

Electronic Precipitation Methodology

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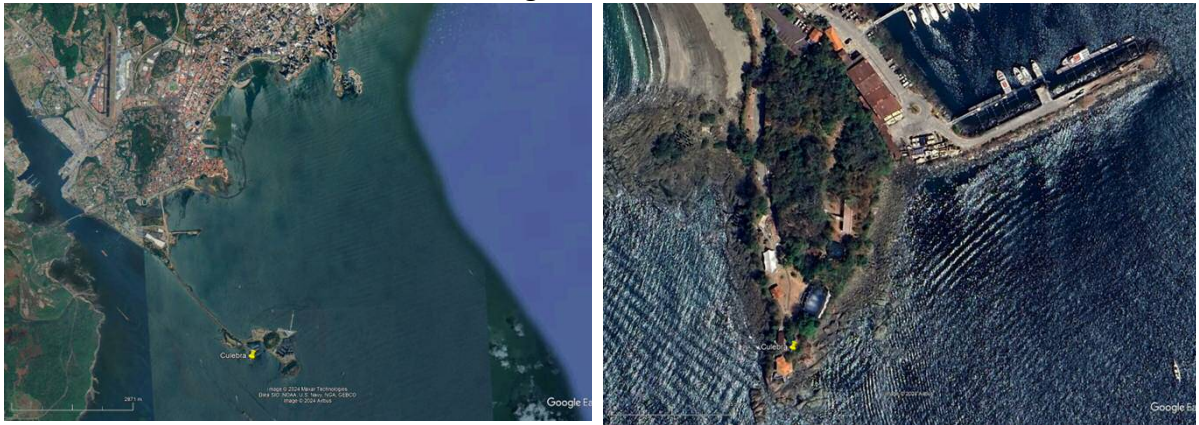
Precipitation is measured electronically on the side of the platform tower (see Figure 1 and 2). Spikes on the edge of the sensor or to prevent marine birds from landing on the device.

A Hydrological Services Model TB3 tipping bucket is being used (see Figure 3).

The tipping bucket is calibrated at least yearly according to the manufacturer's specifications (see Figure 4).

Records are provided with two Quality Control flags. Flag one indicates the fitness for use of each record. Possible values are: good, bad, doubtful, missing. Records are marked as bad if they fail one or more QC tests. Likewise, records are marked as doubtful if they are potentially bad, but without sufficiently strong evidence to be marked as bad. The second QC variable provides that reason for marking a variable as bad or doubtful. Potential values are: range, step, persistence, drift. At this time only range tests have been applied.

Figure 1



Location of the Punta Culebra station.

Figure 2



Punta Culebra meteorological tower (left) and rain gauge (right)

Figure 3



Hydrological Services Model Campbell Sci. TB3/CS700 tipping bucket

Figure 4



Tipping Bucket Calibration