

## PACS Mexican Daily Precipitation

### 1.0 General Description

The PACS Daily Precipitation Data is composed of data from stations across Mexico. Data from these sources were NOT quality controlled. This dataset contains data for 1989 thru 1999. In Version 2 of this dataset, the observation hours have all been set to missing or "99". According to the US data provider, Dr. Wayne Higgins, the observation time for the daily Mexican precip data was 8 AM local time for all data. With the complicating factors of a few Mexican states having daylight savings time for some of this period and there are two time zones in Mexico.

Version 2.0 - This dataset has been updated to correct the format to be the Daily Precipitation Format. The observation hours are unknown and have been set to the missing value of 99.

### 2.0 Detailed Data Description

These data were taken from the raw Mexican Precip data whenever latitude and longitude data were included in each record or could be reasonably determined from the station list we received, and if only one location was given or the difference between locations was less than 0.1 degrees. Records for which location information could not be determined were not included in this dataset. This dataset contains a total of 1348 stations.

### 2.1 Detailed Format Description

The Daily Precipitation Composite contains six metadata parameters and four data parameters. The metadata parameters describe the station location and time at which the data were collected. The four data parameters repeat once for each day in the monthly record. Every record has 31 days reported, regardless of the actual number of days in the month. For months with less than 31 days, the extra days are reported as missing (i.e., '-999.99 7 M 99'). Each 24 hour precipitation value has an associated observation hour. The observation hour is the ending UTC hour for the 24 hour period for which the precipitation value is valid. Data values are valid for the 24 hours preceding the observation hour given for the day. A Quality Flag and a Quality Control (QC) Code are assigned to each data value during quality control processing. For a list of possible Quality Flag and QC Code values see the Quality Control section 3.0. The table below details each parameter.

Parameters	Units
Date of Observation	UTC
Network Identifier	Abbreviation of platform name
Station Identifier	Network Dependent
Latitude	Decimal degrees, South is negative
Longitude	Decimal degrees, West is negative
Station Occurrence	Unitless
Daily Precip Value	millimeters

Quality Flag See list of Definitions in Table 1 in section 3.0.  
 QC Code See list of Definitions in Table 2 in section 3.0.  
 Observation hour Beginning UTC hour for 24 hour period  
 for which value is valid. Note that the  
 Observation hour is unknown and set to missing  
 for all precipitation values in this dataset.

## 2.2 Data Remarks

Negative precipitation and values too large to be represented in the output format were changed to missing ('-999.99') and were assigned the 'C' QC code. The station identifier given in the data is an abbreviation of the long station names given in the raw data that was generated by NCAR/EOL.

## 3.0 Quality Control Processing

These data were not quality controlled by NCAR/EOL.

Table 1

Quality Control Flag	Description
0	No qualifier required
1	Accumulation period
2	End of Accumulation period
3	Deleted value. Original data was unreadable.
4-6	Reserved
7	Missing value

Table 2

QC Code	Description
U	Unchecked
G	Good
M	Normally recorded but missing
D	Questionable
B	Unlikely
N	Not available or Not observed.
X	Glitch
E	Estimated
C	Reported precipitation value exceeds 9999.99 millimeters or was negative.
T	Trace precipitation amount recorded.
I	Derived parameter can not be computed due to insufficient data.

## 4.0 References

None.