Title:
Continuous meteorological observations at Bacoli weather station (Campi Flegrei, Italy) during the period Nov. 2013-Oct. 2018.

## 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, relative humidity, wind, barometric pressure and rain) acquired at the Bacoli automatic weather station (model: DAVIS Vantage Pro2 wireless) during the period Dec. 2013 - Oct. 2018. Automatic data transfer from the weather station to the ISMAR-CNR processing center of Naples is performed by an internet LAN connection.

## Event:

Latitude: 40.792119 * Longitude: 14.077630
Elevation: 2 m a. s. I. * Location: Lake Miseno - Bacoli Harbor, Bacoli, Naples, Italy
Date/Time Start: 2013-11-01T00:00:00 * Date/Time End: 2018-10-31T23:50:00
HEIGHT above ground: 2 m (barometer) * 6 m (thermo-hygrometer, pluviometer) * 10 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 <br> and unit | range | accuracy | update <br> interval |
| :--- | :--- | :--- | :--- | :--- | :--- |
| thermometer | air temperature | $0,1^{\circ} \mathrm{C}$ | $-40,0$ to $65^{\circ} \mathrm{C}$ | $+/-0,3^{\circ} \mathrm{C}$ | $10-12$ seconds |
| hygrometer | relative humidity | $1 \%$ | $1-100 \%$ | $+/-2 \%$ | 1 minute |
| anemometer | wind speed | 1 knot | $1-173$ knots | $+/-2$ knots or $5 \%$ | 3 seconds |
| anemometer | wind direction | $1^{\circ}$ | $0-360^{\circ}$ | $+/-3^{\circ}$ | 3 seconds |
| barometer | barometric <br> pressure | $0,1 \mathrm{hPa}$ | $540-1100$ <br> hPa | $+/-1 \mathrm{hPa}$ | 1 minute |
| pluviometer | rainfall amount | $0,25 \mathrm{~mm}$ | $0-999,8 \mathrm{~mm}$ | $+/-4 \%$ | $20-24$ seconds |
| pluviometer | rainfall rate | $0.1 \mathrm{~mm} / \mathrm{h}$ | $0-2438 \mathrm{~mm} / \mathrm{h}$ | $+/-5 \%$ | $20-24$ seconds |

