# Understanding weather and the weather forecast

Week 21

**Thunderstorms** 

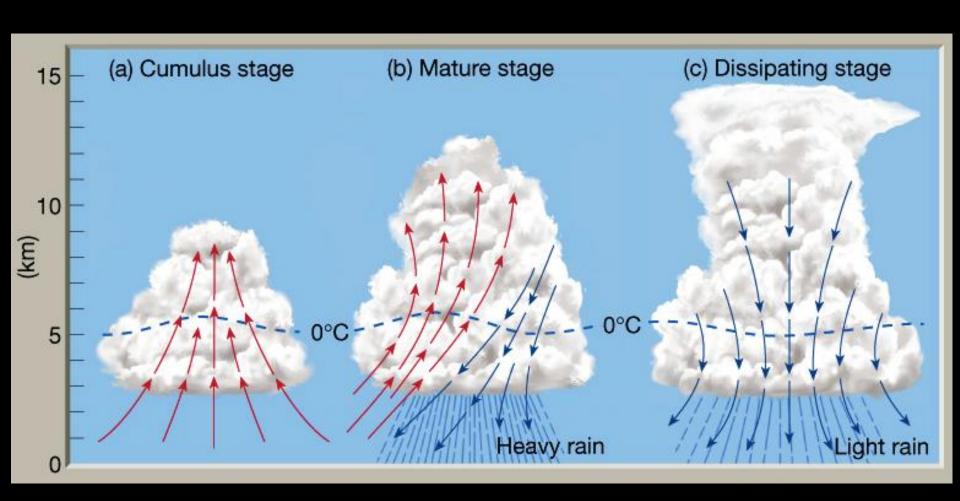
Terry Hart

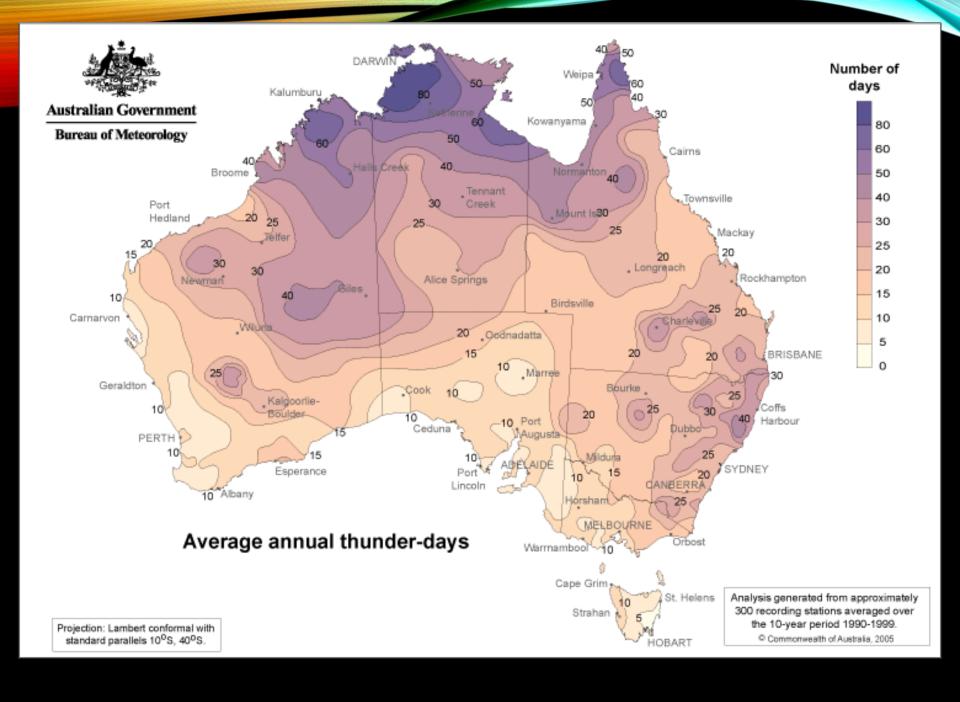


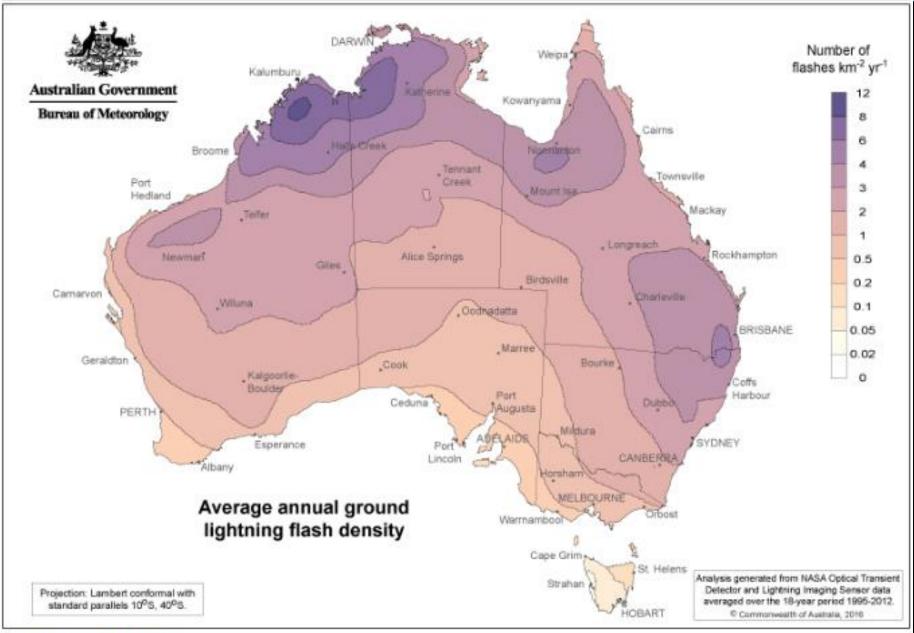


Weather wise videos
Thunderstorms <a href="https://www.youtube.com/watch?v=Z7c4bZwvkrs">https://www.youtube.com/watch?v=Z7c4bZwvkrs</a>

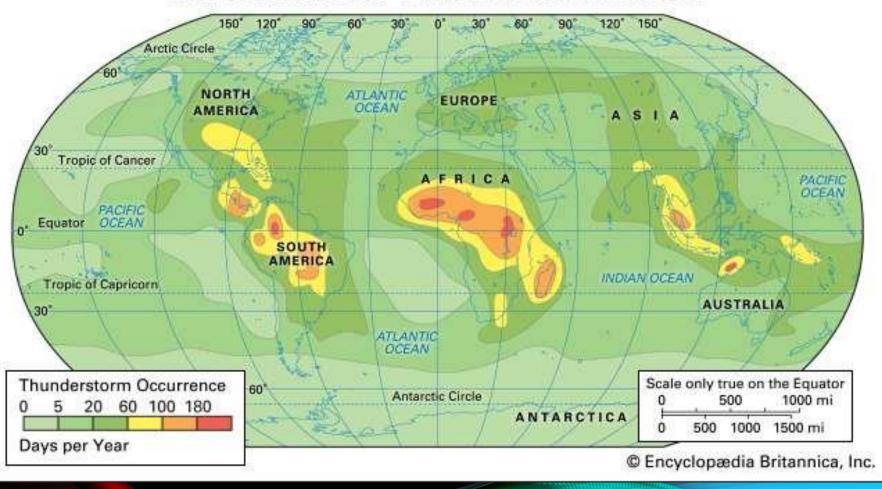
## Stages in development of a cumulonimbus







#### WORLD PATTERNS OF THUNDERSTORM FREQUENCY





Bureau Home > National Weather Services > Severe Weather Knowledge Centre > Severe weather hazards > Severe thunderstorms

### Severe thunderstorms

While we experience many types of thunderstorms in Australia, some more intense thunderstorms are referred to as severe thunderstorms. Severe thunderstorms can produce damaging wind gusts, large hail, tornadoes and heavy rain which may cause flash flooding and these phenomena can all cause significant damage.



#### How is a severe thunderstorm defined?

Thunderstorms which produce any of the following are classified as severe in Australia:

- large hail (2 cm in diameter or greater)
- damaging wind gusts (90 km/h or greater)
- tornadoes
- heavy rainfall conducive to flash flooding

Most thunderstorms do not reach the level of intensity needed to produce these dangerous phenomena. The Bureau of Meteorology only issues



http://www.bom.gov.au/weather-services/severe-weather-knowledgecentre/severethunder.shtml