

Seasonal Rainfall Guidance for Global
Tropics, August 2019 Initial Conditions
Issued 16 August 2019

Overview

- During July, ENSO-neutral conditions were reflected by the combination of below-average sea surface temperatures (SSTs) in the eastern equatorial Pacific Ocean and above-average SSTs in the central Pacific.
- El Niño has transitioned to ENSO-neutral, which is most likely to continue through Northern Hemisphere winter 2019-20.
- NMME model forecasts suggest above-normal SSTs to persist across the equatorial western Pacific. The model forecasts suggest near-to-below average SSTs across the equatorial central and east-central Pacific.
- NMME forecasts through the northern hemisphere winter 2019/20 favor above-average rainfall over portions of the West and East Africa, and portions of central South America. In contrast, the model forecasts favor below-average rainfall over portions of Southern Africa, many places in the Maritime Continent region, Central America and northern South America.
- The forecasts call for moderate to high tilt in the odds to favor mostly above-average temperature.

Additional forecast resources can be found here:

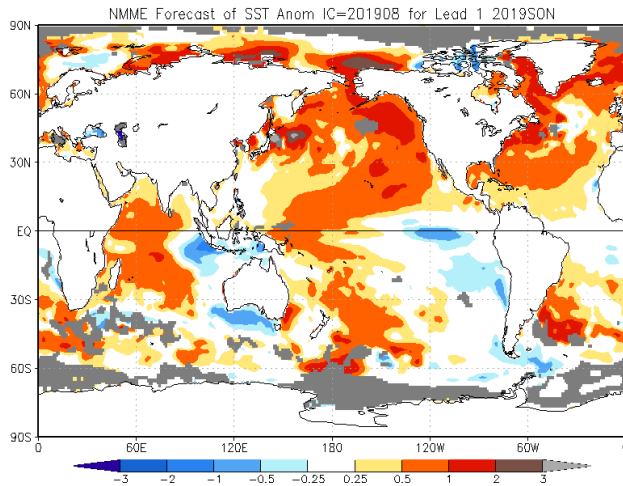
<http://www.cpc.ncep.noaa.gov/products/international/index.shtml>

<http://www.cpc.ncep.noaa.gov/products/international/nmme/nmme.shtml>

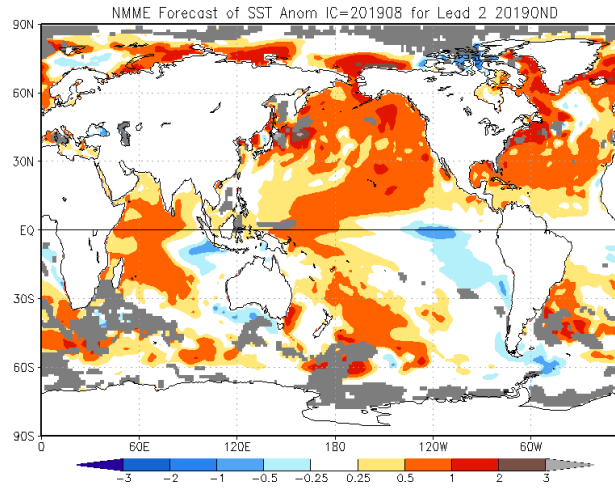
<http://origin.cpc.ncep.noaa.gov/products/people/wwang/cfsv2fcst/>

North American Multi-Model Ensemble (NMME) Global SST Outlook (skill masked) (August 2019 Initial Conditions)

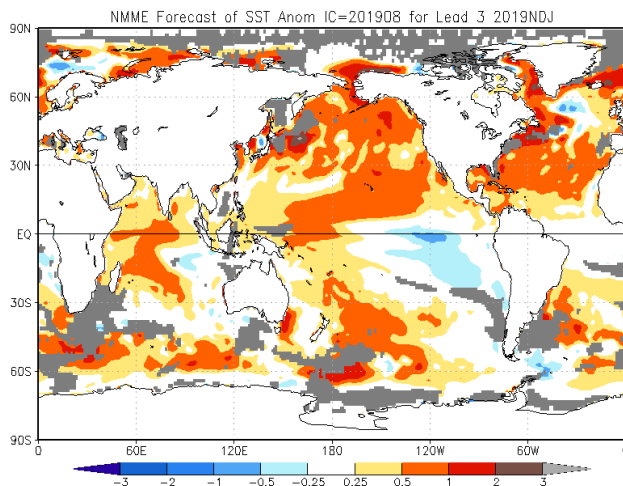
Sep - Nov 2019



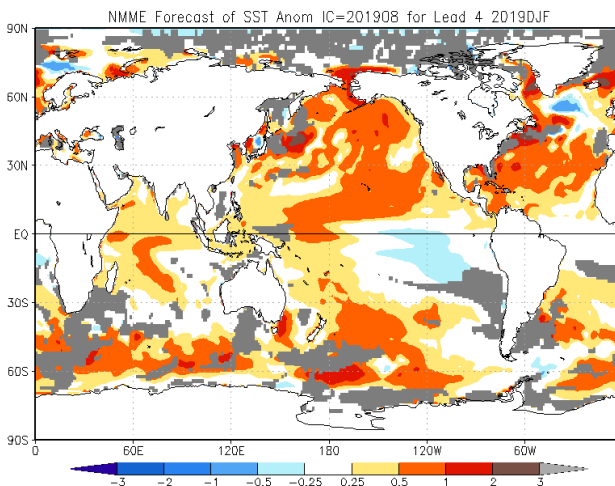
Oct - Dec 2019



Nov 2019 - Jan 2020



Dec 2019 - Feb 2020



NMME model forecasts suggest above-normal SSTs to persist across the equatorial western Pacific.

The model forecasts suggest near-to-below average SSTs across the equatorial central and east-central Pacific.

Rainfall Guidance, Africa: North American Multi-Model Ensemble (NMME), Precipitation Probability Forecasts, (01 – 08 August 2019 IC)

Sand shade indicates indicate dry climatological mask. White areas show where no one class is dominant: either all terciles are under 38%, or both A and B are over 38%

(http://www.cpc.ncep.noaa.gov/products/NMME/NMME_PROB_descr.html).

The forecasts call for a slight to moderate tilt in the odds to favor above-average rainfall over portions of West and the Greater Horn of Africa during Sep – Nov 2019. There is also a tilt in the odds to favor above-average rainfall over many places in East Africa during the northern hemisphere autumn and winter 2019/20.

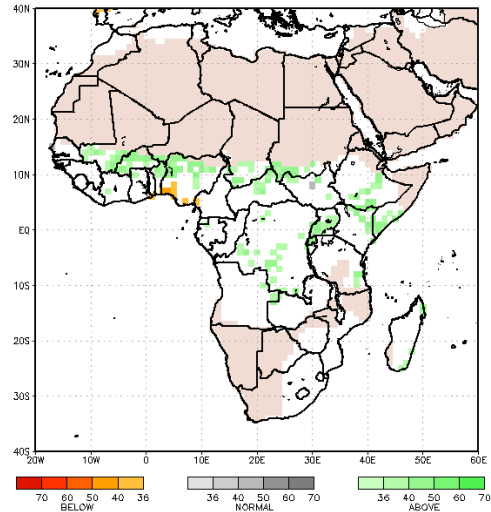
There is a slight to moderate tilt in the odds to favor below-average rainfall over portions of Southern Africa during DJF 2019/20.

Individual model forecasts can be found here:

<http://www.cpc.ncep.noaa.gov/products/international/nmme/nmme.shtml>

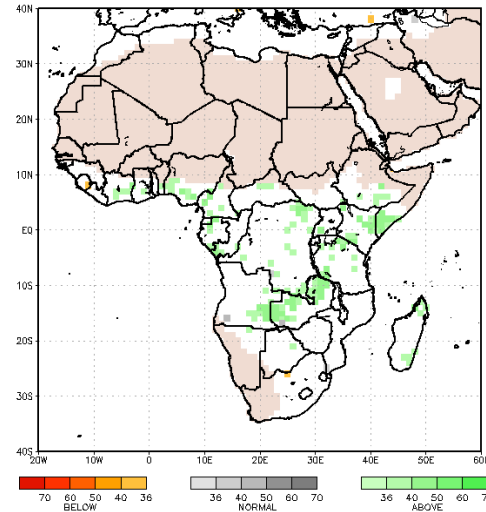
Sep - Nov 2019

NMME Precip Prob. Aug1C Sep2019–Nov2019 Fcst Sand color: Sep–Nov DryClim Mask



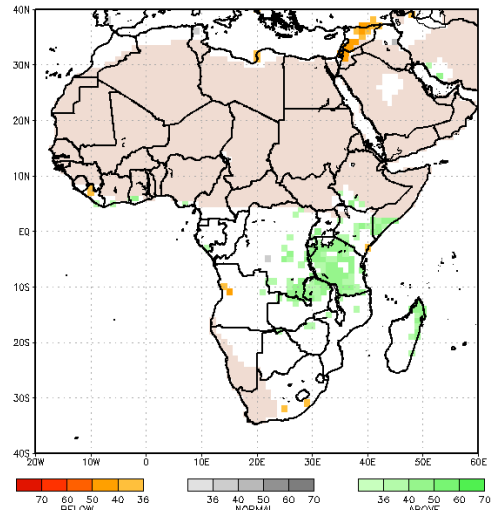
Oct - Dec 2019

NMME Precip Prob. Aug1C Oct2019–Dec2019 Fcst Sand color: Oct–Dec DryClim Mask



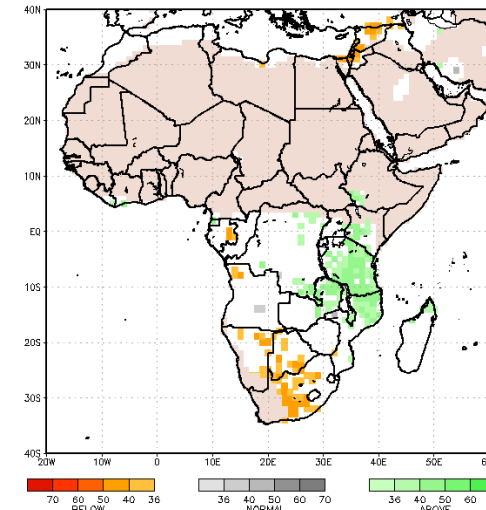
Nov 2019 - Jan 2020

NMME Precip Prob. Aug1C Nov2019–Jan2020 Fcst Sand color: Nov–Jan DryClim Mask



Dec 2019 - Feb 2020

NMME Precip Prob. Aug1C Dec2019–Feb2020 Fcst Sand color: Dec–Feb DryClim Mask

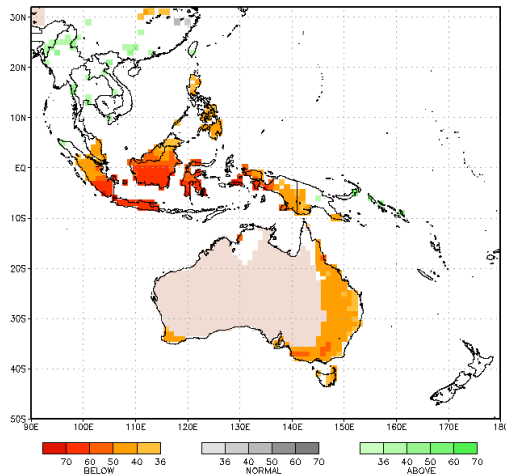


Rainfall Guidance, Maritime Continent: North American Multi-Model Ensemble (NMME), Precipitation Probability Forecasts, (01 – 08 August 2019 IC)

Sand shade indicates indicate dry climatological mask. White areas show where no one class is dominant: either all terciles are under 38%, or both A and B are over 38%
(http://www.cpc.ncep.noaa.gov/products/NMME/NMME_PROB_descr.html).

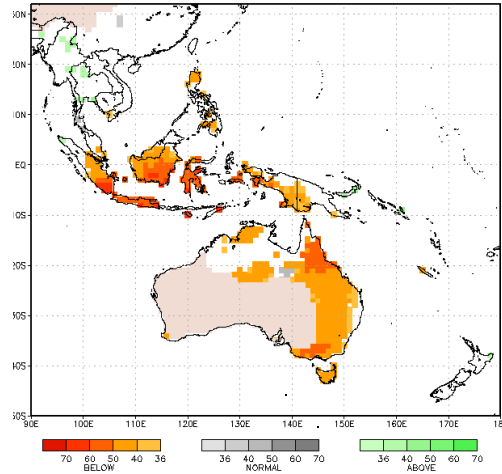
Sep - Nov 2019

NMME Precip Prob. Aug1C Sep2019–Nov2019 Fcst Sand color: Sep–Nov DryClim Mask



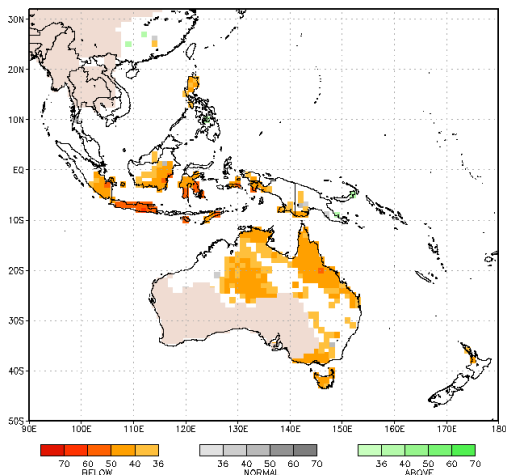
Oct - Dec 2019

NMME Precip Prob. Aug1C Oct2019–Dec2019 Fcst Sand color: Oct–Dec DryClim Mask



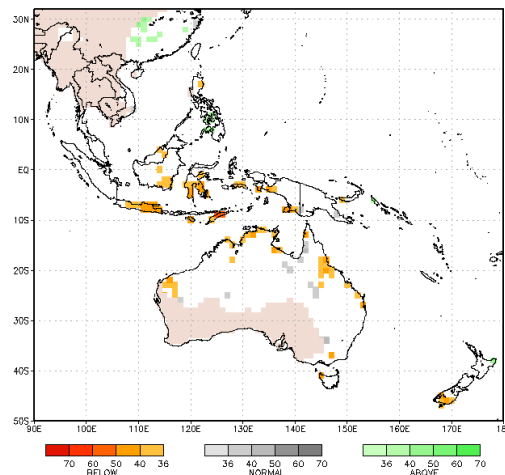
Nov 2019 - Jan 2020

NMME Precip Prob. Aug1C Nov2019–Jan2020 Fcst Sand color: Nov–Jan DryClim Mask



Dec 2019 - Feb 2020

NMME Precip Prob. Aug1C Dec2019–Feb2020 Fcst Sand color: Dec–Feb DryClim Mask



The forecasts call for a moderate tilt in the odds to favor below-average rainfall over many places in the Maritime Continent region through the northern hemisphere autumn 2019.

The tilts in the odd to favor below average rainfall are smaller in the northern hemisphere winter of 2019/20.

and here:
<http://www.cpc.ncep.noaa.gov/products/international/nmme/nmme.shtml>

Rainfall Guidance, CAM and Caribbean: North American Multi-Model Ensemble (NMME), Precipitation Probability Forecasts, (01 – 08 August 2019 IC)

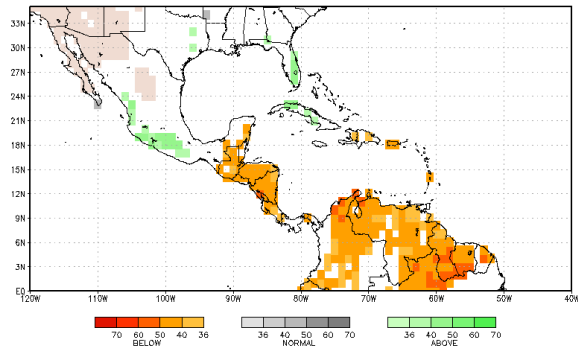
Sand shade indicates indicate dry climatological mask. White areas show where no one class is dominant: either all terciles are under 38%, or both A and B are over 38%

http://www.cpc.ncep.noaa.gov/products/NMME/NMME_PROB_descr.html

The forecasts call for a moderate tilt in the odds to favor below-average rainfall over portions of Central America during Sep-Nov 2019. These odds are smaller during the autumn and winter seasons and across the Caribbean.

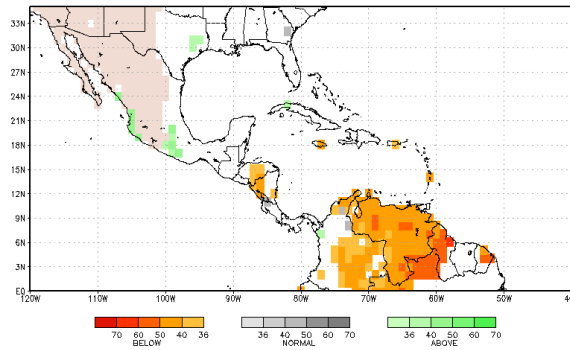
Sep - Nov 2019

NMME Precip Prob. Aug1C Sep2019–Nov2019 Fcst Sand color: Sep–Nov DryClim Mask



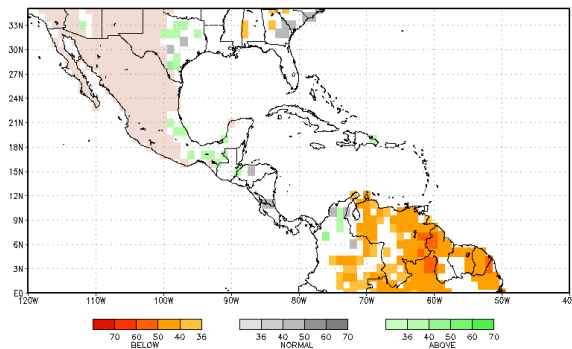
Oct - Dec 2019

NMME Precip Prob. Aug1C Oct2019–Dec2019 Fcst Sand color: Oct–Dec DryClim Mask



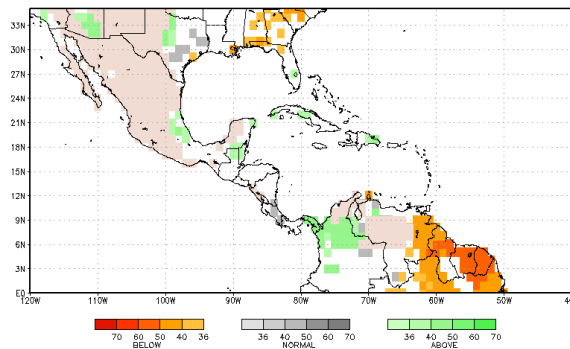
Nov 2019 - Jan 2020

NMME Precip Prob. Aug1C Nov2019–Jan2020 Fcst Sand color: Nov–Jan DryClim Mask



Dec 2019 - Feb 2020

NMME Precip Prob. Aug1C Dec2019–Feb2020 Fcst Sand color: Dec–Feb DryClim Mask



Individual model forecasts can be found here:

<http://www.cpc.ncep.noaa.gov/products/international/nmme/nmme.shtml>

Rainfall Guidance, South America: North American Multi-Model Ensemble (NMME), Precipitation Probability Forecasts, (01 – 08 August 2019 IC)

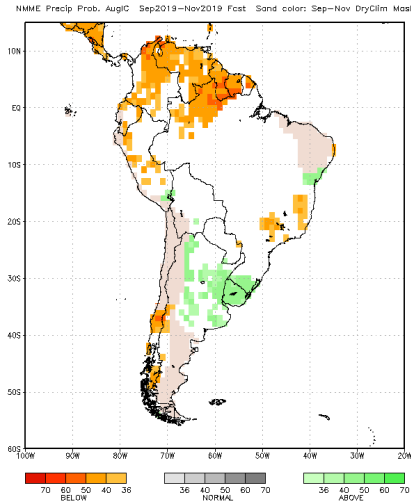
Sand shade indicates indicate dry climatological mask. White areas show where no one class is dominant: either all terciles are under 38%, or both A and B are over 38%
(http://www.cpc.ncep.noaa.gov/products/NMME/NMME_PROB_descr.html).

There is a moderate tilt in the odds to favor below-average rainfall over northern South America.

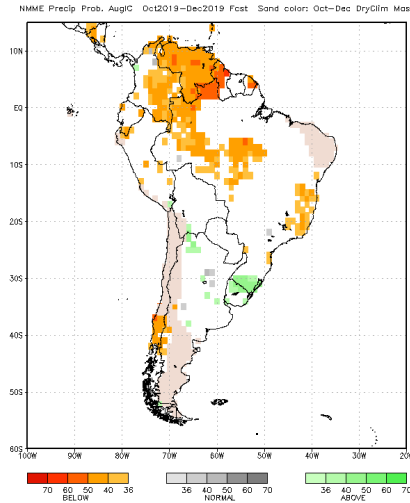
The forecasts call for a slight to moderate tilt in the odds to favor above-average rainfall over portions of central South America.

Individual model forecasts can be found here:
<http://www.cpc.ncep.noaa.gov/products/international/nmme/nmme.shtml>

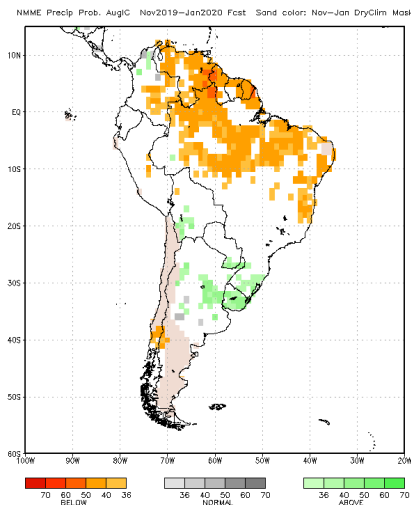
Sep - Nov 2019



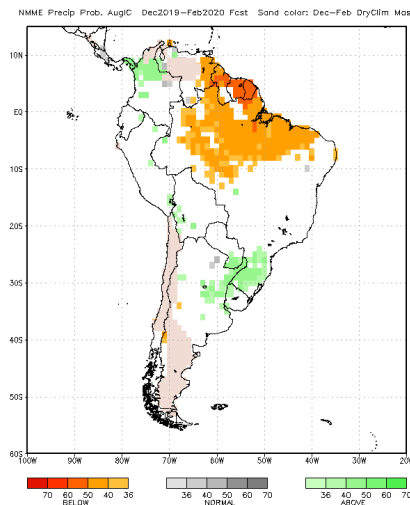
Oct - Dec 2019



Nov 2019 - Jan 2020



Dec 2019 - Feb 2020



Rainfall Guidance, Central Asia: North American Multi-Model Ensemble (NMME)

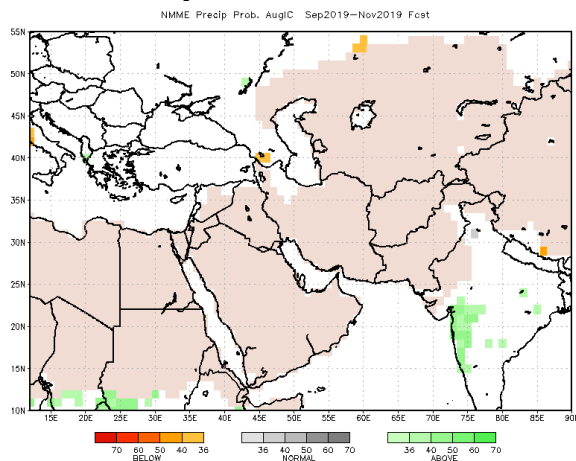
Precipitation Probability Forecasts, (01 – 08 August 2019 IC)

Sand shade indicates indicate dry climatological mask. White areas show where no one class is dominant: either all terciles are under 38%, or both A and B are over 38%

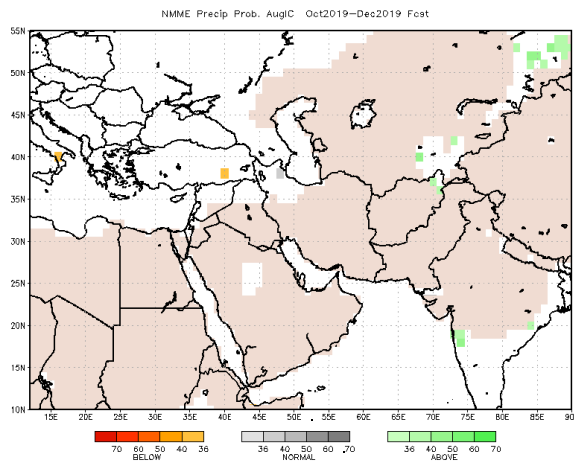
(http://www.cpc.ncep.noaa.gov/products/NMME/NMME_PROB_descr.html).

The forecasts call for a slight to moderate tilt in the odds to favor above average rainfall over portions of Afghanistan during the northern hemisphere winter 2019/20.

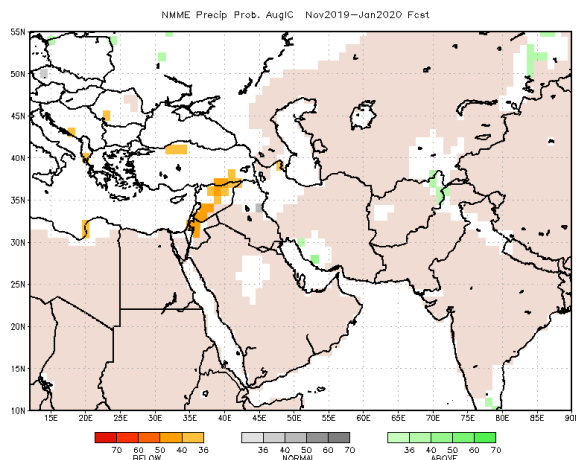
Sep - Nov 2019



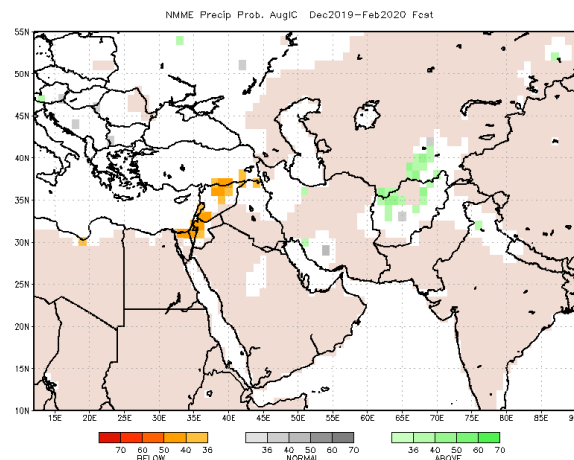
Oct - Dec 2019



Nov 2019 - Jan 2020



Dec 2019 - Feb 2020



Individual model forecasts can be found here:
<http://www.cpc.ncep.noaa.gov/products/international/nmme/nmme.shtml>

Rainfall Guidance, South Asia: North American Multi-Model Ensemble (NMME)

Precipitation Probability Forecasts, (01 – 08 August 2019 IC)

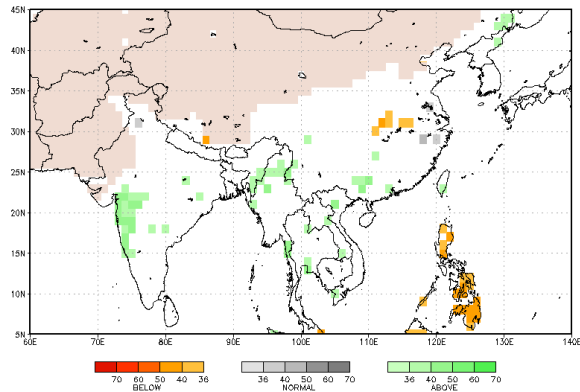
Sand shade indicates indicate dry climatological mask. White areas show where no one class is dominant: either all terciles are under 38%, or both A and B are over 38%

(http://www.cpc.ncep.noaa.gov/products/NMME/NMME_PROB_descr.html).

The forecasts call for a slight tilt in the odds to favor above-average rainfall over local areas in South Asia during Sep – Nov 2019.

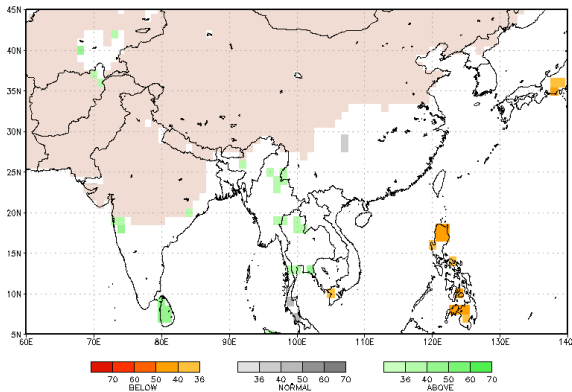
Sep - Nov 2019

NMME Precip Prob. Aug1C Sep2019–Nov2019 Fcst Sand color: Sep–Nov DryClim Mask



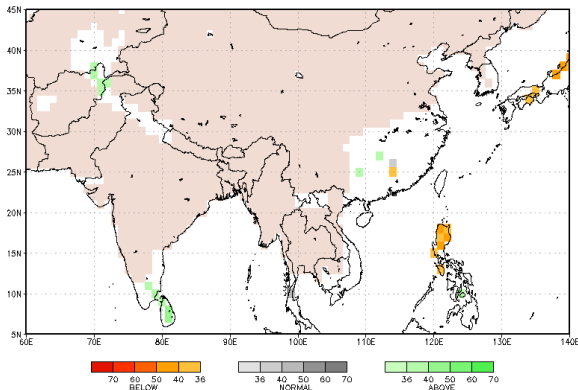
Oct - Dec 2019

NMME Precip Prob. Aug1C Oct2019–Dec2019 Fcst Sand color: Oct–Dec DryClim Mask



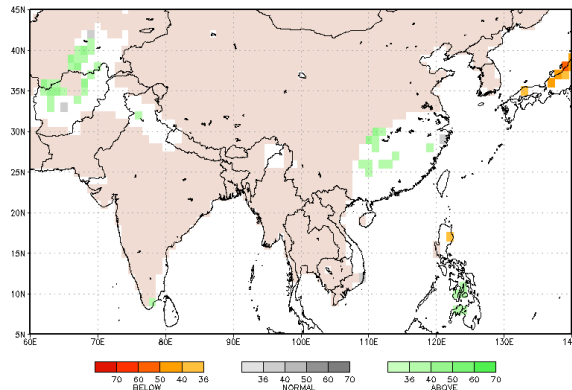
Nov 2019 - Jan 2020

NMME Precip Prob. Aug1C Nov2019–Jan2020 Fcst Sand color: Nov–Jan DryClim Mask



Dec 2019 - Feb 2020

NMME Precip Prob. Aug1C Dec2019–Feb2020 Fcst Sand color: Dec–Feb DryClim Mask

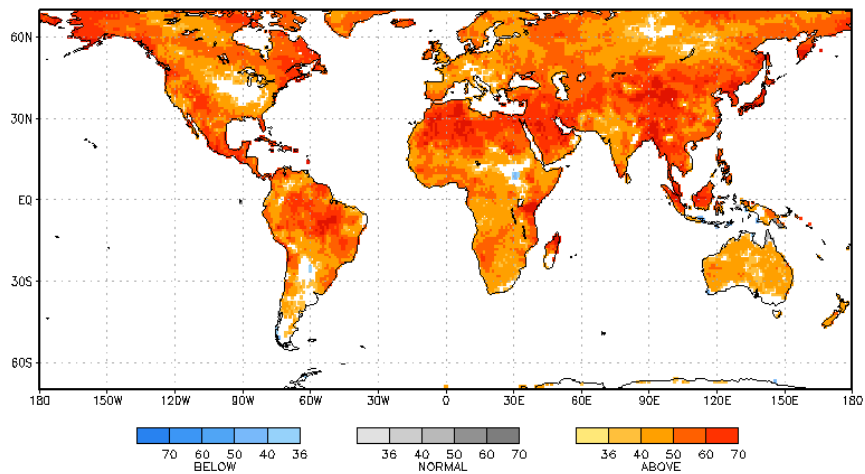


Individual model forecasts can be found here:
<http://www.cpc.ncep.noaa.gov/products/international/nmme/nmme.shtml>

2m Temperature Guidance, Global: North American Multi-Model Ensemble (NMME), Temperature Probability Forecasts, (01 – 08 August 2019 IC)

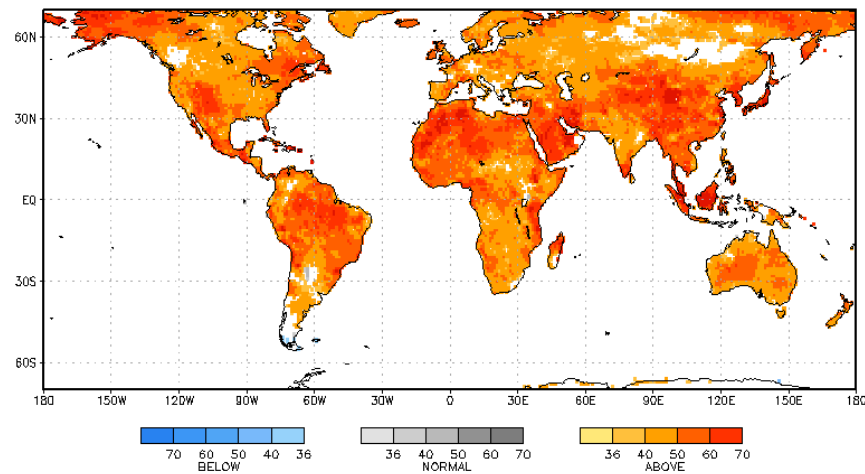
Sep - Nov 2019

NMME 2m Air Temp Prob. AugIC Sep2019–Nov2019 Fcst

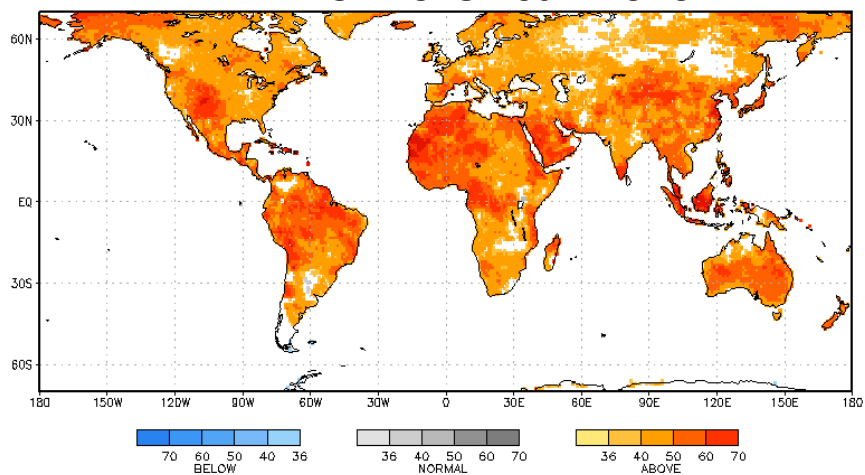


Oct - Dec 2019

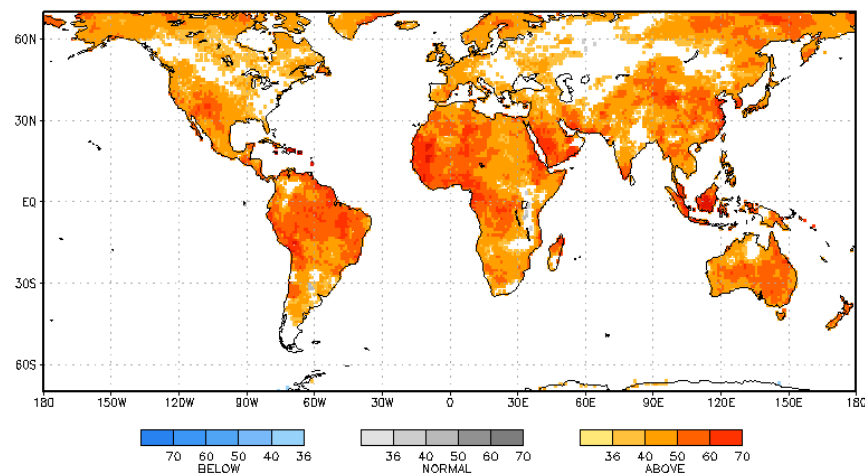
NMME 2m Air Temp Prob. AugIC Oct2019–Dec2019 Fcst



Nov 2019 - Jan 2020



Dec 2019 - Feb 2020



The forecasts call for moderate to high tilt in the odds to favor mostly above-average temperature.

Individual model forecasts can be found here: <http://www.cpc.ncep.noaa.gov/products/international/nmme/nmme.shtml>