

Reply

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We are pleased to note the comments by Drs. Sundararajan and Macklin on our recent paper. In essence, it supports our findings by extending the analysis to new experimental observations. In addition, it points out the sensitivity of the constants C_1 and C_2 in our Eqs. (1) and (2) to the local air stability, and the need for further study of this point.

The introductory paragraphs appear to imply incorrectly that the authors have found results that are contrary to ours. Further, the Izumi reference containing the experimental observations that they analyzed

is non-standard, and it would be reasonable to acknowledge this in their second sentence.

The authors refer to the advantage of using Eq. (1) alone in deriving heat flux, at two places in their Comment. If this advantage were substantial, then the KEYPS profile would be even more attractive since both U_* and H could be derived from wind speed observations alone. Eqs. (1) and (2) are interactive, and we believe that they should be used together to find the optimum combination of C_1 and C_2 as noted in our paper.