ACDB Climate Data Files

Each record is 60 (sixty) characters long.

Columns 1 and 2 contain a two letter code for the site (eg AD for Adelaide)
Columns 3 and 4 contain the last two digits of the year number eg 67 for 1967
Columns 5 and 6 contain the month number (zero-filled) eg 01 for January
Columns 7 and 8 contain the day number (zero-filled) eg 01 for first of the month
Columns 9 and 10 contain the hour number 0-23 (0=midnight, 1=1am etc)
Columns 11 to 14 contain the Dry Bulb (Air) temperature in tenths of degrees C
Columns 15 to 17 contain the Moisture Content in tenths of g per kg
Columns 18 to 21 contain the Atmospheric (Air) Pressure in tenths of kPa
Columns 22 to 24 contain the Wind Speed in tenths of metres per second
Columns 25 to 26 contain the Wind Direction 0-16 (0=CALM,1=NNE, …, 16=N)
Columns 27 contains the Cloud Cover 0-8 (0= no cloud, …, 8= full cloud)
Column 28 contains the Flag for Dry Bulb Temp. (0=Actual, 1=Estimated)
Column 29 contains the Flag for Moisture Content (0=Actual, 1=Estimated)
Column 30 contains the Flag for Atmospheric Pressure (0=Actual, 1=Estimated)
Column 31 contains the Flag for Wind Speed (0=Actual, 1=Estimated)
Column 32 contains the Flag for Cloud Cover (0=Actual, 1=Estimated)
Column 33 contains the Flag for Wind Direction (0=Actual, 1=Estimated)
Columns 34 to 37 contain Global Solar Radiation on a horizontal plane (Wh/m^2)
Columns 38 to 40 contain Diffuse Solar Radiation on a horizontal plane (Wh/m^2)
Columns 41 to 44 contain the Normal Direct Solar Radiation (Wh/m^2)
Columns 45 to 46 contain Solar Altitude in degrees (0 to 90)
Columns 47 to 49 contain the Solar Azimuth in degrees (0 to 359, 0=N, 90=E, …)
Column 50 contains the Flag for Global Solar Radiation. (0=Actual, 1=Estimated)
Column 51 contains the Flag for Diffuse Solar Radiation (0=Actual, 1=Estimated)
Column 52 contains Flag for Normal Direct Solar Radiation (0=Actual, 1=Estim.)
Columns 53 and 54 contain the first two digits of the year number eg 19 for 1967
Columns 55 to 60 are blank

RMY Files

Format of the records within the RMY files is identical to the format of records within the ACDB files.

For each location, an RMY file is a concatenation of selections, from the location's ACDB file, of each calendar month - so the RMY file contains one year of records, with a "Reference Meteorological Year" made up of January from one year, February from another year (usually a different year, but possibly the same) and similarly for March, April, May, June, July, August, September, October, November and December.

During the project, these RMY were referred to as TMY (for "Typical Meteorological Year") but this has been revised to avoid confusion.