Title:

Meteorological data of Capo Posillipo weather station (Naples, Italy) during Dec. 2013 – Oct. 2018 period.

Authors

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Abstract

Weather data monitoring is ongoing since 2013 in a network of three sites located in the Campi Flegrei volcanic area, near Naples (Italy) in the framework of the MONICA (Innovative Monitoring of Coastal and Marine Environment) Project. The aim of this activity is to acquire time series to analyze the influence of meteorological factors on geomorphological coastal processes, such as cliff retreat, landslides and beach erosion. The uploaded dataset includes data (temperature, rain, wind, barometric pressure and humidity) acquired at the Capo Posillipo automatic weather station (model DAVIS Vantage Pro2 wireless) during the period Dec. 2013 - Oct. 2018. The station is located in the western sector of the urban area of Naples (Italy). Automatic data transfer from the weather station to the ISMAR-CNR processing center, located in the Naples harbor, is routinely performed via an Internet LAN connection.

Event:

Latitude: 40.801476 * Longitude: 14.185979

Elevation: 108 m * Location: Virgiliano Park, Posillipo hill, Naples, Italy

Date/Time Start: 2013-12-27T16:30:00 * Date/Time End: 2018-10-31T23:30:00

HEIGHT above ground: 20 m (barometer) * 25 m (thermo-hygrometer, pluviometer) * 27 m (anemometer)

Table 1: Technical specifications of the sensors of the used meteorological station - model DAVIS Vantage Pro2 wireless (see at https://www.davisinstruments.com/support/vantage-pro2-wireless-stations/).

sensor	parameter	resolution	range	accuracy	update
		and unit			interval
Thermometer	Air Temperature	0,1°C	- 40,0 to 65°C	+/- 0,3°C	10-12 seconds
Hygrometer	Relative Humidity	1 %	1-100%	+/- 2%	1 minute
Anemometer	Wind Speed	1 knot	1-173 knots	+/- 2 knots (1,03	3 seconds
		(0,514 m/s)	(0,5-89,0 m/s)	m/s) or 5%	
Barometer	Barometric	0,1 hPa	540 - 1100 hPa	+/- 1 hPa	1 minute
	Pressure				
Anemometer	Wind Direction	1°	0-360°	+/- 3°	3 seconds
Pluviometer	Rainfall Amount	0,25 mm	0 – 999,8 mm	+/- 4%	20-24 seconds
Pluviometer	Rainfall Rate	0.1 mm/h	0-2438 mm/h	+/- 5%	20-24 seconds