

NOAA Boulder

NOAA Boulder Teaching Resources: **4th Grade** Guide



Adjusting to Climate Extre	dent Activities Emes Story Map: Learn some of the ways arctic, ocean, and atmosphere Investigating Sea Level Sea Level Rise Viewer Investigating El Nino Beat the Uncertainty Game Instructions, Checklist, Booklet Weather Where I Live Weather in the World	<u>Ask a Scientist</u> : Bite Sized Science Tour the <u>Global Mc</u>	How do What ar What ca What ar Why is A <u>Tracking</u> <u>Atmosp</u> <u>Threats</u>	/ideos you study climate? e tree cores? an we learn from tree rin e greenhouse gases? Arctic ice melting? <u>a Greenhouse Gases</u> <u>heric Tomography Missi</u> in Motion boratory		
SOS Explorer Mobile				he Standards	NOAA Science	
Science on a Sphere Explorer Mobile is a free app from NOAA. Put it on a Chromebook or tablet <u>here</u> . PALEOMAP Observe continents shifting over 750 million years Temperature Anomaly See how the temperature on Earth has		Earth has changed over time.		Scientists can study the climate of the past.		
		• Four major earth systems interact.		• NOAA scientists study the interaction between the oceans, land, atmosphere, and vegetation.		
changed since 1880		• Energy and fuels that humans use are		NOAA scientists study the short term and long		
 Carbon Dioxide Concentration Look at CO₂ in the atmosphere Sea Surface Currents Watch changes in ocean temp and currents Vegetation See the changes of the plants on land due to the seasonal changes of Earth's temperature and sunlight Human Transportation See roads, shipping and plane routes 			derived from natural sources and their use affects the environment in multiple ways.		term impacts of burning fossil fuels.	
		process; humans cannot eli	 A variety of hazards result from natural process; humans cannot eliminate natural hazards but can reduce their impacts' effect. NOAA scientists research the impacts weather, changing oceans, greenhous and particulate matter in the atmosphere. 		reenhouse gases,	

Request a Virtual Visit with a NOAA Boulder Scientist <u>here</u>.

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