



CLIMATE OUTLOOK

OCTOBER 2022 – MARCH 2023

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Prepared by:

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152nd climate Forum



LIVE VIA ZOOM, YT, & FB
SEPTEMBER 28, 2022
9:00 AM TO 12:00 NN



01 ▶ La Niña Update

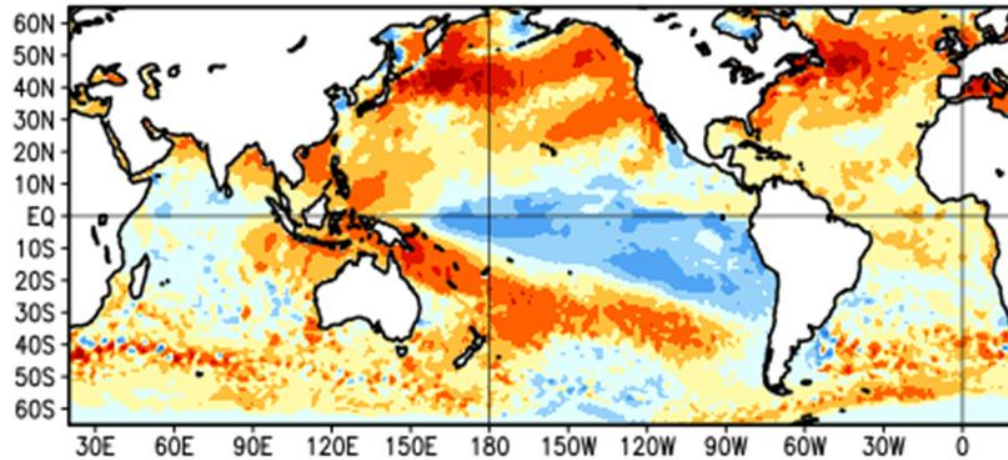
02 ▶ Climate Outlook
(OCTOBER 2022 – MARCH 2023)

03 ▶ Summary

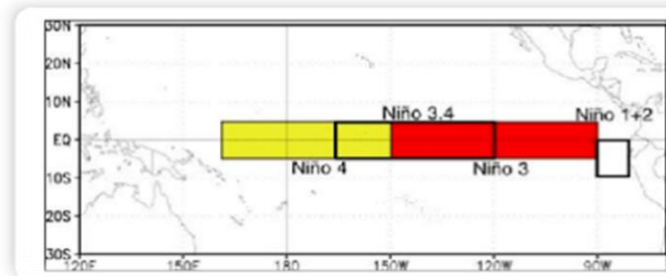
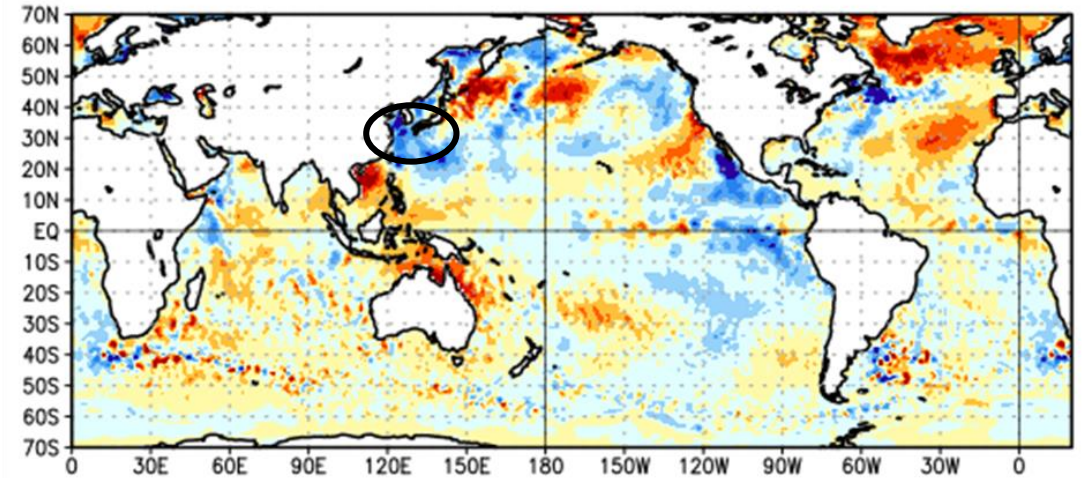
Conditions in the Global Tropics – Ocean

Sea Surface Temperature Anomalies (SSTAs)

Average SST Anomalies
28 AUG 2022 – 24 SEP 2022



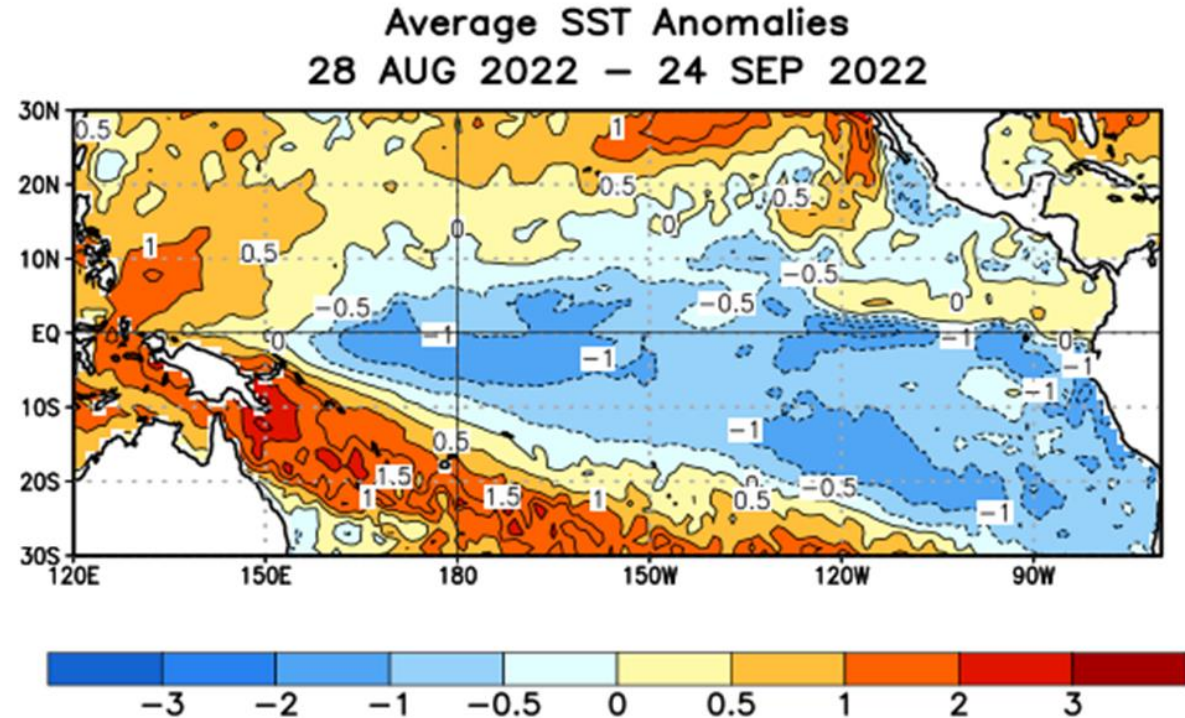
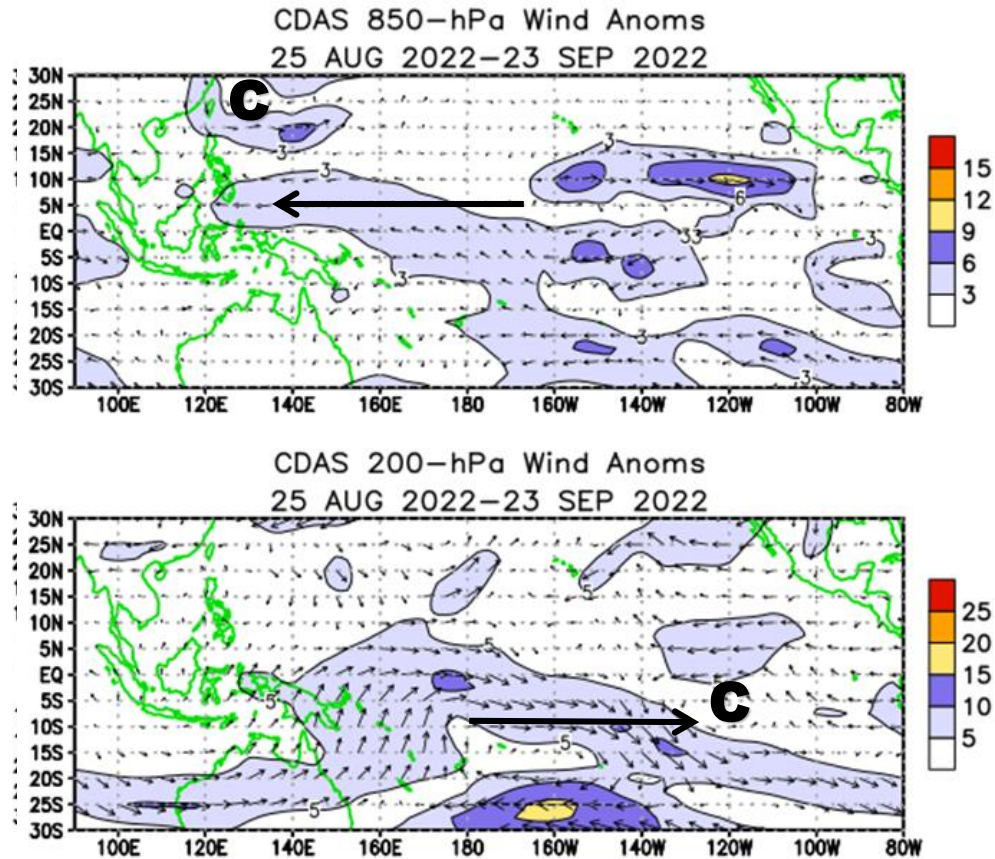
Change in Weekly SST Anoms (°C)
21SEP2022 minus 24AUG2022



https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/lanina/enso_evolution-status-fcsts-web.pdf

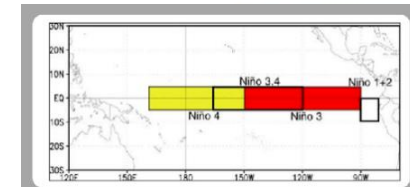
Conditions in the Tropical Pacific - Atmosphere

Tradewinds and upper level winds



In the last four weeks, equatorial SSTs were below average across most of the Pacific Ocean.

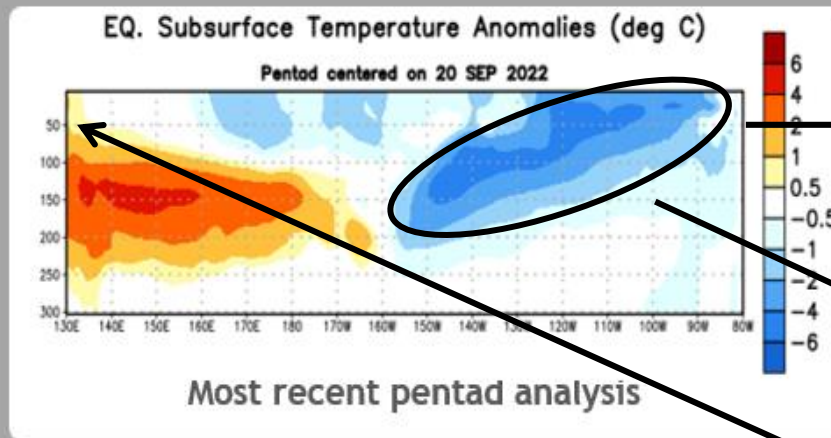
https://www.cpc.ncep.noaa.gov/products/analysis_monitoring/lanina/enso_evolution-status-fcsts-web.pdf



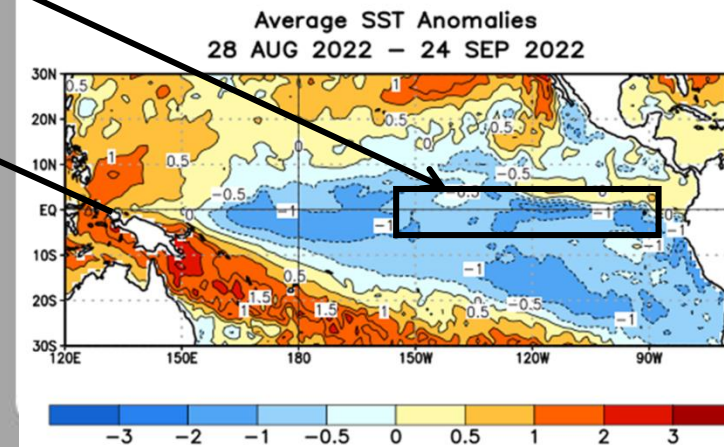
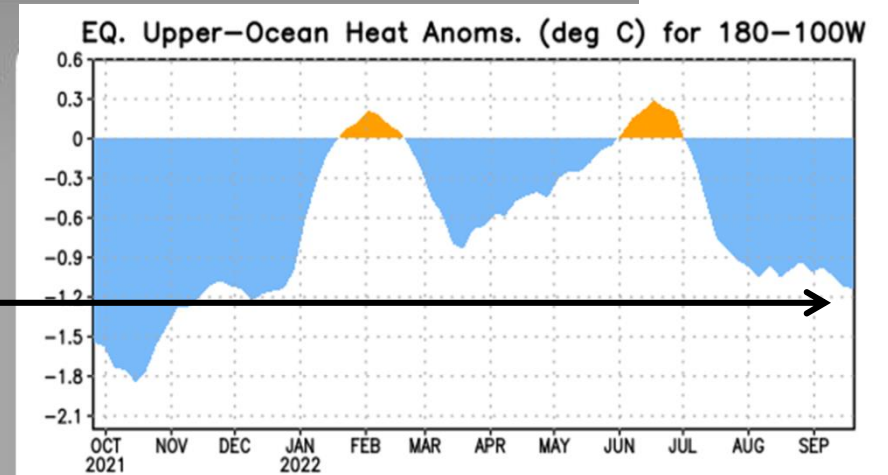
Conditions in the Tropical Pacific Ocean - Subsurface

Sub-Surface Temperature Departures in the Equatorial Pacific

During the last two months, negative subsurface temperature anomalies persisted near the surface and at depth in the eastern and east-central Pacific.



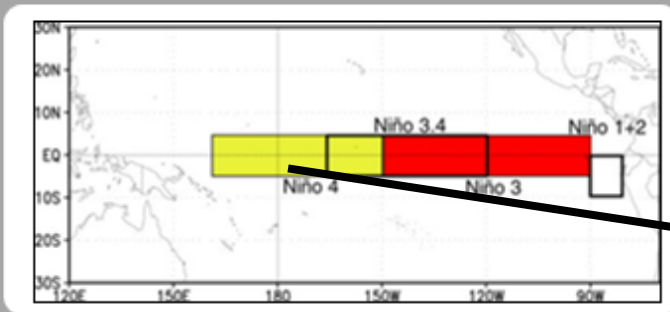
Positive subsurface temperature anomalies have persisted, at depth, in the western and central Pacific Ocean.



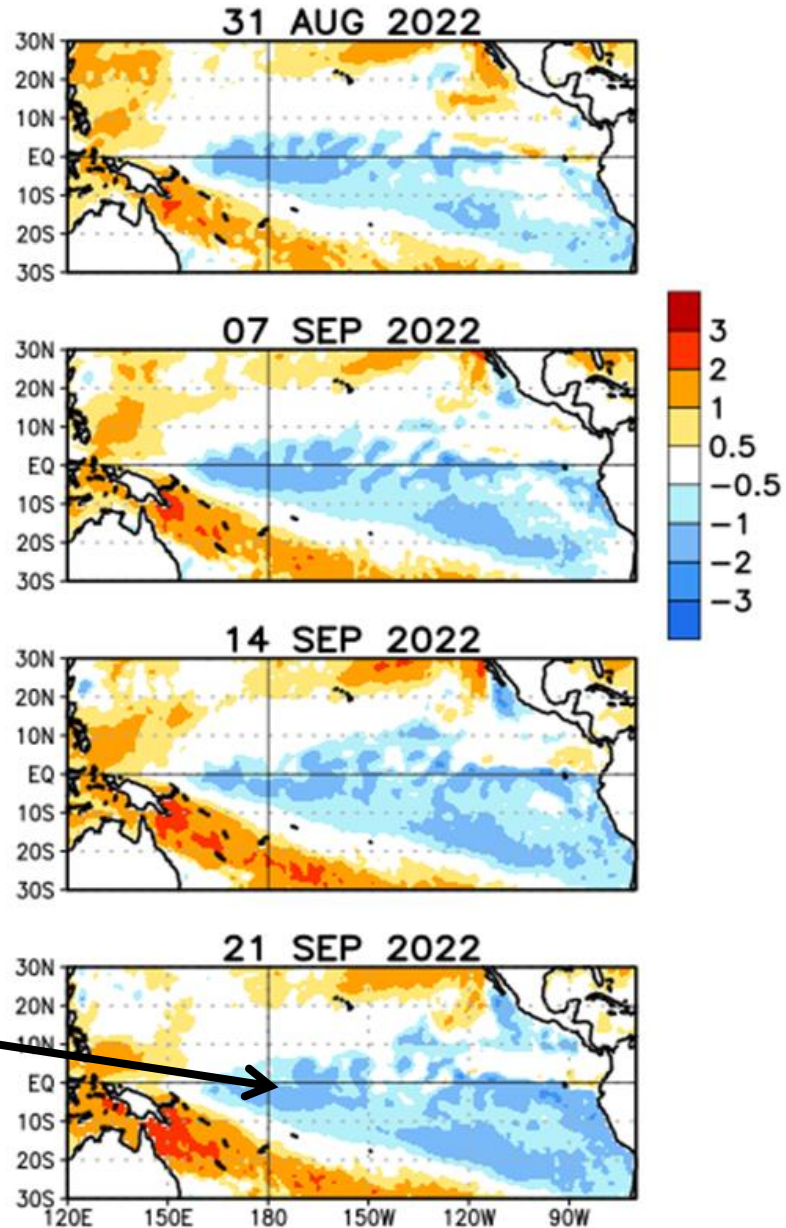
Niño Region SST Departures (°C) Recent Evolution

The latest weekly SST departures are:

Niño 4	-1.0°C
Niño 3.4	-0.9°C
Niño 3	-0.8°C
Niño 1+2	-1.0°C



Weekly SST Anomalies (DEG C)

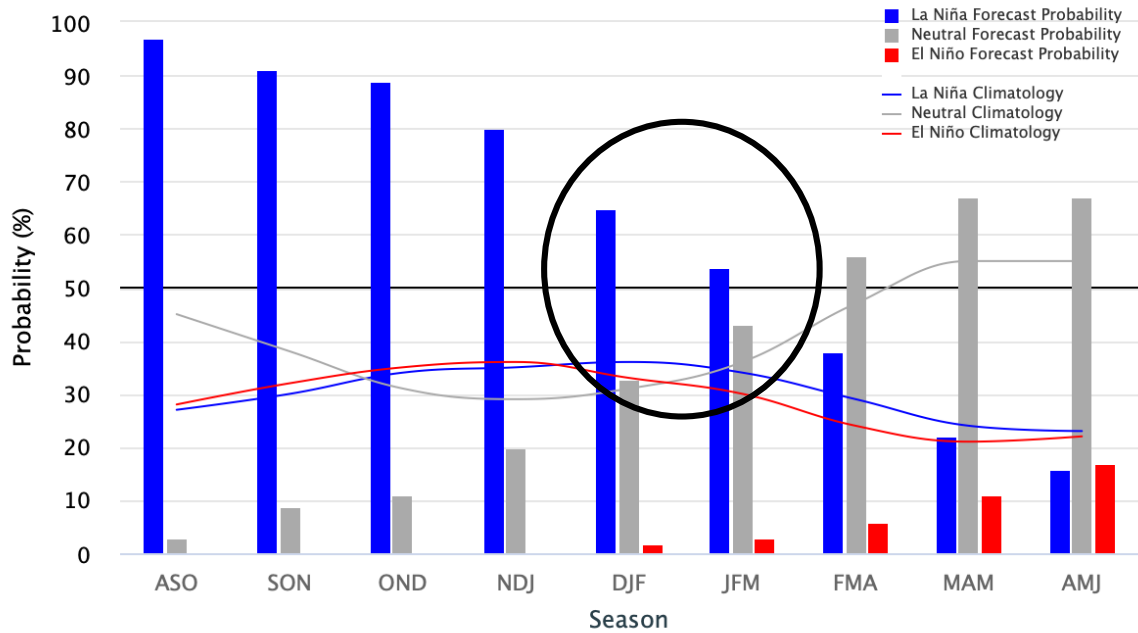


During the last 4 weeks, negative SST anomalies have strengthened in the eastern equatorial Pacific Ocean.

What are the chances?

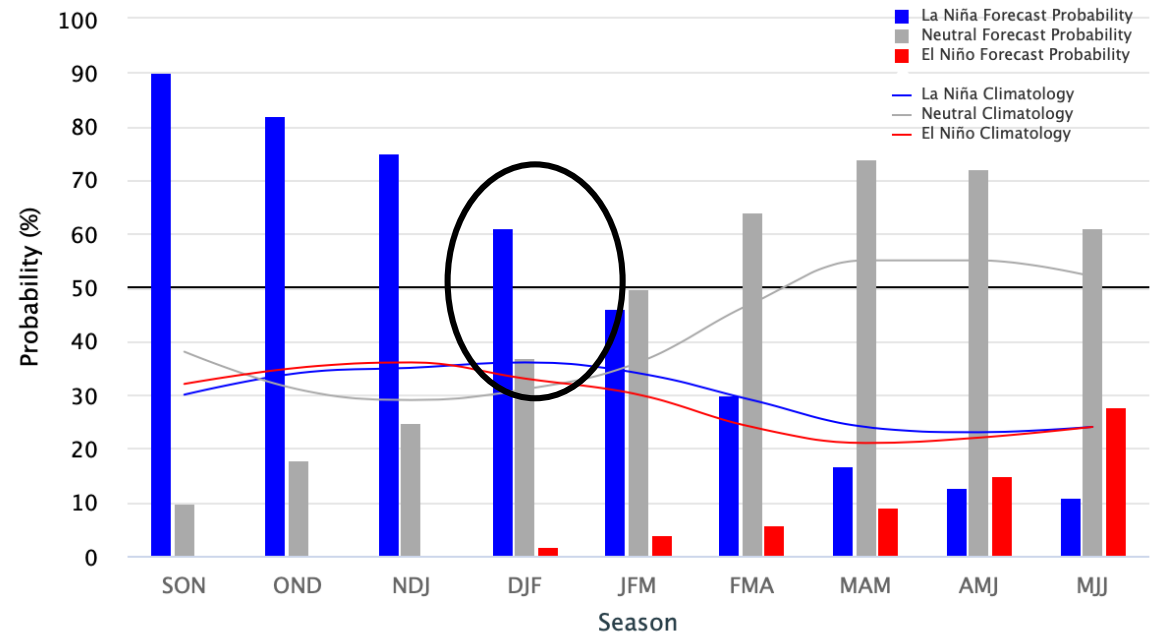
Early-September 2022 CPC Official Probabilistic ENSO Forecasts

ENSO state based on NINO3.4 SST Anomaly
Neutral ENSO: -0.5 °C to 0.5 °C



Mid-September 2022 IRI Model-Based Probabilistic ENSO Forecasts

ENSO state based on NINO3.4 SST Anomaly
Neutral ENSO: -0.5 °C to 0.5 °C

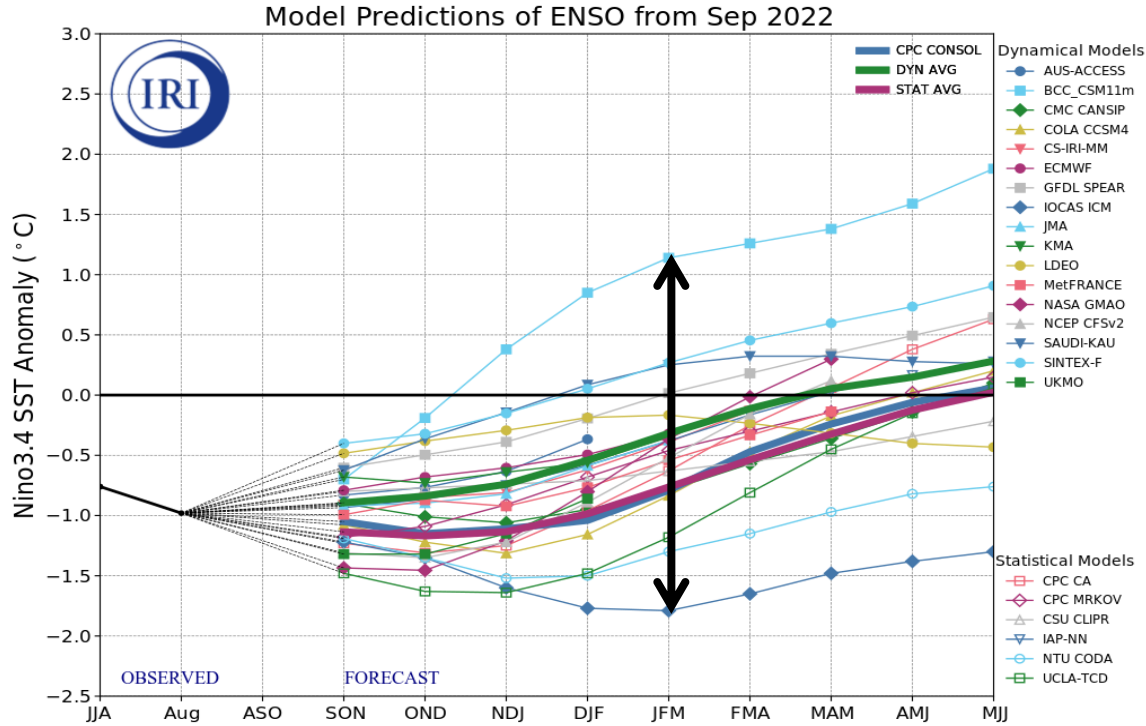


Model output + Expert judgment
ENSO probability forecast

Model output (*Purely objective*)
ENSO probability forecast

TAKEAWAY: LA NINA is expected to wane after Dec-Jan-Feb 2022/23

until when?

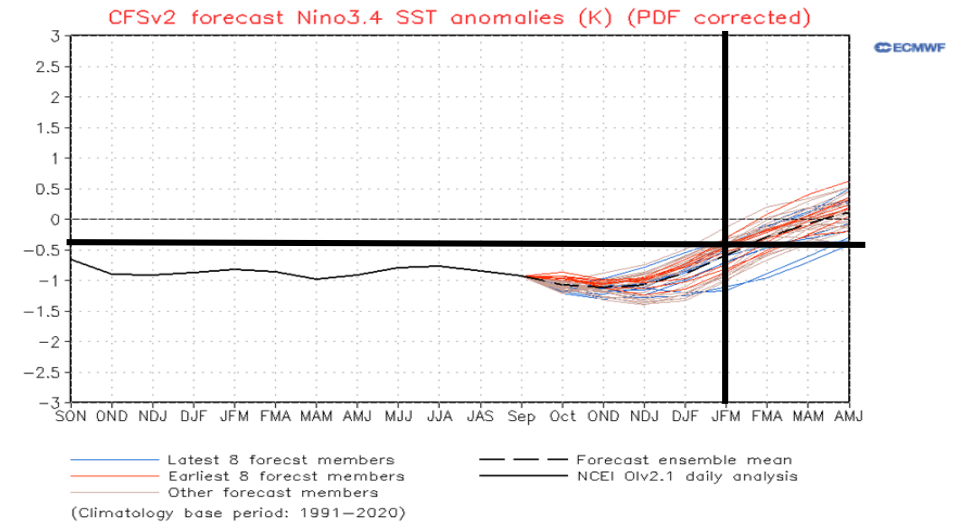
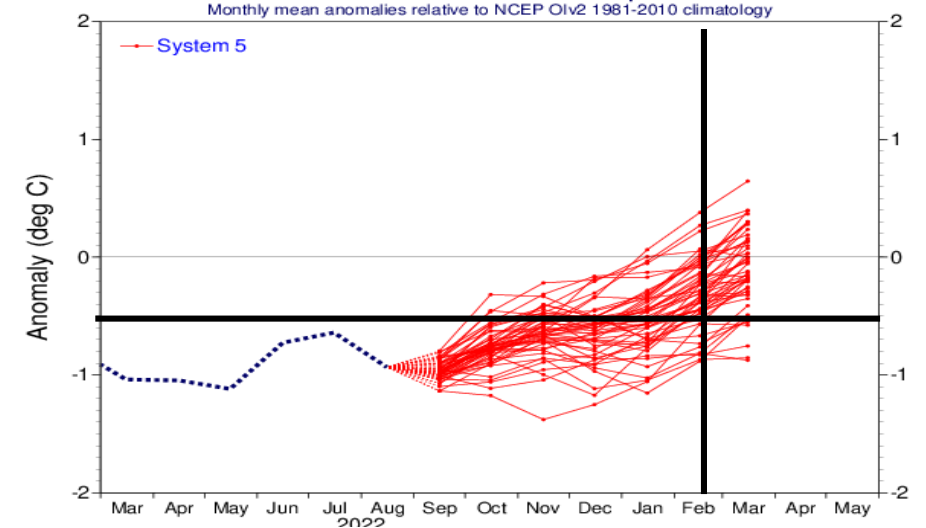


- 16 out of 24 models or 67% suggest La Nina to continue until DJF 2022-23 then ENSO neutral afterwards.

SEASONS	SON	OND	NDJ	DJF	JFM	FMA	MAM	AMJ	MJJ
Average, Dynamical models	-0.89	-0.84	-0.74	-0.54	-0.32	-0.11	0.05	0.15	0.28
Average, Statistical models	-1.14	-1.17	-1.14	-0.99	-0.76	-0.54	-0.32	-0.13	0.02
Average, All models	-0.96	-0.93	-0.84	-0.66	-0.45	-0.25	-0.08	0.03	0.17

Global Model Forecast Guidance

NINO3.4 SST anomaly plume
ECMWF forecast from 1 Sep 2022



The CFS.v2 ensemble mean (black dashed line) indicates La Niña persisting into the Northern Hemisphere winter 2022-23, and then transitioning to ENSO-neutral by February-April 2023.

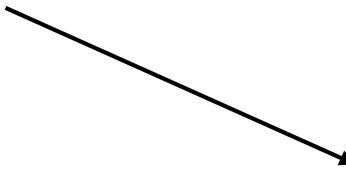
Historical El Niño and La Niña Episodes

Year	DJF	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ
1970	0.5	0.3	0.3	0.2	0.0	-0.3	-0.6	-0.8	-0.8	-0.7	-0.9	-1.1
1971	-1.4	-1.4	-1.1	-0.8	-0.7	-0.7	-0.8	-0.8	-0.8	-0.9	-1.0	-0.9
1972	-0.7	-0.4	0.1	0.4	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.1
1973	1.8	1.2	0.5	-0.1	-0.5	-0.9	-1.1	-1.3	-1.5	-1.7	-1.9	-2.0
1974	-1.8	-1.6	-1.2	-1.0	-0.9	-0.8	-0.5	-0.4	-0.4	-0.6	-0.8	-0.6
1975	-0.5	-0.6	-0.7	-0.7	-0.8	-1.0	-1.1	-1.2	-1.4	-1.4	-1.6	-1.7
1976	-1.6	-1.2	-0.7	-0.5	-0.3	0.0	0.2	0.4	0.6	0.8	0.9	0.8
1977	0.7	0.6	0.3	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.8	0.8
1978	0.7	0.4	0.1	-0.2	-0.3	-0.3	-0.4	-0.4	-0.4	-0.3	-0.1	0.0
1979	0.0	0.1	0.2	0.3	0.2	0.0	0.0	0.2	0.3	0.5	0.5	0.6

Year	DJF	JFM	FMA	MAM	AMJ	MJJ	JJA	JAS	ASO	SON	OND	NDJ
1990	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.4
1991	0.4	0.3	0.2	0.3	0.5	0.6	0.7	0.6	0.6	0.8	1.2	1.5
1992	1.7	1.6	1.5	1.3	1.1	0.7	0.4	0.1	-0.1	-0.2	-0.3	-0.1
1993	0.1	0.3	0.5	0.7	0.7	0.6	0.3	0.3	0.2	0.1	0.0	0.1
1994	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.6	0.7	1.0	1.1
1995	1.0	0.7	0.5	0.3	0.1	0.0	-0.2	-0.5	-0.8	-1.0	-1.0	-1.0
1996	-0.9	-0.8	-0.6	-0.4	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.5
1997	-0.5	-0.4	-0.1	0.3	0.8	1.2	1.6	1.9	2.1	2.3	2.4	2.4
1998	2.2	1.9	1.4	1.0	0.5	-0.1	-0.8	-1.1	-1.3	-1.4	-1.5	-1.6
1999	-1.5	-1.3	-1.1	-1.0	-1.0	-1.0	-1.1	-1.1	-1.2	-1.3	-1.5	-1.7
2000	-1.7	-1.4	-1.1	-0.8	-0.7	-0.6	-0.6	-0.5	-0.5	-0.6	-0.7	-0.7
2001	-0.7	-0.5	-0.4	-0.3	-0.3	-0.1	-0.1	-0.1	-0.2	-0.3	-0.3	-0.3
2002	-0.1	0.0	0.1	0.2	0.4	0.7	0.8	0.9	1.0	1.2	1.3	1.1
2003	0.9	0.6	0.4	0.0	-0.3	-0.2	0.1	0.2	0.3	0.3	0.4	0.4
2004	0.4	0.3	0.2	0.2	0.2	0.3	0.5	0.6	0.7	0.7	0.7	0.7
2005	0.6	0.6	0.4	0.4	0.3	0.1	-0.1	-0.1	-0.1	-0.3	-0.6	-0.8
2006	-0.9	-0.8	-0.6	-0.4	-0.1	0.0	0.1	0.3	0.5	0.8	0.9	0.9
2007	0.7	0.2	-0.1	-0.3	-0.4	-0.5	-0.6	-0.8	-1.1	-1.3	-1.5	-1.6
2008	-1.6	-1.5	-1.3	-1.0	-0.8	-0.6	-0.4	-0.2	-0.2	-0.4	-0.6	-0.7
2009	-0.8	-0.8	-0.6	-0.3	0.0	0.3	0.5	0.6	0.7	1.0	1.4	1.6
2010	1.5	1.2	0.8	0.4	-0.2	-0.7	-1.0	-1.3	-1.6	-1.6	-1.6	-1.6
2011	-1.4	-1.2	-0.9	-0.7	-0.6	-0.4	-0.5	-0.6	-0.8	-1.0	-1.1	-1.0
2012	-0.9	-0.7	-0.6	-0.5	-0.3	0.0	0.2	0.4	0.4	0.3	0.1	-0.2
2013	-0.4	-0.4	-0.3	-0.3	-0.4	-0.4	-0.4	-0.3	-0.3	-0.2	-0.2	-0.3
2014	-0.4	-0.5	-0.3	0.0	0.2	0.2	0.0	0.1	0.2	0.5	0.6	0.7
2015	0.5	0.5	0.5	0.7	0.9	1.2	1.5	1.9	2.2	2.4	2.6	2.6
2016	2.5	2.1	1.6	0.9	0.4	-0.1	-0.4	-0.5	-0.6	-0.7	-0.7	-0.6
2017	-0.3	-0.2	0.1	0.2	0.3	0.3	0.1	-0.1	-0.4	-0.7	-0.8	-1.0
2018	-0.9	-0.9	-0.7	-0.5	-0.2	0.0	0.1	0.2	0.5	0.8	0.9	0.8
2019	0.7	0.7	0.7	0.7	0.5	0.5	0.3	0.1	0.2	0.3	0.5	0.5
2020	0.5	0.5	0.4	0.2	-0.1	-0.3	-0.4	-0.6	-0.9	-1.2	-1.3	-1.2
2021	-1.0	-0.9	-0.8	-0.7	-0.5	-0.4	-0.4	-0.5	-0.7	-0.8	-1.0	-1.0
2022	-1.0	-0.9	-1.0	-1.1	-1.0	-0.9	-0.8					

- Last La Nina episode
 - 2020-2021 (Weak to Moderate)
- La Nina 3 years in a row
 - 1973-1976, 1998-2001

2020-2021
2021- ongoing



ENSO Alert System Status:

La Niña Advisory No. 12



La Nina is expected to persist until Dec-Jan-Feb (DJF) 2022-23 and then transition to ENSO-neutral condition afterwards. *(updated 28 September)*

La Nina increases the likelihood of having above normal rainfall conditions that could lead to potential adverse impacts **(such as heavy rainfall, floods, flashfloods and landslides)** over highly vulnerable areas.

Weather systems that may affect the country

October 2022 – March 2023

Watch



THUNDERSTORMS



INTER-TROPICAL CONVERGENCE ZONE (ITCZ)



LOW PRESSURE AREAS (LPAs)



RIDGE OF HIGH PRESSURE AREAS (HPAs)



EASTERLIES



TAIL-END OF THE FRONTAL SYSTEM (SHEAR LINE)



TROPICAL CYCLONES



SOUTHWEST MONSOON



NORTHEAST MONSOON

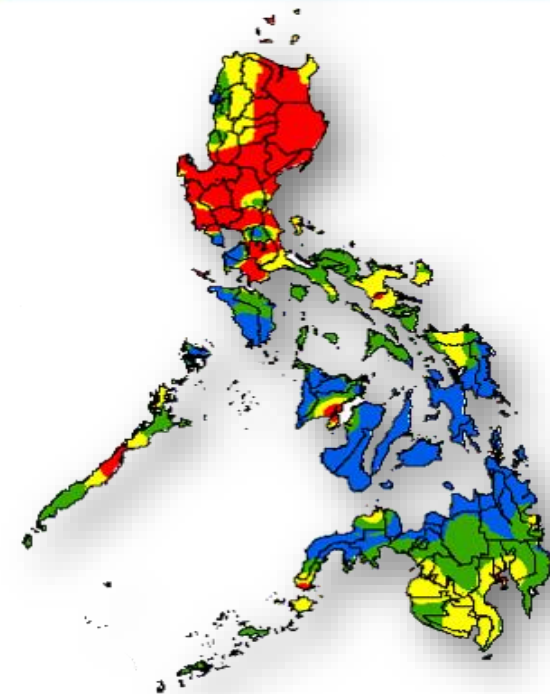
**Transition to NE (Oct)*

ABOUT OUR RAINFALL MAPS



For more details
and updates

PERCENTAGE (%)	RAINFALL CONDITION
Less than or = 40	way below normal
41 - 80	below normal
81 - 120	near normal
Greater than 120	above normal



$$\text{Percent of Normal} = \frac{\text{Forecast Rainfall}}{\text{Normal Rainfall}} \times 100\%$$

Rainfall Surplus or Reduction



to



**WAY BELOW
NORMAL**

Greater
than 60%
reduction
from the
normal*



to



**BELOW
NORMAL**

20%-60%
reduction
from the
normal

**NEAR
NORMAL**

+20% or -20%
from the
normal

**ABOVE
NORMAL**

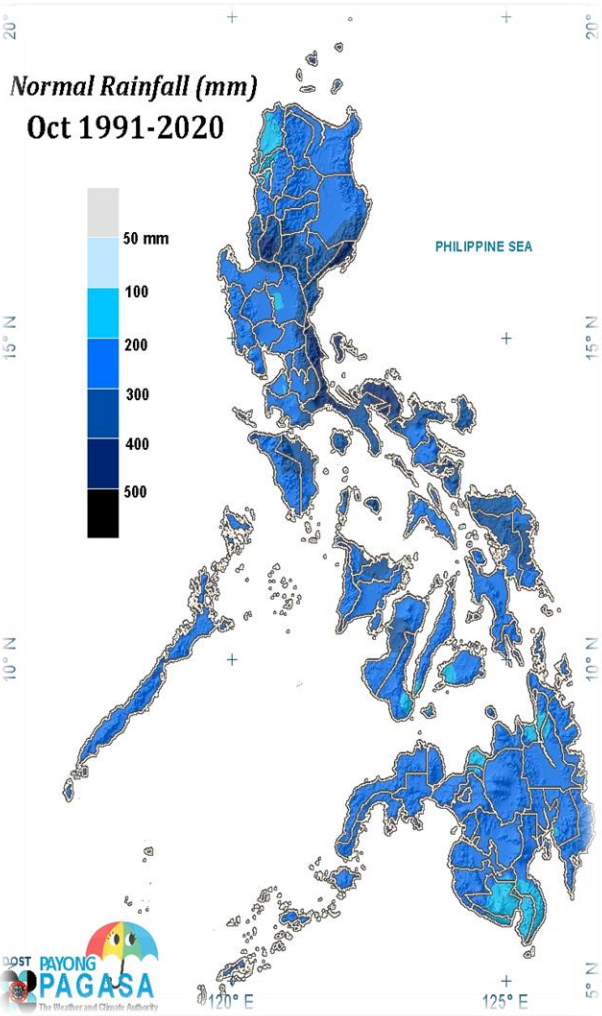
120%
greater
than the
normal

*Normal - Refers to 30-year average rainfall

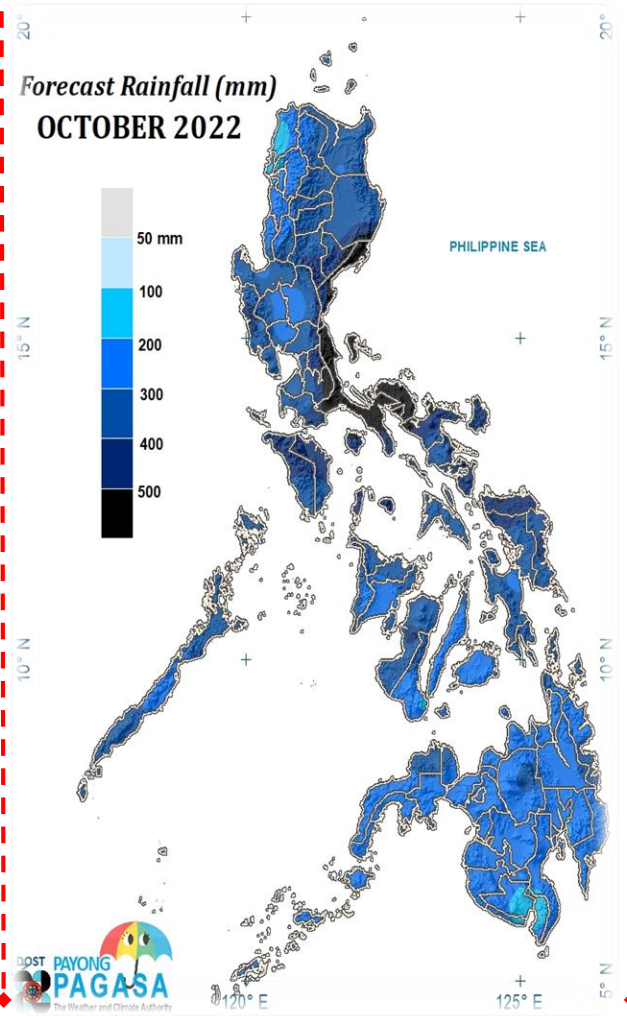
MONTHLY RAINFALL FORECAST

OCTOBER 2022

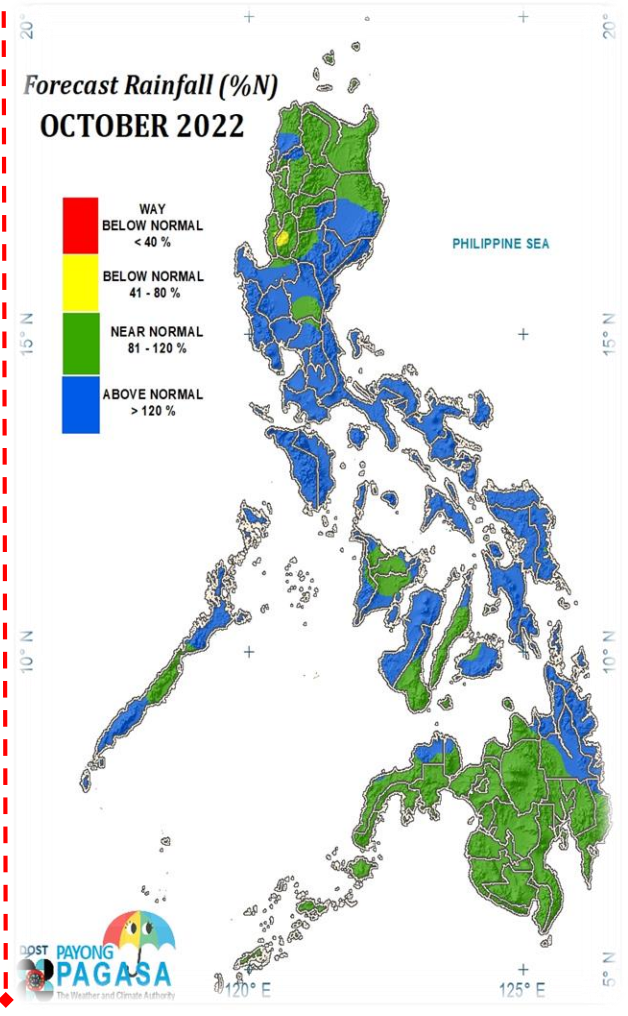
Normal Rainfall



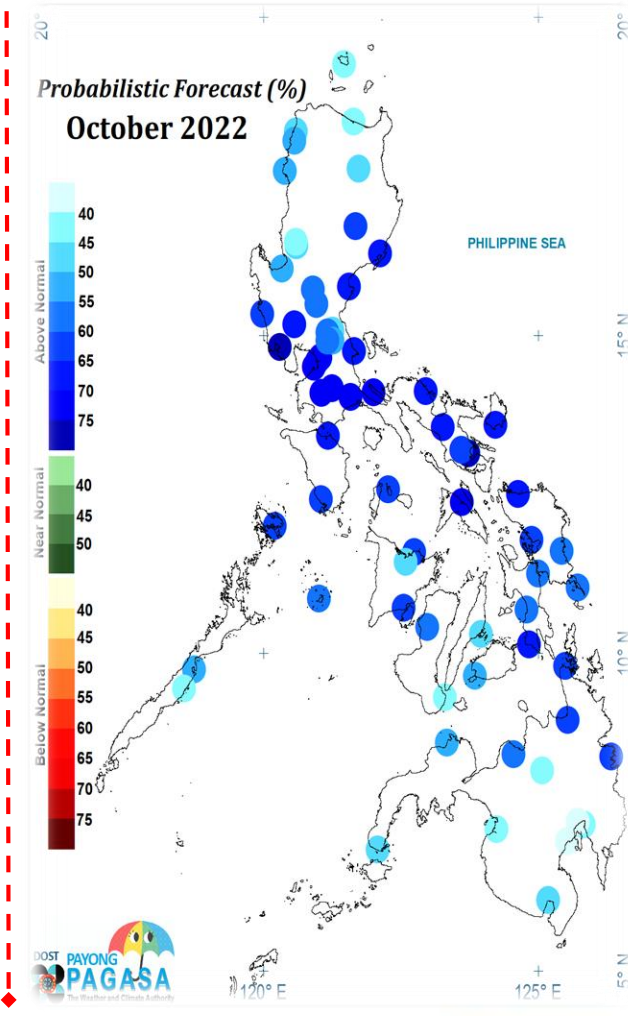
Forecast Rainfall



Percent of Normal



Probabilistic Forecast

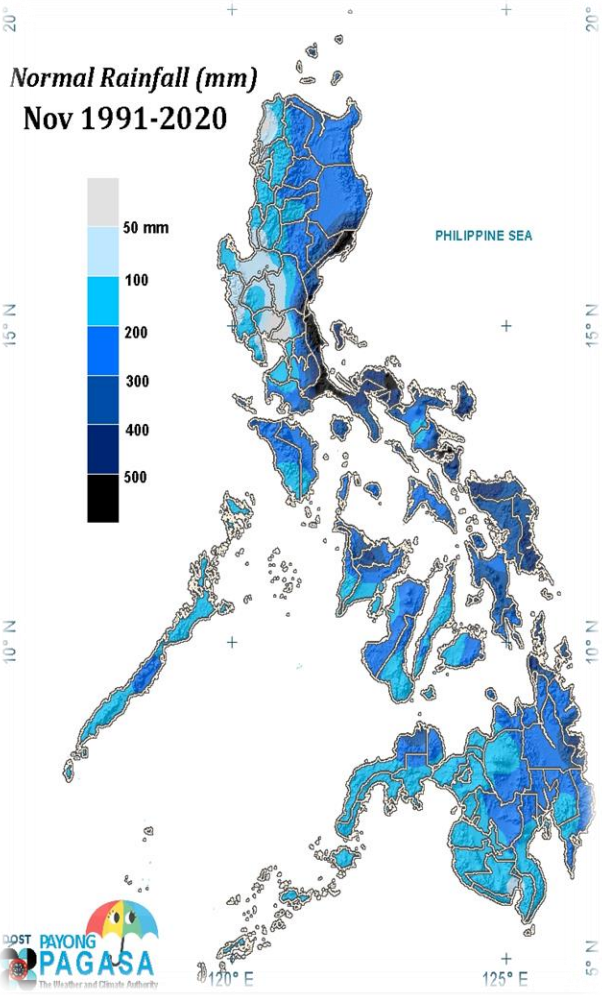


way below normal	below normal	near normal	above normal
0	0	35	48

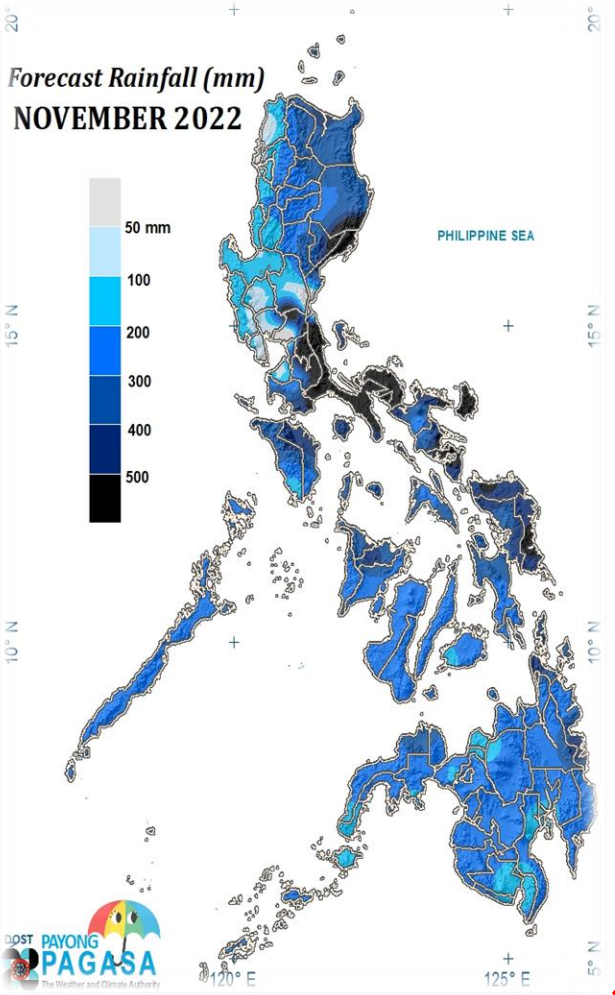
MONTHLY RAINFALL FORECAST

NOVEMBER 2022

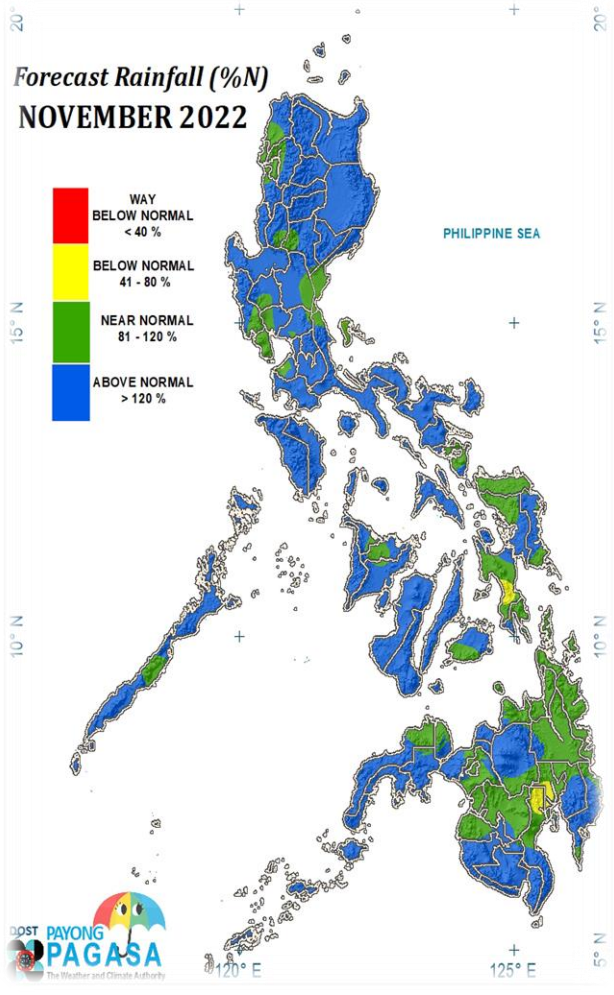
Normal Rainfall



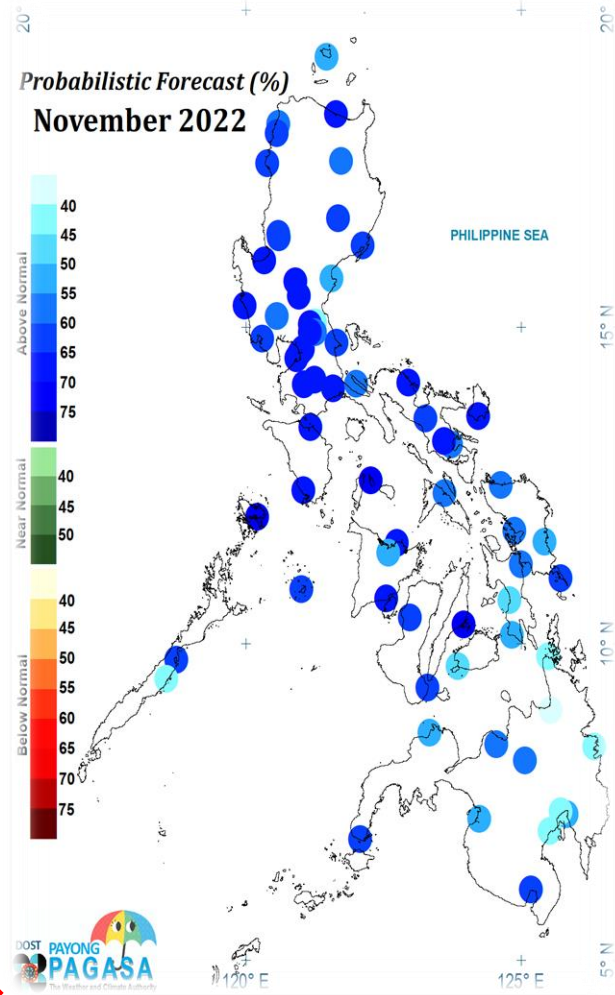
Forecast Rainfall



Percent of Normal



Probabilistic Forecast

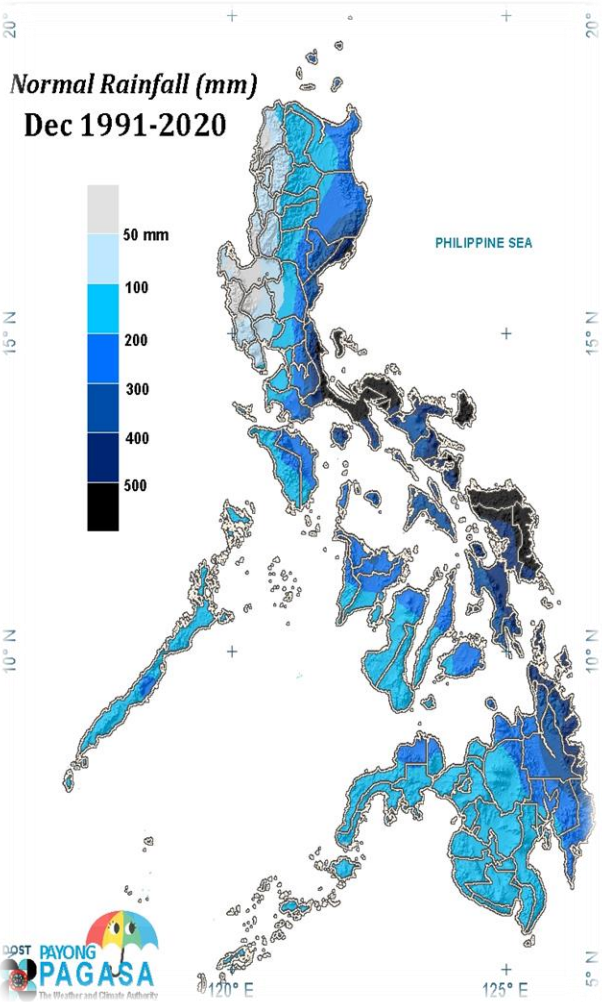


way below normal	below normal	near normal	above normal
0	0	22	61

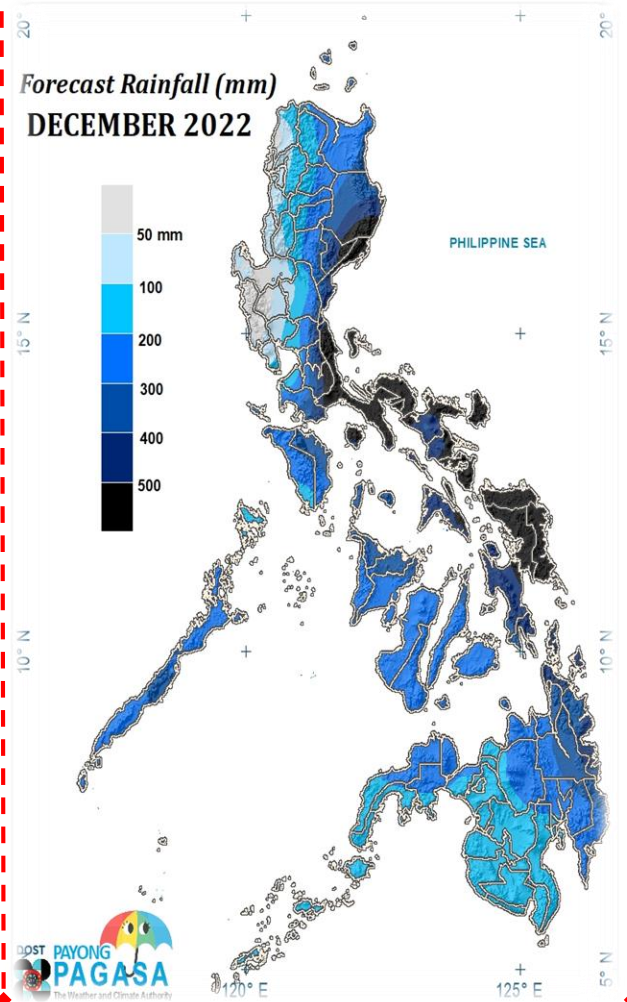
MONTHLY RAINFALL FORECAST

DECEMBER 2022

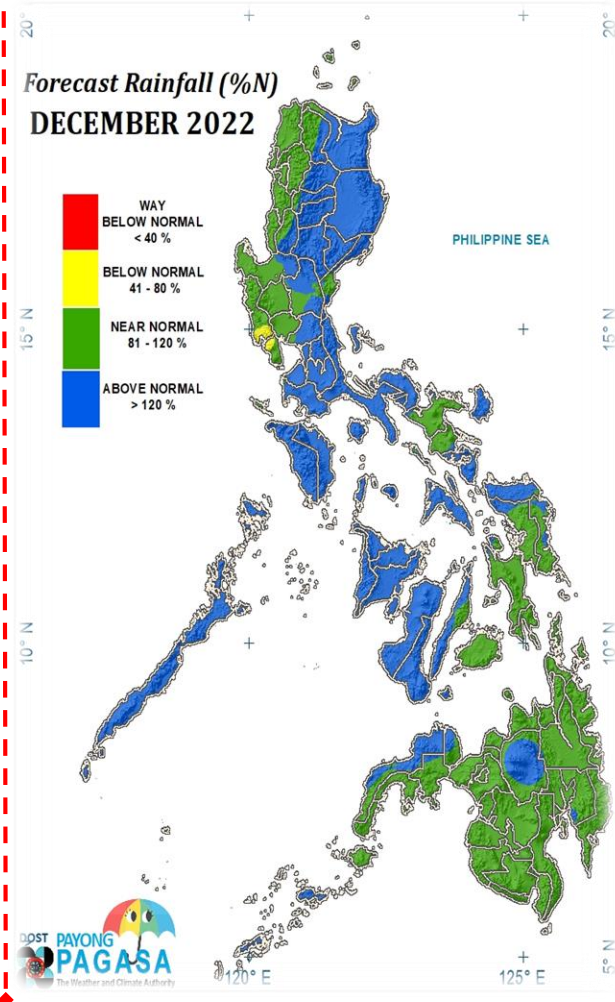
Normal Rainfall



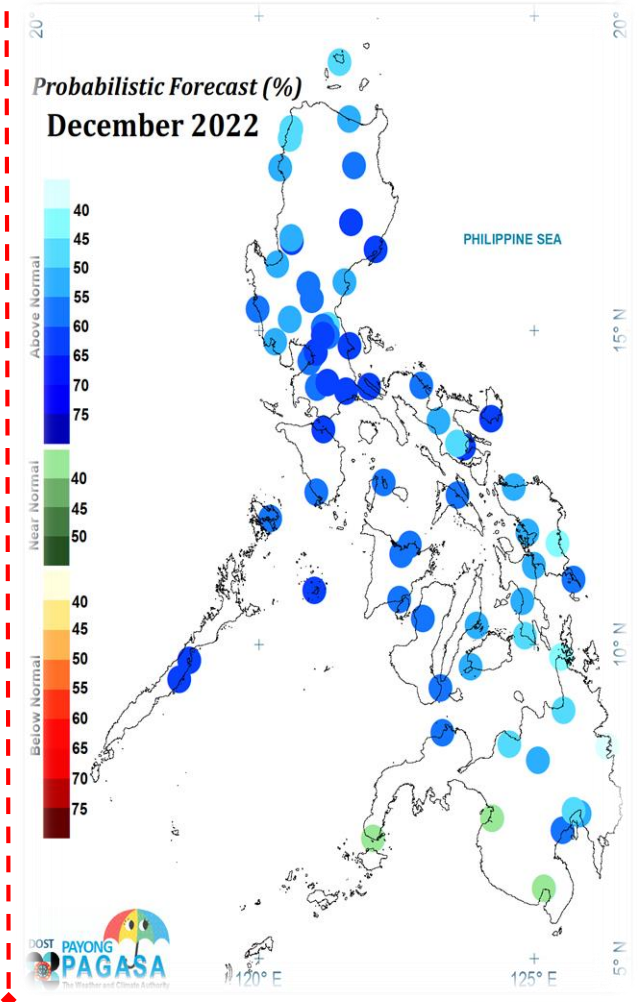
Forecast Rainfall



Percent of Normal



Probabilistic Forecast



way below normal	below normal	near normal	above normal
0	0	43	40

MONTHLY RAINFALL FORECAST

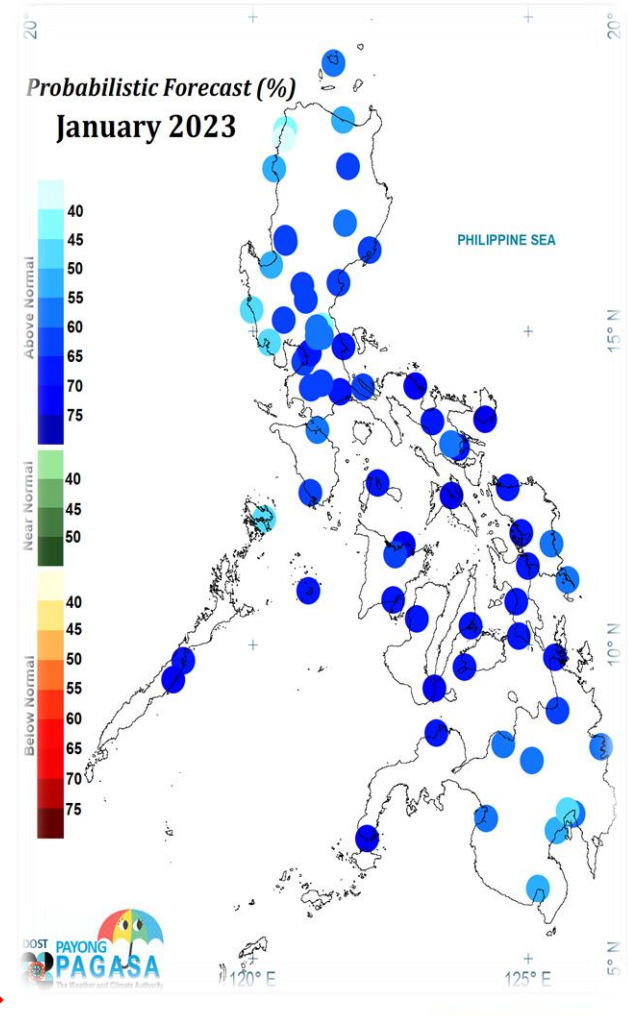
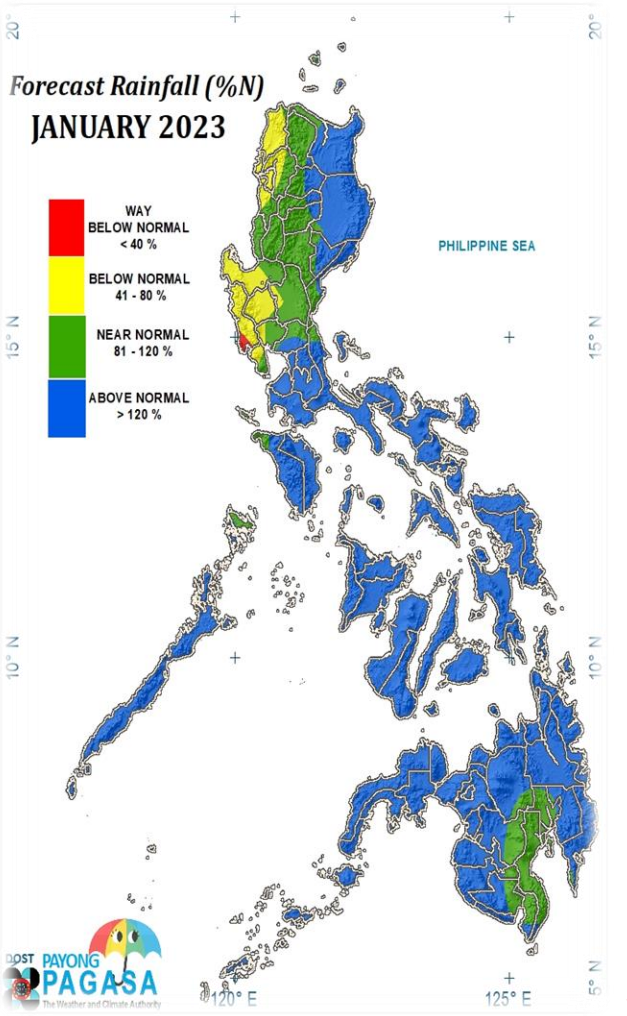
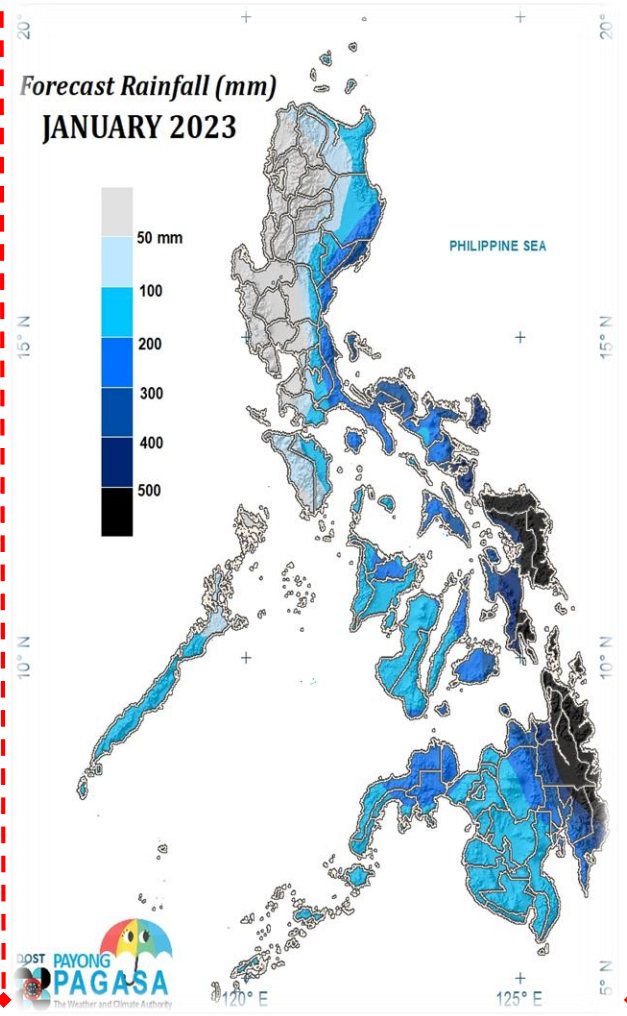
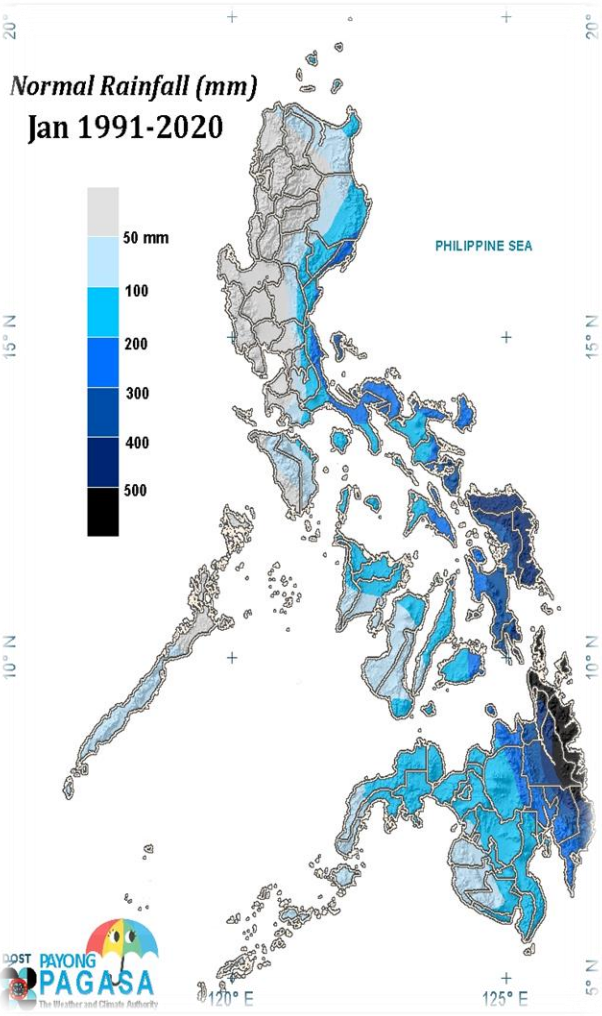
JANUARY 2023

Normal Rainfall

Forecast Rainfall

Percent of Normal

Probabilistic Forecast



way below normal	below normal	near normal	above normal
0	7	13	63

MONTHLY RAINFALL FORECAST

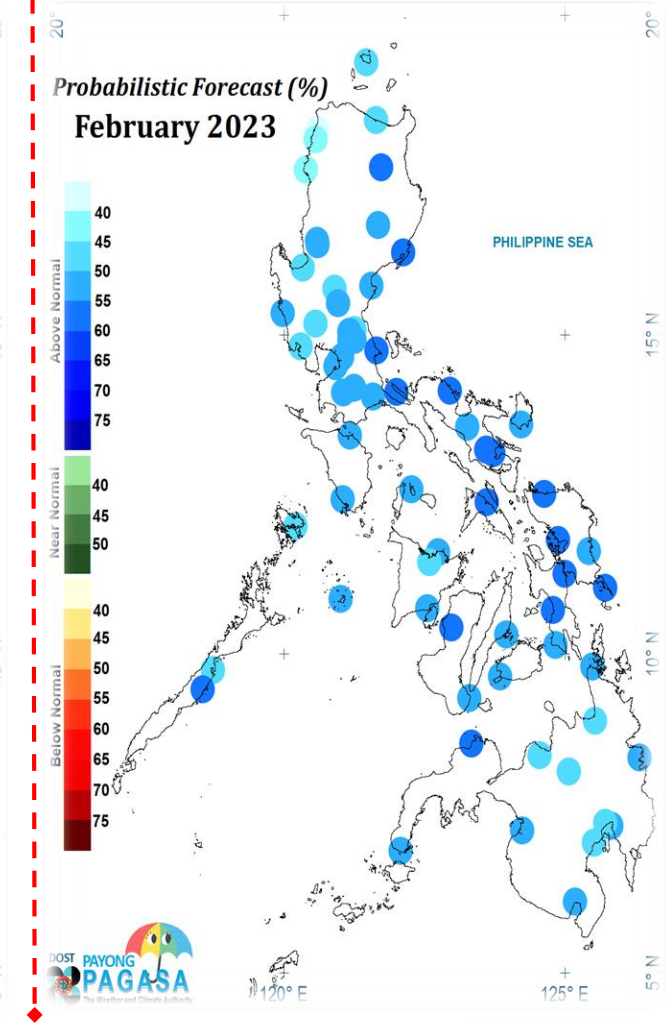
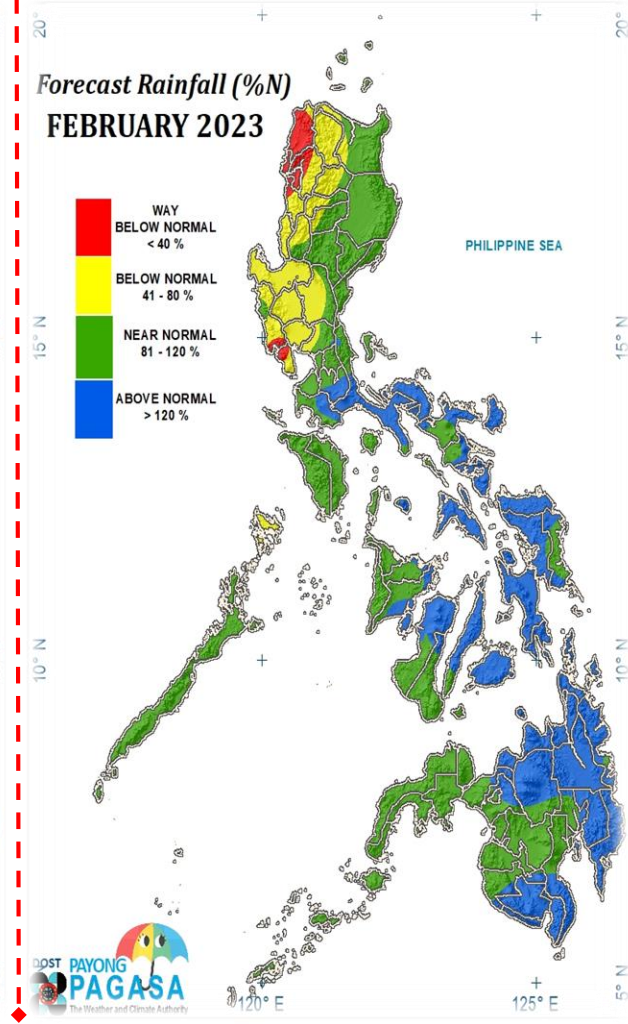
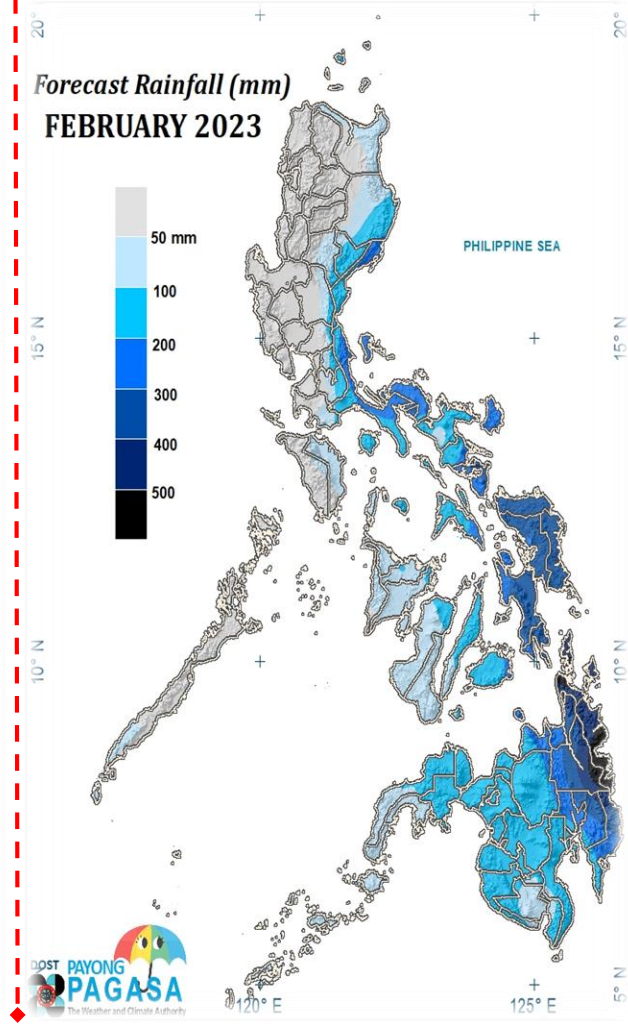
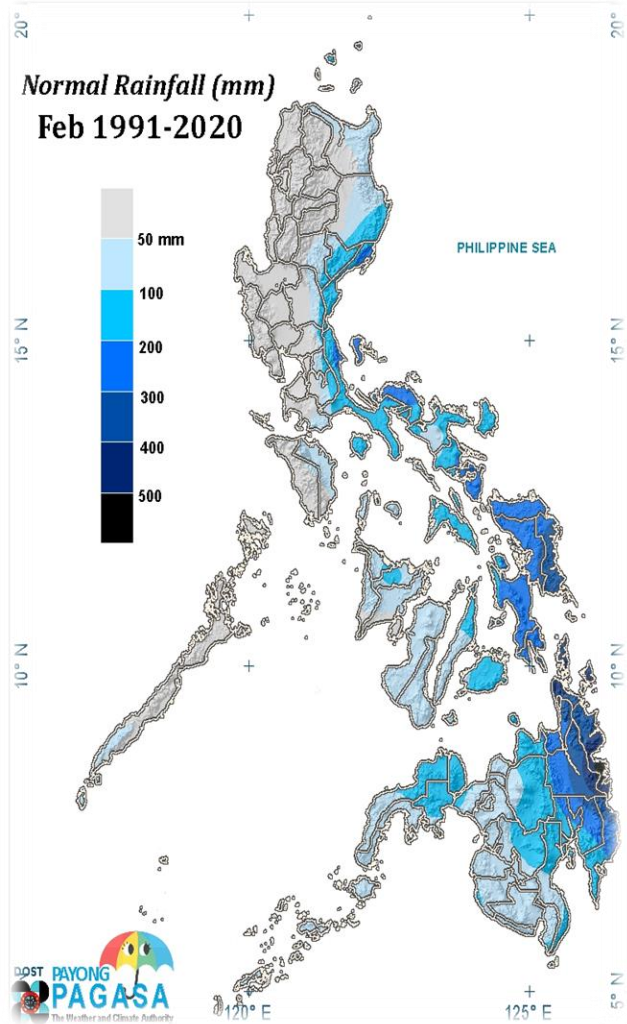
FEBRUARY 2023

Normal Rainfall

Forecast Rainfall

Percent of Normal

Probabilistic Forecast



way below normal	below normal	near normal	above normal
2	12	39	30

MONTHLY RAINFALL FORECAST

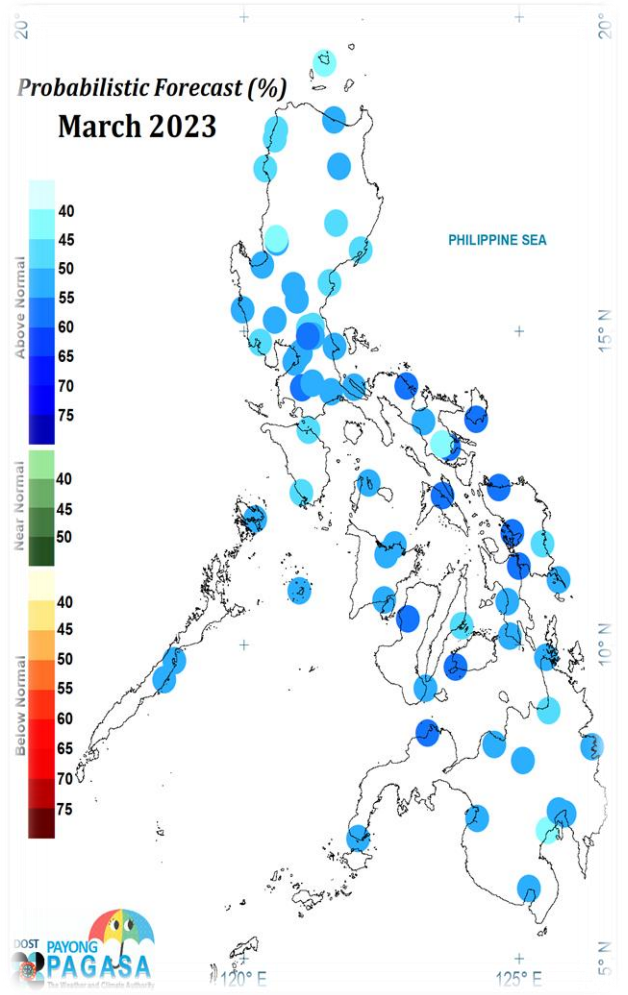
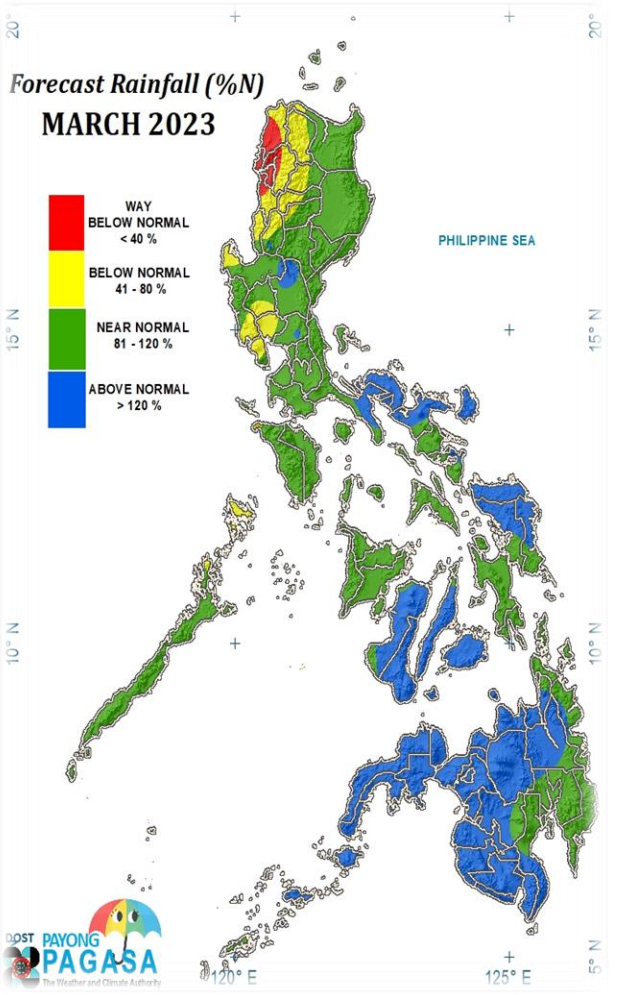
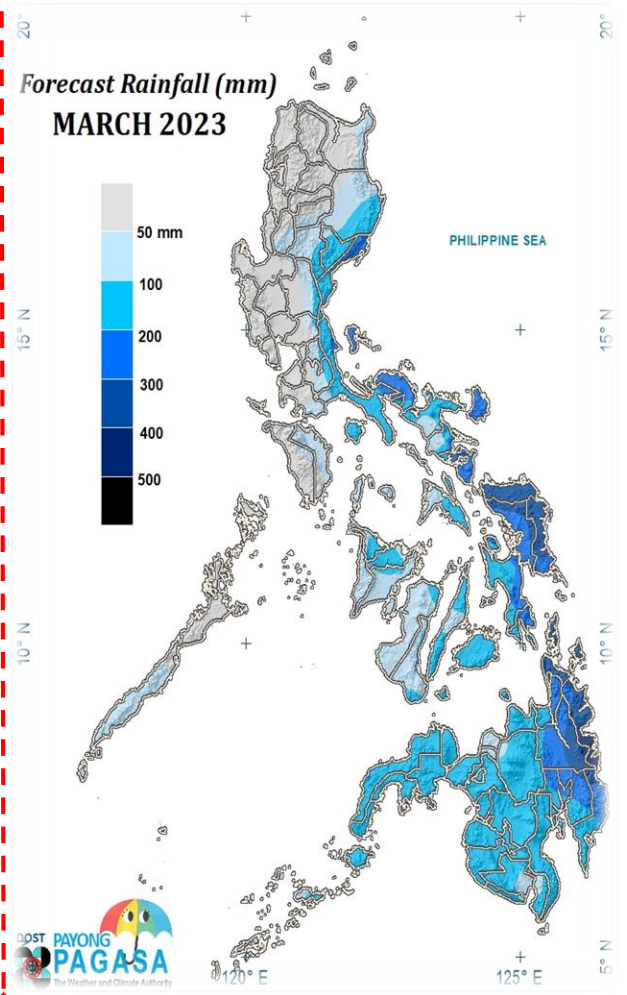
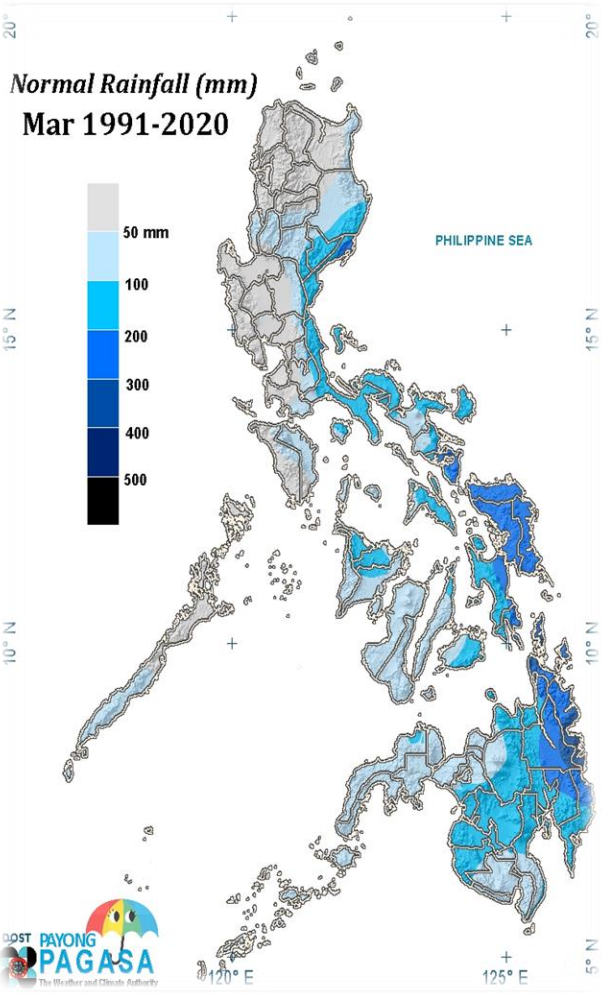
MARCH 2023

Normal Rainfall

Forecast Rainfall

Percent of Normal

Probabilistic Forecast



way below normal	below normal	near normal	above normal
2	7	46	28

FORECAST RAINFALL in Percent of Normal (October 2022 - March 2023) as of September 22, 2022

PROVINCE	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH
CORDILLERA ADMINISTRATIVE REGION (CAR)						
ABRA	113.8	118.7	105.4	76.2	40.1	40.7
BENGUET	88.3	130.6	119.9	102.0	73.6	87.1
IFUGAO	117.5	135.7	134.8	114.6	87.5	86.8
KALINGA	113.0	132.6	131.8	122.7	72.6	77.1
APAYAO	112.6	132.5	118.1	102.4	59.6	70.2
MOUNTAIN PROVINCE	115.4	135.0	129.0	111.4	74.5	74.2
REGION I						
ILOCOS NORTE	118.5	122.3	98.9	64.4	26.5	37.0
ILOCOS SUR	101.8	121.7	102.3	71.9	39.9	37.4
LA UNION	90.6	147.9	112.4	89.3	58.9	67.2
PANGASINAN	128.9	158.3	115.2	72.8	66.4	94.5
REGION II						
BATANES	136.8	142.3	112.4	115.3	116.4	101.8
CAGAYAN	109.5	132.2	133.4	139.6	87.6	96.1
ISABELA	122.7	134.8	149.4	142.7	104.6	102.8
NUEVA VIZCAYA	120.3	124.8	130.6	110.1	91.5	109.0
QUIRINO	133.0	135.1	139.1	123.4	106.7	110.0
REGION III (CENTRAL LUZON)						
BATAAN	175.4	101.6	85.3	76.5	43.3	76.9
BULACAN	130.3	153.7	133.4	118.2	88.4	107.5
NUEVA ECIIJA	124.6	134.8	121.2	90.5	75.3	109.6
PAMPANGA	141.8	147.5	99.6	89.2	60.0	74.1
TARLAC	139.3	134.6	105.4	69.5	65.0	83.5
ZAMBALES	168.1	138.9	94.5	48.5	63.2	83.9
AURORA	134.8	97.7	132.3	124.8	105.7	112.2
NATIONAL CAPITAL REGION						
METRO MANILA	145.5	167.7	140.9	162.6	100.6	99.0
REGION IV-A (CALABARZON)						
BATANGAS	152.4	152.9	135.4	140.5	114.4	89.9
CAVITE	159.5	119.0	130.3	149.6	101.1	88.1
LAGUNA	152.0	158.5	140.5	150.5	120.0	102.7
RIZAL	143.5	218.9	145.4	148.0	111.9	101.8
QUEZON	141.9	133.2	132.5	134.5	121.6	115.1

PROVINCE	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH
REGION IV-B (MIMAROPA)						
MARINDUQUE	144.2	143.9	128.3	137.7	118.0	109.2
OCCIDENTAL MINDORO	144.8	155.1	128.6	129.0	90.1	85.6
ORIENTAL MINDORO	142.3	152.5	132.0	135.4	100.0	91.2
ROMBLON	137.0	138.9	125.7	148.5	114.5	108.2
PALAWAN	123.8	146.9	150.1	185.9	88.4	94.6
SPRATLY ISLANDS	144.6	151.3	137.3	150.2	86.3	84.1
REGION V (BICOL)						
ALBAY	141.3	139.5	117.6	146.0	122.2	107.6
CAMARINES NORTE	143.0	135.3	132.3	135.4	128.8	137.8
CAMARINES SUR	146.3	132.8	117.9	146.5	122.0	126.7
CATANDUANES	129.5	144.0	122.3	164.7	129.4	125.9
MASBATE	148.8	127.0	131.8	144.6	128.3	98.6
SORSOGON	143.7	115.9	126.6	143.4	129.9	114.9
REGION VI (WESTERN VISAYAS)						
AKLAN	120.5	130.2	126.9	153.2	97.6	93.0
ANTIQUE	125.3	145.5	133.7	173.6	104.1	90.2
CAPIZ	112.3	121.9	125.5	154.5	104.5	97.5
GUIMARAS	125.3	150.8	134.4	195.4	129.9	111.8
ILOILO	120.0	137.5	130.6	174.0	117.7	100.7
NEGROS OCCIDENTAL	123.1	130.9	129.7	188.7	120.3	127.3
REGION VII (CENTRAL VISAYAS)						
NEGROS ORIENTAL	115.4	137.2	128.0	186.0	109.4	130.2
BOHOL	123.4	120.6	113.5	154.6	129.6	131.4
CEBU	117.9	137.8	120.8	162.1	129.7	131.4
SIQUIJOR	112.5	135.8	122.8	171.8	106.8	131.8
REGION VIII (EASTERN VISAYAS)						
BILIRAN	130.5	121.3	119.9	135.3	135.8	111.1
EASTERN SAMAR	125.9	119.1	118.3	137.0	118.5	117.5
LEYTE	126.9	101.6	115.2	138.7	139.0	105.6
NORTHERN SAMAR	145.1	115.7	122.6	131.0	129.8	126.7
SAMAR (WESTERN SAMAR)	128.3	121.2	118.6	132.7	127.8	118.0
SOUTHERN LEYTE	137.2	111.5	107.9	141.5	130.7	108.3

PROVINCE	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH
REGION IX (ZAMBOANGA PENINSULA)						
ZAMBOANGA DEL NORTE	117.6	124.2	121.4	184.7	101.1	132.3
ZAMBOANGA DEL SUR	113.8	125.4	116.8	177.3	105.7	136.9
ZAMBOANGA SIBUGAY	113.1	127.9	117.9	181.0	107.1	136.9
REGION X (NORTHERN MINDANAO)						
BUKIDNON	113.7	124.7	121.0	125.6	125.0	126.5
CAMIGUIN	120.2	117.5	110.5	144.9	127.5	124.4
LANAO DEL NORTE	113.6	121.2	115.8	153.7	117.0	130.8
MISAMIS OCCIDENTAL	117.3	119.3	119.7	171.5	103.9	129.5
MISAMIS ORIENTAL	117.3	118.7	114.5	136.6	131.7	125.8
REGION XI (DAVAO REGION)						
DAVAO DE ORO	110.6	132.4	114.5	123.7	128.5	116.3
DAVAO CITY	104.8	81.1	116.5	108.9	110.1	109.0
DAVAO DEL NORTE	105.1	91.2	115.6	115.8	117.4	115.1
DAVAO DEL SUR	114.2	116.1	112.9	111.1	119.1	117.3
DAVAO OCCIDENTAL	116.0	123.4	109.6	116.8	129.4	127.4
DAVAO ORIENTAL	117.4	129.0	113.0	124.3	129.1	116.7
REGION XII (SOCCSKSARGEN)						
SOUTH COTABATO	114.8	128.3	108.1	122.6	127.6	133.6
COTABATO	112.1	113.7	112.4	123.5	114.2	125.1
SARANGANI	115.8	128.8	107.8	120.5	131.4	133.3
SULTAN KUDARAT	113.1	122.1	108.4	132.3	119.1	133.3
REGION XIII- CARAGA						
AGUSAN DEL NORTE	122.5	105.3	102.8	136.1	124.9	123.2
AGUSAN DEL SUR	121.2	112.0	108.0	126.8	123.2	122.5
DINAGAT ISLANDS	125.1	110.8	101.9	138.3	124.9	107.2
SURIGAO DEL NORTE	124.3	110.7	98.7	139.1	122.6	113.3
SURIGAO DEL SUR	124.0	106.5	100.2	130.5	121.9	118.7
BARMM						
BASILAN	114.1	130.9	115.8	177.7	114.1	145.2
MAGUINDANAO	109.3	117.1	107.2	138.6	113.8	135.9
LANAO DEL SUR	112.5	118.7	114.3	142.7	118.9	131.8
SULU	112.0	123.4	124.1	176.2	111.8	131.5
TAWI-TAWI	114.1	127.2	131.4	173.7	107.9	118.8

PROVINCE	OCTOBER			NOVEMBER			DECEMBER			JANUARY			FEBRUARY			MARCH		
CORDILLERA ADMINISTRATIVE REGION	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN
ABRA	153.5	321.8	250.1	52.6	308.6	201.2	50.6	167.0	106.8	3.3	31.3	13.9	1.5	17.0	9.1	3.1	28.4	14.5
BENGUET	259.1	389.1	317.1	99.9	247.3	167.3	57.3	156.1	103.3	13.6	45.8	25.3	12.7	34.2	21.3	35.5	64.1	50.4
IFUGAO	299.8	335.7	312.9	210.9	285.6	266.4	148.6	323.3	228.6	28.0	71.7	48.0	21.2	47.0	32.9	38.1	64.5	49.3
KALINGA	289.2	325.3	316.8	270.4	341.2	307.2	144.9	274.8	207.0	19.0	65.2	37.6	13.5	33.2	21.8	19.9	40.2	29.5
APAYAO	241.6	323.1	298.7	192.1	407.6	311.3	115.5	246.5	182.8	26.1	94.5	55.9	13.3	50.4	29.9	12.7	32.6	23.7
MOUNTAIN PROVINCE	292.3	325.5	314.3	243.7	306.6	280.4	125.5	292.5	195.8	15.8	63.7	33.7	14.4	38.1	23.2	26.7	47.0	36.7
REGION I																		
ILOCOS NORTE	130.5	288.9	200.9	42.1	296.5	123.5	35.5	172.7	87.8	3.5	81.5	28.5	0.2	48.8	14.6	0.6	29.2	10.3
ILOCOS SUR	124.4	304.3	226.3	38.5	266.9	154.6	32.4	136.1	79.6	2.8	21.6	11.3	0.5	17.4	9.8	0.5	41.3	20.9
LA UNION	259.7	334.8	278.2	98.0	173.6	143.3	49.4	78.3	61.6	7.9	19.2	12.2	10.7	15.8	12.6	29.0	47.9	37.3
PANGASINAN	274.2	389.1	322.8	95.5	192.9	133.0	40.6	137.6	60.0	0.0	50.0	8.9	1.3	32.0	10.7	16.1	58.5	28.2
REGION II																		
BATANES	339.2	374.1	366.3	319.9	381.4	356.2	174.9	218.9	197.9	149.6	187.7	170.8	93.9	99.7	96.3	44.3	65.6	56.4
CAGAYAN	270.8	337.3	313.0	265.9	427.6	357.9	157.4	333.2	268.3	45.2	199.8	106.2	23.6	125.6	54.4	24.4	66.1	42.3
ISABELA	302.1	560.1	351.4	265.8	749.2	357.5	267.2	665.9	406.5	58.4	324.9	152.5	30.4	213.1	91.8	35.5	204.6	92.7
NUEVA VIZCAYA	309.3	481.5	382.4	140.2	399.4	279.3	103.1	388.9	247.0	32.7	221.8	92.4	26.0	148.1	63.0	55.4	168.6	85.7
QUIRINO	324.9	581.4	444.4	289.0	809.8	443.5	313.5	668.1	442.5	84.2	309.8	198.5	55.6	214.5	134.0	70.4	213.7	146.1
REGION III																		
BATAAN	325.0	380.7	357.9	0.0	143.8	68.7	51.5	145.0	83.9	5.6	21.6	12.0	3.4	15.7	7.0	13.5	19.9	16.1
BULACAN	294.2	504.9	364.0	0.0	771.9	279.3	109.7	496.3	267.1	6.3	175.9	58.0	0.0	157.3	38.4	17.5	136.5	49.0
NUEVA ECJA	221.6	469.3	325.6	0.0	624.0	182.6	62.8	408.5	183.8	4.1	188.7	67.4	0.0	141.3	45.4	12.1	142.9	58.6
PAMPANGA	256.8	356.7	298.4	0.0	612.6	156.0	46.4	197.2	100.4	5.3	33.4	14.5	0.0	19.4	6.6	17.7	35.5	24.4
TARLAC	244.1	413.2	308.6	66.2	339.2	107.0	37.6	108.7	54.7	0.0	18.3	5.8	0.0	9.2	4.8	12.3	25.6	19.1
ZAMBALES	325.8	464.9	389.5	60.5	159.7	110.2	32.9	64.7	43.1	0.0	9.5	3.8	3.4	11.6	6.9	13.5	23.1	17.2
AURORA	419.4	693.8	542.1	0.0	948.2	494.0	305.5	803.3	539.7	154.9	403.5	275.9	109.6	284.3	191.4	123.1	278.1	196.2
NATIONAL CAPITAL REGION																		
METRO MANILA	309.0	406.6	358.5	0.0	492.1	242.1	162.0	289.6	216.1	24.6	80.1	50.5	7.9	46.9	27.3	20.8	45.1	30.4
REGION IV-A																		
BATANGAS	306.3	531.8	392.2	153.6	643.0	369.9	168.1	524.3	322.3	29.4	179.7	83.8	18.8	120.3	51.8	18.9	84.0	42.3
CAVITE	310.2	360.9	326.2	0.0	269.7	128.0	151.4	256.2	198.1	25.5	61.4	36.5	16.7	34.7	21.7	16.7	31.4	19.8
LAGUNA	313.7	635.3	462.1	153.5	985.0	517.5	223.0	672.7	441.7	48.4	292.8	152.1	27.0	213.2	100.9	21.2	161.0	78.9
RIZAL	372.3	568.2	450.9	201.0	1098.8	739.6	255.6	598.9	415.9	65.3	263.7	147.8	32.3	194.2	100.9	39.2	151.6	81.3
QUEZON	334.7	686.2	572.9	0.0	1119.2	633.3	398.0	839.7	668.2	113.0	592.3	288.1	69.3	387.3	207.3	52.7	263.1	163.1
REGION IV-B																		
MARINDUQUE	476.4	546.9	495.2	457.8	554.0	477.6	460.8	601.3	527.6	186.4	249.2	217.8	117.1	166.3	141.9	97.9	134.2	114.7
OCCIDENTAL MINDORO	344.6	451.2	405.1	164.0	421.0	309.8	147.9	329.2	240.5	27.7	111.7	63.8	9.8	65.0	37.1	10.5	61.1	37.3
OCCIDENTAL MINDORO	362.7	490.4	423.4	200.9	468.4	364.1	189.0	419.6	308.2	56.2	153.7	106.2	26.4	94.4	60.4	27.6	83.2	57.0
ROMBLON	371.5	473.1	417.1	292.8	452.5	367.0	275.6	422.3	354.0	140.9	198.7	172.0	70.8	117.4	97.5	74.6	101.5	90.0
PALAWAN	220.5	412.6	312.5	174.1	327.7	255.9	151.9	339.2	252.8	20.8	149.4	107.1	6.5	54.1	35.2	7.7	70.1	46.6
SPRATLY ISLANDS	338.7	349.3	340.4	207.0	218.9	208.9	176.9	187.8	179.0	72.8	77.5	75.0	22.3	23.4	22.6	27.9	28.7	28.1
REGION V																		
ALBAY	340.8	486.9	403.4	271.7	636.9	433.3	428.6	658.7	523.7	199.2	504.0	308.5	103.8	325.0	191.5	72.2	285.8	146.8
CAMARINES NORTE	564.1	698.3	619.2	556.4	723.6	644.4	634.5	846.8	799.4	298.3	405.6	372.6	197.9	304.9	272.8	181.8	274.7	235.5
CAMARINES SUR	373.6	639.4	493.4	266.0	685.1	446.5	383.2	781.3	551.0	187.1	414.4	277.3	74.6	264.6	161.0	72.6	233.9	145.1
CATANDUANES	469.3	503.3	483.0	536.6	627.9	583.7	609.4	653.3	640.3	419.9	496.1	461.9	216.3	245.0	228.1	204.6	239.0	219.6
MASBATE	340.0	471.8	380.3	254.2	475.2	333.7	358.9	535.1	467.2	184.8	372.2	285.2	100.0	237.2	162.3	80.6	192.3	122.3
SORSOGON	394.0	475.6	446.0	392.8	635.5	517.7	496.7	663.0	613.0	273.1	507.4	435.7	171.2	316.2	283.7	120.3	291.8	248.3



PROVINCE	OCTOBER			NOVEMBER			DECEMBER			JANUARY			FEBRUARY			MARCH		
REGION VI	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN
AKLAN	306.7	397.1	345.9	290.2	426.0	354.3	261.3	355.8	312.0	134.5	244.2	191.1	62.2	98.1	82.3	72.1	133.0	101.7
ANTIQUE	277.6	406.9	315.5	229.3	352.7	272.0	196.3	308.6	245.2	69.9	183.4	136.6	31.4	80.0	59.2	36.9	98.7	75.1
CAPIZ	289.8	404.1	334.2	255.0	440.3	368.6	266.2	371.4	330.1	161.5	271.2	211.7	67.9	107.8	91.0	68.2	151.4	110.4
GUIMARAS	282.2	352.8	310.8	211.2	238.0	220.7	206.6	222.8	211.0	100.4	122.5	107.8	51.4	64.1	57.7	56.0	77.6	66.1
ILOILO	268.1	390.3	299.2	211.1	413.1	278.6	201.5	381.6	267.3	97.1	227.0	159.8	47.4	130.3	74.5	52.4	121.0	84.9
NEGROS OCCIDENTAL	293.2	431.9	344.9	239.6	271.2	257.6	206.4	301.8	232.4	119.6	222.3	151.9	67.2	138.5	86.2	80.3	108.2	93.1
REGION VII																		
NEGROS ORIENTAL	162.0	403.2	275.4	225.2	271.3	246.3	203.4	241.0	217.2	140.6	217.9	167.2	74.9	95.6	82.9	89.5	106.5	96.0
BOHOL	215.1	336.9	261.6	169.4	281.0	228.9	202.9	322.4	248.5	194.0	384.3	277.9	105.8	233.0	164.2	103.0	160.3	133.6
CEBU	183.2	377.0	274.3	216.0	358.9	251.2	202.9	454.4	261.5	161.8	397.4	215.5	80.2	305.3	136.1	84.3	174.6	109.3
SIQUIJOR	201.2	246.5	224.8	218.6	249.4	236.2	214.6	231.4	223.0	200.9	224.7	213.4	89.5	108.0	99.4	103.2	116.5	111.2
REGION VIII																		
BILIRAN	339.7	368.6	358.1	346.5	373.4	353.3	474.4	517.7	492.6	351.9	402.4	385.6	248.5	289.1	273.4	183.8	212.6	199.6
EASTERN SAMAR	309.1	422.4	376.8	385.5	564.1	467.0	525.5	669.2	612.5	548.1	736.7	630.3	337.3	411.2	375.3	241.9	381.8	312.3
LEYTE	268.3	375.3	333.5	237.6	383.0	304.7	339.6	533.4	456.4	334.3	549.9	443.5	245.5	382.8	330.6	155.2	226.8	192.7
NORTHERN SAMAR	378.0	516.4	452.5	369.8	520.3	464.2	571.0	756.4	677.0	410.2	628.4	580.0	252.9	412.1	362.4	216.0	412.6	344.6
SAMAR (WESTERN SAMAR)	273.9	469.2	379.5	338.3	514.8	410.2	506.2	676.2	587.4	393.4	646.2	525.6	256.9	388.3	337.1	209.2	348.1	282.5
SOUTHERN LEYTE	312.3	367.5	342.4	251.7	430.6	291.9	334.6	467.4	408.1	417.2	729.6	546.7	247.5	458.3	348.4	154.0	304.4	213.8
REGION IX																		
ZAMBOANGA DEL NORTE	241.8	364.6	290.3	166.1	394.6	260.1	128.1	302.1	218.5	140.3	309.7	223.7	69.2	115.7	97.7	99.9	131.7	118.5
ZAMBOANGA DEL SUR	230.7	310.8	253.7	145.9	293.8	207.3	110.3	254.4	189.8	129.9	259.6	197.6	61.8	110.8	95.4	102.2	132.9	121.7
ZAMBOANGA SIBUGAY	233.8	265.6	256.7	199.4	218.2	207.3	152.2	210.8	180.9	162.1	216.0	191.9	77.4	101.8	89.6	106.8	125.6	116.0
REGION X																		
BUKIDNON	220.5	323.3	280.4	139.0	265.0	237.0	180.0	260.6	214.5	145.2	352.6	214.7	107.1	233.3	150.3	78.1	193.2	140.3
CAMIGUIN	280.6	295.8	282.4	271.6	289.7	276.4	259.5	278.2	267.2	319.4	363.2	340.5	198.9	226.1	212.3	149.9	164.3	156.9
LANAO DEL NORTE	220.1	258.8	238.7	145.3	247.3	200.6	177.2	218.3	197.0	157.4	211.9	185.7	104.6	112.6	106.9	81.6	134.3	116.4
MISAMIS OCCIDENTAL	248.7	333.0	291.6	216.4	354.9	272.0	213.1	272.5	241.6	212.3	274.8	242.1	107.3	115.7	111.4	117.2	127.1	122.5
MISAMIS ORIENTAL	210.2	278.7	249.0	136.4	267.8	211.0	177.9	290.6	228.6	161.0	458.0	272.4	103.8	282.1	171.5	69.3	190.1	124.3
REGION XI																		
DAVAO DE ORO	185.1	286.4	241.3	177.8	321.4	246.8	202.5	354.7	269.7	235.6	679.8	426.8	160.3	474.6	291.9	122.5	353.1	223.6
DAVAO CITY	202.3	271.2	251.7	153.9	243.5	191.1	180.1	212.5	192.6	142.8	242.4	178.7	116.5	186.0	140.9	123.1	181.9	147.8
DAVAO DEL NORTE	191.4	296.2	241.7	157.2	268.2	221.6	189.1	292.4	227.4	181.0	483.6	291.1	135.7	339.6	213.4	125.1	264.6	191.4
DAVAO DEL SUR	195.4	271.8	250.0	172.7	233.9	208.5	147.4	187.9	168.4	125.7	161.9	139.5	95.0	121.8	109.3	102.6	128.5	117.1
DAVAO OCCIDENTAL	177.6	260.7	222.7	151.3	253.7	211.5	143.1	197.4	168.2	125.5	214.3	172.1	92.6	162.6	123.2	97.1	147.8	116.8
DAVAO ORIENTAL	224.0	291.9	263.3	210.5	339.8	264.5	214.8	372.3	273.4	258.7	747.3	445.9	174.5	513.1	291.5	137.3	377.1	218.2
REGION XII																		
SOUTH COTABATO	118.2	246.1	201.0	106.9	229.6	182.2	113.0	157.9	139.4	117.0	130.2	120.1	73.9	114.1	95.6	76.5	136.4	109.0
COTABATO	240.8	282.0	259.6	194.3	257.8	230.6	150.6	205.5	173.5	122.4	200.7	140.0	102.6	157.3	115.8	120.5	163.1	142.6
SARANGANI	131.1	246.1	194.9	109.6	238.7	175.6	124.0	181.4	149.3	119.3	187.4	144.1	80.4	143.6	106.4	82.1	133.7	107.9
SULTAN KUDARAT	211.6	258.0	245.1	192.7	237.7	226.1	144.4	165.3	155.1	118.5	131.3	124.2	96.0	118.1	108.6	108.9	150.4	134.4
REGION XIII																		
AGUSAN DEL NORTE	210.4	281.7	243.0	203.4	367.7	241.1	262.0	396.0	315.2	367.1	752.4	542.5	235.2	458.2	334.5	167.6	303.9	222.1
AGUSAN DEL SUR	228.4	339.7	277.1	212.7	478.3	283.5	247.3	461.5	324.6	310.4	930.8	569.0	216.3	673.8	385.4	167.8	496.5	282.8
DINAGAT ISLANDS	302.6	329.1	306.6	336.6	463.3	388.5	463.6	503.7	474.6	641.5	858.5	763.2	411.6	534.5	476.0	260.6	357.9	312.3
SURIGAO DEL NORTE	266.6	315.7	300.5	291.0	490.6	395.0	379.7	473.9	437.0	697.0	889.3	806.1	429.6	568.1	493.5	286.5	384.7	330.3
SURIGAO DEL SUR	253.8	348.2	291.4	251.3	483.8	330.9	354.2	480.1	401.1	684.0	974.5	795.2	420.6	713.2	517.3	277.5	527.5	361.2
BARMM																		
BASILAN	237.7	255.6	245.9	154.8	212.5	179.6	118.9	162.1	128.9	129.7	136.6	130.6	66.9	78.3	72.1	97.2	108.7	106.2
MAQUINDAÑO	235.9	289.8	264.0	201.7	228.7	220.2	146.0	178.8	155.7	119.9	150.7	129.7	100.9	113.9	107.2	120.6	166.6	149.5
LANAO DEL SUR	233.2	270.4	247.8	185.2	239.3	216.4	156.3	204.6	184.2	146.7	182.8	159.5	104.7	121.7	109.6	99.1	152.9	128.4
SULU	236.0	265.1	246.9	202.4	213.2	207.6	140.4	187.7	176.9	124.7	138.8	132.9	63.0	84.1	75.7	82.0	109.7	99.5
TAWI-TAWI	236.3	298.5	252.9	204.1	244.3	205.7	182.0	234.5	187.0	122.6	142.0	128.9	53.6	83.5	69.7	71.8	104.2	88.0

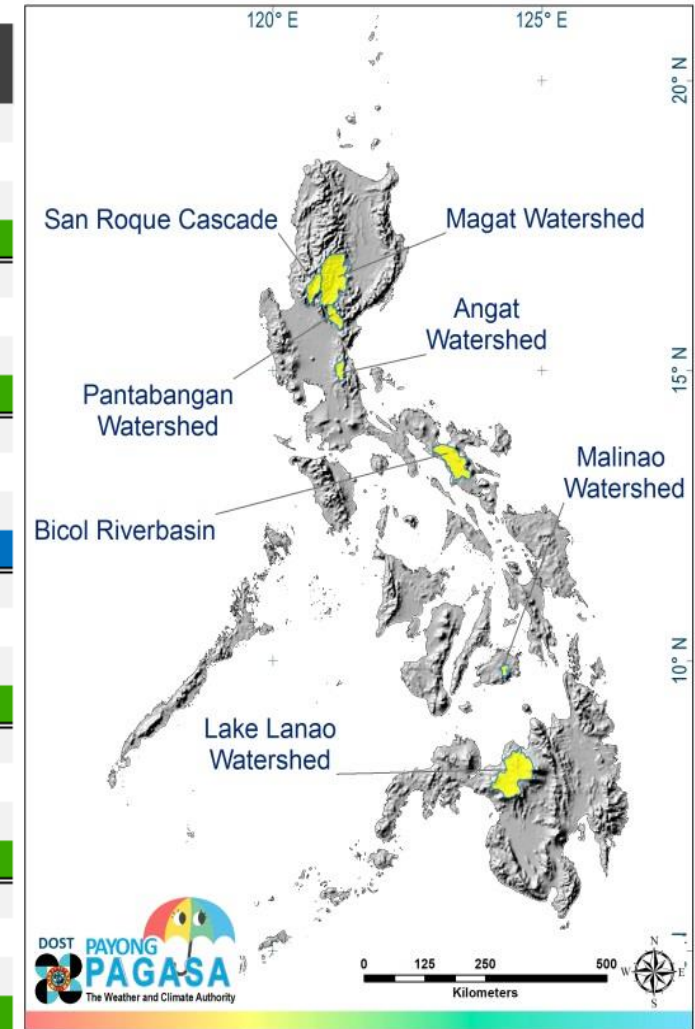


FORECAST WATERSHED RAINFALL for selected Dams and Lakes

in (mm) and (%N) FOR OCT 2022 - MAR 2023

FORECAST WATERSHED RAINFALL (OCT 2022 - MAR 2023)

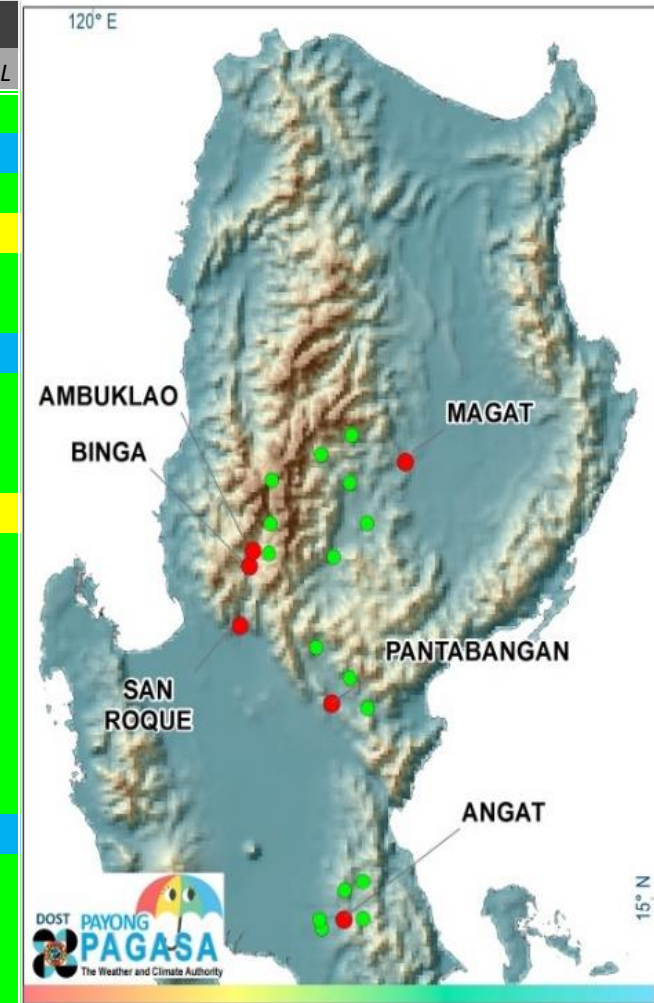
NAME		Angat WS	La Mesa WS	Lake Buhi	Lake Lanao	Magat WS	Malinao WS	Pantabangan WS	San Roque Cascade WS
OCTOBER	MIN	331.7	378.0	340.8	210.2	301.6	256.0	341.8	298.1
	MAX	503.7	395.0	543.7	283.5	414.4	285.3	433.0	384.4
	MEAN	443.7	386.0	414.4	243.9	343.6	273.5	390.5	345.6
	%NORMAL	126.0	138.6	146.5	113.8	115.5	123.7	131.7	91.5
NOVEMBER	MIN	173.0	113.6	266.0	136.4	201.2	229.7	178.2	108.7
	MAX	780.9	243.8	488.6	246.1	320.1	267.1	319.7	226.2
	MEAN	462.1	182.9	333.7	199.4	265.1	251.5	245.3	158.5
	%NORMAL	121.2	149.1	139.2	121.6	129.5	121.6	125.5	119.9
DECEMBER	MIN	302.9	242.5	383.2	177.5	145.7	246.4	156.7	69.9
	MAX	482.2	292.5	571.9	208.6	334.6	271.5	315.8	160.5
	MEAN	405.1	264.2	455.4	190.9	219.5	259.2	230.3	112.7
	%NORMAL	142.3	145.5	112.8	117.0	131.6	112.6	124.7	122.9
JANUARY	MIN	54.8	52.4	187.1	148.7	29.4	274.7	66.9	20.4
	MAX	168.3	69.1	338.1	191.3	122.9	321.1	174.0	45.8
	MEAN	117.0	61.1	226.2	163.7	61.1	299.5	111.0	31.3
	%NORMAL	110.2	152.1	146.2	138.1	110.5	152.0	102.5	104.1
FEBRUARY	MIN	18.8	23.6	74.6	103.8	22.5	162.4	43.4	17.8
	MAX	157.7	35.3	231.2	126.0	83.0	189.8	115.7	34.2
	MEAN	98.8	29.9	119.0	110.8	42.6	177.3	73.4	25.7
	%NORMAL	108.5	97.7	117.8	126.0	88.0	129.9	84.4	81.5
MARCH	MIN	41.9	33.3	72.2	69.3	38.6	129.9	64.5	47.3
	MAX	139.9	41.0	173.9	141.3	101.7	143.7	133.5	63.8
	MEAN	87.2	37.1	94.2	111.1	63.7	137.0	93.6	57.0
	%NORMAL	110.9	103.1	114.6	129.0	96.9	128.9	119.1	102.4



FORECAST RAINFALL OF RAIN STATIONS OVER SELECTED DAM AREAS

in (mm) and (%N) FOR OCTOBER 2022 – MARCH 2023

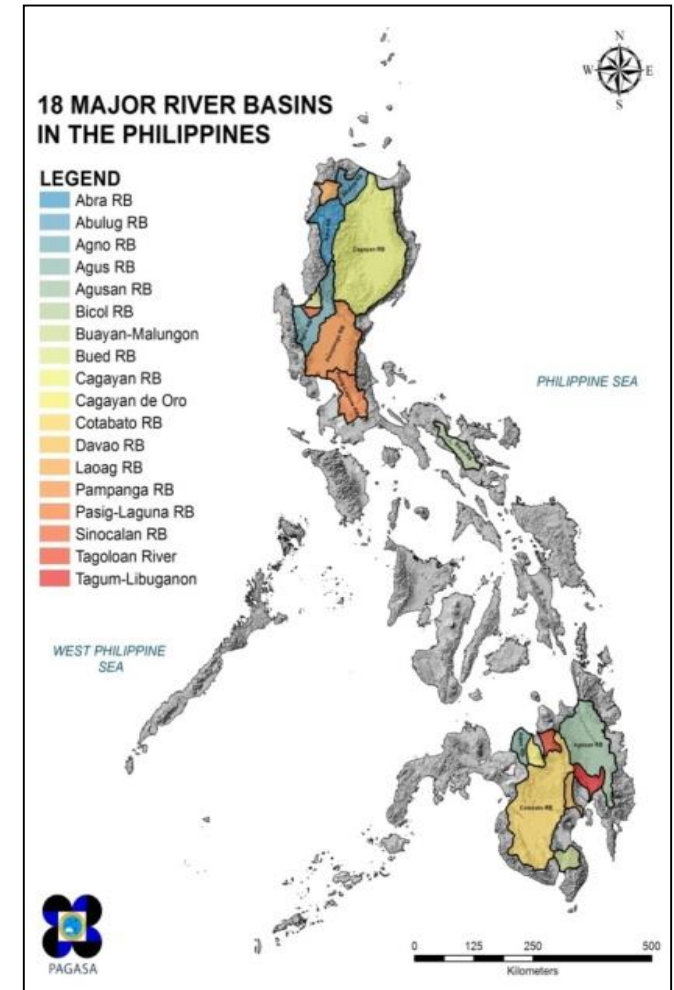
SITES	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MM	%NORMAL	MM	%NORMAL	MM	%NORMAL	MM	%NORMAL	MM	%NORMAL	MM	%NORMAL
AMBUKLAODAM	342.9	84.1	156.2	118.7	111.7	121.6	30.3	105.7	25.0	80.3	58.0	97.8
ANGATDAM	328.4	128.1	297.2	149.8	312.9	148.9	56.2	133.8	19.4	90.4	42.5	132.4
APUNAN	314.3	90.0	189.7	128.2	133.5	122.5	34.0	106.4	26.5	76.7	54.4	86.3
BADAYAN	297.2	95.5	227.6	141.0	137.9	120.8	28.2	103.2	22.5	69.7	45.9	72.6
BINGADAM	359.7	86.7	144.7	113.6	103.8	122.8	28.8	104.7	25.2	85.3	59.9	110.1
BOBOK	356.1	92.1	176.1	116.5	131.4	123.1	36.9	105.8	29.1	82.2	60.3	100.6
BUNGA	394.1	130.4	252.3	127.3	197.6	127.4	78.3	100.4	51.3	83.2	74.4	121.0
BUYOC	311.6	118.1	263.5	135.8	230.9	134.4	53.8	113.1	37.6	89.8	55.7	90.3
DANTOR	315.2	119.6	268.0	136.0	217.1	133.3	41.6	113.7	28.7	83.9	44.0	82.5
DUMAYUP	340.4	121.2	295.7	135.0	275.9	137.6	80.2	114.4	54.3	96.9	72.7	99.7
HALONG	309.1	112.8	262.1	136.9	188.5	128.2	37.4	108.6	27.3	78.7	45.8	79.2
IPODAM	331.5	132.1	26.5	130.4	242.5	140.1	36.3	136.4	6.7	85.7	30.0	116.5
MAGATDAM	309.5	127.9	275.0	137.2	296.0	145.4	62.5	120.4	40.3	101.6	52.6	95.5
MAPUTI	489.4	116.7	437.6	96.9	421.1	136.8	125.3	92.6	135.8	111.0	125.2	119.2
MARIKIT	416.7	130.4	264.9	113.6	302.7	119.5	164.9	107.2	108.5	87.1	126.8	115.5
MATULID	409.0	135.7	534.8	157.9	429.1	151.7	114.6	124.8	80.7	121.6	47.6	91.9
NORZAGARAY	326.1	130.6	67.2	143.8	237.0	138.1	32.1	131.0	3.6	82.8	29.5	117.1
PADALIS	401.1	133.7	268.6	126.6	257.0	125.1	121.9	104.5	80.2	85.6	100.8	119.3
PANTABANGAN DAM	346.2	131.6	188.3	133.2	189.7	124.3	91.3	96.9	59.4	78.7	77.0	121.5
SANROQUEDAM	360.9	112.9	127.1	125.8	85.1	124.0	24.6	92.3	19.5	78.3	47.0	117.0
STODOMINGO	357.4	112.3	269.4	122.2	227.4	131.3	73.9	111.1	51.3	91.0	74.7	104.7
TALAGUIO	410.8	129.4	432.7	159.6	321.2	141.4	64.4	112.5	34.9	89.3	50.7	116.4
UMIRAY	504.4	132.2	738.4	148.4	513.8	144.8	192.9	119.0	156.0	121.4	116.7	101.9



FORECAST RAINFALL OVER SELECTED RIVER BASINS

in (mm) and (%N) FOR OCT – DEC 2022

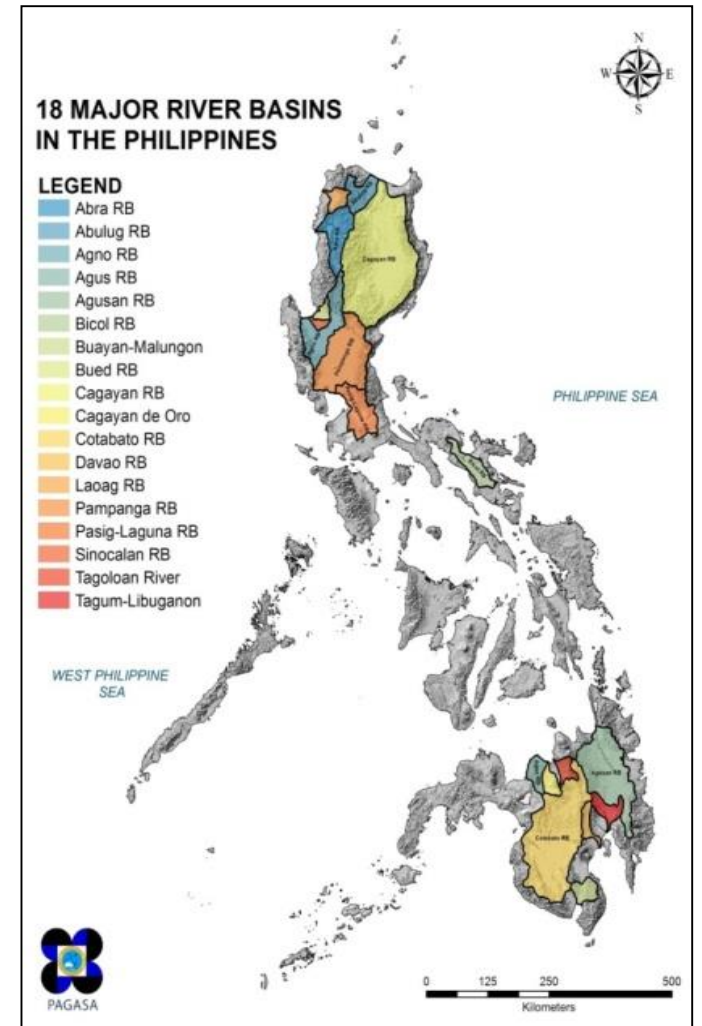
CATCHMENT	OCTOBER 2022				NOVEMBER 2022				DECEMBER 2022			
	LUZON											
	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal
Abra RB	136.0	316.0	256.1	111.6	42.1	300.5	207.8	122.4	38.6	160.4	109.0	107.0
Abulug RB	241.2	319.6	296.4	112.8	200.9	421.8	318.1	133.2	122.5	262.5	186.6	117.5
Agno RB	266.4	403.2	331.2	126.6	66.2	247.1	130.7	141.0	37.7	164.3	74.2	115.1
Bicol RB	340.8	649.5	450.0	146.5	266.0	690.9	383.3	137.6	383.2	786.6	496.6	115.1
Bued RB	276.8	371.4	332.0	109.2	95.5	131.2	106.3	148.5	41.4	81.3	62.2	120.6
Cagayan RB	288.0	620.1	349.3	119.5	199.9	878.9	342.3	133.6	139.9	711.2	309.7	139.3
Laoag RB	130.5	263.9	206.1	123.5	42.3	249.7	129.0	120.2	43.7	145.3	86.1	99.9
Pampanga RB	221.6	503.7	326.9	130.5	0.0	774.6	201.1	139.3	46.1	481.1	175.6	116.1
Pasig-Laguna RB	307.7	598.0	406.3	148.6	0.0	999.8	407.6	166.4	128.3	605.4	343.2	140.3
Sinocalan RB	274.2	344.7	308.6	127.5	102.1	134.4	115.4	174.6	40.6	79.1	51.6	117.3
MINDANAO												
CATCHMENT	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal
Agus RB	210.2	254.7	228.8	115.3	136.4	222.4	169.1	121.0	177.9	207.3	192.7	117.0
Agusan RB	210.4	317.6	267.1	119.6	203.4	431.1	266.8	113.9	236.3	415.2	308.8	109.0
Buayan-Malungon	118.2	235.9	187.5	116.5	106.9	218.8	165.8	129.5	119.8	168.6	148.2	109.1
Cagayan de Oro	216.6	292.4	254.8	113.8	137.5	246.1	191.8	126.9	183.7	207.8	196.3	120.3
Cotabato RB	175.9	323.3	260.6	112.5	150.8	265.1	230.8	119.5	131.0	258.1	176.3	113.1
Davao RB	228.8	284.3	254.5	106.8	153.9	260.4	215.8	83.2	187.9	239.9	203.5	116.9
Tagoloan River	242.9	318.8	287.0	114.0	176.8	257.5	225.8	131.6	206.1	244.0	225.6	122.2
Tagum-Libuganon	194.5	290.7	246.8	108.6	167.7	288.9	241.8	99.9	189.4	320.6	251.5	114.7



FORECAST RAINFALL OVER SELECTED RIVER BASINS

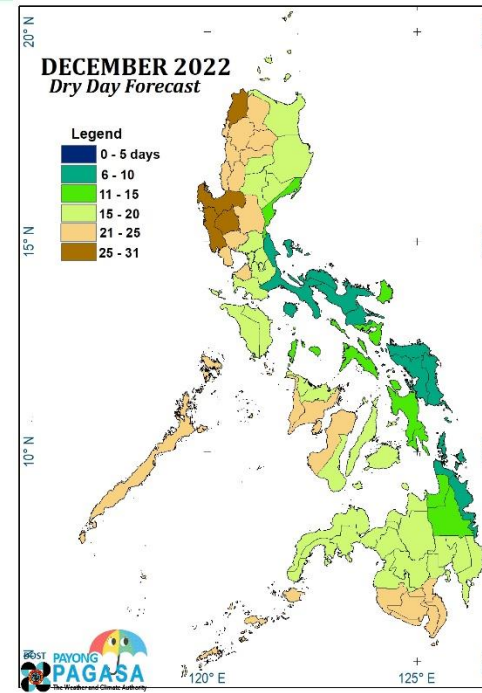
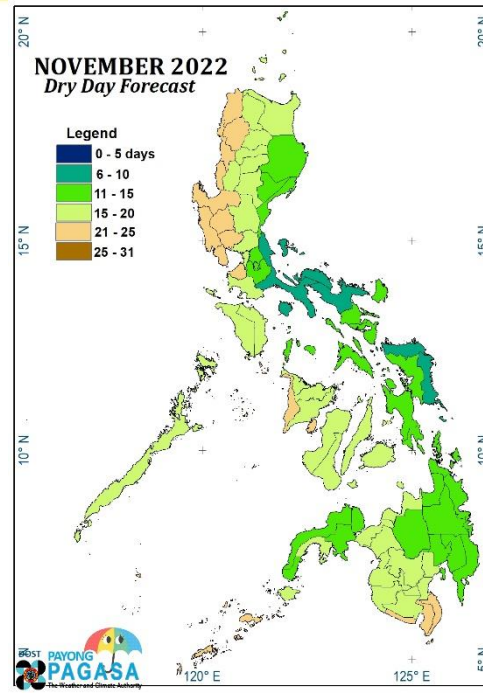
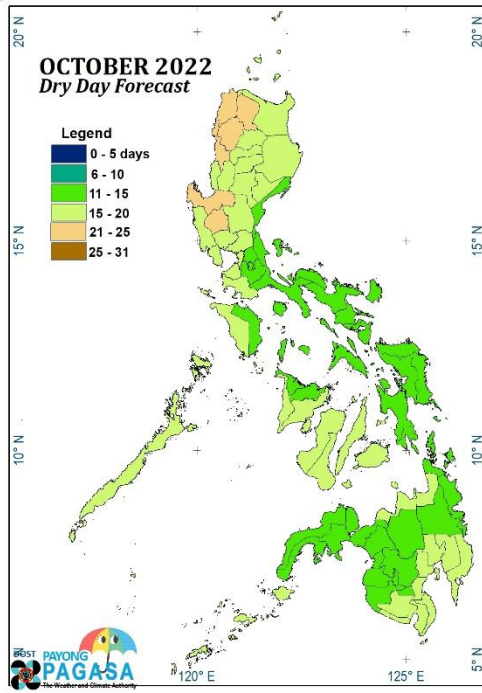
in (mm) and (%N) FOR JAN 2023 – MAR 2023

CATCHMENT	JANUARY 2023				FEBRUARY 2023				MARCH 2023			
	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal
LUZON												
Abra RB	2.9	29.7	14.6	79.2	0.9	21.5	10.5	43.4	1.7	45.7	18.3	43.7
Abulug RB	27.4	109.9	61.6	101.2	14.7	57.5	32.6	60.5	13.8	35.9	24.3	71.5
Agno RB	0.0	51.9	15.4	80.0	0.0	38.0	12.6	70.7	14.0	67.2	32.2	96.3
Bicol RB	187.1	359.4	240.9	145.1	74.6	268.0	136.3	119.4	72.2	237.4	113.0	119.2
Bued RB	4.2	22.8	13.9	87.0	5.3	22.6	13.3	73.0	19.9	62.8	38.8	106.8
Cagayan RB	18.2	342.0	103.4	129.0	13.2	238.2	64.1	92.3	19.2	236.2	71.5	96.5
Laoag RB	5.2	45.9	20.1	66.0	0.2	24.5	9.3	26.5	1.3	18.3	8.3	36.2
Pampanga RB	1.9	218.6	52.6	91.9	0.0	157.6	35.3	72.7	12.1	161.0	48.8	98.5
Pasig-Laguna RB	7.2	266.8	104.4	150.3	0.0	195.8	65.1	109.8	17.5	152.6	56.5	101.2
Sinocalan RB	1.8	20.1	6.7	75.6	2.8	14.4	6.0	63.3	18.1	38.0	23.2	97.0
MINDANAO												
CATCHMENT	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal	MIN	MAX	MEAN	%Normal
Agus RB	154.6	212.0	173.9	139.5	103.8	126.6	109.8	131.2	69.3	118.2	92.1	126.6
Agusan RB	305.8	833.6	525.9	126.9	208.6	592.4	354.0	124.1	155.7	434.6	260.1	122.1
Buayan-Malungon	118.5	172.1	139.8	114.4	73.9	120.1	98.9	130.5	76.5	113.8	100.4	128.5
Cagayan de Oro	155.8	199.3	170.4	131.3	105.3	128.3	115.9	131.0	74.7	130.2	104.6	127.6
Cotabato RB	117.0	336.4	154.6	126.7	88.0	232.8	122.0	118.4	98.3	200.1	141.5	129.0
Davao RB	159.2	299.5	205.2	112.3	130.5	217.4	159.3	112.4	127.1	193.9	162.1	113.9
Tagoloan River	182.0	301.4	242.0	128.9	124.8	194.2	157.4	131.2	103.0	159.1	128.2	128.0
Tagum-Libuganon	214.7	562.8	361.9	118.8	163.9	394.3	259.1	120.5	163.1	300.0	217.4	117.1

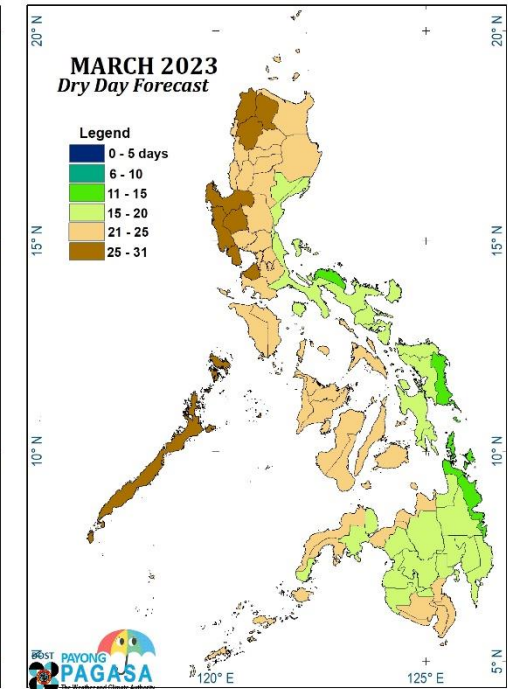
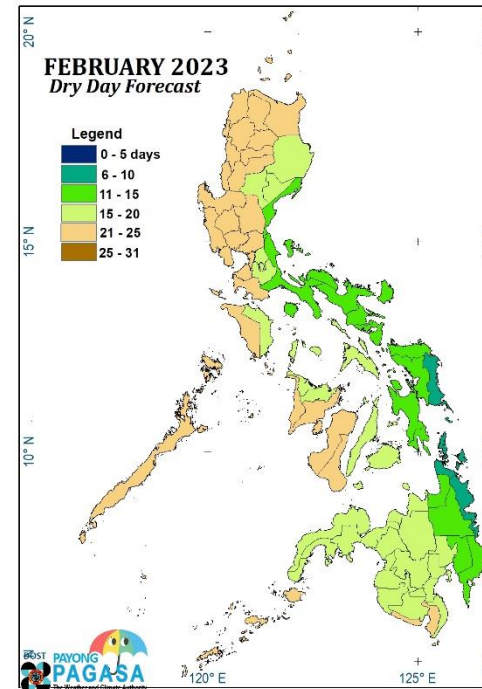
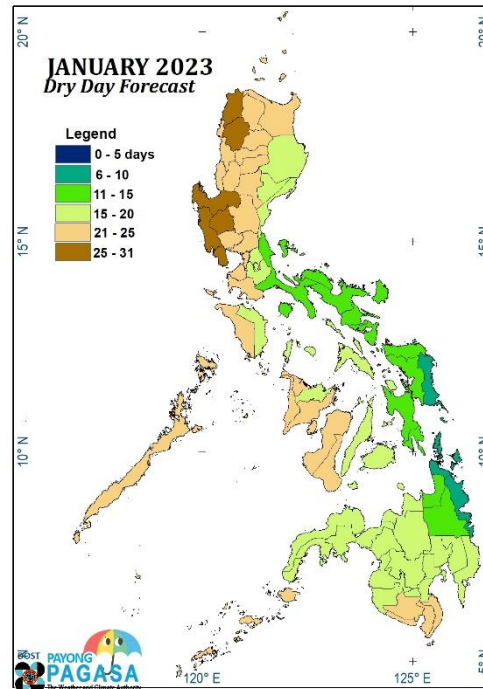


DRY DAY FORECAST

OCTOBER 2022 – MARCH 2023



Note: Dry day is defined as a day with less than 1 mm of rainfall is observed.



DRY DAY FORECAST

OCTOBER 2022 –
MARCH 2023

Note: Dry day is defined as a day with less than 1 mm of rainfall is observed.

DRY DAY FORECAST ANOMALY

Red shade – increased number of dry days

Blue shade – less than the usual number of dry days, i.e., more days with rain

PROVINCE	NORMAL (1991 - 2020)						FORECAST						ANOMALY					
	OCT	NOV	DEC	JAN	FEB	MAR	OCT	NOV	DEC	JAN	FEB	MAR	OCT	NOV	DEC	JAN	FEB	MAR
CORDILLERA ADMINISTRATIVE REGION (CAR)																		
ABRA	20	23	24	25	23	24	21	22	25	25	24	26	1	-1	1	0	1	2
BENGUET	18	22	22	24	22	23	18	20	23	22	22	22	0	-2	1	-2	0	-1
IFUGAO	17	20	20	23	21	22	17	17	21	21	21	22	0	-3	1	-2	0	0
KALINGA	19	21	22	25	22	24	19	18	22	24	23	25	0	-3	0	-1	1	1
APAYAO	21	21	22	24	22	26	20	19	22	24	23	26	-1	-2	0	0	1	0
MOUNTAIN PROVINCE	18	20	21	24	22	23	18	18	22	22	22	23	0	-2	1	-2	0	0
REGION I																		
ILOCOS NORTE	23	24	25	26	23	27	23	24	26	27	25	27	0	0	1	1	2	0
ILOCOS SUR	19	23	24	25	23	23	20	22	25	24	23	25	1	-1	1	-1	0	2
LA UNION	19	23	24	25	23	23	19	22	24	23	23	23	0	-1	0	-2	0	0
PANGASINAN	22	25	26	26	24	25	22	24	26	26	24	25	0	-1	0	0	0	0
REGION II																		
BATANES	17	15	16	15	18	21	17	15	17	16	20	23	0	0	1	1	2	2
CAGAYAN	18	18	18	21	21	24	17	15	18	21	21	24	-1	-3	0	0	0	0
ISABELA	17	17	17	20	18	21	15	13	16	19	19	21	-2	-4	-1	-1	1	0
NUEVA VIZCAYA	17	19	20	22	20	21	17	17	20	21	20	21	0	-2	0	-1	0	0
QUIRINO	16	16	17	18	17	18	16	14	16	17	17	19	0	-2	-1	-1	0	1
REGION III (CENTRAL LUZON)																		
BATAAN	21	25	26	25	24	26	19	23	26	26	23	26	-2	-2	0	1	-1	0
BULACAN	18	19	21	23	21	22	16	16	20	21	20	23	-2	-3	-1	-2	-1	1
NUEVA ECIJA	19	21	22	24	21	24	19	19	23	24	21	24	0	-2	1	0	0	0
PAMPANGA	21	22	24	25	22	24	19	21	24	24	23	25	-2	-1	0	-1	1	1
TARLAC	22	23	25	25	22	25	21	24	26	26	24	26	-1	1	1	1	2	1
ZAMBALES	21	24	25	25	23	25	20	25	26	26	24	26	-1	1	1	1	1	1
AURORA	15	15	15	16	16	17	15	13	14	15	15	18	0	-2	-1	-1	-1	1
NATIONAL CAPITAL REGION																		
METRO MANILA	18	19	21	24	22	24	16	17	20	23	22	25	-2	-2	-1	-1	0	1
REGION IV-A (CALABARZON)																		
BATANGAS	19	19	20	22	21	24	17	17	19	20	20	24	-2	-2	-1	-2	-1	0
CAYITE	21	23	24	25	24	26	19	20	23	25	23	26	-2	-3	-1	0	-1	0
LAGUNA	16	15	16	20	19	22	14	14	16	19	19	23	-2	-1	0	-1	0	1
RIZAL	17	15	17	21	19	21	13	13	16	20	20	23	-4	-2	-1	-1	1	2
QUEZON	12	11	11	14	15	18	11	9	10	13	13	17	-1	-2	-1	-1	-2	-1
REGION IV-B (MIMAROPA)																		
MARINDUQUE	13	12	11	15	16	19	11	10	10	14	14	19	-2	-2	-1	-1	-2	0
OCCIDENTAL MINDORO	19	20	21	22	21	24	16	19	20	21	21	24	-3	-1	-1	-1	0	0
ORIENTAL MINDORO	17	17	18	20	18	22	14	16	16	18	19	22	-3	-1	-2	-2	1	0
ROMBLON	15	16	16	19	18	21	11	13	15	18	17	21	-4	-3	-1	-1	-1	0
PALAWAN	17	20	22	24	23	25	16	18	20	23	23	25	-1	-2	-2	-1	0	0
REGION V (BICOL)																		
ALBAY	14	11	11	14	14	16	10	10	10	12	11	15	-4	-1	-1	-2	-3	-1
CAMARINES NORTE	11	10	10	13	14	17	10	8	9	12	11	15	-1	-2	-1	-1	-3	-2
CAMARINES SUR	13	11	11	14	15	17	10	10	10	12	11	15	-3	-1	-1	-2	-4	-2
CATANDUANES	13	11	12	16	16	17	11	10	11	13	14	16	-2	-1	-1	-3	-2	-1
MASBATE	17	16	15	18	18	21	14	15	15	16	17	21	-3	-1	0	-2	-1	0
SORSOGON	15	12	12	14	15	16	12	11	11	12	12	17	-3	-1	-1	-2	-3	1



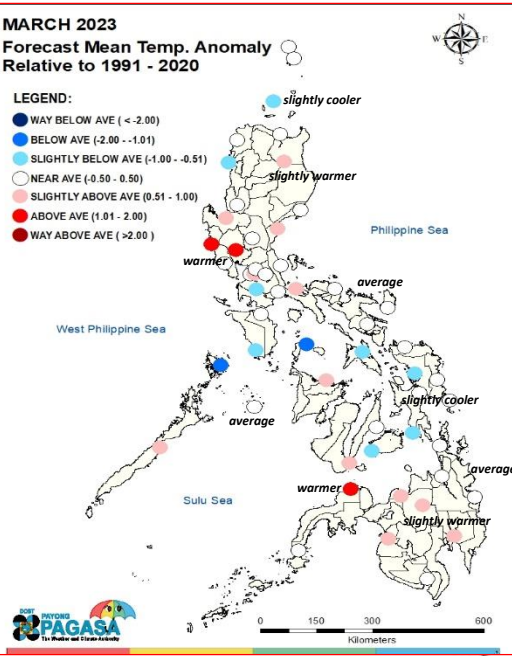
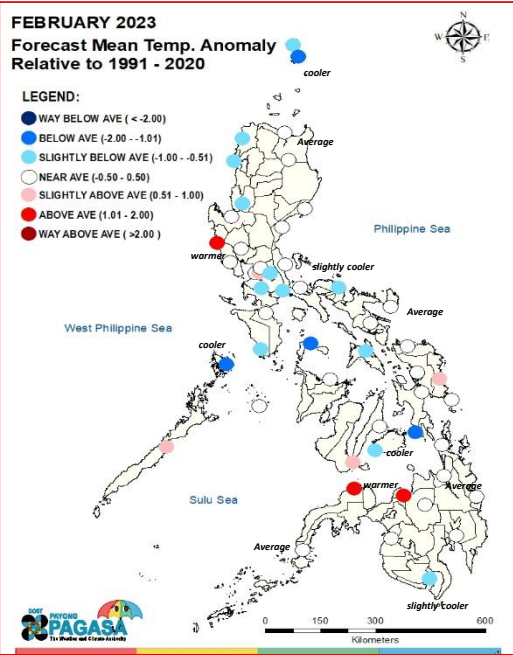
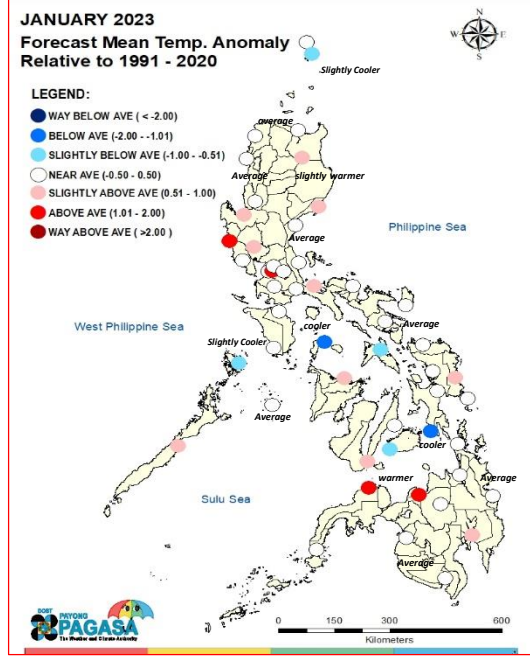
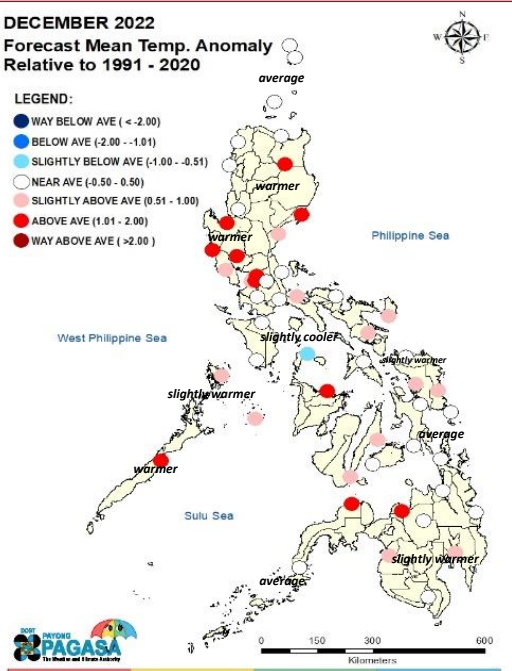
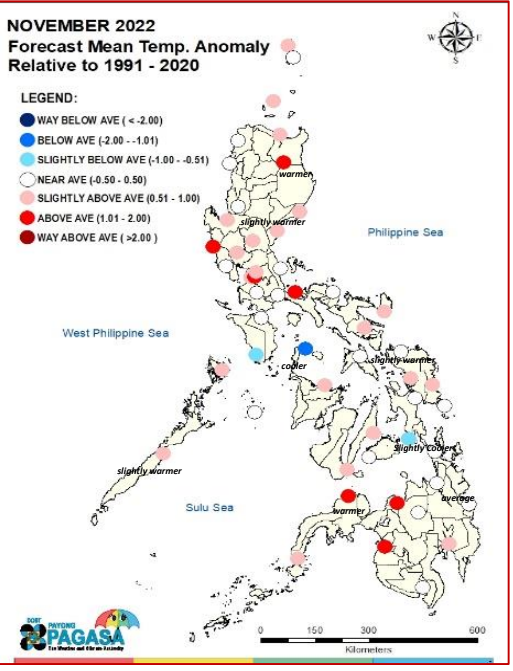
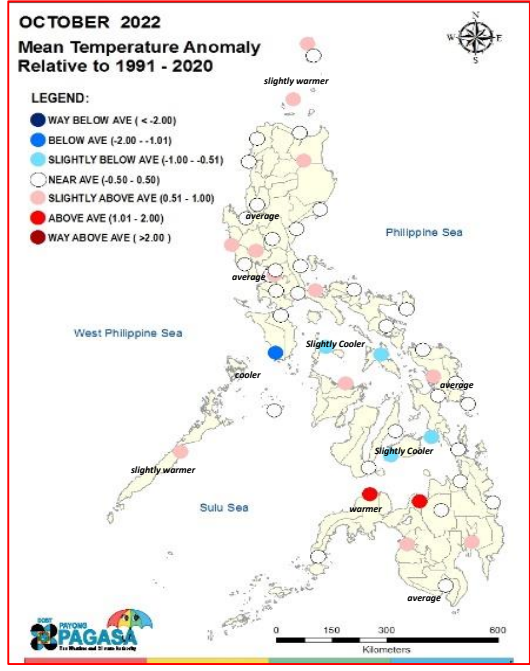
DRY DAY FORECAST

OCTOBER 2022 – MARCH 2023

Note: Dry day is defined as a day with less than 1 mm of rainfall is observed.

PROVINCE	NORMAL (1991 - 2020)						FORECAST						ANOMALY					
	OCT	NOV	DEC	JAN	FEB	MAR	OCT	NOV	DEC	JAN	FEB	MAR	OCT	NOV	DEC	JAN	FEB	MAR
REGION VI (WESTERN VISAYAS)																		
AKLAN	16	18	19	21	20	22	13	17	18	20	19	23	-3	-1	-1	-1	-1	1
ANTIQUE	17	20	21	23	21	23	16	20	21	23	21	24	-1	0	0	0	0	1
CAPIZ	16	17	18	20	20	22	13	18	18	19	19	23	-3	1	0	-1	-1	1
GUIMARAS	17	20	21	23	21	23	17	21	22	24	22	25	0	1	1	1	1	2
ILOILO	16	19	20	22	20	23	15	20	20	22	20	24	-1	1	0	0	0	1
NEGROS OCCIDENTAL	18	20	20	22	20	23	17	19	20	22	20	24	-1	-1	0	0	0	1
REGION VII (CENTRAL VISAYAS)																		
NEGROS ORIENTAL	18	20	20	21	20	23	16	17	19	21	20	23	-2	-3	-1	0	0	0
BOHOL	16	17	17	18	18	21	16	17	17	17	18	21	0	0	0	-1	0	0
CEBU	17	18	18	20	19	22	16	17	18	19	18	22	-1	-1	0	-1	-1	0
SIGUIJOR	17	18	18	19	19	21	16	16	18	19	19	21	-1	-2	0	0	0	0
REGION VIII (EASTERN VISAYAS)																		
BILIRAN	15	15	14	17	16	19	14	14	13	16	15	19	-1	-1	-1	-1	-1	0
EASTERN SAMAR	12	9	8	10	10	14	12	8	7	10	10	14	0	-1	-1	0	0	0
LEYTE	16	14	13	15	15	19	13	13	12	14	13	18	-3	-1	-1	-1	-2	-1
NORTHERN SAMAR	13	10	10	11	13	15	12	8	9	10	12	15	-1	-2	-1	-1	-1	0
SAMAR (WESTERN SAMAR)	13	11	11	13	13	16	13	10	9	12	12	16	0	-1	-2	-1	-1	0
SOUTHERN LEYTE	15	14	13	14	14	18	12	14	12	11	12	18	-3	0	-1	-3	-2	0
REGION IX (ZAMBOANGA PENINSULA)																		
ZAMBOANGA DEL NORTE	15	16	17	19	18	21	13	14	16	18	17	20	-2	-2	-1	-1	-1	-1
ZAMBOANGA DEL SUR	15	16	17	19	18	20	13	15	17	18	18	20	-2	-1	0	-1	0	0
ZAMBOANGA SIBUGAY	16	17	18	19	18	21	13	15	17	18	18	20	-3	-2	-1	-1	0	-1
REGION X (NORTHERN MINDANAO)																		
BUKIDNON	14	16	17	17	17	19	13	15	18	16	16	19	-1	-1	1	-1	-1	0
CAMIGUIN	17	18	18	18	18	21	18	17	19	17	18	21	1	-1	1	-1	0	0
LANAO DEL NORTE	15	17	18	19	18	20	15	15	19	19	18	20	0	-2	1	0	0	0
MISAMIS OCCIDENTAL	14	16	16	18	17	20	14	14	16	18	17	20	0	-2	0	0	0	0
MISAMIS ORIENTAL	17	18	19	18	18	21	17	17	20	18	18	22	0	-1	1	0	0	1
REGION XI (DAYAO REGION)																		
CAMPOSTELA VALLEY	18	15	16	16	16	18	17	13	17	15	14	17	-1	-2	1	-1	-2	-1
DAYAO CITY	17	17	19	19	19	21	16	16	20	18	18	20	-1	-1	1	-1	-1	-1
DAYAO DEL NORTE	17	16	17	17	17	19	16	14	18	16	16	18	-1	-2	1	-1	-1	-1
DAYAO DEL SUR	19	19	21	21	20	23	17	18	21	20	19	21	-2	-1	0	-1	-1	-2
DAYAO OCCIDENTAL	22	21	22	22	21	24	19	20	22	21	20	23	-3	-1	0	-1	-1	-1
DAYAO ORIENTAL	19	15	17	16	16	18	18	14	17	16	14	18	-1	-1	0	0	-2	0
REGION XII (SOCCSKSARGEN)																		
SOUTH COTABATO	20	20	21	22	20	23	16	19	21	20	20	21	-4	-1	0	-2	0	-2
COTABATO	16	17	19	20	18	20	14	16	19	18	18	19	-2	-1	0	-2	0	-1
SARANGANI	21	21	22	22	21	24	18	20	22	21	20	23	-3	-1	0	-1	-1	-1
SULTAN KUDARAT	18	18	20	21	19	21	15	18	20	19	19	19	-3	0	0	-2	0	-2
REGION XIII- CARAGA																		
AGUSAN DEL NORTE	17	14	14	14	14	17	16	14	14	13	13	17	-1	0	0	-1	-1	0
AGUSAN DEL SUR	16	13	14	14	13	16	14	12	13	13	12	16	-2	-1	-1	-1	-1	0
DINAGAT ISLANDS	14	10	8	10	10	13	11	11	8	8	9	14	-3	1	0	-2	-1	1
SURIGAO DEL NORTE	14	11	9	10	10	13	13	11	9	8	9	13	-1	0	0	-2	-1	0
SURIGAO DEL SUR	15	11	10	10	9	12	13	10	9	9	8	13	-2	-1	-1	-1	-1	1
ARMM																		
BASILAN	19	20	23	24	21	23	17	20	23	21	21	23	-2	0	0	-3	0	0
MAGUINDANAO	16	17	19	20	18	20	13	16	19	18	18	18	-3	-1	0	-2	0	-2
LANAO DEL SUR	15	17	19	19	17	20	14	15	19	18	18	19	-1	-2	0	-1	1	-1
SULU	20	22	25	25	23	24	18	21	25	22	22	24	-2	-1	0	-3	-1	0
TAWI-TAWI	21	22	25	26	24	25	18	21	24	22	23	25	-3	-1	-1	-4	-1	0

MONTHLY MEAN TEMPERATURE FORECAST (OCTOBER 2022 – MARCH 2023)



FORECAST RANGES OF EXTREME TEMPERATURE

Updated : 28 September 2022



TMAX Summary	Oct-22		Nov-22		Dec-22		Jan-23		Feb-23		Mar-23	
	Tmax-Range		Tmax-Range		Tmax-Range		Tmax-Range		Tmax-Range		Tmax-Range	
Northern Luzon	28.3	36.3	28.5	35.2	26.7	34.4	26.6	39.6	27.3	36.3	26.2	36.3
Lowlands Luzon	27.8	35.7	27.8	36.7	26.5	36.5	25.8	35.7	26.4	36.2	28.0	37.0
Mountainous Luzon	25.3	26.5	25.6	27.2	25.3	27.5	24.8	27.4	23.6	28.1	25.0	28.2
Metro Manila	33.1	34.9	33.3	36.0	32.9	35.0	31.7	33.8	30.6	34.7	34.0	36.5
Lowlands Visayas	30.7	35.5	31.4	36.6	31.1	35.1	29.3	35.3	29.9	35.0	30.5	35.6
Lowlands Mindanao	33.3	37.5	31.9	37.0	31.5	36.2	31.0	36.7	31.5	37.1	32.0	37.8
Mountainous Mindanao	32.4	33.5	32.4	33.4	32.5	33.6	32.0	33.2	32.0	33.8	32.5	35.2

TMIN Summary	Oct-22		Nov-22		Dec-22		Jan-23		Feb-23		Mar-23	
	Tmin-Range		Tmin-Range		Tmin-Range		Tmin-Range		Tmin-Range		Tmin-Range	
Northern Luzon	16.1	24.9	14.8	24.1	13.6	22.3	12.0	20.8	10.7	22.5	12.9	22.6
Lowlands Luzon	17.4	26.0	15.9	25.2	17.0	25.3	14.5	25.5	12.8	25.6	15.5	25.4
Mountainous Luzon	13.1	14.8	13.8	14.5	10.2	13.1	9.5	11.5	8.9	12.1	10.4	13.0
Metro Manila	21.5	24.1	22.3	24.7	19.0	23.6	18.1	23.7	18.2	23.3	19.0	24.4
Lowlands Visayas	20.0	24.9	21.3	25.3	19.5	25.0	18.3	25.3	18.5	24.5	18.5	25.1
Lowlands Mindanao	20.1	24.2	20.0	24.2	19.4	23.7	16.7	24.2	17.7	24.4	16.2	23.9
Mountainous Mindanao	15.1	19.1	15.5	19.3	15.0	16.8	13.2	17.5	12.1	18.5	12.9	17.5



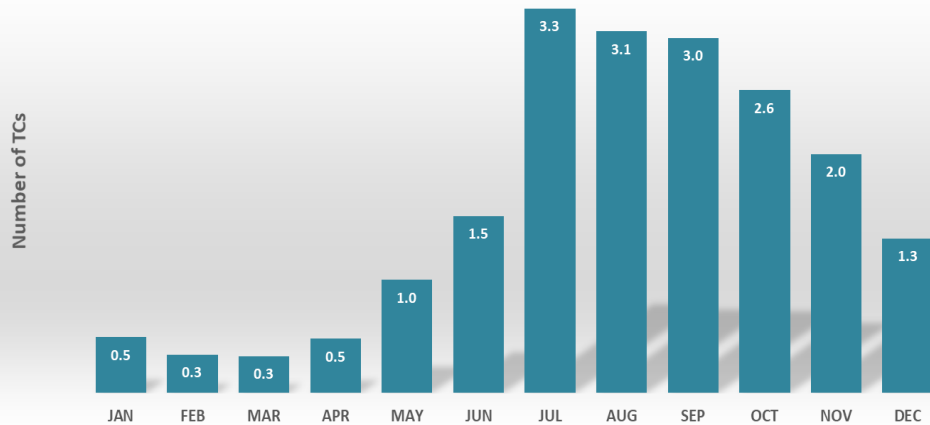


HOW MANY TROPICAL CYCLONES SHOULD YOU EXPECT?

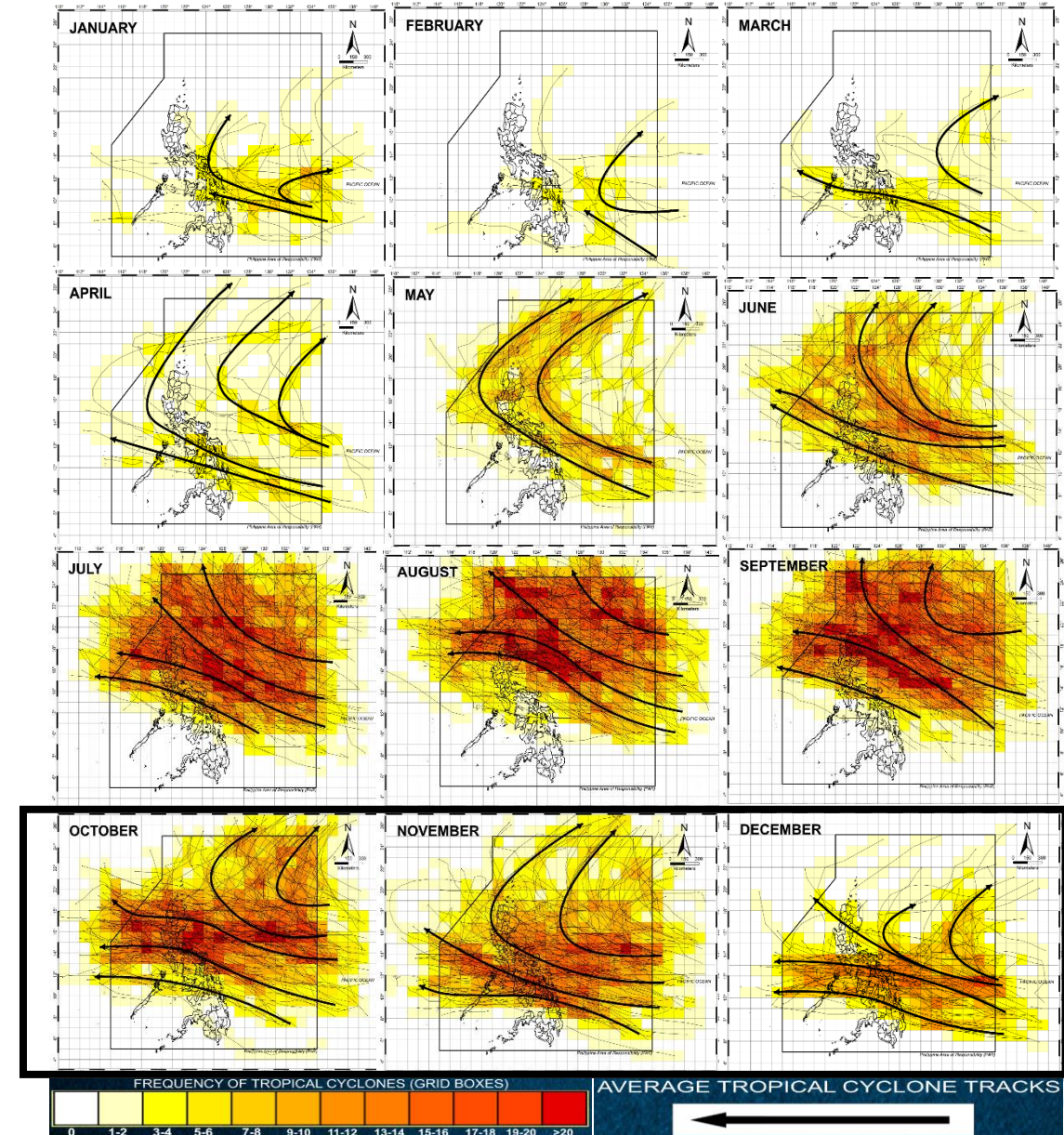
OCTOBER 2022	2 to 4	JANUARY 2023	0 or 1
NOVEMBER 2022	2 or 3	FEBRUARY 2023	0 or 1
DECEMBER 2022	1 or 2	MARCH 2023	0 or 1

Count: 5 to 9

Monthly Average Tropical Cyclone Frequency in the PAR (1948-2021)



Tropical Cyclone Tracks Climatology with actual tracks from 1948-2015



SUMMARY

- *ENSO Alert System Status: La Niña Advisory #12*
 - La Nina is expected to persist until Dec-Jan-Feb (DJF) 2022-23 and then transition to ENSO-neutral condition afterwards.
- *Forecast Rainfall*
 - **October to December 2022** – generally near to above normal rainfall conditions are predicted in most parts of the country, with a **high probability** for **above normal** rainfall conditions in most areas of Luzon and Visayas.
 - **January to March 2023** - generally near to above normal rainfall conditions are likely in most parts the country except for some areas in western Luzon where below normal is expected, however, the **probability** for **above normal** rainfall conditions are still high.

SUMMARY

- *Forecast Temperature*

- Generally, surface air temperatures range from below average to slightly above average throughout the country during the forecast period.

- *Tropical Cyclone Forecast*

- 5 – 9 tropical cyclones are expected to enter/develop in the PAR from October 2022 to March 2023. ----- (5 – 7 TCs during Oct-Nov-Dec 2022 season)

PAGASA will continue to closely monitor the strengthening La Nina and updates/advisories shall be issued as appropriate.

Tentative schedule of
153rd CF:

26 October 2022





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