

***Interactive comment on “The Climatology,
precipitation types and atmospheric conditions of
extreme precipitation events in western Turkey”
by Bulent Oktay Akkoyunlu et al.***

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We thank the reviewer for her short comments for the article. According to your suggestions, we rearranged the manuscript

-Title: the second letter should initiate with lower case letter; “climatology” instead of “Climatology”. We changed title as “Atmospheric conditions during extreme precipitation events in western Turkey for the period 2006-2015”.

-Keywords are missed; they should be included at the end of the abstract. It is not necessary using keywords for this journal and we did not add any specific key words.

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-Threshold value of dT, (temperature differences between T850hPa and SST which is equal to 13 degrees Celcius) should be compared with other references. Comparisons have to be discussed at this part of the paper.

To indicate the importance of the SST-T850, we added some references explaining convective instability as follows, and later we discussed main findings with the previous study published by Baltaci et al. (2015): “It is shown from the previous studies that the primary factor for the formation and intensity of sea-effect precipitation is known to be the temperature difference between sea surface and the air at 850 hPa level (Holroyd, 1971; Niziol, 1987; Steenburgh et al., 2000). If the SST-T850 difference becomes higher, the chance of precipitation increases due to higher convective instability. At the later study. . .”

-The list of acronyms should be added at the first page of the paper. Done.

-At Figs. 2, 3, 4, 5, 6 and 7; North direction and scale should be added. We added North direction and scale bar for the first figure. To refrain from repetition, we did not use for the later figures.

-Cyclonic EPs bars should be in the same colour (blue) in two regions at Fig. 8. We thank the reviewer for her alert for the figure. However, to compare the different behaviors of EPs between Aegean and Marmara, we showed hourly distribution of EPs with different line colours in Fig. 10. and thus, we do not change the colour bars in Fig. 9.

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