

# ***Interactive comment on “Uncertainties in calculating precipitation climatology in East Asia” by J. Kim and S. K. Park***

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We greatly appreciate the reviewer for careful reading and valuable comments. Please find our item-by-item responses to the reviewer’s comments below.

- (1) Line 3: “in-situ rain gauge observations” → “in-situ rain gauge observations and data assimilations”
- (2) Line 7: “multiple” → “two”
- (3) Line 74: “entire” → “entire year”
- (4) Line 87: “properties” → “property”

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- (5) Line 92: The multi-dataset ensemble was obtained by simple averaging of all datasets included in the analysis. The equal weighting is based on the fact that accuracy of individual datasets cannot be determined objectively, thus there is no ground to apply varying weights. This point will be addressed in the revised manuscript.
- (6) Line 96: “occurs” → “occur”
- (7) Line 98-100: Rephrased by removing “This is not a concern in this study.” (the first sentence).
- (8) Line 145: There is no established threshold SNR value to distinguish “good” from “bad”. However, we may use some subjective guidance to interpret the SNR values. If  $SNR < 1$ , the signal is smaller than noise, a clear case that the signal is not reliable.  $SNR > 5$  may indicate that the spread amongst the multiple datasets may be small enough so that we can take the multi-data ensemble as the representative value for the included datasets.
- (9) Line 190: “liner” → “linear”
- (10) Line 246: “It also suggests that remote sensing of precipitation will play important roles in monitoring precipitation over *these regions*.” → “It also suggests that remote sensing of precipitation will play important roles in monitoring precipitation over *these regions of sparse observations*.”

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 12, 7765, 2015.

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