

**FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA**  
**ETHIOPIAN METEOROLOGICAL INSTITUTE**  
**METEOROLOGICAL DATA AND CLIMATOLOGY LEAD EXECUTIVE**  
**REMOTE SENSING AND CLIMATOLOGICAL DESK**  
**SEASONAL CLIMATE BULLETIN FOR KIREMT 2025**

*Some Applications of  
Climate Information*



**Disaster Management**



**Water Resources  
Management**



**Environment & Health**



**Transport**



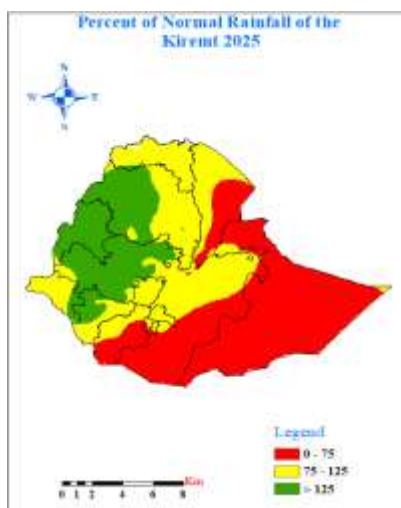
**Recreation & Tourism**

**HIGHLIGHTS**

Kiremt is normally the main wet season for the rain-benefiting areas of western, central, northwestern, and southwestern Ethiopia. The climate during this season is characterized by cool temperatures and frequent rainfall. Seasonal rainfall totals often exceed 1250 mm across much of the Kiremt rain-benefiting regions, with the highest amounts occurring in western, central, and northwestern Ethiopia. (fig 3.2.1).

During kiremt 2025, days remained hot over Southeast, northeastern, and western parts of Ethiopia (fig.3.2.2). In particular, extreme maximum temperature values exceeded 40.0 °C over Gewane, Metehara (NMSA), Awash Arba, Chifra, Aysha, Metema, Dire Dawa, Dalifagi, Elidar, Semera, Awash Arba, Aysha, Metehara (NMSA), Dalifagi, Elidar, Semera, (NMSA), Abaya, Semera, Elidar, Aysha, and Gewane. the extreme minimum temperature values were as low as 5, 4, 4.8, 3.5, 5, 5, 2.8, 3, 5, 5, 3.4, 4, and 4.2 in°C over Alemketema, Ambamaria, Bui, Alemketema, Ambamariam, Sholagebaya, Ambamariam, Alemketema, Bui, Sholagebaya, Ambamariam, Alemketema, and D/Tabor on Jun 21<sup>st</sup>, Jun 16<sup>th</sup>, Jun 4<sup>th</sup>, Jun 8<sup>th</sup>, Jun 24<sup>th</sup>, Jun 18<sup>th</sup>, Jun 22<sup>nd</sup>, Jun 11<sup>th</sup>, Jun 31<sup>st</sup>, Jun 30<sup>th</sup>, Jun 18<sup>th</sup>, Jun 8<sup>th</sup>, and Ju19<sup>th</sup> respectively (Table 3.1.2).

In general, the seasonal rainfall amount of Kiremt 2025 was below normal over southern and eastern Afar, southern Oromia, south eastern SNNP and most of Somalia regions. During Kermi normal rainfall condition was experienced over most of Tigre center land eastern Amhara, central and eastern Oromia most of Gamble and north and western Afar and central parts of SNNP. Finally, above-normal rainfall conditions prevailed over most of Benishangul-Gumuz, eastern Gambela, western and northwestern Amhara, western-central Oromia, and some pocket areas of SNNP.” (fig.3.2.5).



**Percent of Normal Rainfall of the Kiremt 2025**

## Foreword

This climate bulletin is prepared and disseminated by the Ethiopian Meteorological Institute (EMI). It is aimed at providing climatological information to different services of the community involved in various socio-economic activities.

The information contained in the bulletin is believed to assist planners, decision-makers, and the community at large by providing details of the climatic conditions of the nation in each period.

This bulletin differs from the other real-time and near real-time bulletins issued by the Agency, which for their input depend only on meteorological stations equipped with single side band radio for data transmission. Though this bulletin is not real-time, published with a delay of some months, the information contained in this bulletin is based on data coming from a much larger number of meteorological stations. Moreover, the information contained in this bulletin is not sector-specific and a wide range of users can benefit from it.

The Institute disseminates monthly, seasonal, and annual climatological bulletins in which all-necessary climatological information and significant climatic anomalies are highlighted.

We have a strong belief that various socio-economic activities related to planning disaster mitigation, water resources management, construction, environmental protection, transportation, recreation, tourism, and others will benefit most by the careful and continuous use of this bulletin. Meanwhile, your comments and constructive suggestions are highly appreciated to make the objectives of this bulletin successful.

Director General EMI  
P.O. Box 1090  
Tel: 011-661 57 79/011-551 22 99  
Fax: 011-6625292/011-551 70 66  
E-mail [nmsa@ethionet.et](mailto:nmsa@ethionet.et)  
Ababa

## 1. Introduction

### 1.1. General

This climate bulletin contains a summary of climatic conditions that prevailed over the country during Kiremt 2025. **Kiremt** is the main rainy season that covers the period from **June to September**. The Kiremt rainfall covers most parts of the country except for some parts of the south and southeast of Ethiopia. Cold and moist conditions mostly characterize the climate of the season. Generally, the rainfall of this season is very important for the growth of Meher crops.

## 2. Synoptic Situation

### 2.1 Surface

The Mascarene High, with a mean central pressure above 1020 hPa, was centered at approximately 25°S, 20°. The next mean central pressure above 1020 hPa was centered around 35°S, 60°E. The following month August High, with a mean central pressure above 1020hPa, was centered around 30°S, 75°E. Finally, in the last month of Kiremt, the Mascarene high, with a mean central pressure value of above 1020hPa, was centered at about 33°S, 76°E. During Jun 2025 The St. Helena high, with a mean central pressure value above 1018 hPa, was centered at approximately 26°S, 10°E. In the next month of the season, July The St. Helena high, with a mean central pressure value of above 1020hPa, was centered at about 32°S, 5°W.°, and the next month's The St. Helena high, with a mean central pressure value of above 1020hPa, was centered at about 28°S, 8°.° and finally, the last month of the Kiremt 2025 season The St. Helena high, with a mean central pressure value above 1020hPa, was centered at about 30°S, 10°W. the Azores' high During Jun 2025, with The Azores High, with a mean central pressure of 1018 hPa, was centered at approximately 37°N, 18°W, and in the next month of the season, July 2025 The Azores high, with a mean central pressure value of 1020hPa, was centered at about 38°N, 30°W. and in the following month Azores high, with a mean central pressure value of

1020hPa, was centered at about 39°N, 15°W. and finally, during the last month of kiremt 2025 season The Azores high, with a mean central pressure value of 1018hPa, was centered at about 37°N, 8°W .

### 2.2 Lower Troposphere (850 hPa Vector Wind)

During the beginning months Jun during kiremt 2025 Easterly flow with below 4 – 16 m/s mean vector wind flow originating from the Arabian Sea and the Indian Ocean., and next month Easterly flow with below 0 – 12 m/s mean vector wind flow was originated from the Mediterranean Sea and the Indian Ocean. Then the month of August Easterly flow with below 0 – 12 m/s mean vector wind flow was originated from the Mediterranean Sea and the Indian Ocean. Last month strong cross-equatorial and northeasterly flow of below 0-12 m/s was observed over the northern and western Indian Ocean, and southeasterly, northeasterly, and easterly flow was dominant over the Arabian Peninsula

### 2.2 Middle Troposphere (500 hPa Geopotential Height).

When analyzing the Geopotential height from the Climate Diagnostics Bulletin in Jun 2025, Cross-equatorial and southeastern flow of above 3 to 9 m/s was observed over the northern and western Indian Ocean, Arabian Sea, and the adjoining areas of the, Horn of Africa. In the month of July Cross-equatorial and southeastern flow of above 3 to 9 m/s was observed over the northern and western Indian Ocean, Arabian Sea, and the adjoining areas of the Horn of Africa., the following month. Subsequently, in August 2024, a Cross-equatorial and southeastern flow of above 3 to 9 m/s was observed over the northern and western Indian Ocean, Arabian Sea, and the adjoining areas of the Horn of Africa. in September the Geopotential height from the Climate Diagnostics Bulletin in September 2024, the fluctuation of 500-hPa Geo- -potential height values over central and eastern Africa was 3 to 12 pm .

## 2.4 Upper Troposphere (200 hPa wind vector).

Upper Troposphere (200 hPa Vector Wind) Ethiopia, the kiremt season from Jun 2025 to September 2024 when we examine the speed and location in the northern hemisphere from Climate Diagnostics Bulletin the 200 hPa vector wind during the season the starting month of Jun 2025. The westerly wind, associated with the Subtropical westerly jet, had 0- 30 m/s and strengthened further, while the upper-level easterly flow, associated with the tropical easterly jet, weakened further. In the month of August, the westerly wind, associated with the Subtropical westerly jet, had 0- 30 m/s and strengthened further, while the upper-level easterly flow, associated with the tropical easterly jet, weakened further, finally in the month of September Equatorially stronger easterly-westerly winds 0- 30 m/s were dominating in most of the Horn of Africa. The subtropical easterly jet had weakened further, while the upper-level westerly flow, associated with the tropical westerly jet, weakened further.

**Reference: -Climate Diagnostics Bulletins published during the year 2025.**

## 3. Tropical Highlights – June-September 2025

During June 2025, sea surface temperatures (SSTs) were near-average across much of the equatorial Pacific. The latest monthly Niño indices were  $+0.6^{\circ}\text{C}$  for the Niño 1+2 region and  $0.0^{\circ}\text{C}$  for the Niño 3.4 region. The depth of the oceanic thermocline, measured by the depth of the  $20^{\circ}\text{C}$  isotherm, was slightly below-average across the east-central equatorial Pacific.

In July 2025, sea surface temperatures (SSTs) were near normal across much of the equatorial Pacific. The latest monthly Niño indices were  $+0.5^{\circ}\text{C}$  for the Niño 1+2 region and  $-0.1^{\circ}\text{C}$  for the Niño 3.4 region. The oceanic thermocline depth, measured by the

During August 2025, sea surface temperatures (SSTs) were below average across much of the equatorial Pacific. The latest monthly Niño indices were  $+0.2^{\circ}\text{C}$  for the Niño 1+2 region and  $-0.3^{\circ}\text{C}$  for the Niño 3.4 region. The depth of the oceanic thermocline (measured by the depth of the  $20^{\circ}\text{C}$  isotherm) was below average

across the central and eastern equatorial Pacific. The corresponding sub-surface temperatures were  $1-3^{\circ}\text{C}$  below average in the eastern equatorial Pacific.

During September 2025, sea surface temperatures (SSTs) were below average across the central and eastern equatorial Pacific. The latest monthly Niño indices were  $-0.2^{\circ}\text{C}$  for the Niño 1+2 region and  $-0.4^{\circ}\text{C}$  for the Niño 3.4 region. The depth of the oceanic thermocline (measured by the depth of the  $20^{\circ}\text{C}$  isotherm) was below-average across the central and eastern equatorial Pacific. Corresponding sub-surface temperatures were  $1-3^{\circ}\text{C}$  below average in the eastern equatorial Pacific.

## Weather

### 4.1 Temperature

During kiremt 2025, days remained hot over Southeast, northeastern, and western parts of Ethiopia (fig.4.2.2). In particular, extreme maximum temperature values exceeded  $40.0^{\circ}\text{C}$  over Gewane, Metehara (NMSA), Awash Arba, Chifra, Aysha, Metema, Dire Dawa, Dalifagi, Elidar, Semera, Awash Arba, Aysha, Metehara (NMSA), Dalifagi, Elidar, Semera, (NMSA), Abaya, Semera, Elidar, Aysha, and Gewane.

the extreme maximum temperature values had about 45, 42.8, 42.5, 42.5, 42.4, 40.2, 40, 45.8, 45, 42.5, 41.5, 40.4, 40, 45.8, 42.4, 43.4, 41.6, 40, and 40 in  $^{\circ}\text{C}$  on the Jun 11<sup>th</sup>, Jun 1<sup>st</sup>, Jun 21<sup>st</sup>, Jun 22<sup>nd</sup>, Jun 9<sup>th</sup>, Jun 7<sup>th</sup>, Jun 11<sup>th</sup>, Jun 5<sup>th</sup>, Jun 6<sup>th</sup>, July 1<sup>st</sup>, July 1<sup>st</sup>, Jul 1<sup>st</sup>, July 1<sup>st</sup>, July 1<sup>st</sup>, July 10<sup>th</sup>, Aug.3<sup>rd</sup>, Sep 15<sup>th</sup>, Sep 15<sup>th</sup>, Sep 17<sup>th</sup>, and Sep 16<sup>th</sup>, respectively (table 4.1.1). Hence, the extreme minimum temperature values were as low as 5, 4, 4.8, 3.5, 5, 5, 2.8, 3, 5, 5, 3.4, 4, and 4.2 in  $^{\circ}\text{C}$  over Alemketema, Ambamaria, Bui, Alemketema, Ambamariam, Sholagebaya, Ambamariam, Alemketema, Bui, Sholagebaya, Ambamariam, Alemketema, and D/Tabor on Jun 21<sup>st</sup>, Jun 16<sup>th</sup>, Jun 4<sup>th</sup>, Jun 8<sup>th</sup>, Jun 24<sup>th</sup>, Jun 18<sup>th</sup>, Jun 22<sup>nd</sup>, Jun 11<sup>th</sup>, Jun 31<sup>st</sup>, Jun 30<sup>th</sup>, Jun 18<sup>th</sup>, Jun 8<sup>th</sup>, and Jul 19<sup>th</sup> respectively (Table 4.1.2). The temperature anomaly showed a negative departure over most parts of the Somali Region and some pocket areas of other regions across

the country. In contrast, positive departures were observed over most parts of all regions, except the Somali Region, where positive departures occurred only in some localized areas during Kiremt (Table 4.1.1).

**Table 4.1.1 Stations with extreme maximum Temperature values of greater than 40°C during Kiremt 2025.**

Name	Value	Date	Month
Gewane	45	11	Jun
Metehara (NMSA)	42.8	1	Jun
Awash Arba	42.5	21	Jun
Chifra	42.5	22	Jun
Aysha	42	9	Jun
Metema	41.8	7	Jun
Dire Dawa	40.2	1	Jun
Dalifagi	40	5	Jun
Elidar	45.8	6	Jun
Semera	45	1	July
Awash Arba	42.5	1	July
Aysha	41.5	1	July
Metehara (NMSA)	40.4	1	July
Dalifagi	40	1	July
Elidar	45.8	10	July
Semera	42.4	3	Aug.
Semera	43.4	15	Sep
Elidar	41.6	15	Sep
Aysha	40	17	Sep
Gewane	40	16	Sep

**Table 4.1.2 Stations with Extreme Minimum Temperature values less than 5°C during Kiremt 2025.**

Name	Value	Date	Month
Alemketema	5	21	Jun
Ambamaria	4	16	Jun
Bui	4.8	4	Jun
Alemketema	3.5	8	July
Ambamariam	5	24	July
Sholagebaya	5	18	July
Ambamariam	2.8	22	Aug
Alemketema	3	11	Aug
Bui	5	31	Aug
Sholagebaya	5	30	Aug
Ambamariam	3.4	18	Sep
Alemketema	4	8	Sep
D/Tabor	4.2	19	Sep

## 4.2. Rainfall

Kiremt is normally the main wet season for the rain-benefiting areas of western, central, northwestern, and southwestern Ethiopia. The climate during this season is characterized by cool temperatures and frequent rainfall. Seasonal rainfall totals often exceed 1250 mm across much of the Kiremt rain-benefiting regions, with the highest amounts occurring in western, central, and northwestern Ethiopia. The seasonal total rainfall during Kiremt 2025 exceeded 1250 mm over Amhara, most parts of the Oromia Region, and some parts of SNNPR. (fig 4.2.1).

During kiremit 2025 heavy falls in 24 hours are greater than or equal to 80 mm, during Kiremt 2025 about 127, 101, 84.9, 78, 167.6, 105.2, 92, 85.7, 81, 80.6, 79.4, and 86 in mm over, Gambella, Limugenet, Nazreth, Awash Arba, Nekemte, Kachise, Dilla, Ejaji, Motta, Debark, Nura-Era, Gundomeskel were reported on July 24<sup>th</sup>, July 7<sup>th</sup>, July, 31<sup>st</sup>, July 31<sup>st</sup>, Aug 6<sup>th</sup>, Aug 3<sup>rd</sup>, Aug 7<sup>th</sup>, Aug 27<sup>th</sup>, Aug 12<sup>th</sup>, Aug 11<sup>th</sup>, Aug 18<sup>th</sup>, Aug 29<sup>th</sup> during Kiremit 2025 (table 4.2.1).

In general, the seasonal rainfall amount of Kiremt 2025 was below normal over southern and eastern Afar, southern Oromia, south eastern SNNP and most of Somalia regions. During Kiremt normal rainfall condition was experienced over most of Tigre center land eastern Amhara, central and eastern Oromia most of Gambela and north and western Afar and central parts of SNNP. Finally, above-normal rainfall conditions prevailed over most of Benishangul-Gumuz, eastern Gambela, western and northwestern Amhara, western-central Oromia, and some pocket areas of SNNP.” (fig.4.2.5).

During Kiremt 2025, rainfall was wetter than the previous Kiremt season over central Tigray, most of Gambela and Benishangul Gumuz, eastern Somali Region, eastern and southeastern Afar, central and western Oromia, and most parts of SNNP. On the other hand, drier-than-last Kiremt conditions were observed over western Tigray, northern and western Afar, western Somali Region, eastern Oromia, central and southern Amhara, and

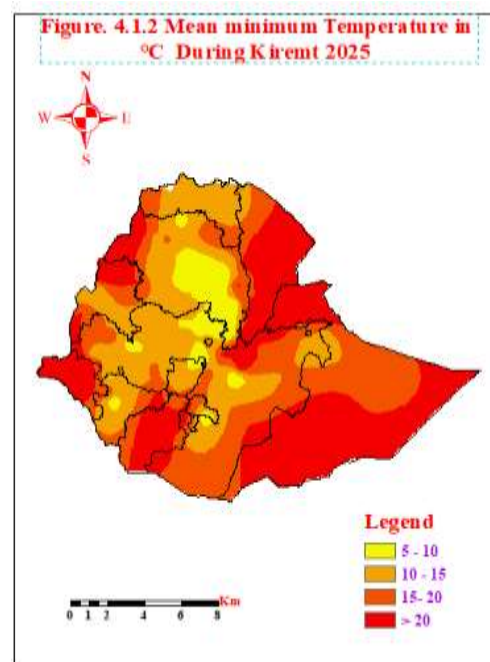
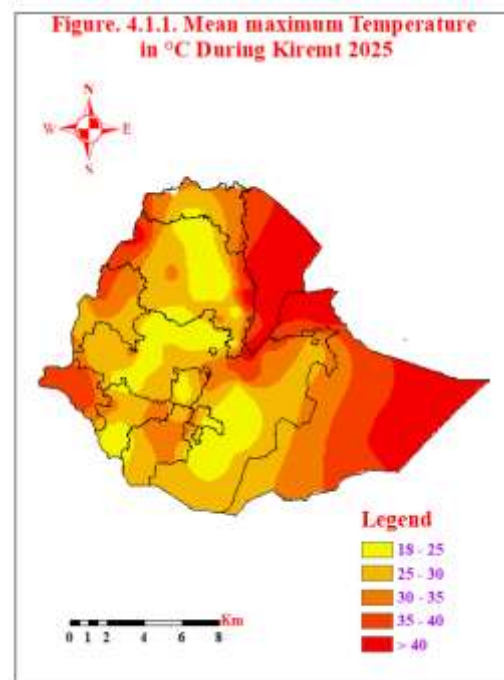
some pocket areas of SNNP and Benishangul Gumuz.

**Table 4.2.1. Station(s) with more than or equal to 80mm of rainfall in 24 hours during Kiremt 2025.**

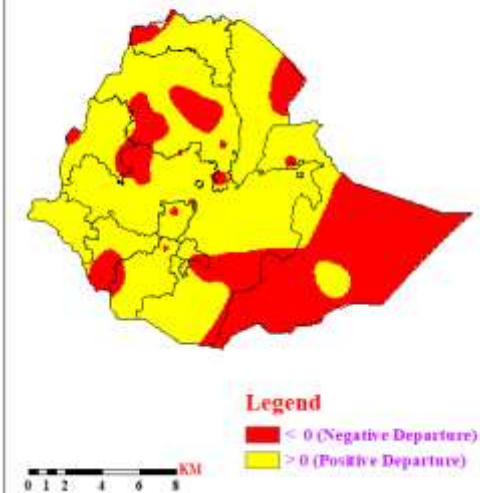
Name	Value	Date	Month
Gambella	127	24	July
Limugenet	101	7	July
Nazreth	84.9	31	July
Awash Arba	78	31	July
Nekemte	167.6	6	Aug
Kachise	105.2	3	Aug
Dilla	92	7	Aug
Ejaji	85.7	27	Aug
Motta	81	12	Aug
Debark	80.6	11	Aug
Nura-Era	79.4	18	Aug
Gundomeskel	86	29	Sep

**Table 3.2.2. Kiremt 2025 Total rainfall Amount Exceeding 1250 mm.**

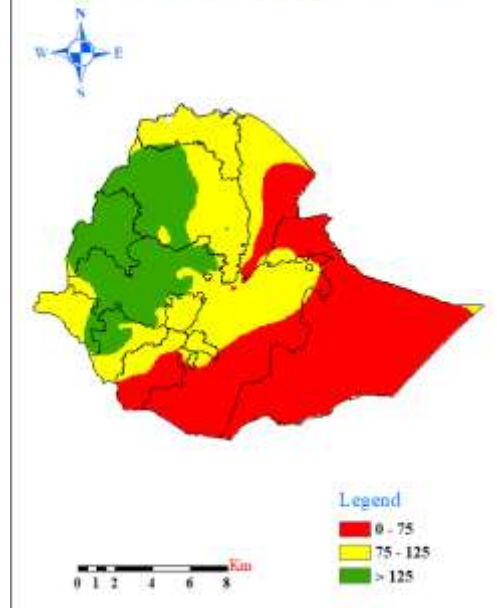
Name	Value
Kachise	1260.3
Aira	1360.5
Aman	1372.1
D/Tabor	1374.6
Bahir Dar Met	1381.1
Gidaayana	1398.4
Chewka	1468.1
Bullen	1486
Gimbi	1493.4
Gatira	1543.43
Arejo	1694.6
Nekemte	1815.5



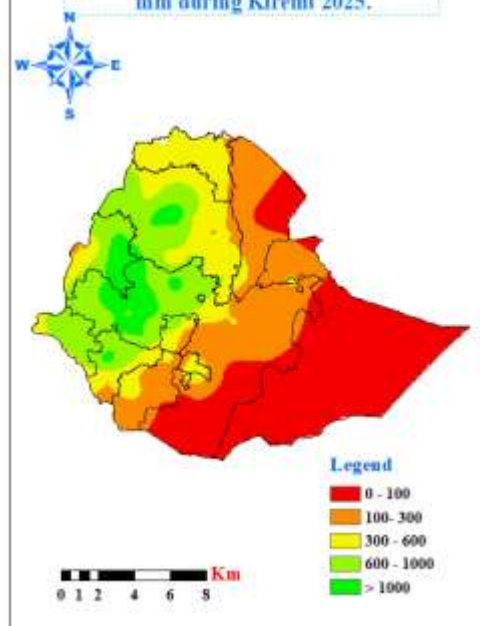
**Fig 4.1.3. Seasonal temperature of Kiremt 2025 minus seasonal LTM of Kiremt.**



**Fig:4.2.2,Percent of Normal Rainfall of the Kiremt 2025**



**Figure. 4.2.1. Seasonal Total Rainfall in mm during Kiremt 2025.**



**Figure 4.2.3 Kiremt 2025 rainfall minus Kiremt 2024 rainfall**

