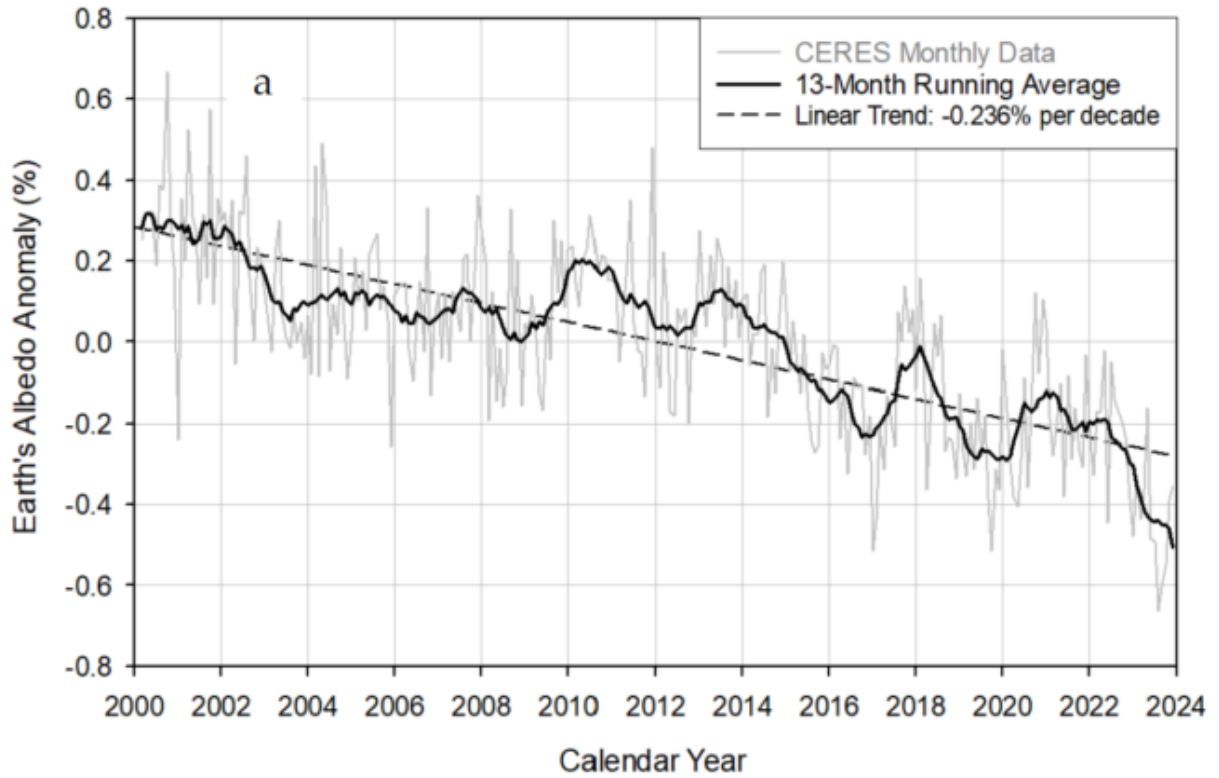


?1

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**Roles of Earth’s Albedo Variations and Top-of-the-Atmosphere Energy Imbalance in Recent Warming: New Insights from Satellite and Surface Observations**

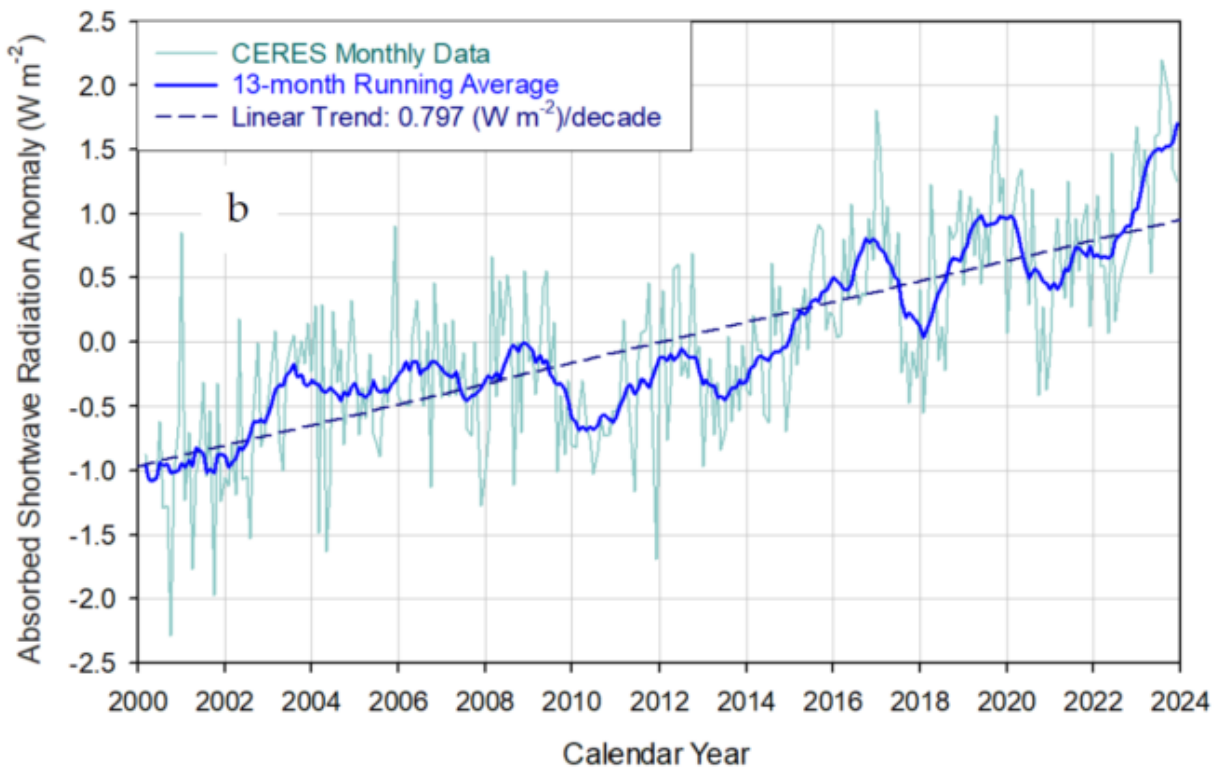
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?2

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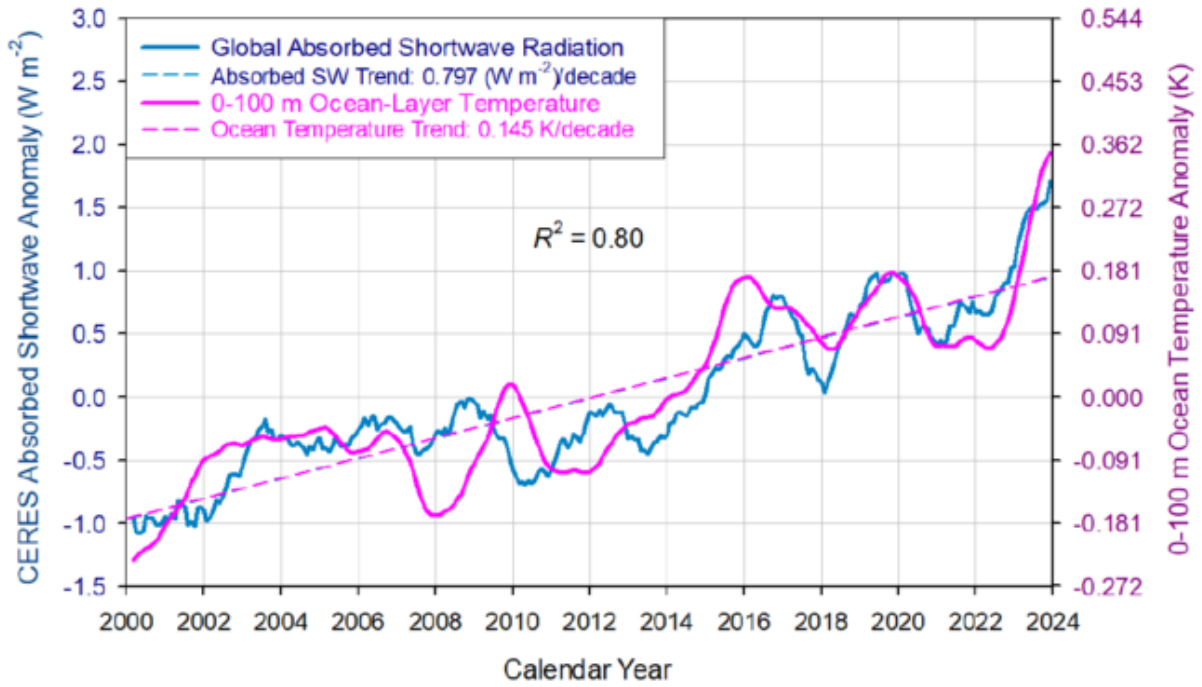
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ongwave????????????????????



?3

IPCC?6?????1750???2019?????????????????????2.72?????????????????2000????????????????????  
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?4

???5?????????????CO2?????????????????????????????  
?????????????????????????????CO2??????????????????

?5????????2024??????????????????????????????



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