Equation (13) was originally modified in accordance to one of the comments from the Anonymous Reviewer #2:

“***Equation 13****: I think τ=ln [IobsIS], based on Equation 7. Then Equation 13 misses a negative sign.* ‘’

Equation (13) is still perfectly valid up to the second last term where the minus sign is out of the square brackets. The positive sign between the logarithms in the last term is in fact a minus sign, once the square brackets of the second last term are removed. This can be easily fixed changing the plus sign in the last term of Eq.(13) and Eq.(15) to minus.

Please note that the change in sign reflects only an oversight in the formulation of the last term of the expression. The underlaying physical concept and validity of Eq.(13) is not compromised.