Data Records :

Record length 134 bytes

Format for data record (record code 001, in bytes 4-6)

Element No.	Start Byte		End Byte	Record Size	Description	Values
1	1	-	2	2	Identifying code for report	ca or cr
2	5	-	7	3	Record code. 000 means the record gives site details such as latitude and longitude	000
3	10	-	15	6	Bureau of Meteorology station number	000000-599999
4	17	-	23	7	January data, mean, total, highest or lowest depending on the element.	--
5	25	-	31	7	February data	--
6	33	-	39	7	March data	--
7	41	-	47	7	April data	--
8	49	-	55	7	May data	--
9	57	-	63	7	June data	--
10	65	-	71	7	July data	--
11	73	-	79	7	August data	--
12	81	-	87	7	September data	--
13	89	-	95	7	October data	--
14	97	-	103	7	November data	--
15	105	-	111	7	December data	--
16	113	-	120	8	Annual mean, total, highest or lowest depending on the element.	--
17	123	-	127	5	Approximate number of 'years' of record. This is an estimate from the number of months divided by 12, not a count of the calendar years. It will vary from element to element.	--
18	129	-	132	4	The percentage of a complete record for the particular element. Gives an estimate of the total data used, as a percentage of a record with no missing values of that element.	1 - 100%
	134	-	134	1	Indicates the end of the record	#

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Note 1. Record code.

This provides the code for each element which is used in the Record code described above. Some elements below are not yet available, have been included only for possible future use and are marked with an * .

Code		Description
000		Header record with station details, such as site name, number and co-ordinates.
001	deg C	Mean daily maximum temperature for each month and the year.
002		* 90 percentile of daily maximum temperature for each month and the year.
003		* 10 percentile of daily maximum temperature for each month and the year.
004	days	Mean number of days where the maximum temperature was equal to or more than 40.0 degrees Celsius, for each month and the annual total.
005	days	Mean number of days where the maximum temperature was equal to or more than 35.0 degrees Celsius, for each month and the annual total.
006	days	Mean number of days where the maximum temperature was equal to or more than 30.0 degrees Celsius, for each month and the annual total.
007	deg C	Highest daily maximum temperature recorded in each month and for the year. These are the values in the computer archive. Some sites may have had higher values in the 1800's or early in the 1900's which are not yet in the computer. Extreme values in the last 2-3 months of this report, may not have been entered in thecomputer. Check with the Regional Office of the state conserned.
011	deg C	Mean daily minimum temperature for each month and the year.
012		* 90 percentile of daily minimum temperature for each month and the year.
013		* 10 percentile of daily minimum temperature for each month and the year.
014	days	Mean number of days where the minimum temperature was equal to or less than 2.0 degrees Celsius, for each month and the annual total.
015	days	Mean number of days where the minimum temperature was equal to or more than 0.0 degrees Celsius, for degrees Celsius, for each month and the annual total.
016	deg C	Lowest daily maximum temperature recorded in each month and for the year. These are values in the computer archive. Some sites may have had lower values in the 1800's or early in the 1900's which are not yet in the computer. Extreme values within the last 2-3 months of this report, mar not have been entered in the computer. Check with the Regional Office of the state concerned.
021	deg C	Mean 9am air temperature for each month and the year. (See Note 2.)
022	deg C	Mean 9am wet bulb temperature for each month and the year. (See Note 2.)
023	deg C	Mean 9am dew point temperature for each month and the year. (See Note 2.)
024	%	Mean 9am relative humidity for each month and the year. (See Note 2.)

025	km/hr	Mean 9am wind speed for each month and the year (See Note 2.)
031	deg C	Mean 3pm air temperature for each month and the year. (See Note 2.)
032	deg C	Mean 3pm wet bulb temperature for each month and the year. (See Note 2.)
033	deg C	Mean 3pm dew point temperature for each month and the year. (See Note 2.)
034	%	Mean 3pm relative humidity for each month and the year. (See Note 2.)
035	km/hr	Mean 3pm wind speed for each month and the year. (See Note 2.)
041	mm	Mean montly rainfall for each month and the total for the year.
042	mm	Median rainfall (5th decile) for each month and for the year. Note that the year's median is not the arithmetic sum of the monthly medians.
043	mm	90 percentile (9th decile) of monthly rainfall and for the year. Note that the year's decile is not the arithmetic sum of the monthly deciles.
044	mm	10 percentile (1st decile) of monthly rainfall and for the year. Note that the year's decile is not the arithmetic sum of the monthly decile.
045	days	Mean number of raindays for each month and the total for the year.
046	mm	Highest monthly rainfall (mm) recorded for the month.
047	mm	Lowest monthly rainfall (mm) recorded for each month.
048	mm	Highest daily rainfall actually recorded. Many sites report accumulated falls at the end of a weekend etc which are not included here. Such falls may conceal higher daily amounts.
051	days	Mean number of cloudy days for each month and the annual total. (A cloudy day is said to occur when the average of the 9am and 3pm cloud amounts is >= 5.5 eighths of cloud)
052	days	Mean number of clear days for each month and the annual total. (A clear day is said to occur when the average of the 9am and 3pm cloud amounts is <= 2.5 eighths of cloud)
053	hrs	Mean daily hours of sunshine duration for each months and for the year. Most sites do not record this parameter.
054	km/hr	Highest recorded gust of wind for each month and for the year. Most sites do not record this parameter.
055	mm	Mean daily evaporation for each month and for the year. Most sites do not record this parameter.

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Note 2. Means for Specific Hours and Daylight Saving.

Due to the effect of Daylight Saving, these values are only nominal for most Australian sites. Daylight Saving has been used in some, but not all, states of Australia, since about 1973. The changeover occurs almost always in October and March but the exact dates vary from state to state and year to year. The averages for a particular hour are hence generally a combination of 8am and 9am values,

Note 3. WMO Index Number.

This is the number assigned to a site that makes international weather reports every day. The number is not actively used in the climate archive, and only a few hundred such numbers are assigned at any time. These are not perpetual but may be resaaigned where a site no longer makes the international reports (synops); thus a particular number cannot be regarded as unique and exclusive to any particular site.