

2010-2011 Winter Season Assessment of Turkey

December

In December-2010, the mean temperatures were above seasonal normal values in almost all country. Whereas the least minimum mean temperature was measured in Ardahan with -2,1°C and the highs monthly maximum mean temperature was measured in Alanya with 15,9 °C for December of 2010. Country wide mean temperature was 8,0 °C.

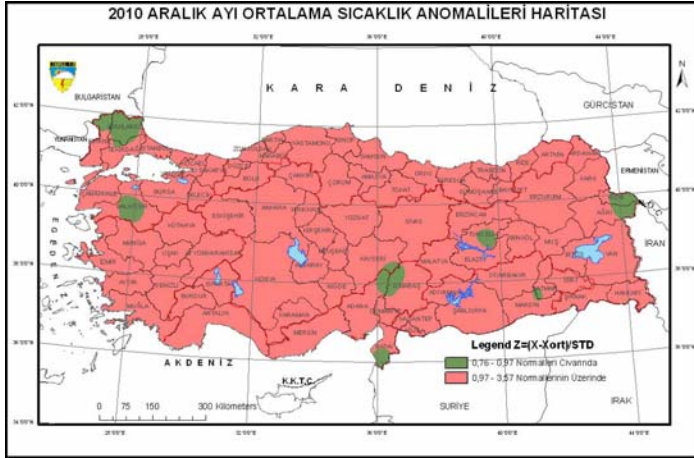


Figure-1: December-2010 mean temperature anomalies

In December 2010, Turkey had more precipitation amounts than long term normal. The average of monthly total precipitation was 107,3 mm over Turkey and this value was higher than long term normal for December (88,7 mm). Precipitation increased by 21.0% compared to normal. Especially, south coastal parts and central parts of Turkey had more precipitation than long term normal, but north-east, east and south-east parts of Turkey had less precipitation than long term normal.

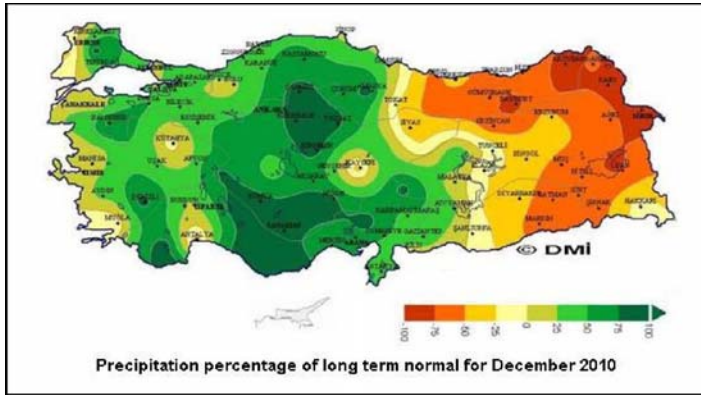


Figure-2: December-2010 precipitation anomalies

In December 2010, some series of severe events such as heavy thunderstorms and hail with strong wind, heavy rain and floods affected in particular west of Turkey. Although these events were seen fitfully through the month, particularly in 10/11 and 16/17 December, throughout the Mediterranean Sea and Aegean Sea coastal parts, Marmara Region, agricultural areas, residence places and humans were damaged. Some parts of country water floods were seen.

January

In January-2011, the mean temperatures were around seasonal normal values in most part of country, exception of some parts of country (Fig-3, red coloured places) where anomalies are a bit higher than normal values. The least monthly minimum mean temperature with -9,5°C in Yüksekova, the highest monthly maximum mean temperature with 13,3 °C in Alanya were recorded for January of 2011. Country wide mean temperature became 3,8 °C.

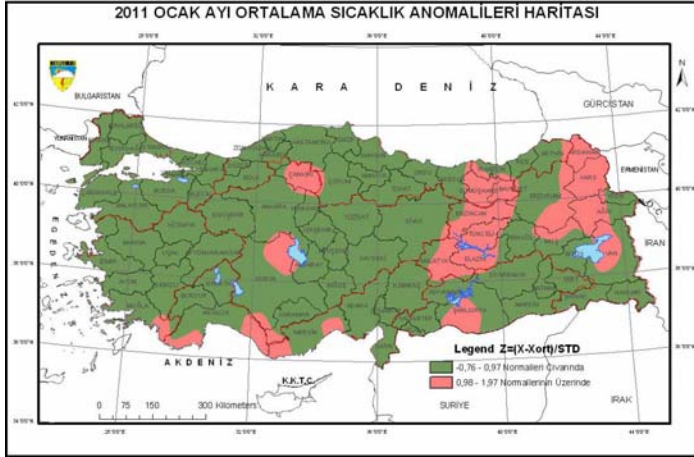


Figure-3: January-2011 mean temperature anomalies

In January 2011, Precipitation was lower than long term normal. The average of monthly total precipitation was 74,3 mm over Turkey and this amount was lower than long term normal for January (77.1 mm). Precipitation decreased by 3.5% compared to normal. Whereas central parts, south west parts and mid-north parts of the country had more precipitation than long term normal, generally the other parts had less precipitation than long term normal.

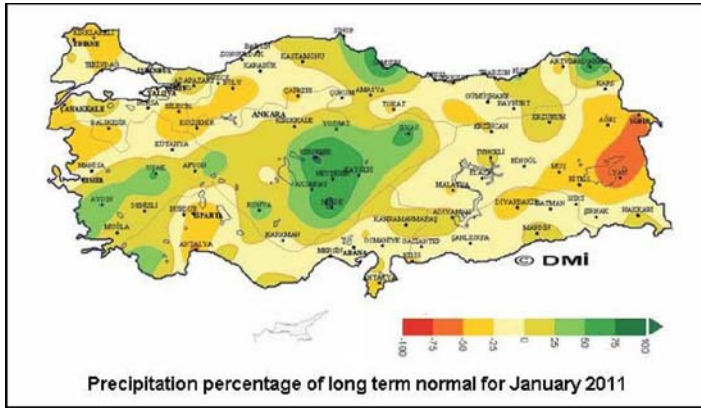


Figure-4: January-2011 precipitation anomalies

In the first part of January 2011, heavy rain and the floods it caused affected south-west part of Turkey. On 24/25 of December, in cost of the Mediterranean sea, event of hail occurred and damaged transportation system, greenhouses and residence places. In 28/29 January, effective snow precipitation blocking transportation and communication were recorded.

February

In February-2011, the mean temperatures were around normal values in big part of country, exception of some parts in the Mediterranean Sea and East Anatolia where anomalies are a bit higher than normal values. The least monthly minimum mean temperature with $-7,7^{\circ}\text{C}$ in Erzurum, the highest monthly maximum mean temperature with $13,4^{\circ}\text{C}$ in Şkenderun were recorded for February of 2011. Country wide mean temperature became $4,1^{\circ}\text{C}$.

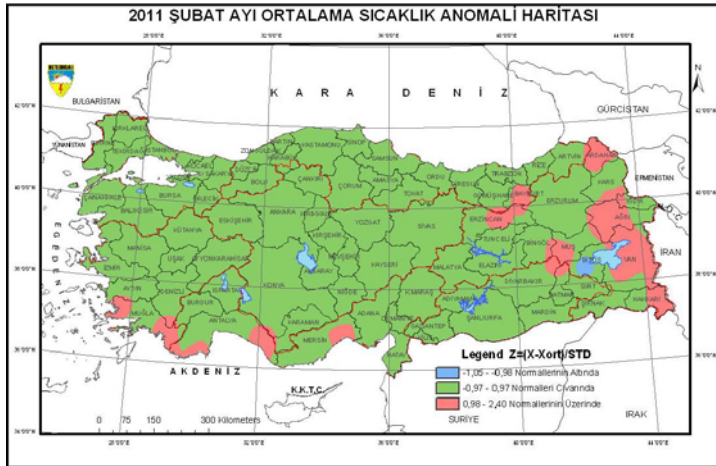


Figure-5: February 2011 mean temperature anomalies

In February 2011, precipitation was lower than long term normal, similarly in last January. The average of monthly total precipitation was 65,2 mm over Turkey and this amount was lower than long term normal for February (71,0 mm). Precipitation decreased by 8,1% compared to normal. Whereas north-east, south parts of central and east parts had more precipitation than long term normal, the other parts had less precipitation than long term normal.

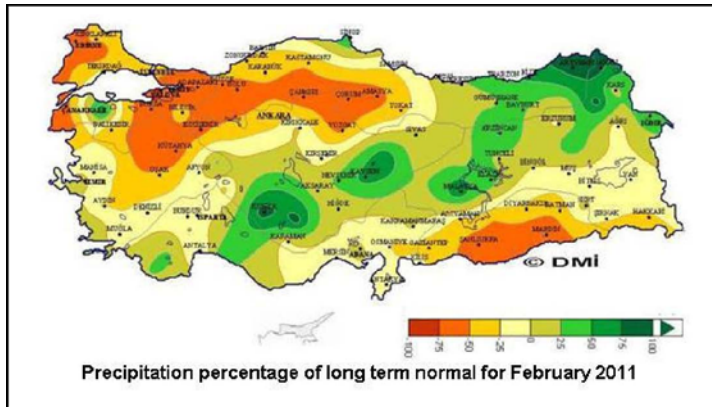


Figure-6: February-2011 precipitation anomalies

On 19 February, strong storm happened in center of Anatolia and coast side of the Mediterranean Sea. In addition, on the same date, small size tornado was recorded near Erdemli/Mersin located on coast side of the Mediterranean Sea. In the same area, hail was seen and damaged some agricultural fields on 24 of February.