

African Meteorological Society

Learning Resources for Policy Makers

Language: AR (Arabic), EN (English), FR (French), DE (German), PO (Portuguese), NL (Dutch), 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
General meteorology					
ThoughtCo.	ThoughtCo. looks at how the weather works by exploring the science behind daily forecasts, weather safety and climate change.	https://www.thoughtco.com/weather-and-climate-4133550	Click on the topic of interest and then navigate to the required resources. Free to use and no registration required.	EN	L–M
Observing, nowcasting and forecasting African weather systems					
ASMET (African Satellite Meteorology Education and Training)	Free, self-paced online learning resources on the use of meteorological satellite images and products, including material on the transition to Meteosat Third Generation satellite.	https://asmet.africa/2022/	Registration/ enrolment is required for access to the resources.	EN, FR, SP	M
Sat 24	Real time satellite imagery of Africa, including satellite-based rainfall.	https://en.sat24.com/en/af	Open access	EN, NL, ES, FR, PT, DE	M

Basic Satellite Imagery Interpretation	Course consists of a set of tabs, each dealing with a different satellite product and each illustrated by a satellite image movie covering the whole of Africa.	https://www.meted.ucar.edu/education_training/lesson/1316#.X2C_fwgzYuU	Registration/ enrolment is required for access to the resources.	EN	H
Hydrology/ hydrometeorology/ flooding/ water resource management					
Flash Flood Guidance System (FFGS) Training	FFGS Training presents a collection of training resources selected by the FFGS Team to provide opportunities to learn about flash floods. The selection of resources is organised by topics related to the subject of Flash Floods	https://etrp.wmo.int/course/view.php?id=196	Includes links to other resources.	EN, FR, AR, O	H
Basic Hydrological Sciences	This course is designed to address the needs of non-hydrologists who work with hydrologic data, particularly in flood forecasting. The course provides an understanding of the complex interactions between the ground, waters and atmosphere. The topics presented include a variety of hydrologic forecast methods applicable to varied locations.	https://www.meted.ucar.edu/education_training/course/24	Not specific to Africa	EN	L
Climate change science					
Climate change	Explores the basic science that underpins climate change and global warming.	https://www.classcentral.com/course/openlearn-nature-environment-climate-change-95401	Can join free with limited access.	EN	M

Introduction to Climate Change	Explains the science of climate change, including the impact of climate change on terrestrial and aquatic ecosystems (e.g. threats of climate change on sectors like agriculture, livestock and natural resources).	https://www.classcentral.com/course/swayam-introduction-to-climate-change-58478	Need to enrol on the course, but can join free with limited access.	EN	M
What is Climate Change?	Explores how greenhouse gases cause the Earth to warm and why our recent warming is attributed to human activities, and considers the anticipated future temperature, precipitation, and sea level and engage with the consequences of these changes on our ecosystems, infrastructure, and communities.	https://www.classcentral.com/course/what-is-climate-change-22468	Need to enrol on the course, but can join free with limited access.	EN	M
UN:CC Learn	A collaborative initiative of 36 multilateral organizations working together to help build the knowledge and skills needed to take action on climate change. These include better climate literacy and other crucial skills to tackle this challenge.	https://www.uncclean.org/courses/?_sft_topic=climate-change	Registration/ enrolment is required for access to the resources.	EN, FR	M

UNESCO Climate Change Education	Education on sustainable development, through UNESCO's Global Action Programme on Education and Sustainable Development, in support of commitments under the Paris Agreement and UNFCCC Article 6 on education.	https://www.unesco.org/en/education/sustainable-development/climate-change	Open access.	EN, FR, GE, SP	M
Office for Climate Education	The site includes a range of general learning resources aimed at educating citizens about climate change.	https://www.oce.global/en/ressources/grand-public	Open access.	EN, FR, DE, SP	H
Climate Change: Science	Explores the science of climate change, including the difference between natural and human-induced change, climate as a system, how climate change is already being felt, and what the future might hold for our planet.	https://www.classcentral.com/course/climate-change-the-science-9735	Can join free with limited access.	EN	M
Global Warming I: The Science and Modelling of Climate Change	Describes the science of global warming and the forecast for humans' impact on Earth's climate by bringing insights from physics, chemistry, biology, earth and atmospheric sciences, and economics.	https://www.classcentral.com/course/global-warming-1151	Need to enrol on the course, but can join free with limited access.	EN	M
Causes of Climate Change	Provides the basis for understanding the underlying physical processes governing climate variations in the past, present and future.	https://www.classcentral.com/course/causes-of-climate-change-3713	Can join free with limited access.	EN	M

Tipping Points: Climate Change and Society	Explores the concept of tipping points from an interdisciplinary perspective, discovering their role in climate change and the future.	https://www.classcentral.com/course/tipping-points-climate-change-and-society-10580	Can join free with limited access.	EN	M
Science and Engineering of Climate Change	Introduces the science of climate change and the existing technologies to mitigate its effects.	https://www.classcentral.com/course/science-and-engineering-of-climate-change-56511	Can join free with limited access.	EN	M
Climate Change: The Science and Global Impact	Covers the basic scientific principles behind climate change and global warming and how to solve the broader environmental, societal and economic changes that climate change is bringing.	https://www.classcentral.com/course/edx-climate-change-the-science-and-global-impact-13863	Need to enrol on the course, but can join free with limited access.	EN	M
Climate Change: The Science	Master the basics of climate science so you can better understand the news, evaluate scientific evidence, and explain global warming to anyone.	https://www.classcentral.com/course/edx-climate-change-the-science-4001	Need to enrol on the course, but can join free with limited access.	EN	M
Climate change policy					
Reporting on Climate Change	BBC Climate Course for journalists in Africa.	https://bbcmiaaction.ilearn.org/course/view.php?id=242	Open access. Primarily aimed for journalists.	EN	M
Climate Change: Solutions	Explores solutions to the global climate change challenge, including mitigation, adaptation and geo-engineering.	https://www.classcentral.com/course/climate-change-the-solutions-9827	Can join free with limited access.	EN	M

Children and Climate Change	Presents how children and youth can be impacted by climate change, how their resilience to climate change can be strengthened, and how they can act on climate change.	https://www.classcentral.com/course/independent-children-and-climate-change-9091	Can join free with limited access.	EN	M
Climate change and Indigenous People and local communities	Considers the debates around climate change impacts on indigenous peoples and local communities (IPLC), the different impacts of climate change on IPLC, and the different strategies to incorporate indigenous peoples and local communities in climate change research and policy.	https://www.classcentral.com/course/climate-change-indigenous-communities-55273	Need to enrol on the course, but can join free with limited access.	EN	M
An Introduction to Climate Change and Human Rights	Addresses how human rights obligations require the international community to take more ambitious action to mitigate emissions, to support adaptation that benefits persons, groups and peoples in vulnerable situations, and to address loss and damage associated with the impacts of climate change.	https://www.classcentral.com/course/independent-an-introduction-to-climate-change-and-human-rights-58121	Need to enrol on the course, but can join free with limited access.	EN	M

Planning with Climate Change in Mind	Focuses on the climate impacts occurring and expected to occur across the United States with consideration of (a) impacts on water resources, transportation, energy, agriculture, forests, health, and coastal/marine resources and (b) how you can apply information about climate risks to motivate climate action in your household, in your community, or in your workplace.	https://www.classcentral.com/course/planning-with-climate-change-in-mind-22466	Need to enrol on the course, but can join free with limited access.	EN	M
How Do We Manage Climate Change?	Identifies the types of actions that can be pursued to address climate change and the technologies, programs, and policies associated with mitigation and adaptation.	https://www.classcentral.com/course/how-do-we-manage-climate-change-22467	Need to enrol on the course, but can join free with limited access.	EN	M
Tourism and Climate Change	Addresses the key challenges tourism faces in context of drastic climate change.	https://www.classcentral.com/course/edx-tourism-and-climate-change-19159	Can join free with limited access.	EN	M
Climate Change Mitigation in Developing Countries	Considers how one might lift societies out of poverty while also mitigating greenhouse gas emissions and explores the inherent complexity of developing country governments wanting to grow their economies in a climate friendly way.	https://www.classcentral.com/course/climate-change-mitigation-5054	Need to enrol on the course, but can join free with limited access.	EN	M

Climate Adaptation in Africa	Explores why climate change adaptation is important in the African context.	https://www.classcentral.com/course/climate-adaptation-11521	Need to enrol on the course, but can join free with limited access.	EN	M
Climate Change Science and Negotiations	Explores solutions to mitigate the effects of the global greenhouse gas emissions causing temperature rise, and how to apply these solutions in different national contexts improvements.	https://www.classcentral.com/course/edx-climate-change-science-and-negotiations-2484	Need to enrol on the course, but can join free with limited access.	EN	M
Climate Action: Solutions for a Changing Planet	Considers how to turn commitments to reducing the effects of climate change into action.	https://www.classcentral.com/course/edx-climate-action-solutions-for-a-changing-planet-9747	Need to enrol on the course, but can join free with limited access.	EN	M
Water: Addressing the Global Crisis	Focuses on the key role water plays in the achievement of the Sustainable Development Goals, not least SDG 6, about sustainable water and sanitation for all and explains the global water crisis through linkages between water, environment, and societal development.	https://www.classcentral.com/course/edx-water-addressing-the-global-crisis-12626	Need to enrol on the course, but can join free with limited access.	EN	M
ESG and Climate Change	Provides an understanding of public and private environmental governance, the financial risks that unmitigated climate change is creating, climate disclosures, and innovative ways that business leaders can view and implement climate solutions.	https://www.classcentral.com/course/esg-and-climate-change-59398	Need to enrol on the course, but can join free with limited access.	EN	M

Making Sense of Climate Science Denial	Learn to make sense of the science and to respond to climate change denial.	https://www.classcentral.com/course/edx-making-sense-of-climate-science-denial-2650	Need to enrol on the course, but can join free with limited access.	EN	M
Climate justice for the next generation	Considers global warming and climate change in terms of social justice, human rights and intergenerational equality and emphasises how children and those least responsible for climate change are the ones who suffer its most significant consequences.	https://www.classcentral.com/course/openlearn-education-development-climate-justice-t-95402	Need to enrol on the course, but can join free with limited access.	EN	M
Impacts of weather & climate on African agriculture					
Climate Change and Resilience in Food Systems	Learn new research-led strategies designed to mitigate the effects of climate change on agriculture and food systems.	https://www.classcentral.com/course/climate-change-and-resilience-in-food-systems-33497	Need to enrol on the course, but can join free with limited access.	EN	M
Feeding a Hungry Planet: Agriculture, Nutrition and Sustainability	Addresses the questions: what can I do to make food consumption and production more sustainable?	https://www.classcentral.com/course/edx-feeding-a-hungry-planet-agriculture-nutrition-and-sustainability-8498	Need to enrol on the course, but can join free with limited access.	EN	M
Impacts of climate change on African cities					

Planning for Climate Change in African Cities	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.	https://www.classcentral.com/course/planning-climate-change-african-cities-9146	Registration/ enrolment is required for access to the resources.	EN	M-H
Cities and Climate Change	Focuses on climate change in urban areas, covering how cities are affected by climate change, how they contribute to it, as well as how they plan for it.	https://www.classcentral.com/course/independent-cities-and-climate-change-9304	Can join free with limited access.	EN	M
Health and wellbeing Impacts of climate change					
Climate Change and Health	Provides state-of-the art evidence of the link between climate change and the health of populations.	https://www.classcentral.com/course/iversity-climate-change-and-health-5148	Can join free with limited access.	EN	M
The Health Effects of Climate Change	Explains how climate change impacts people around the globe, but also how it directly affects you and your life.	https://www.classcentral.com/course/edx-the-health-effects-of-climate-change-12106	Can join free with limited access.	EN	M