entra caletta (Mangapata Spanishan) et alla entra caletta (Mangapata)



WEATHER WORDS

INTRODUCTION
FORECAST TERMS: Dry; Fine; Cloud Cover; etc.
DESCRIPTION OF PHENOMENA: Drizzle; Rain; Showers; Fog; Mist; Tornado; etc.
PRECIPITATION: How Long?; How Intense?; How Widespread?; etc.
WIND TERMS
SEA AND SWELL

Introduction

Meteorologists preparing weather forecasts and warnings compress a lot of information into standardised, brief messages Their predictions for electronic media and newspaper 'headline' forecasts must be particularly concise.

Working under frequent deadlines (most capital city forecasts for instance, are updated every three hours), forecasters summarise information using consistent terminology to minimise the risk of misunderstanding.

Because forecasts are written for a specific time span and area, they should not carry too much detail, as they must be valid over large areas, Back to Menu

Forecasting Terms

The following definitions of some common forecasting terms will help you extract the maximum information from forecasts.

Fine: No rain or other precipitation (hail, snow, etc). The use of fine is generally avoided in excessively cloudy, windy, foggy or dusty conditions. In particular, note that fine means the absence of rain or other precipitation such as hail or snow--not 'good' or 'pleasant' weather.

Dry: Free from rain. Normally used when preceding weather has also been relatively dry, and dry weather is expected to continue for at least a day

CLOUD COVER

- Clear: Free from cloud, fog, mist or dust haze.
- Sunny: Little chance of the sun being obscured by cloud. (Note: High level cirrus clouds are often thin and wispy, allowing a considerable amount of sunlight to penetrate them, sufficient to produce shadows. In this case the day could be termed 'sunny' even though more than half
- Cloudy: Predominantly more cloud than clear sky For example, during the day the sun would be obscured by cloud for substantial periods
- Overcast: Sky completely covered with cloud.
- Forecasts of cloud cover normally give an average, if no significant variations are expected. A clear day, for example, may at some times see a
- Forecasters expecting significant variations in cloud amount may use such terms as sunny periods, sunny breaks, cloudy periods, cloudy at
- If expecting a major change in cloud cover, they usually indicate a distinct trend, e.g. becoming summy or cloud increasing.

Back to Menu

Description of Phenomena

Fog: Suspension of very small water droplets in the air, reducing visibility at ground level to less than a kilometre.

Smog: Smog (contraction for 'smoke fog') is a fog in which smoke or other forms of atmospheric pollutant have an important part in causing the

Mist: Similar to fog, but visibility remains more than a kilometre.

Frost: Deposit of soft white ice crystals or frozen dew drops on objects near the ground; formed when surface temperature falls below freezing

Precipitation: Any or all of the forms of water particles, whether liquid (e.g. rain, drizzle) or solid (e.g. hail, snow), that fall from a cloud or

Drizzle: Fairly uniform precipitation composed exclusively of very small water droplets (less than 0.5 mm in diameter) very close to one another.

Rain: Precipitation of liquid water drops greater than 0.5 mm in diameter. In contrast to showers, it is steadier and normally falls from stratiform

Showers: Usually begin and end suddenly. Relatively short-lived, but may last half an hour. Often, but not always, separated by blue sky.

Thunderstorms: Thunderstorms are one or more convective clouds in which electrical discharge can be seen as lightning and heard as thunder by a person on the earth's surface. A severe thunderstorm produces one or more of :-

- hail at the ground with diameter of 2 cm or more;
- wind gusts at the ground of 90 km/h or more;
- tornadoes; or
- very heavy rain likely to cause flash flooding.

Tornado: A tall, rapidly rotating column of air between 5 and 1000 metres in diameter which is attached to the base of a cumulonimbus or large cumulus cloud and which is capable of producing damage at the earth's surface.

Back to Menu

Precipitation

DURATION

Brief: Short duration.

Intermittent: Precipitation which ceases at times.

Occasional: Precipitation which while not frequent, is recurrent.

Frequent: Showers occurring regularly and often.

Continuous: Precipitation which does not cease, or ceases only briefly.

Periods of Rain: Rain is expected to fall most of the time, but there will be breaks.

Back to Menu

INTENSITY

Slight or Light:

Rain: Individual drops easily identified, puddles form slowly, small streams may flow in gutters.

Drizzle: Can be felt on the face but is not visible. Produces little run off from roads or roofs. Generally visibility is reduced, but not less than 1000 m.

Snow: Small sparse flakes. Visibility generally reduced but not less than 1000 m.

Hail: Sparse hailstones of small size, often mixed with rain.

Moderate:

Rain: Rapidly forming puddles, down pipes flowing freely, some spray visible over hard surfaces.

Drizzle: Window and road surfaces streaming with moisture. Visibility generally between 400 and 1000 m.

Snow: Large numerous flakes and visibility generally between 400-1000 m.

Hail: Particles numerous enough to whiten the ground.

Heavy:

Rain: Falls in sheets, misty spray over hard surfaces, may cause roaring noise on roof.

Drizzle: Visibility reduced to less than 400 m.

Snow: Numerous flakes of all sizes. Visibility generally reduced below 400 m.

Hail: A proportion of the hailstones exceed 6 mm diameter.

Back to Menu

DISTRIBUTION OF SHOWERS (OR OTHER WEATHER PHENOMENA)

Few: Indicating timing, not an area.

Isolated: Showers which are well separated in space during a given period.

Local: Restricted to relatively small areas.

Patchy: Occurring irregularly over an area.

Scattered: Irregularly distributed over an area. Showers which, while not widespread, can occur anywhere in an area. Implies a slightly greater incidence than isolated.

Sporadic: Scattered or dispersed in respect of locality or local distribution. Characterised by occasional or isolated occurrence.

Widespread: Occurring extensively throughout an area.

Back to Menu

Wind Terms

The wind is a continuous succession of gusts and lulls associated with equally rapid changes of direction over a range which may exceed 30°. The mean wind speed over a period of time is therefore the mean of many gusts and lulls. Usually only the mean wind is forecast, unless the gusts are expected to be a significant feature. For instance, *Fresh*, gusty southwest winds indicates that the mean wind speed will be between 17 and 21 knots and the mean wind direction will be from the southwest, but that there will also be gusts to speeds significantly higher than the mean.

Gust: A gust is any sudden increase of wind of short duration, usually a few seconds.

Squall: A squall comprises a rather sudden increase of the mean wind speed which lasts for several minutes at least before the mean wind returns to near its previous value. A squall may include many gusts.

Wind descriptions (derived from the Beaufort Wind Scale) Wind speeds are given as the equivalent speed at a standard height of 10 metres above open flat ground

	Units in km/h	Units in knots	Description on Land	Description at Sea	
CALM	0	0	Smoke rises vertically	Sea like a mirror.	

LIGHT WINDS	19 km/h or less	10 knots or less	Wind felt on face; leaves rustle; ordinary vanes moved by wind.	Small waveless, ripples formed but do not break: A glassy appearance maintained.	
MODERATE WINDS	20 - 29 km/h	11-16 knots	Raises dust and loose paper; small branches are moved.	Small waves - becoming longer; fairly frequent white horses.	
FRESH WINDS	30 - 39 km/h	17-21 knots	Small trees in leaf begin to sway; crested waveless form on inland water	Moderate waves, taking a more pronounced long form; many white horses are formed - a chance of some spray	
STRONG WINDS	40 - 50 km/h	22-27 knots	Large branches in motion; whistling heard in telephone wires; umbrellas used with difficulty.	Large waves begin to form; the white foam crests are more extensive with probably some spray	
		51 - 62 km/h	28-33 knots	Whole trees in motion; inconvenience felt when walking against wind.	Sea heaps up and white foam from breaking waves begins to be blown in streaks along direction of wind.
GALE	63 - 75 km/h	34-40 knots	Twigs break off trees; progress generally impeded.	Moderately high waves of greater length; edges of crests begin to break into spin drift; foam is blown in well marked streaks along the direction of the wind.	
		76 - 87 km/h	41-47 knots	Slight structural damage occurs -roofing dislodged; larger branches break off.	High waves; dense streaks

					of foam; crests of waves begin to topple, tumble and roll over; spray may affect visibility.
\$ STORM	88 - 102 km/h	48-55 knots	Seldom experienced inland; trees uprooted; considerable structural damage.	Very high waves with long overhanging crests; the resulting foam in great patches is blown in dense white streaks; the surface of the sea takes on a white appearance; the tumbling of the sea becomes heavy with visibility affected.	
		103 km/h or more	56 knots plus	Very rarely experienced - widespread damage	Exceptionally high waves; small and medium sized ships occasionally lost from view behind waves; the sea is completely covered with long white patches of foam; the edges of wave crests are blown into froth.

Back to Menu

Sea and Swell

Sea Waves: Waves generated by the wind blowing at the time, and in the recent past, in the area of observation.

Swell Waves: Waves which have travelled into the area of observation after having been generated by previous winds in other areas. These waves may travel thousands of kilometres from their origin before dying away. There may be swell present even if the wind is calm and there are no 'sea' waves.

Wave Period: The average time interval between passages of successive crests (or troughs) of waves.

Wave Height: Generally taken as the height difference between the wave crest and the preceding trough.

Wave Length: The mean horizontal distance between successive crests (or troughs) of a wave pattern.

SEA [in open sea]			
Description	Height (metres)	Effect	
Calm (glassy)	0	No waves breaking on beach	
Calm (rippled)	0 - 0.1	No waves breaking on beach	
Smooth	0.1 - 0.5	Slight waves breaking on beach	
Slight	0.5 - 1.25	Waves rock buoys and small craft	
Moderate	1.25 - 2.5	Sea becoming furrowed	
Rough	2.5 - 4	Sea deeply furrowed	
Very rough	4-6	Sea much disturbed with rollers having steep fronts	

High	6-9	Sea much disturbed with rollers having steep fronts (damage to foreshore)
Very high	9-14	Towering seas
Phenomenal	over 14	Precipitous seas (experienced only in cyclones)

Back to Menu

SWELL			
Description	Wave Length	Period	Wave Height
Low swell of short or average length	0 - 200 m	Less than 11 sec	0-2 m
Long, low swell	over 200 m	Greater than 11 sec	0-2 m
Short swell of moderate height	0-100 m	Less than 8 sec	2-4 m
Average swell of moderate height	100-200 m	Greater than 8 sec, less than 11 sec	2-4 m
Long swell of moderate height	over 200 m	Greater than 11 sec	2-4 m
Short heavy swell	0-100 m	Less than 8 sec	over 4 m
Average length heavy swell	100-200 m	Greater than 8 sec, less than 11 sec	over 4 m
Long heavy swell	over 200 m	Greater than 11 sec	over 4 m

Back to Menu



Return to: Met Net (Home page)

Help

Search this site

Send:Feedback

© Copyright Commonwealth of Australia 2000, Bureau of Meteorology.

Users of these Web pages are deemed to have read and accepted the conditions described in the copyright declaration.