Bulletin of Meteorological Data

Experimental Station
CIRSA Villa Carlos Paz

Lat 31° 23' 55.8'' S  Long. 64° 28' 28.5'' O
Alt. 665 a.s.l.

APRIL 2003
April 2003

Introduction

INA-CIRSA operates an automatic data collection system in Córdoba, Argentina with central base station in Villa Carlos Paz city. It has 24 stations and more than 95 installed mensuration sensors. This system provides "real-time" information on rainfall, run-off and weather conditions throughout San Antonio River Basin. The network operates in the U.S. National Weather Service ALERT format. Data is collected from 24 automatic rain gauges, 5 water level gauges), and seven automatic weather stations.

The stations report data automatically by radio to computer base stations.

The present bulletin was made in function of approximately 1,000 monthly observations, according to CIRSA Villa Carlos Paz Station reports, coded as N# 1100 at the INA-CIRSA Flood Warning System.

Suitable data of bulletin correspond to 0 to 24 hr. Values in present bulletin are according to the used database for each one of the sensors and their corresponding time steps as indicated next:

1. Air temperature at 3.50 m. Time step every 1 hour.
2. Relative Humidity at 3.50 m. Time step every 1 hour.
4. Wind Speed at 10 m. Time step every 3 km run
5. Wind Direction at 10 m. Time step every transmission of previous sensor.
6. Incident Solar Radiation at 4 m. Time step every 1 hour.
7. Precipitation at 1.5 m. Event Step every 0.2 mm.
8. Precipitation at 4 m. Event Step every 1 mm.
9. Evaporation in pan A Class. Time step every day at 9 AM.

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Weather Condition in Villa Carlos Paz City at 9 AM

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</table>

Per day Distribution:

- Sun: 13
- Cloudy: 2
- Rain: 4

Medrano 235                                  Ph: (54-3541) 422347/430443                           X5152MCE- Villa Carlos Paz- Argentina
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**Air Temperature**

- **1102 min °C**: 0.0, 5.0, 10.0, 15.0, 20.0, 25.0, 30.0
- **1102 media °C**: 5.0, 10.0, 15.0, 20.0, 25.0, 30.0
- **1102 max °C**: 0.0, 5.0, 10.0, 15.0, 20.0, 25.0, 30.0

**Monthly Values:**

**Maximal**: 29.5 °C at 4:47 PM day 21
**Minimal**: 4.8 °C at 7:01 AM day 19
**Media**: 16.5 °C

**Maximal Media**: 20.4 °C
**Minimal Media**: 12.7 °C
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Relative Humidity

From 25th to 28th: data taken from a mechanical hygrograph

Monthly Values:

Maximal: 99,1 % at 11:24 AM day 3.
Minimal: 49,8 % at 5:23 PM day 15.
Media: 74,3 %.

Maximal Media: 88,6 %
Minimal Media: 64,7 %
From 25th to 28th: data taken from a mechanical barograph

**Monthly Values:**

- **Maximal:** 957.3 hPa at 12:47 PM day 13.
- **Minimal:** 939.0 hPa at 06:15 AM day 18.
- **Media:** 949.5 hPa.

**Máxima Media:** 956.2 hPa
**Mínima Media:** 940.9 hPa
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**Wind Speed**

- **1497 media km/h**
- **1497 max km/h**

**Wind Direction**

Wind Direction corresponds to the value of maximum speed

- Wind equal 0, must be interpreted as a run null or less to 3 Km/day.
- Wind measured at 10 mt height (on physics and surrounding conditions).

**Monthly Values:**

**Maximal Wind Speed:** 16.5 km/h, from 230°, at 6:08 PM day 17.
**Media Speed:** 1.6 km/h.
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Values taken between 7AM to 7 PM.
(*) Days 17,18,23,24,25,26,27 y 28 N/A

**Monthly Values:**

**Maximal:** 1,020 lang., at 1:36PM day 10 (partial (*)).
**Media:** 0,3286 lang (partial (*)).
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**Monthly Values:**

**Net Variation in Evaporation Pan A Class:** - 27 mm.

**Precipitation:** 50 mm (a 4 m, sensor 1100) y 44,8 mm (a 1,5 m, sensor 1099).