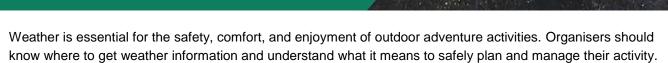


Weather guide for land-based outdoor adventure activities



This guide provides tips on how to get weather information, and a quick guide to weather hazards and warnings relevant to land-based outdoor adventure activities (such as bushwalking and camping).

Getting weather information for your activity

1. Pick your date

Find out about the climate of your location. While weather can vary significantly from one year to the next, consider which months are typically hot, cold, wet, dry, windy, sunny or cloudy. Visit www.bom.gov.au/climate for maps of average conditions and more detailed climate data by location.

Plan for all conditions year-round.

2. Know where to get weather information before your activity

- Familiarise yourself with the Bureau of Meteorology website (www.bom.gov.au). You can also download the BOM Weather app.
- Know where to find weather warnings (www.bom.gov.au/australia/warnings) and understand the type and severity of weather phenomena covered by these warnings (www.bom.gov.au/weather-services).
- Learn how to use MetEye (<u>www.bom.gov.au/meteye</u>). MetEye provides detailed (three-hourly) weather
 forecasts for all of Australia for seven days ahead. Search for postcodes, towns, or use latitude and
 longitude for remote locations.
- If you will need weather observations during your activity, identify your closest Automatic Weather Station
 and/or rain radar. You can find this via your state/territory page (e.g. www.bom.gov.au/tas/observations)
 or the BOM Weather app.

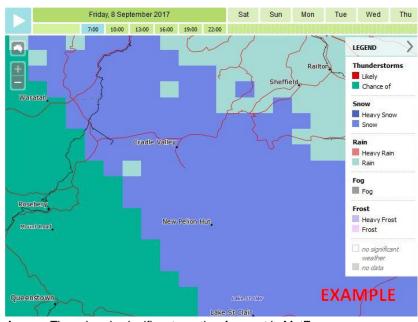


Image: Three-hourly significant weather forecast in MetEye

3. Start checking the forecast (up to one week before)

- Check the weather forecast and review it regularly as your activity date approaches. Forecasts are
 updated at least twice per day, becoming more accurate as the date approaches. Remember that
 some 'patchy' weather phenomena (such as thunderstorms and rain) are localised and it can be more
 difficult to predict their timing and location than widespread phenomena (such as heatwaves).
- Watch for mentions of weather hazards (such as thunderstorms or strong winds) in forecasts and warnings. While forecasts are available up to seven days before, warnings can be issued days or hours ahead when there is greater certainty about the areas impacted.
- Watch for particularly cold or hot temperatures in the forecast. The Bureau has a Heatwave Service between November and March, showing when heatwave conditions are expected: www.bom.gov.au/australia/heatwave
- Be aware of river conditions and the potential for flooding: www.bom.gov.au/australia/flood
- Get the latest information from your state or territory Fire Service including fire danger ratings, total fire bans, and hazard reduction burns.
- Check the UV Index in your weather forecast and plan to use sun protection when it's 3 and above.

Forecast for the rest of Friday



Sun protection recommended from 11:00 am to 2:00 pm, UV Index predicted to reach 3 [Moderate]

Image: Weather forecast showing potential hazards

4. Keep an eye on the weather during your activity

- Check the Bureau's website or BOM Weather app, listen to the radio, and pay attention to weather information from emergency services and park managers.
- Pay special attention to any weather, flood, or other warnings issued, and take action as needed.
- Watch for approaching weather (e.g. cumulonimbus, or thunderstorm, clouds). Conditions can
 deteriorate quickly, particularly in the mountains and other locations where you can't see the
 horizon.
- Consider the 'apparent' (feels like) temperature as an indicator of the thermal comfort of participants.

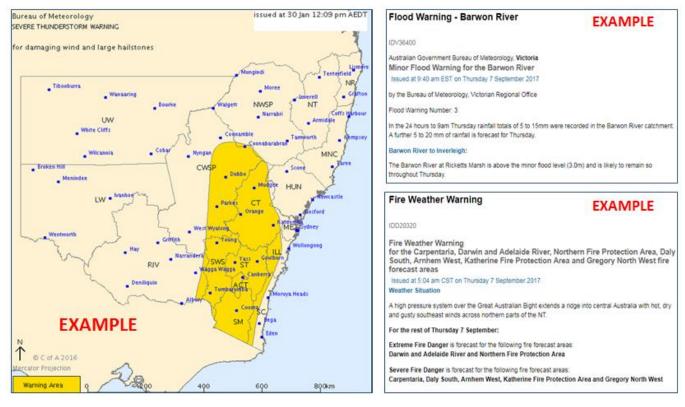
Quick guide: Weather hazards

Hazard	Potential impacts
Cold temperatures	Hypothermia, particularly when combined with wind (wind chill). Ice may form on tracks, roads, and equipment, making their use difficult.
Fire weather and bushfires	Injury or death from the fire or its radiant heat. Respiratory problems from smoke. Destruction of infrastructure and equipment (such as huts and tents).
Fog and low cloud	Reduced visibility of reference points makes navigation difficult. White-out conditions and disorientation can occur when combined with a snowy landscape.
Heavy rain and flooding	Water levels in creeks, rivers, and canyons can rise quickly. Areas may become inaccessible, or equipment washed away. Slippery terrain increases accident risk.
Heavy snow or blizzards	Reduced visibility of paths, signs, and hazards makes navigation difficult. Increased risk of hypothermia. Deeper snow is physically taxing to walk through.
High temperatures and heatwaves	Heat exhaustion and dehydration, especially when undertaking physical activity. High night-time temperatures makes it difficult to recover from heat exhaustion.
Strong wind and gusts	Falling trees or limbs may cause injury or death. Damage to infrastructure and equipment. Progress may be slowed when walking against the wind. Increased wind chill.
Thunderstorms	Injury or death from being struck by lightning (particularly at high points and exposed places); debris, injury, or damage from wind, large hailstones, or flash flooding.
Tropical cyclones	Injury or death from destructive winds, heavy rainfall, and storm surge. Widespread disruption and damage to infrastructure.
UV radiation	Sunburn, and longer-term eye damage, premature ageing, and skin cancers.

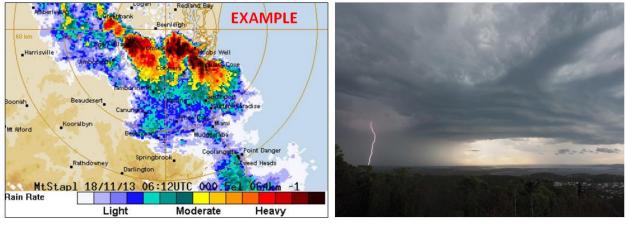
Quick guide: National weather warnings relevant to land-based activities

Warning type	Issued for
Severe Thunderstorm Warning	Severe thunderstorms that produce: large hail (2cm in diameter or larger), damaging wind gusts (generally wind gusts exceeding 90 km/h), heavy rainfall, and/or tornadoes.
Severe Weather Warning	Sustained winds of gale force (63 km/h) or more, wind gusts of 90 km/h or more (100 km/h or more in Tasmania), very heavy rain, abnormally high tides, unusually large surf waves, and/or widespread blizzards.
Flood Watch / Warning	Early advice of potential riverine flooding (Watch) and when flooding is occurring or expected to occur (Warning).
Fire Weather Warning	Weather conditions conducive to the spread of dangerous bushfires.
Tropical Cyclone Watch / Warning	A tropical cyclone affecting or expected to affect communities within 48 hours (Watch) or 24 hours (Warning).

Depending on your activity and location, other hazards and warnings may also be relevant.



Images: Severe Thunderstorm Warning (left); Flood Warning (upper right); Fire Weather Warning (lower right)



Images: Radar image showing heavy rain and thunderstorms in orange, red and black (left); thunderstorms in action (right)

Key points to remember

- 1. Outdoor adventure activities are very susceptible to the weather—use caution all year round.
- 2. Always check the weather forecast before starting your activity.
- 3. Keep watch on the weather while you're out, as conditions can deteriorate quickly.

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