

African Meteorological Society

Learning Resources for Members of the Public with an interest in Weather and Climate

Language: AR (Arabic), EN (English), FR (French), PO (Portuguese), RU (Russian) or SP (Spanish)

Connectivity: Assessed as H (high), M (medium) or L (low) where H indicates that there a lot of high-resolution videos/ animations whereas L indicates fewer graphics or an offline option

Name/ title	Brief description	URL	Notes	Language	Connectivity
All topics					
Come Rain or Shine: Understanding the Weather	This Future Learn course explores some of the physical processes driving weather systems and includes practical activities and fieldwork. Try your hand at forecasting and have a go at interpreting weather maps. You'll also watch our educators carrying out simple but effective experiments including creating clouds and simulating hot air rising.	https://www.futurelearn.com/courses/come-rain-or-shine	Hosted by Future Learn this course is free with limited access but requires registration. Suggested length is 3 weeks with 4 hours per week. Certification can be provided on completion if you buy the course. Available to start anytime, but educators will be present at certain dates.	EN	M-H (some videos)

Metlink	<p>Hosted by the Royal Meteorological Society, this holds a large number of teaching resources on varying subjects connected to weather and climate.</p> <p>Mainly aimed at teachers but some of the topics are suitable for public use.</p>	https://metlink.org	Free to use, no registration required.	EN	L-M
Thought.co	ThoughtCo. looks at how the weather works by exploring the science behind daily forecasts, weather safety and climate change.	Weather and Climate (thoughtco.com)	<p>Click on the topic of interest and then navigate to the required resources.</p> <p>Free to use and no registration required.</p>	EN, ES FR however most of the articles and items are non translatable	L
Study.com	Study.com hosts a huge number of courses aimed at children, teachers and anyone interested. There is a vast range of subjects including a course on Weather and Climate.	Weather and Climate Course - Online Video Lessons Study.com	<p>Free to use but registration required.</p> <p>The course is comprehensive with a large number of short lessons (approximately 8 minutes)</p>	EN	M - H

NWS	<p>NWS Education offers a wealth of weather resources for educators, adults and children of all ages. You can explore science, safety, and citizen science programs.</p> <p>This is the US National Weather Service website and therefore has a US bias, but some material is relevant to the principles of weather and therefore applicable to the whole globe.</p> <p>Jet Stream is designed for anyone interested in learning about weather and weather safety.</p>	JetStream (weather.gov)	Free to use no registration. Many of the lessons and	EN	L-M
Atmosphere and fundamentals of meteorology					
Weather and Climate	<p>A course hosted on Study.com.</p> <p>13 chapters of self-paced learning, which cover many aspects of weather and climate</p>	Weather and Climate Course - Online Video Lessons Study.com	Requires registration. Free trial for 30 days	EN	M-H

Come Rain or Shine	<p>A course designed for the public by the University of Reading and the Royal Met Society. This is an introduction to understanding the physical processes behind the weather.</p> <p>Whilst this course is primarily designed for UK weather patterns, many of the physical processes apply to global weather including Africa.</p>	https://www.futurelearn.com/courses/come-rain-or-shine	<p>Hosted by Future Learn it is free with limited access but requires registration. Suggested length is 3 weeks with 4 hours per week. Certification can be provided on completion if you buy the course. Available to start anytime, but educators will be present at certain dates.</p>	EN	H
Metlink	<p>Hosted by the Royal Meteorological Society, this holds a number of teaching resources on varying subjects connected to weather and climate.</p> <p>Mainly aimed at teachers but some of the topics are suitable for public use.</p>	https://metlink.org	<p>Free to use, no registration required.</p>	EN	L-M

Thought.co	Aimed at US teachers and schoolchildren but has some short and simple explanations of basic principles e.g. Convection, cloud formation, air pressure and the inter-tropical convergence zone (ITCZ- a feature of African weather and climate)	Weather and Climate (thoughtco.com)	Free to use and no registration required.	EN, ES FR however most of the articles and items are non translatable	L
Climate and climate change					
The Essential Principles of Climate Literacy	Presents information that is deemed important for individuals and communities to know and understand about Earth's climate, impacts of climate change, and approaches to adaptation or mitigation. Principles in the guide can serve as discussion starters or launching points for scientific inquiry. The guide aims to promote greater <i>climate science literacy</i> by providing this educational framework of principles and concepts. The guide can also serve educators who teach climate science as a way to meet content standards in their science curricula.	https://www.climate.gov/teaching/climate	Free and no registration. Mainly text based, so can be easily downloaded	EN, ES	L

Planet Partners: Tackling the Climate Crisis	<p>A course to look at the impact of climate change, the research being done to tackle it, and what you can do to take meaningful action.</p> <p>The course was developed by the University of Reading and the Walker Institute and is suitable for anyone with an interest, although mainly aimed at 16-18 year olds.</p>	https://www.futurelearn.com/courses/tackling-climate-crisis	<p>A 2 week course hosted on Future Learn. 2 hours per week commitment. Free with limited access but requires registration. A digital certificate available if you buy the course.</p>	EN	M-H (some videos)
Office for Climate Education	<p>The site includes a range of general learning resources aimed at educating citizens about climate change.</p>	https://www.oce.global/en/ressources/grand-public	<p>Open access.</p>	EN, FR, DE, SP	H
Observations, including remote sensing					

Watching the Weather	<p>This free course, Watching the weather, describes how meteorological observations are made looking upwards from the surface of the Earth, looking downwards from satellites in space and from aircraft and balloons within the atmosphere. This international network of observations is vital for scientists and forecasters and the results impact on everyone's daily activities.</p> <p>Produced by Open Learn for the Open University it is aimed at introductory level.</p>	https://www.open.edu/openlearn/nature-environment/environmental-studies/watching-the-weather	Free course but requires registration. Downloadable so suitable for offline use. Suggested 10 hours to complete the course.	EN	M
African Climate/ Climatology/ Climate change in Africa					
Introduction to Climate Change	Developed by Ignou and hosted by Class Central, this course explains the science of climate change, including the impact of climate change on terrestrial and aquatic ecosystems.	Free Online Course: Introduction to Climate Change from Swayam Class Central	Free but requires registration.	EN	M-H
Climate Change	Developed by the Open University and hosted by Class Central this free course explores the basic science that underpins climate change and global warming	Free Online Course: Climate change from OpenLearn Class Central	Free but requires registration 18 hours of self-paced study.	EN	M-H
Urban - Impacts of weather & climate on African cities					

<p>Preparing for Climate Change in African Cities</p>	<p>This course provides the foundation for understanding cities' exposure and sensitivity to climate change, and how cities can manage these impacts in the face of growing uncertainty.</p>	<p>Free Online Course: Planning for Climate Change in African Cities from Coursera Class Central</p>	<p>Free but requires registration.</p>	<p>EN</p>	<p>M-H</p>
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