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## ***Interactive comment on* “Modeling polarized solar radiation from ocean–atmosphere system for CLARREO inter-calibration applications” by W. Sun and C. Lukashin**

**Anonymous Referee #2**

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This article describes a rather novel technique to model polarized solar radiation using CLARREO, an instrument insensitive to polarization. I believe this article demonstrates what can be achieved with ingenious data processing. The paper is well-organized and the methods are described in great detail. I feel that the authors could better describe what is unique about this approach in the abstract and/or introduction. There are a number of very minor typos that can be corrected with another reading – these are obvious, like the missing "f" in "of" (17609;27). I only have some minor comments. 17586;6: suggests MODIS is polarization sensitive. 17587;3,4: also. 17590; 11: It's not clear what "true intensity" is. Do you mean "intensity"? 17590;18: same with "true

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radiance”

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Interactive comment on Atmos. Chem. Phys. Discuss., 13, 17585, 2013.

**ACPD**

13, C6210–C6211, 2013

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