

 **Masterclass**

Meteorology for Disaster Managers

Contact AIDR

www.aidr.org.au/events

events@aidr.org.au

Cost

\$495 per person

Includes access to BoM
e-learning platform

Masterclass content and learning outcomes

Atmospheric Characteristics <i>Our restless globe</i>	<ul style="list-style-type: none"> Explain the role of the sun in driving the weather and seasons Outline the vertical structure and properties of the atmosphere
Global Circulation <i>From the tropics to the poles</i>	<ul style="list-style-type: none"> Describe how the atmosphere redistributes heat around the globe Explain how dry and wet areas of the planet are related to the global circulation and relate this to your local climate
Synoptic-scale Systems <i>Highs, lows, fronts and troughs</i>	<ul style="list-style-type: none"> Forecast general wind direction, wind strength, rainfall and temperature conditions using the synoptic weather chart List the major surface and upper weather systems that influence your local area
Watching the Weather <i>Understanding today's weather to predict tomorrow's</i>	<ul style="list-style-type: none"> Describe how wind, temperature and rain are observed Interpret satellite imagery using the Bureau's Himawari-8 viewer Interpret radar imagery and outline the limitations of radar technology
Understanding Rainfall Forecasts	<ul style="list-style-type: none"> Develop an understanding of rainfall probabilities Develop an awareness of how rainfall is forecast Clarify understanding of rainfall amount and probability
Floods	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Develop techniques to optimally use forecasts, warnings and observations provided by the Bureau to enhance decision making