



Severe Non-tornadic Winds in Turkey

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This study is the first attempt to analyze the underlying mechanisms of strong straight-line winds which occurs and causes loss of life and property in Turkey. For building a severe nontornadic wind dataset, Turkish State Meteorological Service (TSMS) FEVK observations from 1997 to 2011 are scanned for damaging nontornadic wind records. These records don't have a uniform format and generally each report is a separate pdf file. All the data (time, date, location, maximum wind speed, wind direction, destruction, number of people who have injured or died and the accompanying meteorological events etc.) about the strong straight-line winds are put together. The number of the gathered severe non-tornadic wind reports for this period is 1847. The geographical distributions of the strong straight-line winds are presented on a map. Diurnal and seasonal distributions are also analyzed. There were 6 fatalities and 73 injuries caused by non-tornadic winds during the period.