

## REST mareographic data from AdB simop web\_site

Rest mareographic data from AdB simop web\_site

1. One url for getting the last data available in the station database;
2. One url for getting data using a time interval (beginning and end date);
3. One url for getting data in hour time range

Detailing, the following url will be deployed:

1. `/lastdata?device=<device id>`
  - a. device: id of the station;
2. `/data?device= <device id>&sd=<11223344>&ed=<11223388>`
  - Device; id of the station;
  - sd: initial date using the Unix timestamp in seconds;
  - ed: final date using the Unix timestamp in seconds;
3. `/rangedata?device=<device id>&range=<numero ore>`
  - Device; id of the station;
  - Range; number of the time interval in hour starting from the last value stored in the database.

Es. `/rangedata?device=M01TBR&range=15` : will get the last 15 hours from the last value stored at M01TBR station.

Json answer will be:

1.

```
{
  "device": "M01TBR",
  "timestamp":1450202400,
  "value":14.8
```

```
}
```

2. and 3.

```
{
  "device": "M01TBR",
  "records": [
    {
      "timestamp":1450202400,
      "value":10.3
    },
    {
      "timestamp":1450201500,
      "value":14.8
    },
    {
      "timestamp":1450200600,
      "value":15.2
    },
    ....
    {
      "timestamp":1450148400,
      "value":16.8
    }
  ]
}
```

Stations :

Device ID	Località	Posizione
M01TFG	Ischitella (Foce Varano)	[566052.0, 4641089.0]
M02TFG	Manfredonia	[576142.0, 4608578.0]
M01TBR	Brindisi	[750403.0, 4505456.0]
M01TLE	Porto Cesareo	[745809.0, 4460072.0]

When data are not available, the answer would be something like that:

```
{
  "device": "M01TBR",
  "records": []
}
```

To follow an example of response in case in correspondence of some timestamp where there are no values.

In particular, data are from 00:00 of 10.04.2016 to 08:00 of 11.04.2016, and there is a hole for 19:45 of 10.04.2016.

```
{
  "device": "M01TBR",
  "records": [
    {"timestamp":1460246400,"value":11.4},
    {"timestamp":1460247300,"value":11.4},
```

```
{ "timestamp":1460248200,"value":11.4},
{ "timestamp":1460249100,"value":11.4},
{ "timestamp":1460250000,"value":11.4},
{ "timestamp":1460250900,"value":11.4},
{ "timestamp":1460251800,"value":11.4},
{ "timestamp":1460252700,"value":11.4},
{ "timestamp":1460253600,"value":11.4},
{ "timestamp":1460254500,"value":11.4},
{ "timestamp":1460255400,"value":11.4},
{ "timestamp":1460256300,"value":11.4},
{ "timestamp":1460257200,"value":11.4},
{ "timestamp":1460258100,"value":11.4},
{ "timestamp":1460259000,"value":11.4},
{ "timestamp":1460259900,"value":11.4},
{ "timestamp":1460260800,"value":11.4},
{ "timestamp":1460261700,"value":11.4},
{ "timestamp":1460262600,"value":11.4},
{ "timestamp":1460263500,"value":11.4},
{ "timestamp":1460264400,"value":11.4},
{ "timestamp":1460265300,"value":11.4},
{ "timestamp":1460266200,"value":11.4},
{ "timestamp":1460267100,"value":11.4},
{ "timestamp":1460268000,"value":11.4},
{ "timestamp":1460268900,"value":11.4},
{ "timestamp":1460269800,"value":11.4},
{ "timestamp":1460270700,"value":11.4},
{ "timestamp":1460271600,"value":11.4},
{ "timestamp":1460272500,"value":11.4},
{ "timestamp":1460273400,"value":11.4},
{ "timestamp":1460274300,"value":11.4},
{ "timestamp":1460275200,"value":11.4},
{ "timestamp":1460276100,"value":11.4},
{ "timestamp":1460277000,"value":11.4},
{ "timestamp":1460277900,"value":11.4},
{ "timestamp":1460278800,"value":11.4},
{ "timestamp":1460279700,"value":11.4},
{ "timestamp":1460280600,"value":11.4},
{ "timestamp":1460281500,"value":11.4},
{ "timestamp":1460282400,"value":11.4},
{ "timestamp":1460283300,"value":11.4},
{ "timestamp":1460284200,"value":11.4},
{ "timestamp":1460285100,"value":11.4},
{ "timestamp":1460286000,"value":11.4},
{ "timestamp":1460286900,"value":11.4},
{ "timestamp":1460287800,"value":11.4},
{ "timestamp":1460288700,"value":11.4},
{ "timestamp":1460289600,"value":11.4},
{ "timestamp":1460290500,"value":11.4},
{ "timestamp":1460291400,"value":11.4},
{ "timestamp":1460292300,"value":11.4},
{ "timestamp":1460293200,"value":11.4},
{ "timestamp":1460294100,"value":11.4},
{ "timestamp":1460295000,"value":11.4},
{ "timestamp":1460295900,"value":11.4},
{ "timestamp":1460296800,"value":11.4},
{ "timestamp":1460297700,"value":11.4},
{ "timestamp":1460298600,"value":11.4},
```

```
{ "timestamp":1460299500,"value":11.4},
{ "timestamp":1460300400,"value":11.4},
{ "timestamp":1460301300,"value":11.4},
{ "timestamp":1460302200,"value":11.4},
{ "timestamp":1460303100,"value":11.4},
{ "timestamp":1460304000,"value":11.4},
{ "timestamp":1460304900,"value":11.4},
{ "timestamp":1460305800,"value":11.4},
{ "timestamp":1460306700,"value":11.4},
{ "timestamp":1460307600,"value":11.4},
{ "timestamp":1460308500,"value":11.4},
{ "timestamp":1460309400,"value":11.4},
{ "timestamp":1460310300,"value":11.4},
{ "timestamp":1460311200,"value":11.4},
{ "timestamp":1460312100,"value":11.4},
{ "timestamp":1460313000,"value":11.4},
{ "timestamp":1460313900,"value":11.4},
{ "timestamp":1460314800,"value":11.4},
{ "timestamp":1460315700,"value":11.4},
{ "timestamp":1460316600,"value":11.4},
{ "timestamp":1460318400,"value":11.4},
{ "timestamp":1460319300,"value":11.4},
{ "timestamp":1460320200,"value":11.4},
{ "timestamp":1460321100,"value":11.4},
{ "timestamp":1460322000,"value":11.4},
{ "timestamp":1460322900,"value":11.4},
{ "timestamp":1460323800,"value":11.4},
{ "timestamp":1460324700,"value":11.4},
{ "timestamp":1460325600,"value":11.4},
{ "timestamp":1460326500,"value":11.4},
{ "timestamp":1460327400,"value":11.4},
{ "timestamp":1460328300,"value":11.4},
{ "timestamp":1460329200,"value":11.4},
{ "timestamp":1460330100,"value":11.4},
{ "timestamp":1460331000,"value":11.4},
{ "timestamp":1460331900,"value":11.4},
{ "timestamp":1460332800,"value":11.4},
{ "timestamp":1460333700,"value":11.4},
{ "timestamp":1460334600,"value":11.4},
{ "timestamp":1460335500,"value":11.4},
{ "timestamp":1460336400,"value":11.4},
{ "timestamp":1460337300,"value":11.4},
{ "timestamp":1460338200,"value":11.4},
{ "timestamp":1460339100,"value":11.4},
{ "timestamp":1460340000,"value":11.4},
{ "timestamp":1460340900,"value":11.4},
{ "timestamp":1460341800,"value":11.4},
{ "timestamp":1460342700,"value":11.4},
{ "timestamp":1460343600,"value":11.4},
{ "timestamp":1460344500,"value":11.4},
{ "timestamp":1460345400,"value":11.4},
{ "timestamp":1460346300,"value":11.4},
{ "timestamp":1460347200,"value":11.4},
{ "timestamp":1460348100,"value":11.4},
{ "timestamp":1460349000,"value":11.4},
{ "timestamp":1460349900,"value":11.4},
{ "timestamp":1460350800,"value":11.4},
```

```
{ "timestamp":1460351700,"value":11.4},  
  { "timestamp":1460352600,"value":11.4},  
  { "timestamp":1460353500,"value":11.4},  
  { "timestamp":1460354400,"value":11.4},  
  { "timestamp":1460355300,"value":11.4},  
  { "timestamp":1460356200,"value":11.4},  
  { "timestamp":1460357100,"value":11.4},  
  { "timestamp":1460358000,"value":11.4},  
  { "timestamp":1460358900,"value":11.4},  
  { "timestamp":1460359800,"value":11.4},  
  { "timestamp":1460360700,"value":11.4},  
  { "timestamp":1460361600,"value":11.4}
```

```
]
```

```
}
```