**Weather observations**

site id:

* Discrete value range – 0-15
* Contains no null values
* diverges uniformly over different values

timestamp:

* hour frequency
* from 1/1/2017 until 31/12/2018
* yet not every site has the same amount. Has to be examined again.

Air temperature:

* 104 null values, mostly in 2-3 sites
* measured in Celsius degrees.
* values are rounded 1 digit after the decimal point.
* There is big difference between sites in all params.
* clear cycles both in hours and months.

Cloud coverage:

* Get discrete values of 0-9 – explain meaning.
* Many null values – about half.
* site 12 is almost without null values, sites 7, 11 are all null.
* No clear cycles. Strange 6-hour cycle.

Dew temperature:

* 327 null values, mostly in 2-3 sites.
* measured in Celsius degrees.
* values are rounded 1 digit after the decimal point.
* There is big difference between sites in all params.
* relatively smaller then air temperature.
* Meaningful cycle in months.

Precipitation depth:

* measured in mm – corresponds to liters every hour.
* 1/3 null values – mainly in 6 sites.
* 5/6 of existing data is 0.
* Exists a -1 value.

Sea level pressure

* 10618 null value, 80% of them in site 5 (where this value doesn't exist)
* Values are pretty similar between site.
* Measured in millibar.
* no time cycles at all (uniform both in hours and months).

Wind direction:

* 6268 null values over many sites.
* Measures in degrees from north.
* Many values are north directed (much more than average)
* Clear cycles in hours.

Wind speed:

* 304 null values
* When wind speed is 0, direction is set to be north (0 or 360).
* Measured in m/s
* There are differences between sites
* Clear time cycles

Data cleaning mission:

1. Air temperature: complete missing by close correlative hour and month.
2. Cloud coverage: Delete feature for all but site 12. In 12 complete by close times.
3. Dew temperature: complete null values by monthly average.
4. Precipitation: I need some advice.
5. Sea level pressure: different model for site 5.
6. Wind direction: new definition for direction of no wind. Complete missing by same hour next day.
7. Wind speed: complete missing by same hour next day.