Climate Prediction Center's Central Asia Hazards Outlook
For USAID / FEWS-NET
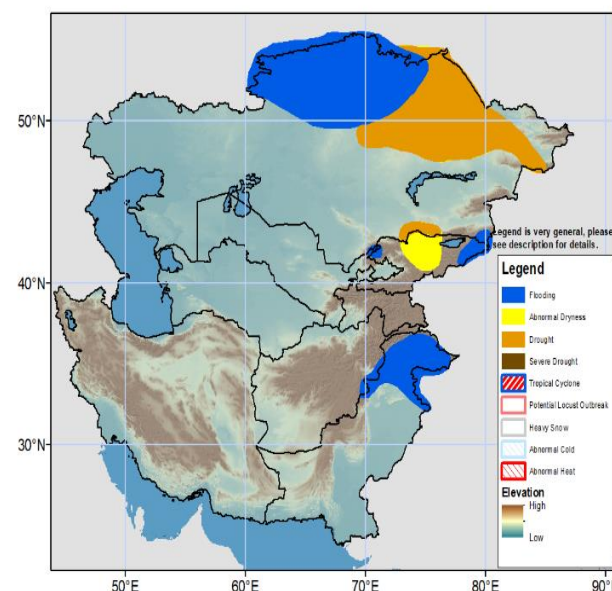# 31 August – 06 September 2023

Temperature:

Weekly average maximum temperatures were above average (2 to 4ºC) across northeast, eastern and eastern Karaganda regions of Kazakhstan, western-central Pakistan, and southeast region of Afghanistan during the period 22Aug – 28Aug 2023, with warmest anomalies around 4 to 6 ºC in the Abai and east Kazakhstan provinces of Kazakhstan. In contrast, weekly average maximum temperatures were below average around -4 to -2 ºC in the west Kazakhstan, Aktobe and Kostanay provinces of Kazakhstan, central Kyrgyzstan, central and eastern Tajikistan, and northeast regions of Afghanistan. Weekly average maximum temperatures were observed around 40 to 45ºC in Farah, Nimroz and Hilmand provinces of Afghanistan. Weekly average minimum temperatures were above average around 2 to 4 ºC across central, eastern and southeast regions of Kazakhstan, eastern regions of Uzbekistan and Turkmenistan, and many parts of north, west and south regions of Afghanistan.

The GEFS model forecasts below normal weekly mean maximum temperature (-6 to -1ºC) across Aktobe, Kostanay, northern, central and southern region of Kazakhstan, Uzbekistan, Turkmenistan, and north and west parts of Afghanistan during the period 31Aug – 06Sep 2023, with coldest anomalies around -6 to -4 in Aktobe, Kostanay, Akmola, Ulytau, Turkistan and western and central Karaganda provinces of Kazakhstan. In contrast, above normal maximum temperatures are forecasted in eastern regions of Kazakhstan, Kyrgyzstan and Tajikistan, central and northern Pakistan, and east, central, southeast and southern parts of Afghanistan. Weekly average maximum temperatures are forecasted around 15 to 25 ºC in many parts of Kazakhstan, with warmest temperature around 35 to 40 ºC in west and southern parts of Afghanistan. The GEFS model is forecasted below normal daily maximum temperature around -10 to -4 ºC in starting few days across Aktobe, Kostanay, Ulytau, Akmola, Karaganda, Turkistan, and Kyzylorda regions of Kazakhstan where daily maximum temperature is forecasted around 10 to 25 ºC in those regions.

Precipitation:

Heavy rainfall has triggered flash flood in Vahdat, Rudaki, Dushanbe, Hisor, Varzob, Rasht, Sangvor and Tajikabad districts of Tajikistan on 27 August, 2023 resulting in 13 fatalities and widespread infrastructures damages, according to report. Moderate to heavy precipitation was observed across Akmola, northern, southern and in for eastern regions of Kazakhstan, northern and southern Kyrgyzstan, western and eastern Tajikistan, central and northern Pakistan, and eastern parts of Afghanistan during the period 22Aug – 28Aug, 2023. Light to moderate precipitation fell in western and central Kazakhstan, western Turkmenistan, and central Tajikistan. The multiple rainfall estimates of 30-day precipitation depicts improved moisture across eastern Kostanay and western parts of Akmola and north Kazakhstan provinces of Kazakhstan. Therefore, the current abnormal dryness hazard has been removed from those regions.

The GEFS weekly ensembles mean forecasts moderate to heavy precipitation across Kostanay, Akmola, north Kazakhstan, northern Karaganda, Almaty, Jetisu, and east Kazakhstan provinces of Kazakhstan, northern, eastern and southwest Kyrgyzstan, central and northern Pakistan, and eastern Afghanistan during the period 31Aug – 06Sep, 2023. Light to moderate precipitation is forecasted across northeast and southeast Kazakhstan and in for eastern Tajikistan. A flooding polygon is placed in Kostanay, north Kazakhstan and Akmola provinces of Kazakhstan, northern and southwest region of Kyrgyzstan, northern Pakistan, and Kunar, Nangarhar, Paktya and Khost provinces of Afghanistan.