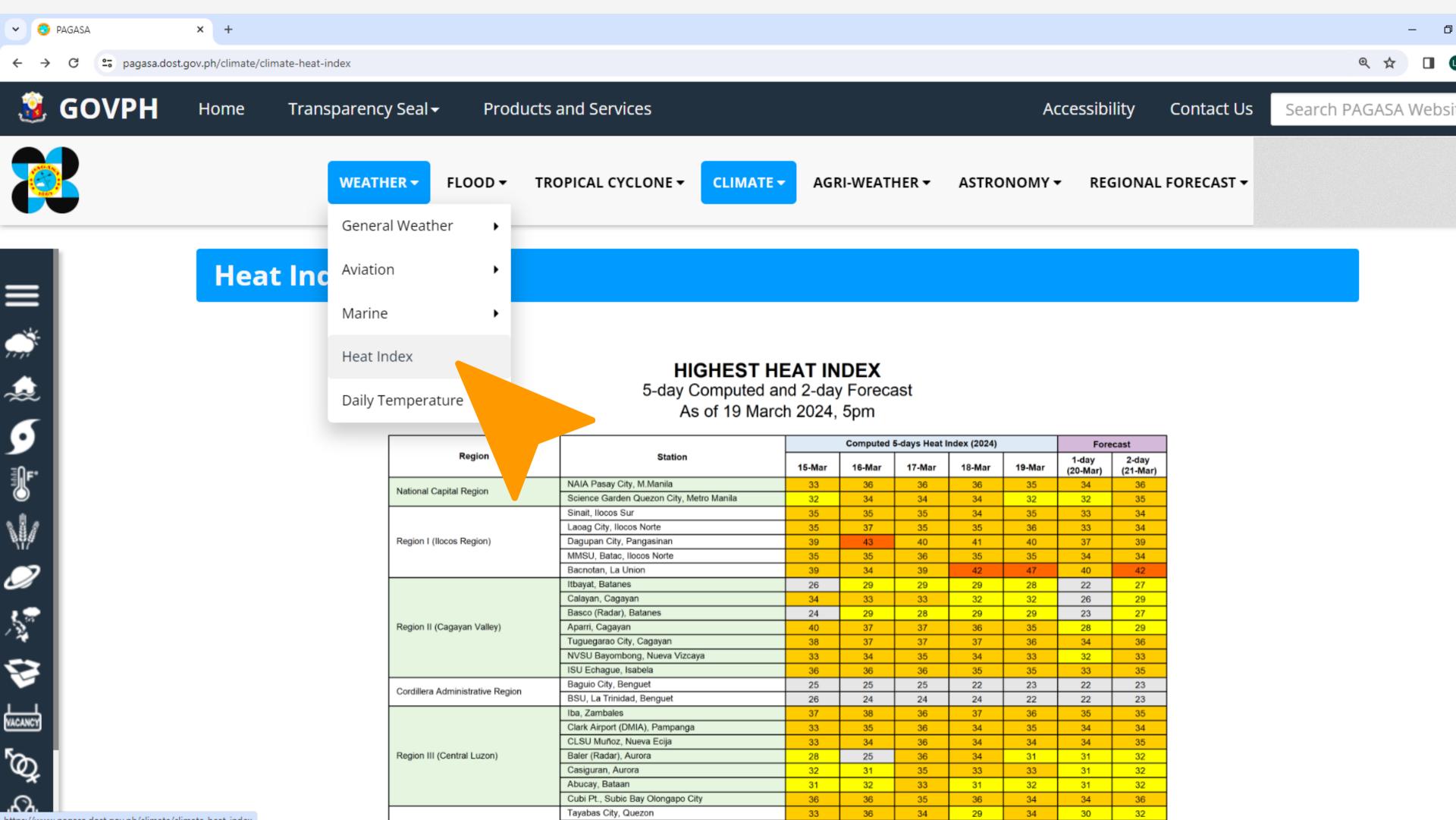
"Dapat magbigay din ng warning ang PAGASA for instances na sobrang init na sa mga lugar dito sa Pilipinas. By providing our countrymen with sufficient and early information through text messages and other technologies we can save lives and prevent any other heat-related incidents to occur. Kung meron tayo sa bagyo, mas dapat meron for heat index." Villar explained.

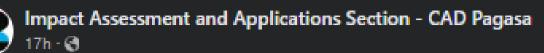
News 🔝

Thursday, May 18

- Statement of Senator Jinggoy Estrada on the signing of amendments to RA 11709
- Tolentino lauds pilot testing of internet voting for OFWs in 2025 polls
- Robin Seeks Death Penalty for Law Enforcers Involved in Smuggling
- Gatchalian's Mental Health Action Day message: Gov't should address 'mental health pandemic'
- Opening statement of Senator Risa Hontiveros on Agricultural Smuggling Hearing
- Opening Statement of Senator Cynthia A. Villar during the Committee Hearing on Senate Bill No. 1963 or the Anti-Agricultural Smuggling Court

news archives...





Highest computed 5-day heat index map and table with 2-day forecast as of 5:00PM, 2024 March 19

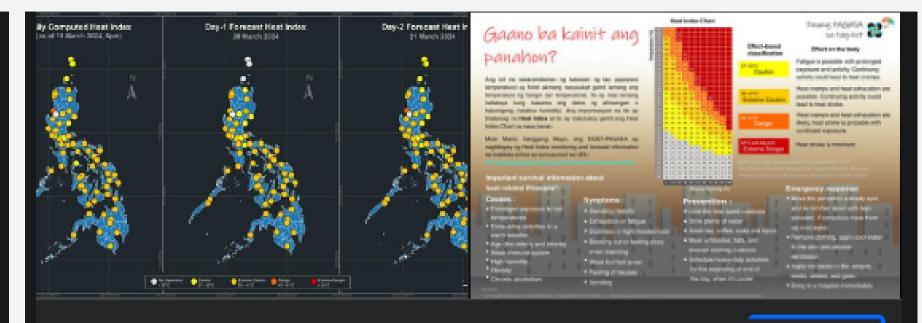
For more heat index information:

https://bagong.pagasa.dost.gov.ph/climate/climate-heat-index

Information from the DOH Philippines about heat-related illnesses during extremely hot weather: https://bit.ly/DOHph-HeatStrokeAdvisory

Don't forget to take necessary precautions and stay cool and hydrated everyone! 🧓 🜡 #HeatIndex #AngInit

Region	Station	15-Mar	16-Mar	17-Mar	18-Mar	19-Mar	1-day (20-Mar)	2-day (21-Mur)
	NAIA Pasay City, M Marsta	33	26	36	36	35	34	30
National Capital Region	Science Garden Quezon City, Metro Mentie	32	-34	34	34	32	32	- 35
Je dan Sarah Changaran	Smart, Roccos Sur	36	25	35	34	35	33	34
	Lenag City, Rocce Norte	30	37	30	39	36	33	34
Region I (Nocos Region)	Dagupan City, Pangasinan	30	-0.	40	41	40	37	. 20
	MMINU, Batac, Isosia Norte	36	35	36	38	35	38 40 22 26 20 20 34 32 32 22 22 22 36 34 34 31	34
	Bacnotan, La Union	30	34	-39	40	17	40	40
	Youyat, thetanes	26	29	29	29	28	22	27
	Calayan, Cagayan	34	- 23 -	33	30	32	26	- 28
	Elesco (Radar), Batanes	24	79	28	29-	-29	23	- 27
Riegion II (Cageyan Valley)	Apant, Cagayan	45	17	37	36	35	(20 Minr) 34 32 33 33 37 34 40 22 20 23 28 34 32 35 36 34 34 31 31	28
	Tuguegaras Oty, Cagayan	36	37	37	32	36		- 36
	MVSU Bayombong, Nueva Vlocaya	33	34	35	34	33		33
	19U Echague, Nabela	36	36	36	35	26	33	28
Cordillera Administrative Region	Slaguo City. Banguet	25	25	25	22	- 23	22	23
Coronera Pominianaove riegion	85U. Le Timided, Benguet	26	- 24	24	24	22	(20 Man) 34 32 33 33 33 33 37 38 40 22 28 36 34 37 38 34 31 31 31 31 31 31 31 31 31 31 31 31 31	23
	iba, Zanbales	37	38	26	37	36	26	20
	Clark Arport (DMA), Pempanga	30	35	36	34	.36	34	34
	CLSU Muhuz, Nunva Ecija	3.3	34	36	34	34	34	35
Region III (Central Luzor) -	Baler (Radar), Aurora	38	25	- 36	34	3.5	31	- 33
	Casspuran, Aurora	32	31	35	33	33	31	32
	Abucey, Betsen	21	32	33	31	32	38 33 33 33 33 33 33 33 33 33 33 33 33 3	. 32
	Cuts P1., Subsi Bay Clongapo City	36	36	35	36	34		36
	Tayabas City, Quezon	33	36	- 34	29	34	30	33
	Sangey Post, Cavte	33	36	37	36	37	36	37
	Ambulong, Tanlauen Batangas	34	37	36	- 34	М.	(20 Min) 34 32 33 30 37 38 40 22 20 20 20 30 34 32 33 30 31 31 31 31 31 31 31 34 30 30 30 30 30 30 30 30 30 30 30 30 30	- 36
Region IV-A (CALABARZON)	Taney, Piziel (Redar)	20	- 29	29	28	29		31
	Infanta, Question	26	37	33	33	34	35	- >-
	Alabat, Quazon	30	36	34	32	34	(20 Miss) 34 32 33 33 37 38 40 22 20 23 38 34 32 30 34 32 30 34 31 31 31 31 34 30 36 38 30 36 38 37 30 36 38 37 30 38 38 37 30 38	26
	Mulanay, Quezon	37	- 30	34	- 31	36	37	38
	Categon, Oriental Mindoro	35	34	26	30	25	26	32
	Coron, Palawan	36	38	-36	36	34	34	-36
Region IV-III (MIMAROPM)	San Jose, Occidental Mindoro	39	- 11	40	36	39	38	20
wathers us as become county.	Rombion City, Rombion	32	34	34	32	32	20 Minut) 24 32 33 30 37 38 40 22 20 23 20 34 32 30 31 31 31 31 31 31 31 31 31	34
	Puerto Princesa City, Palewan	29	39	40	28	36		24



Department of Science and Technology
Philippine Atmospheric, Geophysical, and Astronomical Services Administration
Climatology and Agrometeorology Division



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