Global Energy Policy Research | GEPR

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?? ?? · Tuesday, August 12th, 2025



NadyaPhoto/iStock

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??**A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate**??????

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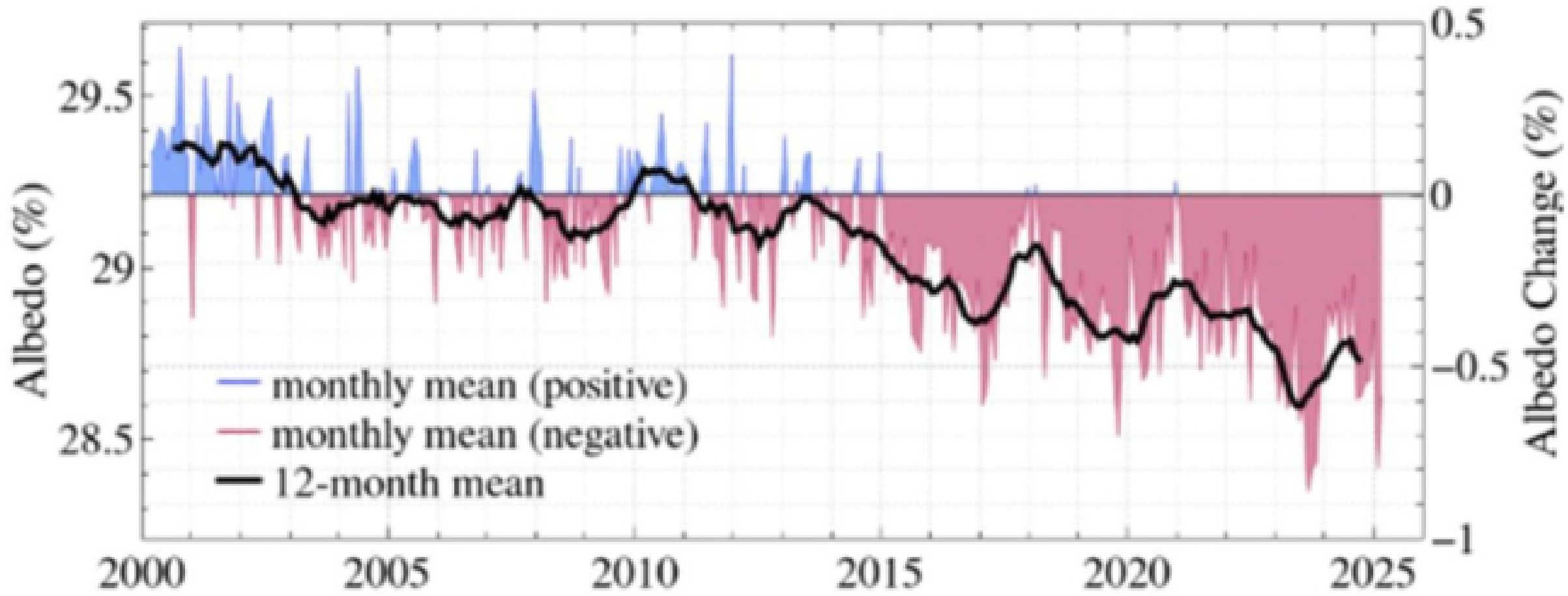
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1950???????????????????????????????????20?????????40?????????????????????????McLean et al., 2009; Tung and Zhou, 2013; Chylek et al., 2016; Scafetta, 2021??

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Hansen?Karecha?2025?

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Climatic Impact-driver Type	Climatic Impact-driver Category	Already Emerged in Historical Period
Heat and Cold	Mean air temperature	1
	Extreme heat	2
	Cold spell	4
	Frost	
Wet and Dry	Mean precipitation	
	River flood	
	Heavy precipitation and pluvial flood	
	Landslide	
	Aridity	
	Hydrological drought	
	Agricultural and ecological drought	
	Fire weather	
Wind	Mean wind speed	
	Severe wind storm	
	Tropical cyclone	
	Sand and dust storm	
Snow and Ice	Snow, glacier and ice sheet	
	Permafrost	
	Lake, river and sea ice	11
	Heavy snowfall and ice storm	
	Hail	
	Snow avalanche	
Coastal	Relative sea level	
	Coastal flood	
	Coastal erosion	
Open Ocean	Mean ocean temperature	
	Marine heatwave	
	Ocean acidity	
	Ocean salinity	13
	Dissolved oxygen	14
Other	Air pollution weather	
	Atmospheric CO_2 at surface	
	Radiation at surface	

High confidence of decrease | Medium confidence of decrease | Low confidence in direction of change | Medium confidence of increase | High confidence of increase

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??Ranasinghe, 2021??

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2021?????????2021?6??116????????107????????????????108????????103????????????????????Mass et al., 2024??

WWA??WWA, 2021; Philip et al., 2022??

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??Bercos-Hickey?2022??McKinnon?Simpson?2022??2023?????????????Fleischman, 2023???Fleischman, 2023, p. 49??

2021??????????100?????????9?????????????????????????WWA???

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