

## ***Interactive comment on “On Study of Two-Dimensional Lunar Scan for Advanced Technology Microwave Sounder Geometric Calibration” by Jun Zhou and Hu Yang***

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This is a very good question. As showed in Figure 1 of the manuscript, the lunar vector in this study is always pointing from the satellite center to the Moon center. By setting appropriate input parameters, this vector in ECI can be calculated through the function PLACE in NOVAS package. Please refer to Kaplan et al., 2011, page 40-43 for details. The  $\mathbf{l}_{ECI}$  appeared in Equation 4 is the lunar vector originating from satellite center, not from Earth center. The notation may lead to some ambiguity. We will clarify that in the revised version of the manuscript. Thank you very much for pointing out this.

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