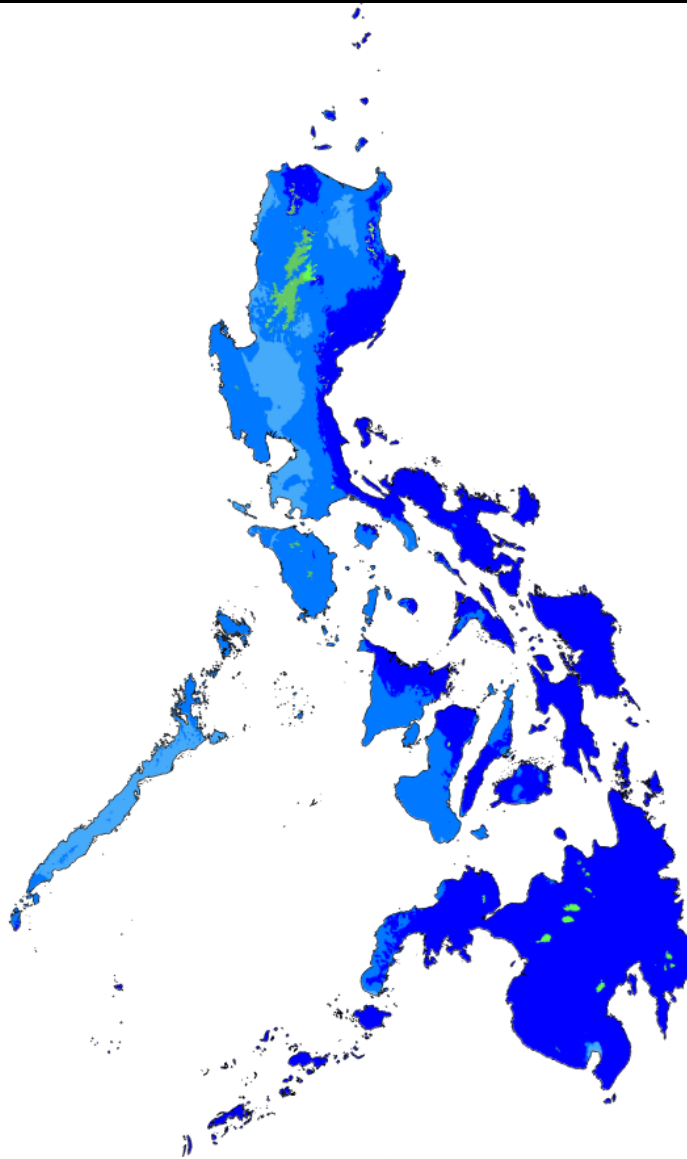

NZB.RGChan.

3.1 Koppen-Geiger

Philippines



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ABOUT THE SERIES

This pdf file-binding is part of the
 NZB.RGChan.Series on foundational researches undertaken by
 R.G.CHAN & Associates for in-house office use, towards
 systematic steps for Net Zero Building Design of projects.

INTRODUCTION

Different climates mandate specific responses in building features and lead to varying design solutions towards the surrounding environment. Promoting Net Zero Building (NZB) Design has become the architect's new mandate as much as an appropriate response towards the agenda of sustainable development. This study will assist in an appreciation of different Philippine climate classifications and drive home the point that a residential design solution in Baguio cannot be re-used in Dagupan, if the design is to be truly effective and responsive to the climate of its location and consequently assure comfort of its occupants.

The Philippines lies between 5° to 21° north latitude and 114° to 127° east longitude. It is an archipelagic country with a total area of about 300,000 km² and a land elevation that ranges from 0 m (Philippine Sea as the lowest point) to 2,954 m (Mount Apo as the highest point) with a mean elevation of 442 m. With an archipelagic land area and the range in elevation above sea level, different parts of the country have distinctive climatic features. These locations are determined and classified by the Köppen–Geiger climate classification.

For decades, a climate classification devised by Wladimir Peter Köppen has been the best-known and most used tool for presenting the world pattern of climates. The Köppen–Geiger climate classification map is established on the relationship of native vegetation and climate in a region. It also takes into consideration the average annual and monthly temperatures and precipitation. In order to find out the influence of climate on architectural design in the Philippines, this study identifies and classifies key locations in the Philippines with respect to the Köppen–Geiger climate classification. Analyzing the different Köppen–Geiger climate classifications can serve as basis in theorizing ways and strategies towards a net-zero building.

CONTEXTUALIZATION

This study has been prepared in anticipation of the related data that can be obtained by way of the Köppen–Geiger climate classifications in the Philippines, specifically as reference information for building science in the context of Net Zero Building (NZB) design.

This report is the precedent binding for NZB.RGChan.3.2 Koppen-Geiger Key Locations, where selected areas under each climate will be named, to serve as prototypes for the climate design in all locations in the country.

Köppen –Geiger Climate Classifications

Köppen –Geiger Climate Classifications (Arnfield, 2020). It is the one of the most common climate classification systems in the world and is used to denote different climate regions on Earth based on local vegetation. Scientist have learned that vegetation and climate are linked such that vegetation that grows in a region is dependent on the temperature and precipitation of said region. Areas with more rainfall and higher temperatures have more forests while those with less rainfall are often deserts (National Geographic Society, 2019).

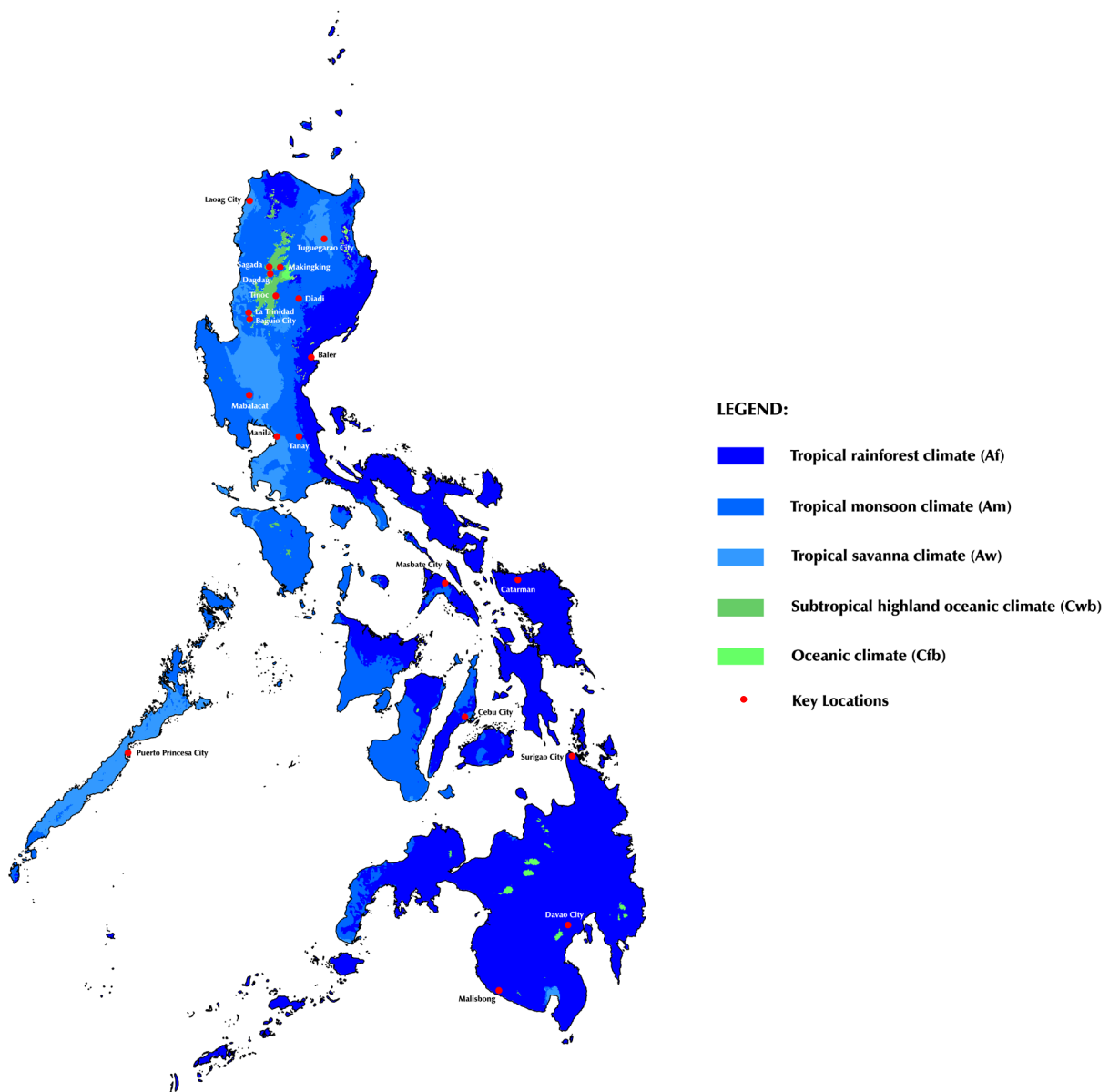


Figure 01. Köppen Climate Map of the Philippines.

The Köppen System has five major climatic types; each type is designated by capital letters (Pidwirny, 2006):

A – Topical Moist Climates: all months have average temperatures above 18° Celsius.

B – Dry Climates: with deficient precipitation during most of the year.

C – Moist Mid-latitude Climates with Mild Winters.

D – Moist Mid-latitude Climates with Cold Winters.

E – Polar Climates: with extremely cold winters and summers.

Three minor Köppen climate types exist in the A group and their designation is based on seasonal distribution of rainfall: Tropical rainforest climate (Af); Tropical monsoon climate (Am); and Tropical savanna climate (Aw).

Tropical rainforest climate (Af)

Areas with this climate have precipitation that occurs all year long. The monthly temperature variations are less than 3° Celsius in this climate. Cumulus and cumulonimbus clouds form early in the afternoons almost every day because of intense surface heating and high humidity.

Examples include **Davao City, Baler, Catarman, Surigao**, Kalibo, Tacloban, Ormoc, Calbayog, and Baybay.

Tropical monsoon climate (Am)

Annual rainfall is equal to or greater than Af, but most of the precipitation falls in the 7 to 9 hottest months in regions with this climate. During the dry season very little rainfall occurs.

Examples include **Tanay, Cebu City, Mabalacat, Masbate City**, Sibuco, Lipa, Lucena, Meycauayan, and Tanauan.

Tropical savanna climate (Aw)

Areas with this climate have an extended dry season during winter. Precipitation during the wet season is usually less than 1000 mm, and only during the summer season.

Examples include **Laoag, Manila, Puerto Princesa, Tuguegarao**, Las Piñas, Dagupan, and General Santos.

Subtropical highland oceanic climate (Cwb)

This climate exists in elevated portions of the world, typically found in mountainous locations. Temperatures here remain relatively constant throughout the year.

Examples include **Baguio City, Diadi, Sagada, La Trinidad**, and Balete.

Oceanic climate (Cfb)

Regions with this climate experience cool but not cold winters and warm summers. The annual temperature range is relatively narrow. Precipitation is sufficient, reliable, and evenly distributed throughout the year (Murigi, 2018).

Examples include **Malisbong, Dagdag, Tinoc, Makingking**, Patay and Bangaan.

****Note: Key Locations in bold and red****

The diagram below shows the five Köppen Climate classifications that can be found in various areas in the Philippines. The Philippines is dominated by Tropical rainforest climate (Af) with a count of 3986 areas, followed by Tropical monsoon climate (Am) with a count of 3309, Tropical savanna climate (Aw) with 1663, Subtropical highland oceanic climate (Cwb) with 67, and finally Oceanic climate (Cfb) with only 33.

Koppen Climate Classifications in the Philippines

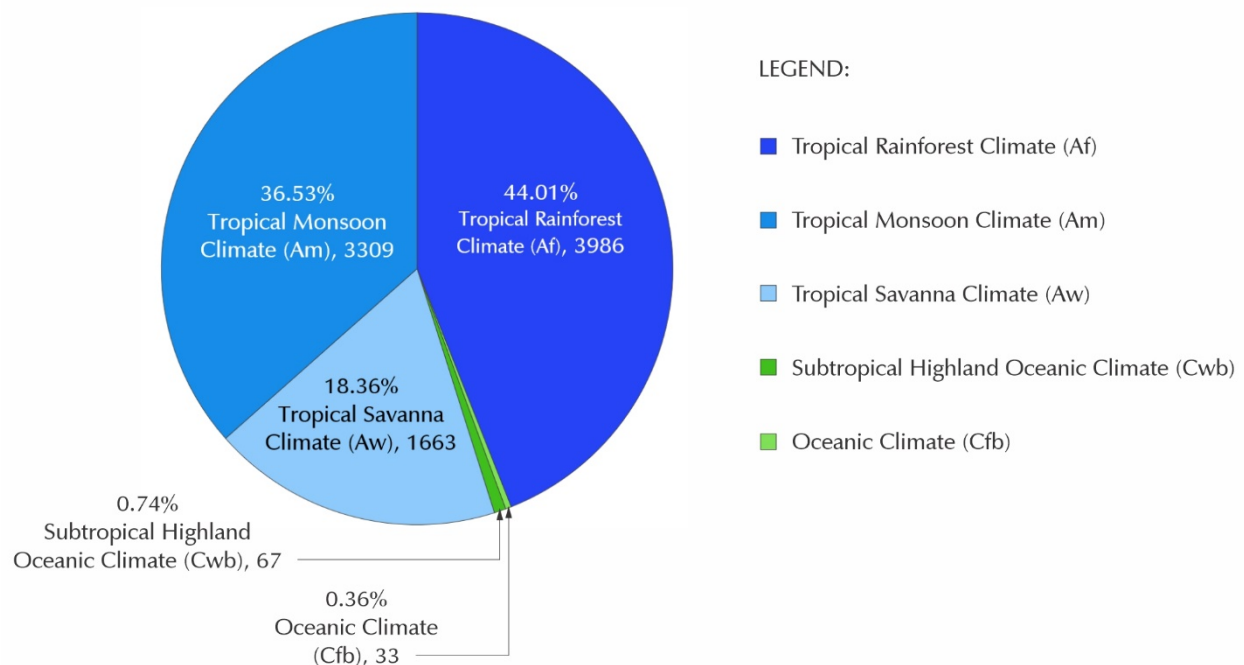


Figure 02. Climate Classifications in the Philippines based on the Köppen Climate System

Provinces in the Philippines and their climate

Categorized by region, different climates experienced by a province and examples of locations that experience respective climates are stated below (Philippines Climate, 2020).

Region I: The Ilocos Region

Ilocos Norte

Ilocos Norte has three different climates and is dominated by Aw.

- Tropical rainforest climate (Af)
 - Saguigui
 - Pancian
 - Pasaleng
 - Adams
- Tropical monsoon climate (Am)
 - **Laoag**
 - Nugudungan
 - Aryargo
 - Saud
 - Dumalneg
- Tropical savanna climate (Aw)
 - Laoag
 - Pasuquin
 - Buttong
 - San Nicolas

Ilocos Sur

Ilocos Sur has two different climates and is dominated by Aw.

- Tropical monsoon climate (Am)
 - Candon
 - Santiago
 - Suyo
 - Sugpon
- Tropical savanna climate (Aw)
 - Santa Catalina
 - Vigan

La Union

La Union has two different climates and is dominated by Aw.

- Tropical monsoon climate (Am)
 - Urbiztondo
 - Ili Norte
 - Pagdalagan Sur
 - Lingsat

Pangasinan

Pangasinan has two different climates and is dominated by Aw.

- Tropical monsoon climate (Am)
 - Pangascasan
 - Lingayen
 - Lucap
 - Pater
 - Ilog Malino
- Tropical savanna climate (Aw)
 - Tapuac
 - Dagupan
 - Pantal
 - Mariesville
 - San Fabian

Region II: Cagayan Valley Region**Cagayan**

Cagayan has three different climates and is dominated by Aw.

- Tropical rainforest climate (Af)
 - Taggat
 - Calayan
- Tropical monsoon climate (Am)
 - Baggao
 - Santa Ana
 - Santa Praxedes
 - Claveria
 - Bidduang
- Tropical savanna climate (Aw)
 - **Tuguegarao**
 - Parog-Parog
 - Centro Sur
 - Tuao
 - Cenro Norte

Isabela

Isabela has three different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - San Pablo
 - Centro II
 - Jones
 - San Agustin
 - San Guillermo
- Tropical monsoon climate (Am)
 - Cauayan
 - Cordon
 - Nungungan
 - Ilagan
 - Quezon
- Tropical savanna climate (Aw)
 - Villabuena
 - Buenavista
 - Santa Maria
 - San Isidro East

Nueva Vizcaya

Nueva Vizcaya has four different climates but is dominated by Am.

- Tropical rainforest climate (Af)
 - Pelaway
- Tropical monsoon climate (Am)
 - Bintawan South
 - Villaverde
 - Ibung
 - Nagalisan
 - Tadjji
- Tropical savanna climate (Aw)
 - Aritao
 - Dupax del Sur
 - Bambang
 - Magsaysay
- Subtropical highland oceanic climate (Cwb)
 - **Diadi**
 - Bundao
 - Dayap
 - Banao
 - Balete

Quirino

Quirino climate is considered to be Af.

- Tropical rainforest climate (Af)
 - Baguio Village
 - Campamento
 - Gregorio Pimentel
 - Aglipay
 - Rafael Palma

Region III: Central Luzon**Aurora**

Aurora is classified as Af.

- Tropical rainforest climate (Af)
 - **Baler**
 - Dingalan
 - Suclayin
 - Buhangin
 - Sabang

Bataan

Bataan's climate classification is Am.

- Tropical monsoon climate (Am)
 - Mariveles
 - Balanga
 - Limay
 - Pilar
 - Morong

Bulacan

Bulacan's climate is considered to be Am.

- Tropical monsoon climate (Am)
 - Meycauyan
 - Marilao
 - Baliuag
 - Norzagaray
 - Angat

Pampanga

Pampanga has two different climates and is dominated by Aw.

- Tropical monsoon climate (Am)
 - **Mabalacat**
 - Malabanas
 - Sapang Bato
 - Lily Hill
 - Lakandula
- Tropical savanna climate (Aw)
 - Villa del Sol
 - Villa Victoria
 - Sindalan
 - Parian

Tarlac

Tarlac has two different climates and is dominated by Aw.

- Tropical monsoon climate (Am)
 - Sta. Juliana
 - Tarukan Aeta Village
 - Alunan
 - Bilad Aeta Village
 - Bamban
- Tropical savanna climate (Aw)
 - San Miguel
 - San Rafael
 - Central
 - Capehan

Zambales

Zambales has a climate considered as Am.

- Tropical monsoon climate (Am)
 - Cabangan
 - Kalaklan
 - Baretto
 - Subic
 - Candelaria

Nueva Ecija

Nueva Ecija has three different climates and is dominated by Aw.

- Tropical rainforest climate (Af)
 - Bugnan
 - Bagong Sikat
 - Tagumpay
- Tropical monsoon climate (Am)
 - Caimito
 - Sapang Buho
 - Imelda Valley
 - San Josef
- Tropical savanna climate (Aw)
 - San Leonardo
 - Capan
 - San Antonio
 - Jaen
 - Santa Rosa

Region IV-A: CALABARZON**Cavite**

Cavite has two different climates and is dominated by Aw.

- Tropical monsoon climate (Am)
 - Tagaytay
 - Luksuhin Ibaba
 - Carasuchi
- Tropical savanna climate (Aw)
 - Munting Mapino
 - Rosario
 - Dasmariñas
 - Bacoor

Laguna

Laguna has three different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - Paete
 - Pangil
 - Pakil
- Tropical monsoon climate (Am)
 - Pagsanjan
 - Caliraya
 - Puting Lupa
 - Lalakay
 - Real
- Tropical savanna climate (Aw)
 - Pulong Santa Cruz
 - Don Jose
 - Santo Domingo
 - San Antonio

Batangas

Batangas has three different climates and is dominated by Aw.

- Tropical rainforest climate (Af)
 - Basco
 - Sumnanga
 - Nakanmuan
 - Sabtang
 - Chavayan

- Tropical monsoon climate (Am)
 - Lipa
 - Tanauan
 - San Juan
 - Malvar
 - Cuenca
- Tropical savanna climate (Aw)
 - Ibaan
 - Talisay
 - Wawa
 - Natipuan
 - Calayo

Rizal

Rizal two different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - Sampaloc
 - Laiban
 - Cayabu
 - Santo Niño
 - Mamuyao
- Tropical monsoon climate (Am)
 - **Tanay**
 - Cuyambay
 - San Roque
 - Dalig
 - Antipolo

Quezon

Quezon has three different climates and the most prevalent ones are Af and Am.

- Tropical rainforest climate (Af)
 - Infanta
 - Mauban
 - Lucban
- Tropical monsoon climate (Am)
 - Lucena
 - Gulang-Gulang
 - Sariaya
 - Candelaria
- Tropical savanna climate (Aw)
 - San Francisco

Region IV-B: MIMAROPA**Occidental Mindoro**

Occidental Mindoro has three different climates and is dominated by Am.

- Tropical monsoon climate (Am)
 - Sablayan
 - San Jose
 - Tagumpay
 - Ibud
 - Yapang
- Tropical savanna climate (Aw)
 - Mamburao
 - Paluan
 - Balao
 - Lubang
 - Looc
- Oceanic climate (Cfb)
 - **Malisbong**

Oriental Mindoro

Oriental Mindoro has two different climates and is dominated by Am.

- Tropical monsoon climate (Am)
 - Pachoca
 - Cawayan
 - Bongabong
 - Labasa
 - Manihala
- Tropical savanna climate (Aw)
 - Talipanan
 - Aninuan
 - San Isidro
 - Poblacion
 - Puerto Galera

Marinduque

Marinduque has a climate classification of Am.

- Tropical monsoon climate (Am)
 - Boac
 - Torrijos
 - Santa Cruz
 - Buenavista
 - Gasan

Romblon

Romblon has two different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - San Fernando
- Tropical monsoon climate (Am)
 - Looc
 - Bagacay
 - Romblon
 - Lanas
 - Santa Fe

Palawan

Romblon has two different climates and is dominated by Aw

- Tropical savanna climate (Aw)
 - **Puerto Princesa**

Region V: Bicol Region**Camarines Norte**

Climate in Camarines Norte is considered to be Af.

- Tropical rainforest climate (Af)
 - Santa Elena
 - San Lorenzo
 - Del Pilar
 - San Antonio
 - Calabaca

Camarines Sur

Climate in Camarines Sur is considered to be Af.

- Tropical rainforest climate (Af)
 - Nabua
 - Paniman
 - Naga
 - Balatas
 - Villa Grande Homes

Catanduanes

Climate in Catanduanes is considered to be Af.

- Tropical rainforest climate (Af)
 - Agojo
 - San Andres
 - Bislig
 - Caramoran
 - Magnesia del Norte

Masbate

Masbate has two different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - Progreso
 - Ipil
 - San Fernando
 - Sinibaran
 - Guiwanin
- Tropical monsoon climate (Am)
 - **Masbate City**
 - Gangao
 - Lagta
 - Pinanaan
 - Baleno

Sorsogon

Sorsogon's climate is classified as Af.

- Tropical rainforest climate (Af)
 - Dancalan
 - Inlagadean
 - Sorsogon City
 - Santa Magdalena
 - Danlog

Albay

Albay's climate is classified as Af.

- Tropical rainforest climate (Af)
 - Kimantong
 - Daraga
 - Ligao
 - Tabaco
 - Legazpi

Region VI: Western Visayas**Aklan**

Aklan has two different climates and is dominated by Af.

- Tropical rainforest climate (Af)
 - Barangay Union
 - Mobo o Kalibo
 - Barangay New Buswang
 - Magdalena Village
- Tropical monsoon climate (Am)
 - Poblacion
 - Motag
 - Barangay Manocmanoc
 - Manoc-Manoc
 - Tulubhan

Antique

Antique has three different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - Dayong
 - Guia
 - Union
 - Paz
 - Bolanao
- Tropical monsoon climate (Am)
 - San Jose
 - Poblacion
 - Villar
 - Bugasong
 - Sido
- Tropical savanna climate (Aw)
 - Barangay Sagua
 - Barangay Talisayan
 - Barangay Nato
 - Barangay Poblacion
 - Diclum

Guimaras

Climate in Guimaras is considered to be Am.

- Tropical monsoon climate (Am)
 - Poblacion
 - Magamay
 - Igang
 - Nueva Valencia
 - Concordia Sur

Capiz

Capiz has two different climates and is dominated by Af.

- Tropical rainforest climate (Af)
 - Tapaz
 - Switch
 - San Jose
 - San Julian
 - Agcococ
- Tropical monsoon climate (Am)
 - Roxas City
 - Dalagsaan
 - Taroytoy
 - Sitio Daan Banwa

Iloilo

Iloilo has two different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - Balasan
 - Estancia
 - Punta
 - Maasin
 - Bacuranan
- Tropical monsoon climate (Am)
 - Oton
 - East Timawa
 - San Rafael
 - Nabitasan

Region VII: Central Visayas Region**Bohol**

Bohol has two different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - Daorong
 - Panglao
 - Mansasa
- Tropical monsoon climate
 - Anda
 - Valencia Bohol
 - Alegria

Cebu

Cebu has three different climates and the most prevalent ones are Am and Af.

- Tropical rainforest climate (Af)
 - Basdiot
 - Saavedra
 - Daanlungsod
- Tropical monsoon climate (Am)
 - **Cebu City**
 - Liloan
 - Talamban
- Tropical savanna climate (Aw)
 - Carmelo
 - Catongkolan
 - Tuburan

Siquijor

Siquijor has two different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - Campalanas
 - San Antonio
 - Cang-agong
- Tropical monsoon climate (Am)
 - Larena
 - San Juan
 - Maite
 - Tubod

Negros Island Region**Negros Occidental**

Negros Occidental has two different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - Villamonte
 - Bacolod
 - Mandalagan
 - Bata
 - Silay
- Tropical monsoon climate (Am)
 - Hinoba-an
 - Sipalay
 - Kabankalan
 - Tangub
 - Taculing

Negros Oriental

Negros Oriental has three different climates and the most prevalent ones are Am and Af.

- Tropical rainforest climate (Af)
 - San Jose
 - Bais City
 - Manjuyod
 - Bindoy
 - Ayungon
- Tropical monsoon climate (Am)
 - Dumaguete
 - Tambobo
 - Zamboanguita
 - Malatapay
 - Dauin
- Tropical savanna climate (Aw)
 - Canaway
 - Siaton

Region VIII: Eastern Visayas Region**Biliran**

Biliran's climate is considered to be Af.

- Tropical rainforest climate (Af)
 - Atipolo
 - Caibiran
 - Kawayan
 - Cabucgayan
 - Almeria

Leyte

Climate in Leyte is considered to be Af.

- Tropical rainforest climate (Af)
 - Tacloban
 - Ormoc
 - Baybay
 - Palompon
 - Abucay

Northern Samar

Northern Samar has a climate classification of Af.

- Tropical rainforest climate (Af)
 - **Catarman**
 - Laoang
 - Las Navas
 - Mondragon
 - Palapag

Samar

Samar climate classification is Af.

- Tropical rainforest climate (Af)
 - Calbayog
 - Catbalogan
 - Basey
 - Daram
 - Santa Rita

Southern Leyte

The climate in Southern Leyte is classified as Af.

- Tropical rainforest climate (Af)
 - Maasin
 - Ichon
 - Pueblo Viejo
 - Sogod
 - Hinunangan

Eastern Samar

Eastern Samar has a climate classification of Af.

- Tropical rainforest climate (Af)
 - Borongan
 - Guiuan
 - Dolores
 - Oras
 - Salcedo

Region IX: The Zamboanga Peninsula**Zamboanga del Norte**

Zamboanga del Norte has two different climates and is dominated by Af.

- Tropical rainforest climate (Af)
 - Dipolog
 - Dapitan
 - Tampilisan
- Tropical monsoon climate (Am)
 - Sibuco
 - Siraway
 - Labason

Zamboanga del Sur

Zamboanga del Sur has a climate classification of Af.

- Tropical rainforest climate (Af)
 - Margosatubig
 - Bayog
 - Lakewood

Zamboanga Sibugay

The climate in Zamboanga Sibugay is classified as Af.

- Tropical rainforest climate (Af)
 - Ipil
 - Tungawan
 - Talusan

Region X: Northern Mindanao**Bukidnon**

Bukidnon has a climate classification of Af.

- Tropical rainforest climate (Af)
 - Valencia
 - VN Polinar Village
 - Barangay Lunucan

Camiguin

Camiguin has two different climates and is dominated by Af.

- Tropical rainforest climate (Af)
 - Itum
 - Esperanza
 - Hubangon
- Tropical monsoon climate (Am)
 - Catarman
 - Naasag
 - Yumbing

Lanao del Norte

Lanao del Norte has a climate classification of Af.

- Tropical rainforest climate (Af)
 - Kapatagan
 - Sultan Naga Dimaporo
 - Baroy

Misamis Occidental

Climate in Misamis Occidental is classified by Af.

- Tropical rainforest climate (Af)
 - Oroquieta
 - Bonifacio
 - Don Victoriano Chiongbian

Misamis Oriental

Misamis Oriental has two different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - Gingoog City
 - Claveria
- Tropical monsoon climate (Am)
 - Barangay Balulang
 - Barangay Carmen

Region XI: Davao Region**Compostela Valley**

Climate in Compostella Valley is classified as Af.

- Tropical rainforest climate (Af)
 - Assessors Village
 - Pagaran Village
 - Anjelica Homes I
 - Angelica Homes II
 - Villa Maximina

Davao del Norte

Climate in Davao del Norte is classified as Af.

- Tropical rainforest climate (Af)
 - Catagman
 - Peñaplata
 - Camella – Tagum
 - Kinawitnon
 - Orange Valley Subdivision

Davao del Sur

Climate ins Davao del Sur is classified as Af.

- Tropical rainforest climate (Af)
 - **Davao City**
 - Kiblawan
 - Dapok
 - Lanturi
 - Manlangit
 - Sulop

Davao Oriental

Climate in Davao Oriental is classified as Af.

- Tropical rainforest climate (Af)
 - Lavigan
 - Pundaguitan
 - Surup
 - Magdug

Region XII: South Central Mindanao**South Cotabato**

South Cotabato has three different climates and the most prevalent ones are Af and Aw.

- Tropical rainforest climate (Af)
 - Lake Sebu
 - Koronadal
 - Sueno Village
 - Tampakan
- Tropical monsoon climate (Am)
 - Batomelong
 - Lower Labay
- Tropical savanna climate (Aw)
 - General Santos
 - Purok Strella
 - Dadiangas South

Cotabato

Climate in Cotabato is classified as Af.

- Tropical rainforest climate (Af)
 - Tulunan
 - Sibsib
 - Bagontapay

Sultan Kudarat

Sultan Kudarat's climate is classified as Af.

- Tropical rainforest climate (Af)
 - Tacurong
 - Lambayong
 - Lupokon

Sarangani

Sarangani has two different climates and is dominated by Af.

- Tropical rainforest climate (Af)
 - Kalaong
 - Turakao
 - Lanao
 - Linek
- Tropical monsoon climate (Am)
 - Alabe

Region XIII: The Caraga Region**Agusan del Norte**

Climate in Agusan del Norte is classified as Af.

- Tropical rainforest climate (Af)
 - Bayanihan
 - Butuan
 - Jabonga
 - Las Nieves

Agusan del Sur

Climate in Agusan del Sur is classified as Af.

- Tropical rainforest climate (Af)
 - La Paz
 - San Luis
 - Esperanza
 - Bayugan

Surigao del Norte

Surigao del Norte has a climate classification of Af.

- Tropical rainforest climate (Af)
 - **Surigao City**
 - Mabua
 - Rizal

Surigao del

Sur Surigao del Sur has a climate classification of Af.

- Tropical rainforest climate (Af)
 - Maharlika Zone 2
 - Britania
 - Lanuza
 - Lingig

Dinagat Islands

Climate in this province is classified as Af.

- Tropical rainforest climate (Af)
 - Libjo
 - Tubajon
 - Carmen
 - San Juan

NCR: National Capital Region

NCR does not have any provinces. Rather, it is composed of 16 cities. Its climate is classified as Aw.

- Tropical savanna climate (Aw)
 - **Manila**
 - Caloocan
 - Valenzuela
 - Navotas
 - Malabon
 - Quezon
 - San Juan
 - Makati
 - Mandaluyong
 - Pasig
 - Makati
 - Pateros
 - Taguig
 - Pasay
 - Parañaque
 - Las Piñas
 - Muntinlupa

CAR: Cordillera Administrative Region**Abra**

Abra has two different climates and is dominated by Am.

- Tropical monsoon climate (Am)
 - Licuan-Baay
 - Malibcong
 - Lacub
 - Tineg
 - Tubo
- Tropical savanna climate (Aw)
 - San Quintin
 - Langiden
 - Pidigan
 - Peñarrubia
 - Bangued

- Tropical savanna climate
 - Nagalisan
 - Camp 1
 - Twin Peaks
 - Camp 2
- Oceanic climate (Cfb)
 - Kabayan
 - Buguias
 - Abatan
 - Sayangan
- Subtropical highland oceanic climate (Cwb)
 - Green Valley
 - Suello Village
 - Lourdes Extension
 - Lourdes Proper
 - Scout Barrio

Apayao

Apayao has three different climates and is dominated by Am.

- Tropical rainforest climate (Af)
 - Calanasan
- Tropical monsoon climate (Am)
 - Kabugao
 - Flora
 - Pudtol
 - Consuelo
 - Luna
- Tropical savanna climate (Aw)
 - Conner

Ifugao

Ifugao has three different climates and is dominated by Am.

- Tropical monsoon climate (Am)
 - Tam-AN
 - Batad
 - Poblacion West
 - Kiangnan
 - Bgy Hoba
- Oceanic climate (Cfb)
 - San Fernando
 - Bocos o Lubo-ong
 - Viewpoint
 - Pula
- Subtropical highland oceanic climate (Cwb)
 - **Tinoc**

Benguet

Benguet has many different climates but the most prevalent ones are Am and Cwb.

- Tropical monsoon climate (Am)
 - Asin Road
 - Camp 7
 - Petersville Subdivision
 - Bakakeng

Kalinga

Kalinga has two different climates and is dominated by Am.

- Tropical monsoon climate (Am)
 - Balbalan
 - Dacalan
 - Ca-ang
 - Lubo
 - Tanudan
- Tropical savanna climate (Aw)
 - Pinukpuk
 - Rizal

Mountain Province

Mountain Province has two different climates and is dominated by Am.

- Tropical monsoon climate (Am)
 - Pide
 - Bunot
 - Bacarri
 - Buringal
 - Cagubatan
- Oceanic climate (Cfb)
 - **Dagdag**
 - **Sagada**
 - Patay
 - Makingking
 - Bangaan

ARMM: Autonomous Region in Muslim Mindanao**Basilan**

Basilan has a climate classification of Af.

- Tropical rainforest climate (Af)
 - Isabela City
 - Lamitan
 - Tipo-Tipo
 - Tuburan
 - Sumisip

Lanao del Sur

Lanao del Sur has a climate classification of Af.

- Tropical rainforest climate (Af)
 - Balabagan
 - Sultan Gumander
 - Imelda
 - Malabang
 - Marogong

Maguindanao

Maguindanao has a climate classification of Af.

- Tropical rainforest climate (Af)
 - Cotabato City
 - Shariff Aguak
 - Mamasapano
 - Ampatuan
 - Datu Abdullah Sangki

Sulu

Climate in Sulu is classified as Af.

- Tropical rainforest climate (Af)
 - Joloo
 - Siasi
 - Lugus
 - Tapul
 - Pata

Tawi Tawi

Climate in Tawi Tawi is classified as Af.

- Tropical rainforest climate (Af)
 - Panglima Sugala
 - Languyan
 - Sapa-Sapa
 - South Ubian
 - Sitangak

A summary of the different provinces in the Philippines and their respective Köppen Climate classifications, along with their place count is presented in the table below.

Table 01. Köppen Climate Classifications in the Philippines

Tropical rainforest climate (Af)	Tropical monsoon climate (Am)	Tropical savanna climate (Aw)	Subtropical highland oceanic climate (Cwb)	Oceanic climate (Cfb)
Agusan del Norte (18) Agusan del Sur (16) Aklan (67) Albay (74) Antique (38) Apayao (1) Aurora (27) Basilan (10) Batangas (13) Biliran (42) Bohol (55) Bukidnon (76) Cagayan (2) Camarines Norte (90) Camarines Sur (138) Camiguin (39) Capiz (109) Catanduanes (15) Cebu (179) Compostela Valley (64) Cotabato (96) Davao del Norte (208) Davao del Sur (112) Davao Oriental (73) Dinagat Islands (16) Eastern Samar (121) Ilocos Norte (4) Iloilo (104) Isabela (7) Laguna (44) Lanao del Norte (22) Lanao del Sur (37) Leyte (439) Maguindanao (78) Masbate (87) Misamis Occidental (30) Misamis Oriental (18) Negros Occidental (26) Negros Oriental (17) Nueva Ecija (10) Northern Samar (83) Nueva Vizcaya (1) Quezon (70) Quirino (34) Rizal (9) Romblon (1) Samar (310) Sarangani (27) Siquijor (11) Sorsogon (136) South Cotabato (29) Southern Leyte (56) Sultan Kudarat (85) Sulu (17) Surigao del Norte (197) Surigao del Sur (75) Tawi Tawi (8) Zamboanga del Norte (23) Zamboanga del Sur (27) Zamboanga Sibugay (17)	Abra (17) Aklan (16) Antique (180) Apayao (6) Bataan (38) Batangas (79) Benguet (65) Bohol (63) Bulacan (274) Cagayan (28) Camiguin (12) Capiz (4) Cavite (115) Cebu (263) Guimaras (28) Ifugao (41) Ilocos Norte (29) Ilocos Sur (18) Iloilo (316) Isabela (84) Kalinga (22) La Union (33) Laguna (213) Marinduque (6) Masbate (133) Misamis Oriental (64) Mountain Province (45) Negros Occidental (74) Negros Oriental (18) Nueva Ecija (53) Nueva Vizcaya (43) Occidental Mindoro (39) Oriental Mindoro (76) Pampanga (96) Pangasinan (62) Quezon (70) Rizal (122) Romblon (55) Sarangani (1) Siquijor (16) South Cotabato (2) Tarlac (9) Zambales (48) Zamboanga del Norte (5)	Abra (10) Antique (10) Apayao (1) Batangas (180) Benguet (7) Cagayan (100) Cavite (151) Cebu (3) Ilocos Norte (53) Ilocos Sur (38) Isabela (4) Kalinga (2) La Union (64) Laguna (46) Negros Oriental (2) Nueva Ecija (17) Nueva Vizcaya (6) Occidental Mindoro (7) Oriental Mindoro (8) Pampanga (100) Pangasinan (284) Quezon (1) South Cotabato (18) Tarlac (60)	Benguet (61) Ifugao (1) Nueva Vizcaya (5)	Benguet (4) Ifugao (5) Mountain Province (23) Occidental Mindoro (1)

References

- Arnfield, A. J. (2020, January 30). *Köppen climate classification*. Retrieved September 23, 2020, from Encyclopedia Britannica: <https://www.britannica.com/science/Köppen-climate-classification>
- Murigi, E. (2018, February 5). *What are the Characteristics of an Oceanic Type of Climate?* Retrieved September 23, 2020, from World Atlas: <https://www.worldatlas.com/articles/what-are-the-characteristics-of-an-oceanic-type-of-climate.html>
- National Geographic Society. (2019, October 24). *Köppen Climate Classification System*. Retrieved September 23, 2020, from National Geographic: <https://www.nationalgeographic.org/encyclopedia/Köppen-climate-classification-system/>
- Philippines Climate*. (2020). Retrieved from Climate Data Org.: <https://en.climate-data.org/asia/philippines-1/>
- Pidwirny, M. (2006). *Climate Classification and Climatic Regions of the World*. Retrieved from Physical Geography: <http://www.physicalgeography.net/fundamentals/7v.html>