



ARUBA

CLIMATOLOGICAL SUMMARY 2010

PRECIPITATION

The total amount of rainfall recorded at the Reina Beatrix International Airport for the year 2010 was 906.4 mm (normal value is 409 mm). From January till May 2010 a total of 37.4 mm has been recorded (4.1% of the total amount for 2010). During June 2010 a total amount of 49.4 mm has been recorded (5.5% of the total amount for 2010). July 2010 was less, with an amount of 19.8mm (2.2% of the total amount for 2010). From August until December 2010 a total of 799.8 mm of rain was recorded (88.2% of total amount of 2010). The normal average for 1971-2000 from August to December is 269.3mm. The *wettest* month for 2010 was September with a total of 235.2 mm of rain, where on September the 14th 46.8 mm of rainfall was recorded within 24 hours. October had a total of 107.4 mm of rain, where October the 6th had a 24 hour rainfall total of 27.6mm. November a total of 196.2 mm of rain with a 24 hour rainfall total of 30.4 mm on November the 17th and December a total of 218.4 mm of rain (figure 1) with a 24 hour total of 49.4 mm rainfall on December the 4th.

The total amount of rainfall from August to December 2010 was higher than our normal yearly average of 409 mm for the period 1971-2000.

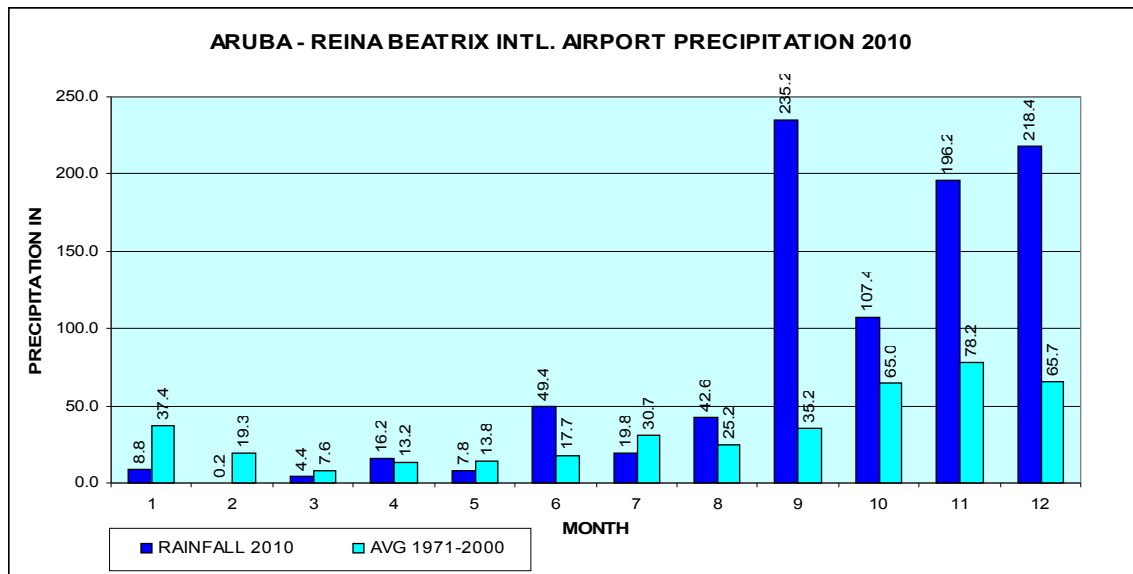


Figure 1.

Even though September 2010 had a total of 235.2 mm of rain it is not a record. On September 2004 a total of 256.2 mm of rain was recorded (figure 2). The above normal rainfall amounts in 2010, where mainly the consequence of favorable atmospheric, and oceanographic conditions in the Atlantic region and an atmospheric teleconnection pattern in the Pacific region.

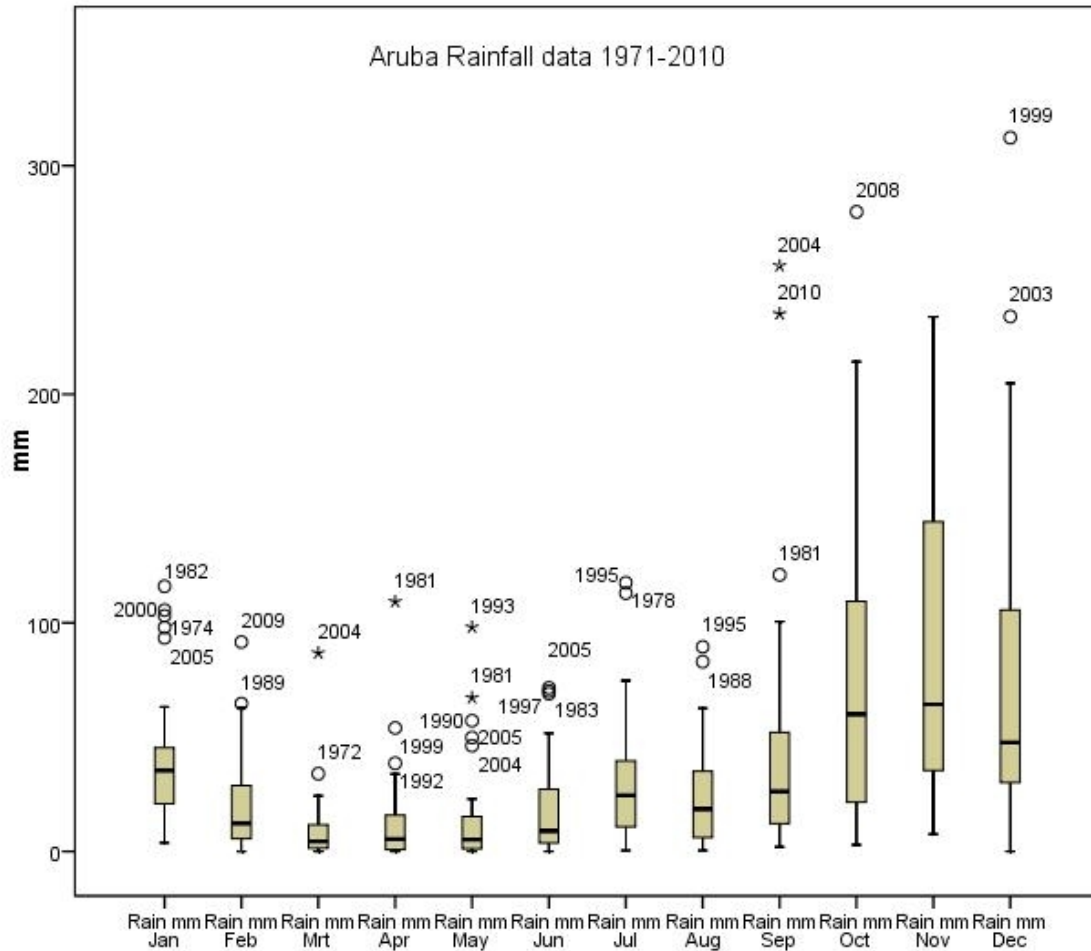


Figure 2.

TEMPERATURE

The average air temperature recorded at the Reina Beatrix International Airport for the year 2010 was 28.8 °C (normal value is 27.8 °C). The months of June (30.0°C), July (29.9 °C) and August (30.4 °C) appear to be the warmest months for the year 2010. The average maximum temperature of 34.2 °C happened during the month of August 2010 (figure 3). The absolute maximum temperature of 35.4 °C was recorded on August 6 2010. The absolute minimum temperature of 22.9 °C was recorded on December 31 2010.

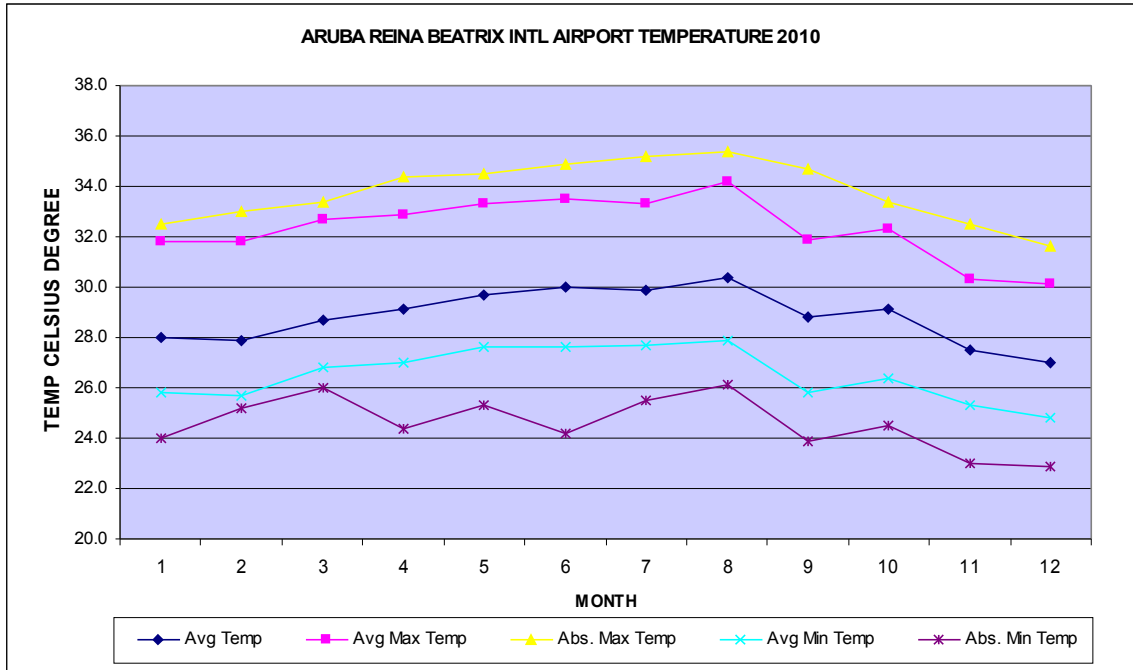


Figure 3.

WIND

The average windspeed at 10 m height for the year 2010, as recorded at the Reina Beatrix International Airport was 6.2 m/s. The highest average windspeed of 8.0 m/s was recorded during the month of March 2010 with the lowest average windspeed of 3.0 m/s in September 2010. The highest average max windspeed of 15.7 m/sec was recorded during January 2010, with an absolute maximum windspeed of 20.0 m/s recorded on March 21 2010 (figure 4).

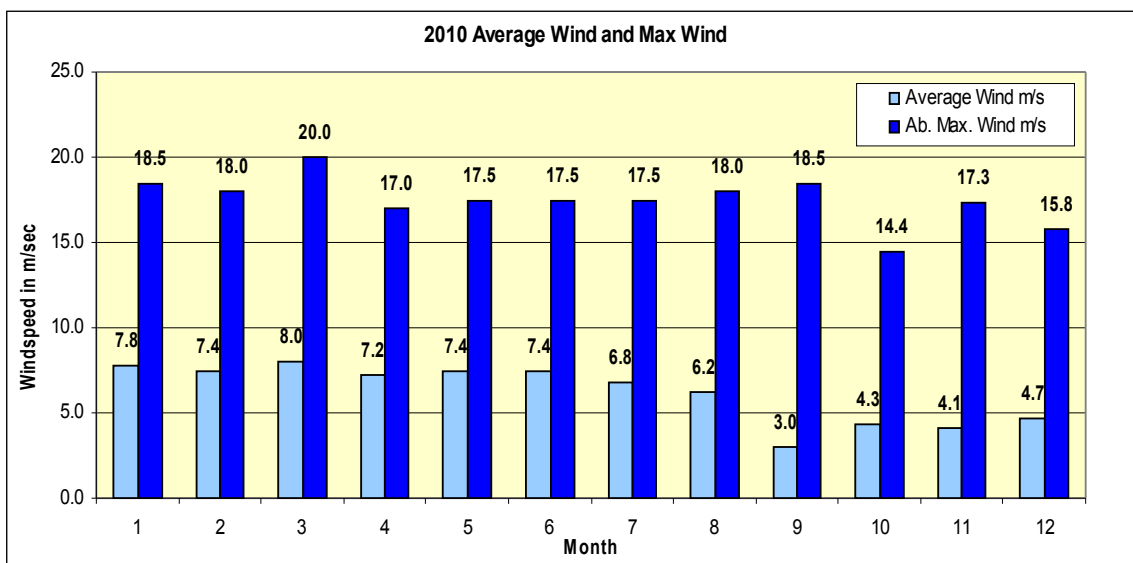


Figure 4.

ATMOSPHERIC PRESSURE

The average atmospheric pressure recorded at the Reina Beatrix International Airport for the Year 2010 was 1010.8 hPa. The highest monthly average atmospheric pressure of 1011.9 hPa was measured during January 2010 with the absolute maximum atmospheric pressure of 1014.3 hPa on January 19 2010 (figure 5).

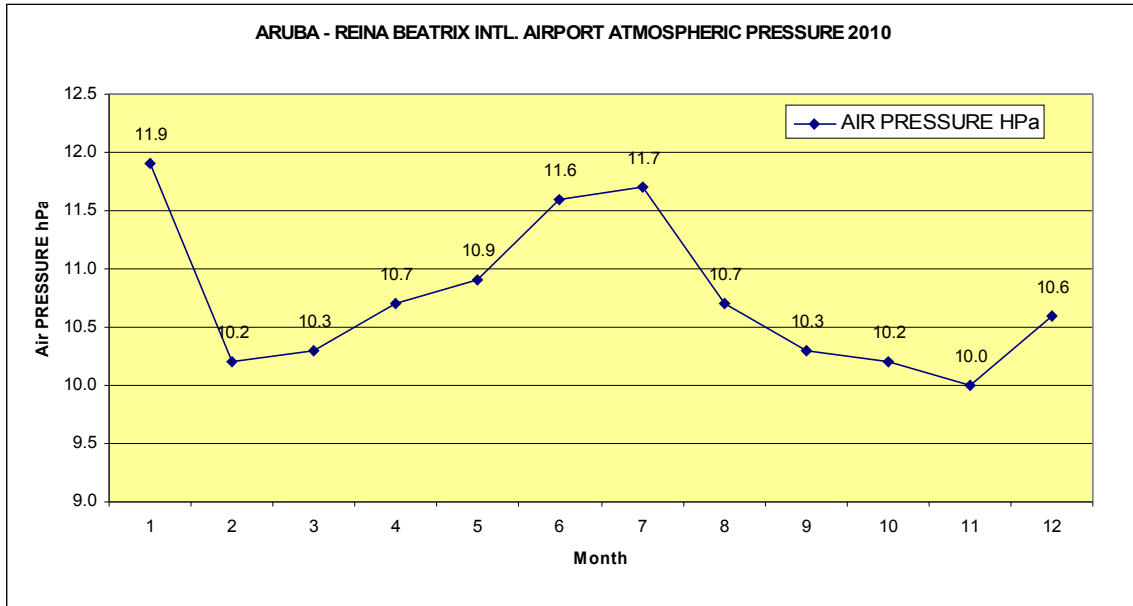


Figure 5.

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