

Station Name: **South Mountain Fan**

State: Arizona
County: Maricopa

Latitude: 33 18 55
Longitude: 112 08 01

Location: Metro Phoenix, alignments of Ray Rd and 35th Ave in South Mountain Park

Time zone: MST – all year

Owner: Flood Control District Of Maricopa County

Office telephone: 602-506-8701

NWS CWA: Phoenix
Zone #: 23

Station Elevation: 1,250 feet MSL

Date of Installation: All sensors installed on 06/09/1993, except for solar rad. on 11/01/1993 and baro. pressure on 02/24/1994

Archived: Yes, from date of installation

Equipment operates in the NWS ALERT format. Transmission to the Flood Control District of Maricopa County via VHF radio. All the below equipment distributed by HydroLynx Systems Inc. (temperature and RH sensors via Vaisala). The barometer is located in the stand pipe.

<u>Sensors:</u>	<u>Type</u>	<u>Model</u>	<u>Height AG (ft)</u>	<u>ID #</u>	<u>Units</u>	<u>Frequency of data</u>
Rain	Tipping Bucket	5050P	10.0	6560	mm	Variable
Temperature	Transducer	2046T	9.5	6562	deg F/C	15 minutes
“	Radiation shield	4550	----	----	----	----
Relative Humidity	Polymer film	2046RH	9.5	6561	%	15 minutes
Dewpoint (calculated)	---	---	----	6556	deg F	15 minutes
Wind Speed	Three cup	5050WS	9.7	6557	mph	15 minutes
Wind Direction	Pointer	5050WD	9.7	6567	deg	15 minutes
Peak Wind	---	---	----	6554	mph	15 minutes
Solar Radiation	Silicon photovoltaic cell	4015	10.0	6566	watts/sqm	30 minutes
Barometric Pressure	Solid state	1522	6.0	6564	mb, inHg	30 minutes

Site Description: Flat ground. Soil type – rocks/low bushes.

Obstructions: Two Ironwood trees – tops to 20 ft – east 20 ft and south 15 ft of station.

Photographs - attached page



North



East



South



West



Station