

## ***Interactive comment on “Geostatistical assessment of summertime rainfall observations in Korea based on composite precipitation and satellite water vapor data” by Sojung Park et al.***

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General comments:

This manuscript assess the summertime rainfall characters in Korea via the geostatistical analyses on the composite precipitation and satellite water vapor data. Results show that the e-folding distance of precipitation ranges between 15 and 35 km while the e-folding time ranges between 1 and 2 h. The spatial autocorrelation has characteristic directionality. The results show that the current observational network with spation resolution of  $\sim 13$  km is difficult to capture the characteristic features of the localized heavy rainfall systems. It is also noted that the orographic effect is not assessed in this

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The manuscript is well organized and I suggest accept with minor revision.

Specific comments: 1)Page 2, line11-14, this sentence is too long. 2)Page 12, line 9: “Korea” should not be subject. 3)Page 27, in Figure9 caption, a simple description of the case will be better, same for Fig 10-11.

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