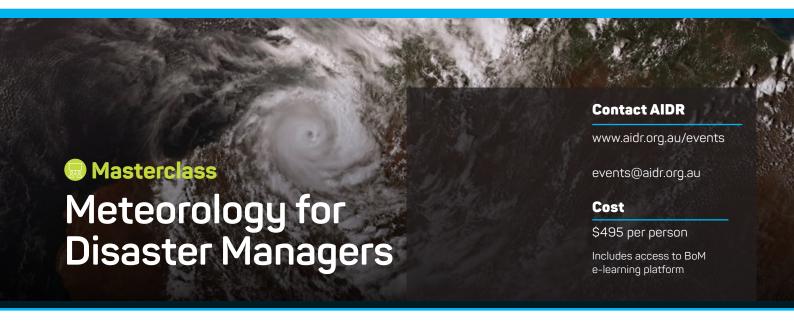


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## Masterclass content and learning outcomes

Atmospheric Characteristics	Explain the role of the sun in driving the weather and seasons
Our restless globe	Outline the vertical structure and properties of the atmosphere
Global Circulation	Describe how the atmosphere redistributes heat around the globe
From the tropics to the poles	• Explain how dry and wet areas of the planet are related to the global circulation and relate this to yo local climate
Synoptic-scale Systems Highs, lows, fronts and troughs	• Forecast general wind direction, wind strength, rainfall and temperature conditions using the synopt weather chart
	List the major surface and upper weather systems that influence your local area
Watching the Weather	Describe how wind, temperature and rain are observed
Understanding today's weather to predict tomorrow's	Interpret satellite imagery using the Bureau's Himawari-8 viewer
	Interpret radar imagery and outline the limitations of radar technology
Understanding Rainfall Forecasts	Develop an understanding of rainfall probabilities
	Develop an awareness of how rainfall is forecast
	Clarify understanding of rainfall amount and probability
Floods	Explain the difference between flooding types
	Outline the Bureau's flood forecast and warning services
	Explain the difference between a flood watch and warning
	Describe key flood forecasting uncertainties
	Use environmental information to make your own flood forecast
	Navigate the Bureau's flood products and warning network
Thunderstorms and Severe Weather	Describe how thunderstorms develop and evolve
	Explain thunderstorm ingredients, structures and types
	List threats posed by Severe Thunderstorms
	Outline thunderstorm forecast and warning services
	Outline Severe Weather phenomena and warning thresholds
	Explain the difference between severe weather warnings and severe thunderstorm warnings
Fire Weather and Heatwaves	Describe weather conditions conducive to fires
	Outline the Bureau's fire weather services
	Recognise typical weather patterns that lead to increased fire danger
	Define a heatwave and describe associated weather patterns
Making Better Weather Decisions	• Develop techniques to optimally use forecasts, warnings and observations provided by the Bureau to enhance decision making