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Summary of correlations of sensor kits and sensor modules

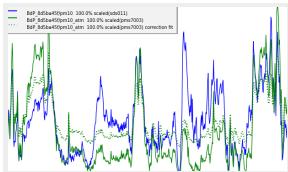
Sensorkits: BdP_8d5ba45f BdP_3f18c330 BdP_33040d54

Report generated on: Sun Sep 17 21:03:32 CEST 2017

R-square and statistical summary

Measurement PM10 correlation key values

Correlation 1 - PM10 - kit BdP_8d5ba45f sensor type **SDS011** with kit BdP_8d5ba45f sensor type **PMS7003**:



nr samples 672, min= 0.71, max=69.57

avg=19.92, std dev=15.13

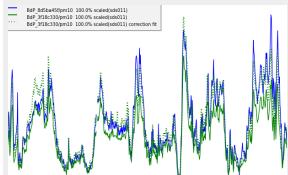
R-squared:

0.4693

Best fit polynomial coefficients:

[1.264e+01, 5.254e-01]

Correlation 2 - PM10 - kit BdP_8d5ba45f sensor type **SDS011** with kit BdP_3f18c330 sensor type **SDS011**:



nr samples 670, min= 2.86, max=48.00

avg=18.05, std dev= 8.48

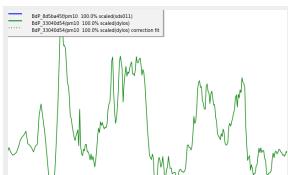
R-squared:

0.9191

Best fit polynomial coefficients:

[-6.084e-01, 1.313e+00]

Correlation 3 - PM10 - kit BdP_8d5ba45f sensor type **SDS011** with kit BdP_33040d54 sensor type **DYLOS**:



nr samples 284, min=30.00, max=674.00

avg=231.12, std dev=135.27

R-squared:

0.4909

Best fit polynomial coefficients:

[1.105e+01, 6.722e-02]

Correlation 4 - PM10 - kit BdP_8d5ba45f sensor type **SDS011** with kit BdP_33040d54 sensor type **PPD42NS**:



nr samples 150, min= 1.00, max=1098.00

avg=41.05, std dev=132.08

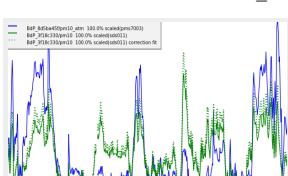
R-squared:

0.0020

Best fit polynomial coefficients:

[2.545e+01, -4.229e-03]

Correlation 5 - PM10 - kit BdP_8d5ba45f sensor type **PMS7003** with kit BdP_3f18c330 sensor type **SDS011**:



nr samples 670, min= 2.86, max=48.00

avg=18.05, std dev= 8.48

R-squared:

0.4542

Best fit polynomial coefficients:

[-1.776e+00, 1.203e+00]

Correlation 6 - PM10 - kit BdP_8d5ba45f sensor type **PMS7003** with kit BdP_33040d54 sensor type **DYLOS**:



nr samples 284, min=30.00, max=674.00

avg=231.12, std dev=135.27

R-squared:

0.0081

Best fit polynomial coefficients:

[1.855e+01, 1.083e-02]

Correlation 7 - PM10 - kit BdP_8d5ba45f sensor type **PMS7003** with kit BdP_33040d54 sensor type **PPD42NS**:



nr samples 150, min= 1.00, max=1098.00

avg=41.05, std dev=132.08

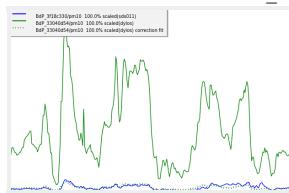
R-squared:

0.0273

Best fit polynomial coefficients:

[1.742e+01, 1.978e-02]

Correlation 8 - PM10 - kit BdP_3f18c330 sensor type SDS011 with kit BdP_33040d54 sensor type DYLOS:



nr samples 306, min=30.00, max=630.25

avg=226.20, std dev=131.90

R-squared:

0.5499

Best fit polynomial coefficients:

[7.885e+00, 5.147e-02]

Correlation 9 - PM10 - kit BdP_3f18c330 sensor type SDS011 with kit BdP_33040d54 sensor type PPD42NS:



nr samples 144, min= 1.00, max=1098.00

avg=41.67, std dev=134.87

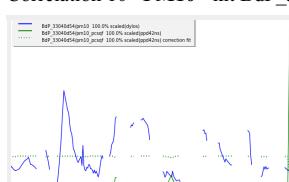
R-squared:

0.0011

Best fit polynomial coefficients:

[1.979e+01, -2.150e-03]

Correlation 10 - PM10 - kit BdP_33040d54 sensor type DYLOS with kit BdP_33040d54 sensor type PPD42NS:



nr samples 131, min= 1.00, max=1098.00

avg=43.84, std dev=140.95

R-squared:

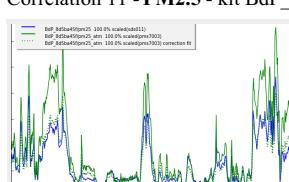
0.0151

Best fit polynomial coefficients:

[2.364e+02, -1.133e-01]

Measurement PM2.5 correlation key values

Correlation 11 - PM2.5 - kit BdP_8d5ba45f sensor type SDS011 with kit BdP_8d5ba45f sensor type PMS7003:



nr samples 672, min=108.43, max=13046.57

avg=3644.57, std dev=2937.81

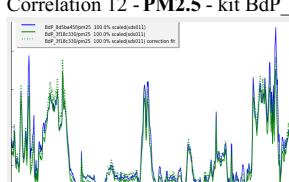
R-squared:

0.9414

Best fit polynomial coefficients:

[4.946e+02, 5.682e-01]

Correlation 12 - PM2.5 - kit BdP_8d5ba45f sensor type SDS011 with kit BdP_3f18c330 sensor type SDS011:



nr samples 670, min=330.00, max=7028.86

avg=2214.76, std dev=1584.59

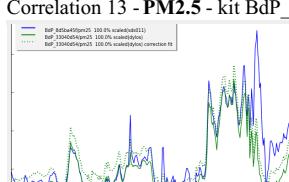
R-squared:

0.9576

Best fit polynomial coefficients:

[2.122e+02, 1.064e+00]

Correlation 13 - PM2.5 - kit BdP_8d5ba45f sensor type SDS011 with kit BdP_33040d54 sensor type DYLOS:



nr samples 284, min=235.00, max=6690.00

avg=2018.13, std dev=1561.39

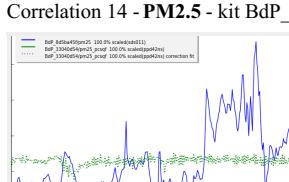
R-squared:

0.7195

Best fit polynomial coefficients:

[6.752e+02, 1.010e+00]

Correlation 14 - PM2.5 - kit BdP_8d5ba45f sensor type SDS011 with kit BdP_33040d54 sensor type PPD42NS:



nr samples 309, min=148.27, max=722.53

avg=310.82, std dev=90.13

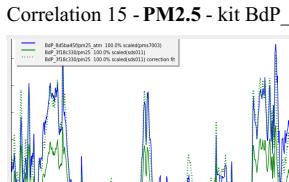
R-squared:

0.0163

Best fit polynomial coefficients:

[3.401e+03, -2.594e+00]

Correlation 15 - PM2.5 - kit BdP_8d5ba45f sensor type PMS7003 with kit BdP_3f18c330 sensor type SDS011:



nr samples 670, min=330.00, max=7028.86

avg=2214.76, std dev=1584.59

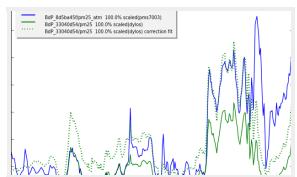
R-squared:

0.9344

Best fit polynomial coefficients:

[-3.230e+02, 1.794e+00]

Correlation 16 - PM2.5 - kit BdP_8d5ba45f sensor type PMS7003 with kit BdP_33040d54 sensor type DYLOS:



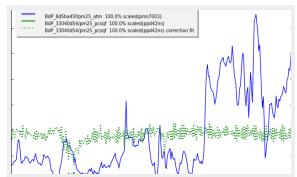
nr samples 284, min=235.00, max=6690.00
avg=2018.13, std dev=1561.39

R-squared:

0.6083

Best fit polynomial coefficients:
[6.417e+02, 1.577e+00]

Correlation 17 - PM2.5 - kit BdP_8d5ba45f sensor type PMS7003 with kit BdP_33040d54 sensor type PPD42NS:



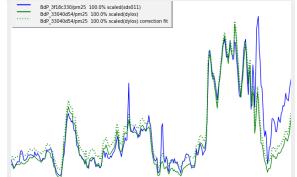
nr samples 309, min=148.27, max=722.53
avg=310.82, std dev=90.13

R-squared:

0.0268

Best fit polynomial coefficients:
[5.379e+03, -5.633e+00]

Correlation 18 - PM2.5 - kit BdP_3f18c330 sensor type SDS011 with kit BdP_33040d54 sensor type DYLOS:



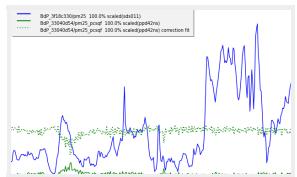
nr samples 306, min=235.00, max=6690.00
avg=1935.60, std dev=1525.72

R-squared:

0.8238

Best fit polynomial coefficients:
[3.670e+02, 9.655e-01]

Correlation 19 - PM2.5 - kit BdP_3f18c330 sensor type SDS011 with kit BdP_33040d54 sensor type PPD42NS:



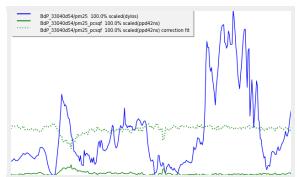
nr samples 309, min=180.76, max=820.71
avg=311.80, std dev=86.43

R-squared:

0.0115

Best fit polynomial coefficients:
[2.852e+03, -2.011e+00]

Correlation 20 - PM2.5 - kit BdP_33040d54 sensor type DYLOS with kit BdP_33040d54 sensor type PPD42NS:



nr samples 280, min=204.20, max=654.77
avg=311.90, std dev=69.67

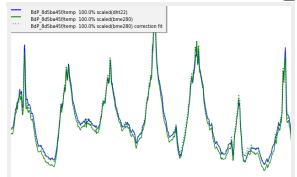
R-squared:

0.0096

Best fit polynomial coefficients:
[2.724e+03, -2.204e+00]

Measurement TEMP correlation key values

Correlation 21 - TEMP - kit BdP_8d5ba45f sensor type DHT22 with kit BdP_8d5ba45f sensor type BME280:



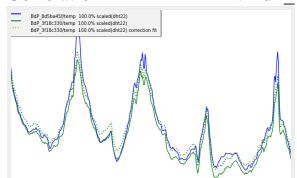
nr samples 672, min=13.43, max=28.03
avg=17.88, std dev= 2.80

R-squared:

0.9893

Best fit polynomial coefficients:
[1.111e+00, 9.595e-01]

Correlation 22 - TEMP - kit BdP_8d5ba45f sensor type DHT22 with kit BdP_3f18c330 sensor type DHT22:



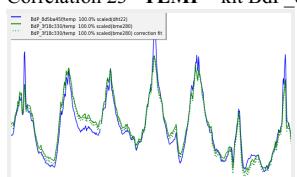
nr samples 441, min= 0.00, max=24.60
avg=17.43, std dev= 2.79

R-squared:

0.8768

Best fit polynomial coefficients:
[1.024e+00, 9.851e-01]

Correlation 23 - TEMP - kit BdP_8d5ba45f sensor type DHT22 with kit BdP_3f18c330 sensor type BME280:



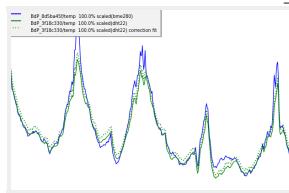
nr samples 670, min=14.07, max=25.21
avg=18.52, std dev= 2.55

R-squared:

0.9334

Best fit polynomial coefficients:
[-7.034e-01, 1.024e+00]

Correlation 24 - TEMP - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_3f18c330 sensor type **DHT22**:



nr samples 441, min= 0.00, max=24.60

avg=17.43, std dev= 2.79

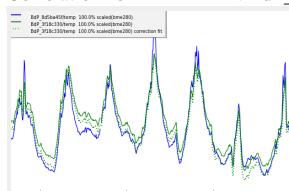
R-squared:

0.8708

Best fit polynomial coefficients:

[1.655e-02, 1.024e+00]

Correlation 25 - TEMP - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_3f18c330 sensor type **BME280**:



nr samples 670, min=14.07, max=25.21

avg=18.52, std dev= 2.55

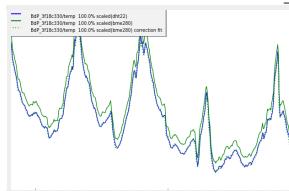
R-squared:

0.9263

Best fit polynomial coefficients:

[-1.710e+00, 1.058e+00]

Correlation 26 - TEMP - kit BdP_3f18c330 sensor type **DHT22** with kit BdP_3f18c330 sensor type **BME280**:



nr samples 441, min=14.07, max=25.23

avg=18.21, std dev= 2.72

R-squared:

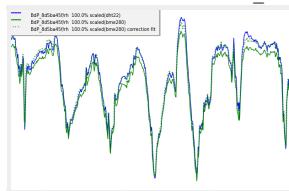
0.8991

Best fit polynomial coefficients:

[-2.871e-01, 9.729e-01]

Measurement RH correlation key values

Correlation 27 - RH - kit BdP_8d5ba45f sensor type **DHT22** with kit BdP_8d5ba45f sensor type **BME280**:



nr samples 672, min=33.62, max=80.61

avg=64.99, std dev= 9.94

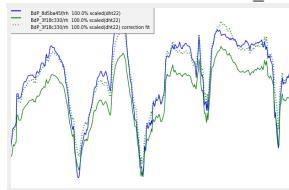
R-squared:

0.9911

Best fit polynomial coefficients:

[-1.104e+00, 1.050e+00]

Correlation 28 - RH - kit BdP_8d5ba45f sensor type **DHT22** with kit BdP_3f18c330 sensor type **DHT22**:



nr samples 441, min= 0.00, max=75.34

avg=59.55, std dev= 9.72

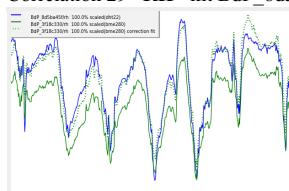
R-squared:

0.8798

Best fit polynomial coefficients:

[8.241e-01, 1.093e+00]

Correlation 29 - RH - kit BdP_8d5ba45f sensor type **DHT22** with kit BdP_3f18c330 sensor type **BME280**:



nr samples 670, min=34.60, max=75.89

avg=59.10, std dev= 8.81

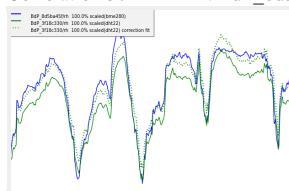
R-squared:

0.9385

Best fit polynomial coefficients:

[-1.070e+00, 1.154e+00]

Correlation 30 - RH - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_3f18c330 sensor type **DHT22**:



nr samples 441, min= 0.00, max=75.34

avg=59.55, std dev= 9.72

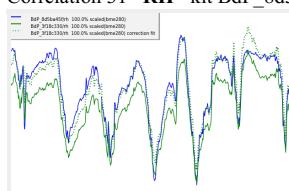
R-squared:

0.8683

Best fit polynomial coefficients:

[2.721e+00, 1.024e+00]

Correlation 31 - RH - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_3f18c330 sensor type **BME280**:



nr samples 670, min=34.60, max=75.89

avg=59.10, std dev= 8.81

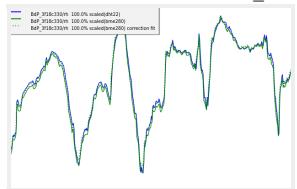
R-squared:

0.9280

Best fit polynomial coefficients:

[6.933e-01, 1.088e+00]

Correlation 32 - **RH** - kit BdP_3f18c330 sensor type **DHT22** with kit BdP_3f18c330 sensor type **BME280**:



nr samples 441, min=35.28, max=75.90

avg=58.90, std dev= 9.64

R-squared:

0.9135

Best fit polynomial coefficients:
[2.751e+00, 9.644e-01]

Measurement PHA correlation key values

Correlation 33 - **PHA** - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_3f18c330 sensor type **BME280**:

nr samples 670, min=99181.25, max=100956.27

avg=99969.64, std dev=515.18

R-squared:

0.9999

Best fit polynomial coefficients:
[4.700e+02, 9.958e-01]

Sensor sds011@BdP_8d5ba45f with sensor pms7003@BdP_8d5ba45f

correlation report for pm10 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f

Date of correlation report: Sun Sep 17 21:03:26 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, pms7003

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm10: 672 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm10_atm: 672 db records, deleted 0 NaN records.

Collected 672 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10_atm:

number 672, min= 0.71, max=69.57

avg=19.92, std dev=15.13

R-squared (R^2) with BdP_8d5ba45f/pm10_atm: 0.4693

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm10 (pms7003)-> best fit coefficients:

1.264e+01, 5.254e-01

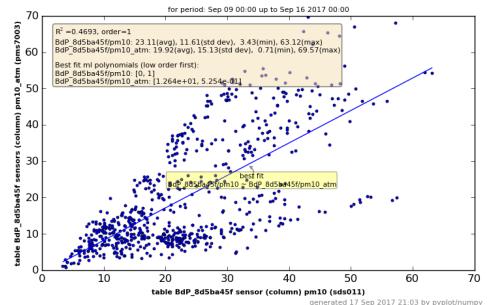
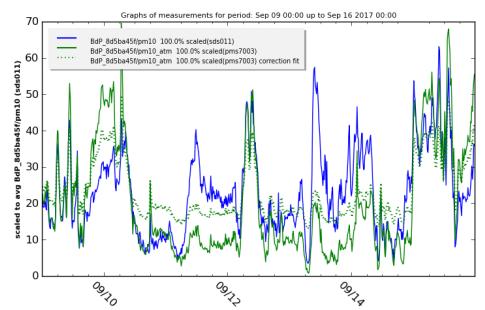
Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_8d5ba45f/pm10_atm']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.469
Model:	OLS	Adj. R-squared:	0.469
Method:	Least Squares	F-statistic:	592.6
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	2.91e-94
Time:	21:03:28	Log-Likelihood:	-2388.0
No. Observations:	672	AIC:	4780.
Df Residuals:	670	BIC:	4789.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm10_atm	12.6407	0.540	23.411	0.000 11.580 13.701

Omnibus:	91.457	Durbin-Watson:	0.104
Prob(Omnibus):	0.000	Jarque-Bera (JB):	128.876
Skew:	0.977	Prob(JB):	1.03e-28
Kurtosis:	3.888	Cond. No.	41.4



Sensor sds011@BdP_8d5ba45f with sensor sds011@BdP_3f18c330

correlation report for pm10 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:03:32 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm10: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10: 670 db records, deleted 0 NaN records.

Collected 670 values in sample time frame (17m/21s) for the graph. Skipped 2 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:21s.

Data from table/sheet BdP_3f18c330, sensor (column) pm10:

number 670, min= 2.86, max=48.00

avg=18.05, std dev= 8.48

R-squared (R^2) with BdP_3f18c330/pm10: 0.9191

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm10 (sds011)-> best fit coefficients:

-6.084e-01, 1.313e+00

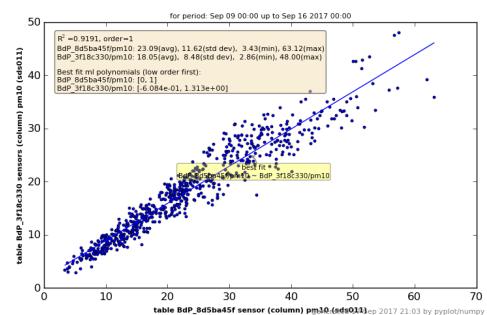
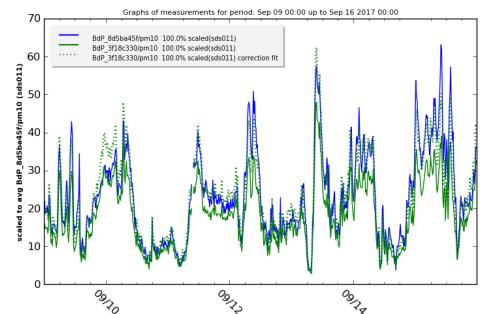
Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_3f18c330/pm10']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.919
Model:	OLS	Adj. R-squared:	0.919
Method:	Least Squares	F-statistic:	7587.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00
Time:	21:03:32	Log-Likelihood:	-1751.6
No. Observations:	670	AIC:	3507.
Df Residuals:	668	BIC:	3516.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm10	-0.6084	0.301	-2.024	0.043 -1.199 -0.018

Omnibus:	70.747	Durbin-Watson:	0.629
Prob(Omnibus):	0.000	Jarque-Bera (JB):	132.076
Skew:	0.657	Prob(JB):	2.09e-29
Kurtosis:	4.734	Cond. No.	47.0



Sensor sds011@BdP_8d5ba45f with sensor dylos@BdP_33040d54

correlation report for pm10 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:03:34 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, dylos

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm10: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1582 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10: 284 db records, deleted 0 NaN records.

Collected 284 values in sample time frame (26m/22s) for the graph. Skipped 388 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 26m:22s.

Data from table/sheet BdP_33040d54, sensor (column) pm10:

number 284, min=30.00, max=674.00

avg=231.12, std dev=135.27

R-squared (R^2) with BdP_33040d54/pm10: 0.4909

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm10 (dylos)-> best fit coefficients:

1.105e+01, 6.722e-02

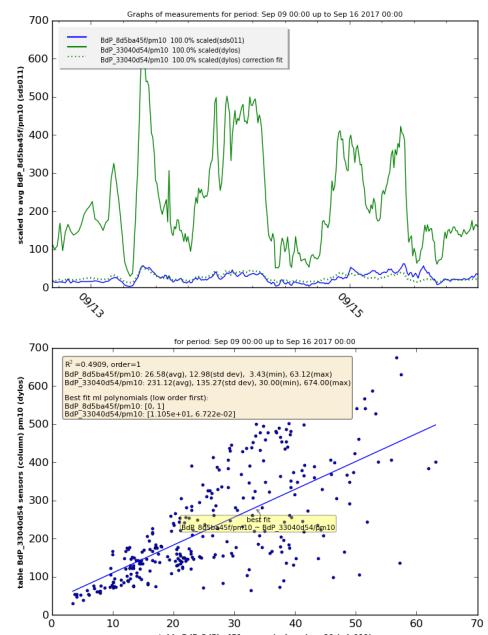
Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_33040d54/pm10']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.491
Model:	OLS	Adj. R-squared:	0.489
Method:	Least Squares	F-statistic:	271.9
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	3.07e-43
Time:	21:03:35	Log-Likelihood:	-1035.1
No. Observations:	284	AIC:	2074.
Df Residuals:	282	BIC:	2081.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10	11.0482	1.092	10.121	0.000 8.899 13.197

Omnibus:	56.430	Durbin-Watson:	0.139
Prob(Omnibus):	0.000	Jarque-Bera (JB):	85.352
Skew:	1.215	Prob(JB):	2.92e-19
Kurtosis:	4.143	Cond. No.	530.



Sensor sds011@BdP_8d5ba45f with sensor ppd42ns@BdP_33040d54

correlation report for pm10 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:03:36 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm10: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 2997 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 78 db records, deleted 0 NaN records.

Collected 150 values in sample time frame (49m:57s) for the graph. Skipped 522 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 49m:57s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_pcsqf:

number 150, min= 1.00, max=1098.00

avg=41.05, std dev=132.08

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0020

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm10 (ppd42ns)-> best fit coefficients:

2.545e+01, -4.229e-03

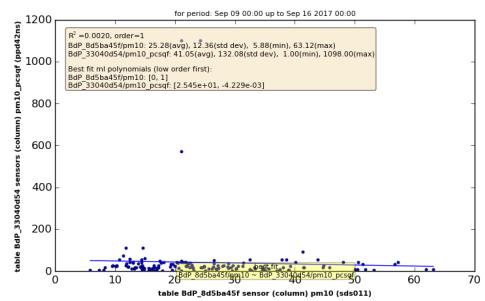
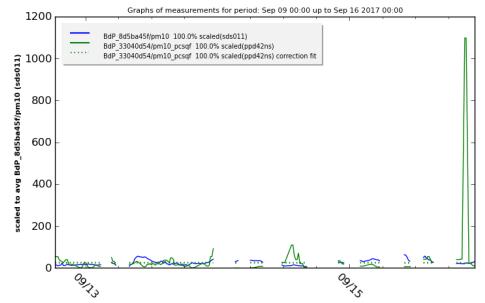
Statistical summary linear regression for BdP_8d5ba45f/pm10 with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.002
Model:	OLS	Adj. R-squared:	-0.005
Method:	Least Squares	F-statistic:	0.3028
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.583
Time:	21:03:37	Log-Likelihood:	-589.89
No. Observations:	150	AIC:	1184.
Df Residuals:	148	BIC:	1190.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	25.4540	1.063	23.944	0.000 23.353 27.555

Omnibus:	17.678	Durbin-Watson:	0.219
Prob(Omnibus):	0.000	Jarque-Bera (JB):	20.462
Skew:	0.894	Prob(JB):	3.60e-05
Kurtosis:	3.278	Cond. No.	145.



Sensor pms7003@BdP_8d5ba45f with sensor sds011@BdP_3f18c330

correlation report for pm10 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:03:38 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, pms7003

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm10_atm: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10: 670 db records, deleted 0 NaN records.

Collected 670 values in sample time frame (17m/21s) for the graph. Skipped 2 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:21s.

Data from table/sheet BdP_3f18c330, sensor (column) pm10:

number 670, min= 2.86, max=48.00

avg=18.05, std dev= 8.48

R-squared (R^2) with BdP_3f18c330/pm10: 0.4542

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm10_atm (sds011)-> best fit coefficients:

-1.776e+00, 1.203e+00

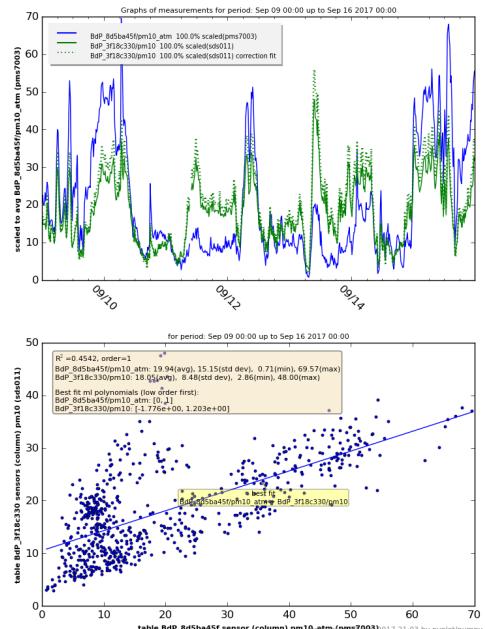
Statistical summary linear regression for BdP_8d5ba45f/pm10_atm with ['BdP_3f18c330/pm10']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10_atm	R-squared:	0.454
Model:	OLS	Adj. R-squared:	0.453
Method:	Least Squares	F-statistic:	556.0
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	6.64e-90
Time:	21:03:38	Log-Likelihood:	-2568.8
No. Observations:	670	AIC:	5142.
Df Residuals:	668	BIC:	5151.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm10	-1.7764	1.018	-1.745	0.081 -3.775 0.222

Omnibus:	2.412	Durbin-Watson:	0.064
Prob(Omnibus):	0.299	Jarque-Bera (JB):	2.484
Skew:	-0.130	Prob(JB):	0.289
Kurtosis:	2.852	Cond. No.	47.0



Sensor pms7003@BdP_8d5ba45f with sensor dylos@BdP_33040d54

correlation report for pm10 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:03:40 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): dylos, pms7003

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm10_atm: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1582 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10: 284 db records, deleted 0 NaN records.

Collected 284 values in sample time frame (26m/22s) for the graph. Skipped 388 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 26m:22s.

Data from table/sheet BdP_33040d54, sensor (column) pm10:

number 284, min=30.00, max=674.00

avg=231.12, std dev=135.27

R-squared (R^2) with BdP_33040d54/pm10: 0.0081

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm10_atm (dylos)-> best fit coefficients:

1.855e+01, 1.083e-02

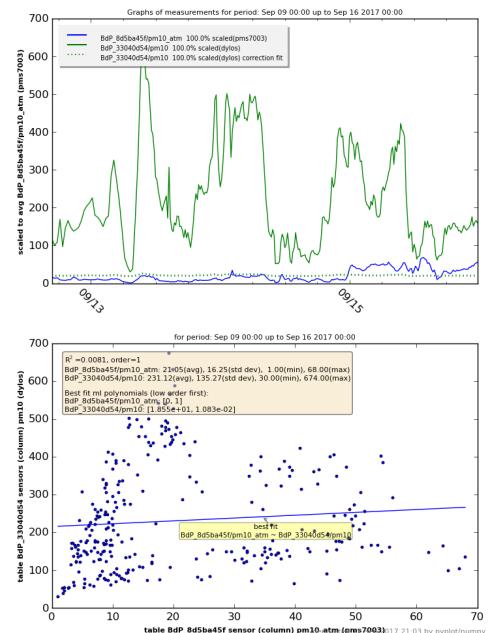
Statistical summary linear regression for BdP_8d5ba45f/pm10_atm with ['BdP_33040d54/pm10']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10_atm	R-squared:	0.008
Model:	OLS	Adj. R-squared:	0.005
Method:	Least Squares	F-statistic:	2.308
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.130
Time:	21:03:41	Log-Likelihood:	-1193.7
No. Observations:	284	AIC:	2391.
Df Residuals:	282	BIC:	2399.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10	18.5498	1.908	9.721	0.000 14.794 22.306

Omnibus:	34.557	Durbin-Watson:	0.057
Prob(Omnibus):	0.000	Jarque-Bera (JB):	44.423
Skew:	0.959	Prob(JB):	2.26e-10
Kurtosis:	2.725	Cond. No.	530.



Sensor pms7003@BdP_8d5ba45f with sensor ppd42ns@BdP_33040d54

correlation report for pm10 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:03:42 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, pms7003

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm10_atm: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 2997 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 78 db records, deleted 0 NaN records.

Collected 150 values in sample time frame (49m:57s) for the graph. Skipped 522 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 49m:57s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_pcsqf:

number 150, min= 1.00, max=1098.00

avg=41.05, std dev=132.08

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0273

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm10_atm (ppd42ns)-> best fit coefficients:

1.742e+01, 1.978e-02

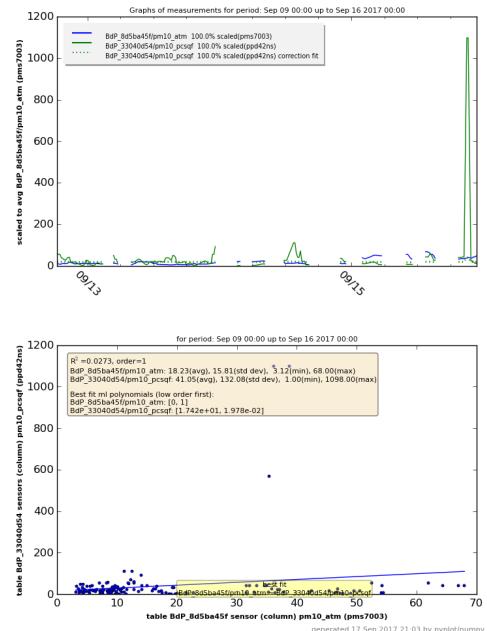
Statistical summary linear regression for BdP_8d5ba45f/pm10_atm with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10_atm	R-squared:	0.027
Model:	OLS	Adj. R-squared:	0.021
Method:	Least Squares	F-statistic:	4.160
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.0432
Time:	21:03:43	Log-Likelihood:	-624.81
No. Observations:	150	AIC:	1254.
Df Residuals:	148	BIC:	1260.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	17.4166	1.342	12.981	0.000	14.765 20.068

Omnibus:	41.120	Durbin-Watson:	0.110
Prob(Omnibus):	0.000	Jarque-Bera (JB):	64.135
Skew:	1.488	Prob(JB):	1.18e-14
Kurtosis:	4.183	Cond. No.	145.



Sensor sds011@BdP_3f18c330 with sensor dylos@BdP_33040d54

correlation report for pm10 (raw) measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:03:44 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, dylos

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10: 670 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1756 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10: 250 db records, deleted 0 NaN records.

Collected 306 values in sample time frame (29m/16s) for the graph. Skipped 364 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 29m:16s.

Data from table/sheet BdP_33040d54, sensor (column) pm10:

number 306, min=30.00, max=630.25

avg=226.20, std dev=131.90

R-squared (R^2) with BdP_33040d54/pm10: 0.5499

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_3f18c330/pm10 (dylos)-> best fit coefficients:

7.885e+00, 5.147e-02

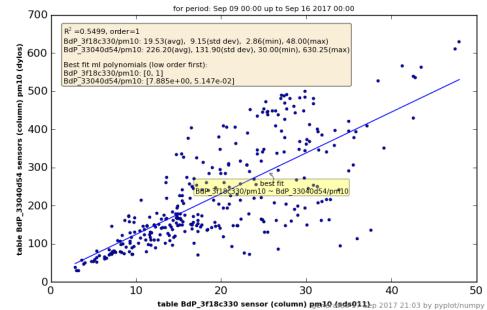
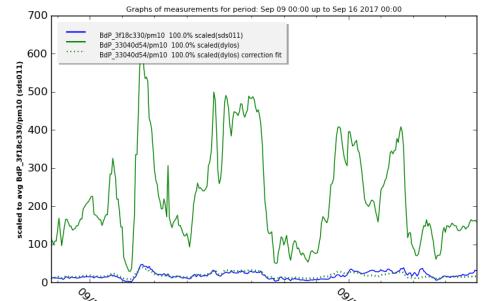
Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_33040d54/pm10']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.550
Model:	OLS	Adj. R-squared:	0.548
Method:	Least Squares	F-statistic:	371.3
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	1.25e-54
Time:	21:03:44	Log-Likelihood:	-989.63
No. Observations:	306	AIC:	1983.
Df Residuals:	304	BIC:	1991.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10	7.8848	0.699	11.275	0.000 6.509 9.261

Omnibus:	47.339	Durbin-Watson:	0.195
Prob(Omnibus):	0.000	Jarque-Bera (JB):	65.068
Skew:	1.039	Prob(JB):	7.42e-15
Kurtosis:	3.885	Cond. No.	520.



Sensor sds011@BdP_3f18c330 with sensor ppd42ns@BdP_33040d54

correlation report for pm10 (raw) measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:03:46 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm10: 670 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 2712 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 74 db records, deleted 0 NaN records.

Collected 144 values in sample time frame (45m/12s) for the graph. Skipped 526 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 45m:12s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_pcsqf:

number 144, min= 1.00, max=1098.00

avg=41.67, std dev=134.87

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0011

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_3f18c330/pm10 (ppd42ns)-> best fit coefficients:

1.979e+01, -2.150e-03

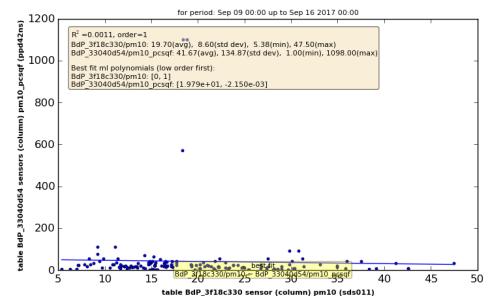
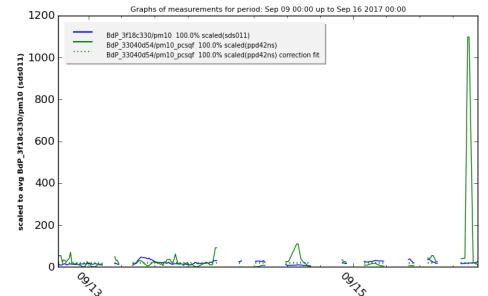
Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_33040d54/pm10_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.001
Model:	OLS	Adj. R-squared:	-0.006
Method:	Least Squares	F-statistic:	0.1615
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.688
Time:	21:03:46	Log-Likelihood:	-514.17
No. Observations:	144	AIC:	1032.
Df Residuals:	142	BIC:	1038.
Df Model:	1		

	coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	19.7935	0.755	26.205	0.000	18.300 21.287

Omnibus:	14.629	Durbin-Watson:	0.210
Prob(Omnibus):	0.001	Jarque-Bera (JB):	16.195
Skew:	0.811	Prob(JB):	0.000304
Kurtosis:	3.258	Cond. No.	148.



Sensor dylos@BdP_33040d54 with sensor ppd42ns@BdP_33040d54

correlation report for pm10 (raw) measurements

Correlation details of project BdP sensor kit ID 33040d54 with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:03:48 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, dylos

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Auto interval samples is (re)set to 1582 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10: 284 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 2850 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm10_pcsqf: 66 db records, deleted 0 NaN records.

Collected 131 values in sample time frame (47m/30s) for the graph. Skipped 153 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 47m:30s.

Data from table/sheet BdP_33040d54, sensor (column) pm10_pcsqf:

number 131, min= 1.00, max=1098.00

avg=43.84, std dev=140.95

R-squared (R^2) with BdP_33040d54/pm10_pcsqf: 0.0151

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_33040d54/pm10 (ppd42ns)-> best fit coefficients:

2.364e+02, -1.133e-01

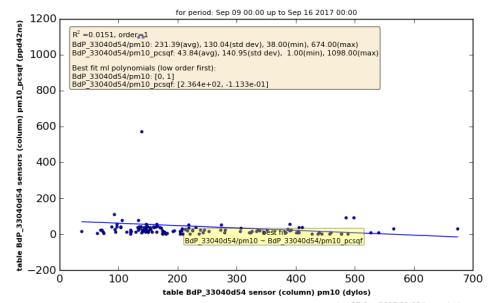
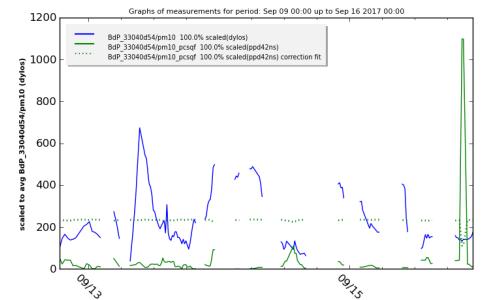
Statistical summary linear regression for BdP_33040d54/pm10 with [BdP_33040d54/pm10_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm10	R-squared:	0.015
Model:	OLS	Adj. R-squared:	0.007
Method:	Least Squares	F-statistic:	1.975
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.162
Time:	21:03:48	Log-Likelihood:	-822.57
No. Observations:	131	AIC:	1649.
Df Residuals:	129	BIC:	1655.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm10_pcsqf	236.3518	11.900	19.862	0.000 212.808 259.896

Omnibus:	19.102	Durbin-Watson:	0.262
Prob(Omnibus):	0.000	Jarque-Bera (JB):	23.082
Skew:	1.019	Prob(JB):	9.72e-06
Kurtosis:	3.268	Cond. No.	155.



Sensor sds011@BdP_8d5ba45f with sensor pms7003@BdP_8d5ba45f

correlation report for pm25 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f

Date of correlation report: Sun Sep 17 21:03:50 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, pms7003

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm25: 672 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) pm25_atm: 672 db records, deleted 0 NaN records.

Collected 672 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25_atm:

number 672, min=108.43, max=13046.57

avg=3644.57, std dev=2937.81

R-squared (R^2) with BdP_8d5ba45f/pm25_atm: 0.9414

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm25 (pms7003)-> best fit coefficients:

4.946e+02, 5.682e-01

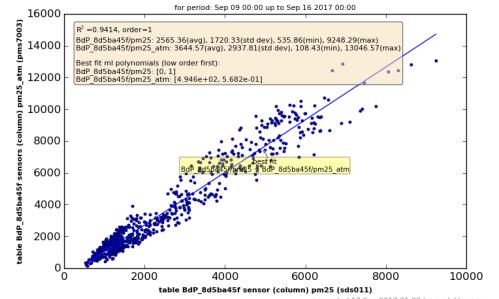
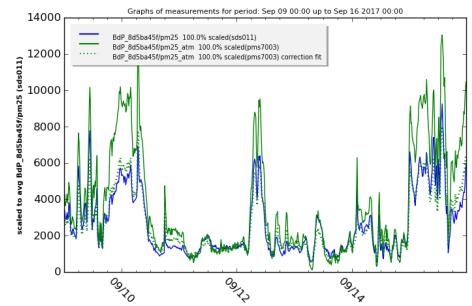
Statistical summary linear regression for BdP_8d5ba45f/pm25 with ['BdP_8d5ba45f/pm25_atm']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.941
Model:	OLS	Adj. R-squared:	0.941
Method:	Least Squares	F-statistic:	1.077e+04
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00
Time:	21:03:50	Log-Likelihood:	-5006.8
No. Observations:	672	AIC:	1.002e+04
Df Residuals:	670	BIC:	1.003e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/pm25_atm	494.6123	25.632	19.297	0.000 444.283 544.941

Omnibus:	26.506	Durbin-Watson:	0.173
Prob(Omnibus):	0.000	Jarque-Bera (JB):	38.922
Skew:	0.340	Prob(JB):	3.53e-09
Kurtosis:	3.963	Cond. No.	7.46e+03



Sensor sds011@BdP_8d5ba45f with sensor sds011@BdP_3f18c330

correlation report for pm25 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:03:52 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm25: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm25: 670 db records, deleted 0 NaN records.

Collected 670 values in sample time frame (17m/21s) for the graph. Skipped 2 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:21s.

Data from table/sheet BdP_3f18c330, sensor (column) pm25:

number 670, min=330.00, max=7028.86

avg=2214.76, std dev=1584.59

R-squared (R^2) with BdP_3f18c330/pm25: 0.9576

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm25 (sds011)-> best fit coefficients:

2.122e+02, 1.064e+00

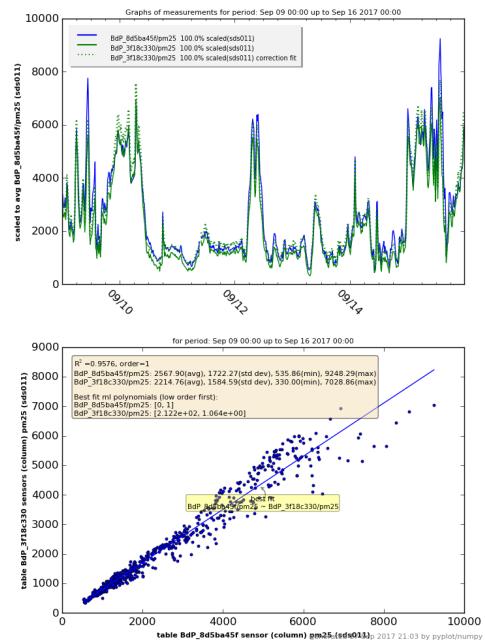
Statistical summary linear regression for BdP_8d5ba45f/pm25 with ['BdP_3f18c330/pm25']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.958
Model:	OLS	Adj. R-squared:	0.958
Method:	Least Squares	F-statistic:	1.510e+04
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00
Time:	21:03:52	Log-Likelihood:	-4884.0
No. Observations:	670	AIC:	9772.
Df Residuals:	668	BIC:	9781.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm25	212.2407	23.572	9.004	0.000 165.957 258.524

Omnibus:	265.618	Durbin-Watson:	0.174
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1462.617
Skew:	1.696	Prob(JB):	0.00
Kurtosis:	9.395	Cond. No.	4.68e+03



Sensor sds011@BdP_8d5ba45f with sensor dylos@BdP_33040d54

correlation report for pm25 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:03:54 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, dylos

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm25: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1582 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm25: 284 db records, deleted 0 NaN records.

Collected 284 values in sample time frame (26m/22s) for the graph. Skipped 388 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 26m:22s.

Data from table/sheet BdP_33040d54, sensor (column) pm25:

number 284, min=235.00, max=6690.00

avg=2018.13, std dev=1561.39

R-squared (R^2) with BdP_33040d54/pm25: 0.7195

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm25 (dylos)-> best fit coefficients:

6.752e+02, 1.010e+00

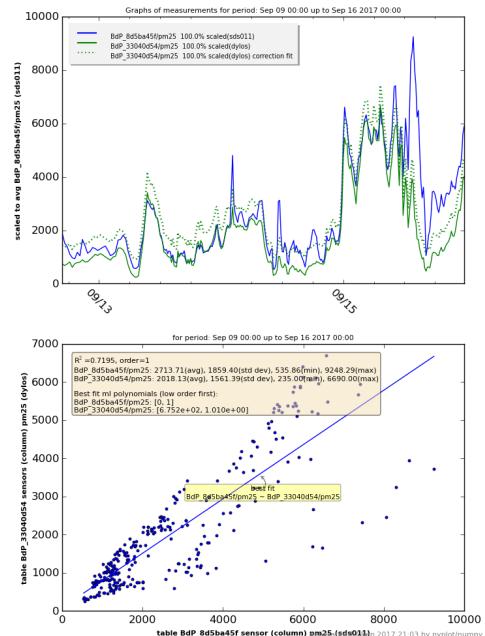
Statistical summary linear regression for BdP_8d5ba45f/pm25 with ['BdP_33040d54/pm25']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.719
Model:	OLS	Adj. R-squared:	0.718
Method:	Least Squares	F-statistic:	723.2
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	8.17e-80
Time:	21:03:54	Log-Likelihood:	-2360.4
No. Observations:	284	AIC:	4725.
Df Residuals:	282	BIC:	4732.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25	675.1781	95.839	7.045	0.000 486.527 863.829

Omnibus:	174.181	Durbin-Watson:	0.106
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1088.438
Skew:	2.569	Prob(JB):	4.45e-237
Kurtosis:	11.098	Cond. No.	4.17e+03



Sensor sds011@BdP_8d5ba45f with sensor ppd42ns@BdP_33040d54

correlation report for pm25 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:03:56 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm25: 672 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 309 db records, deleted 0 NaN records.

Collected 309 values in sample time frame (15m/0s) for the graph. Skipped 363 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_pcsqf:

number 309, min=148.27, max=722.53

avg=310.82, std dev=90.13

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.0163

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm25 (ppd42ns)-> best fit coefficients:

3.401e+03, -2.594e+00

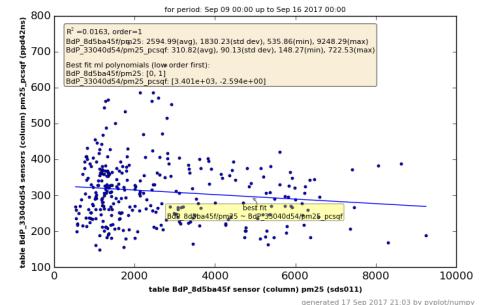
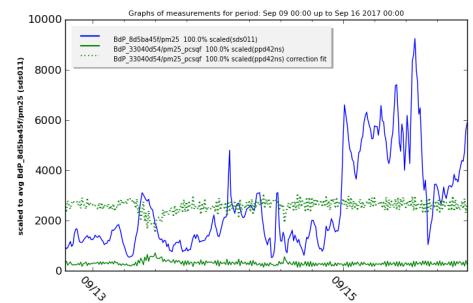
Statistical summary linear regression for BdP_8d5ba45f/pm25 with [BdP_33040d54/pm25_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.016
Model:	OLS	Adj. R-squared:	0.013
Method:	Least Squares	F-statistic:	5.092
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.0247
Time:	21:03:56	Log-Likelihood:	-2757.2
No. Observations:	309	AIC:	5518.
Df Residuals:	307	BIC:	5526.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	3401.1849	371.998	9.143	0.000 2669.197 4133.173

Omnibus:	49.511	Durbin-Watson:	0.094
Prob(Omnibus):	0.000	Jarque-Bera (JB):	68.733
Skew:	1.125	Prob(JB):	1.19e-15
Kurtosis:	3.527	Cond. No.	1.16e+03



Sensor pms7003@BdP_8d5ba45f with sensor sds011@BdP_3f18c330

correlation report for pm25 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:03:58 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, pms7003

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm25_atm: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm25: 670 db records, deleted 0 NaN records.

Collected 670 values in sample time frame (17m/21s) for the graph. Skipped 2 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:21s.

Data from table/sheet BdP_3f18c330, sensor (column) pm25:

number 670, min=330.00, max=7028.86

avg=2214.76, std dev=1584.59

R-squared (R^2) with BdP_3f18c330/pm25: 0.9344

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm25_atm (sds011)-> best fit coefficients:

-3.230e+02, 1.794e+00

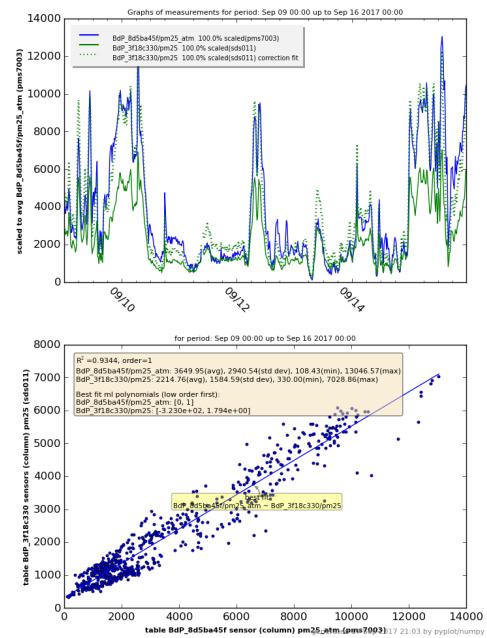
Statistical summary linear regression for BdP_8d5ba45f/pm25_atm with ['BdP_3f18c330/pm25']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25_atm	R-squared:	0.934
Model:	OLS	Adj. R-squared:	0.934
Method:	Least Squares	F-statistic:	9521.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00
Time:	21:03:58	Log-Likelihood:	-5388.8
No. Observations:	670	AIC:	1.078e+04
Df Residuals:	668	BIC:	1.079e+04
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pm25	-323.0035	50.066	-6.452	0.000 -421.309 -224.698

Omnibus:	116.874	Durbin-Watson:	0.164
Prob(Omnibus):	0.000	Jarque-Bera (JB):	281.763
Skew:	0.917	Prob(JB):	6.55e-62
Kurtosis:	5.594	Cond. No.	4.68e+03



Sensor pms7003@BdP_8d5ba45f with sensor dylos@BdP_33040d54

correlation report for pm25 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:04:00 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): dylos, pms7003

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm25_atm: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1582 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm25: 284 db records, deleted 0 NaN records.

Collected 284 values in sample time frame (26m/22s) for the graph. Skipped 388 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 26m:22s.

Data from table/sheet BdP_33040d54, sensor (column) pm25:

number 284, min=235.00, max=6690.00

avg=2018.13, std dev=1561.39

R-squared (R^2) with BdP_33040d54/pm25: 0.6083

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm25_atm (dylos)-> best fit coefficients:

6.417e+02, 1.577e+00

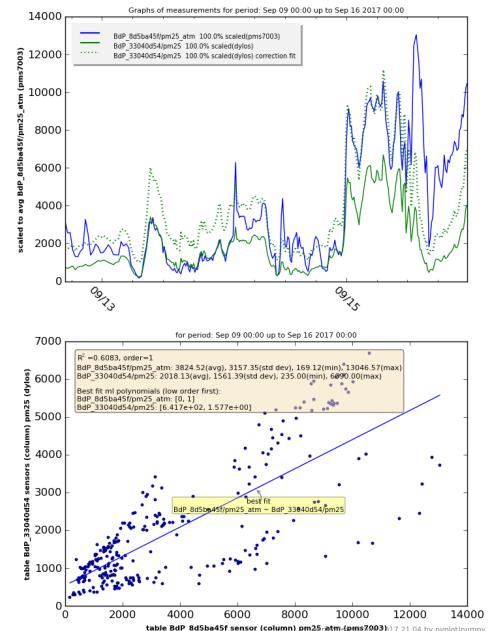
Statistical summary linear regression for BdP_8d5ba45f/pm25_atm with ['BdP_33040d54/pm25']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25_atm	R-squared:	0.608
Model:	OLS	Adj. R-squared:	0.607
Method:	Least Squares	F-statistic:	437.9
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	2.47e-59
Time:	21:04:01	Log-Likelihood:	-2558.2
No. Observations:	284	AIC:	5120.
Df Residuals:	282	BIC:	5128.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25	641.6941	192.306	3.337	0.001 263.157 1020.231

Omnibus:	98.205	Durbin-Watson:	0.072
Prob(Omnibus):	0.000	Jarque-Bera (JB):	229.434
Skew:	1.698	Prob(JB):	1.51e-50
Kurtosis:	5.804	Cond. No.	4.17e+03



Sensor pms7003@BdP_8d5ba45f with sensor ppd42ns@BdP_33040d54

correlation report for pm25 (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:04:02 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, pms7003

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pm25_atm: 672 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 309 db records, deleted 0 NaN records.

Collected 309 values in sample time frame (15m/0s) for the graph. Skipped 363 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_pcsqf:

number 309, min=148.27, max=722.53

avg=310.82, std dev=90.13

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.0268

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pm25_atm (ppd42ns)-> best fit coefficients:

5.379e+03, -5.633e+00

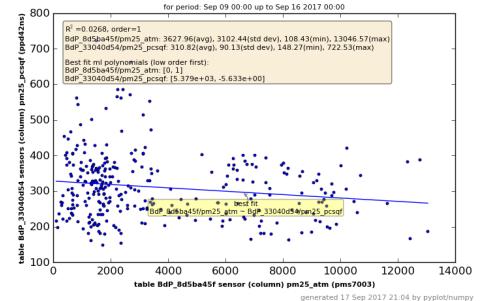
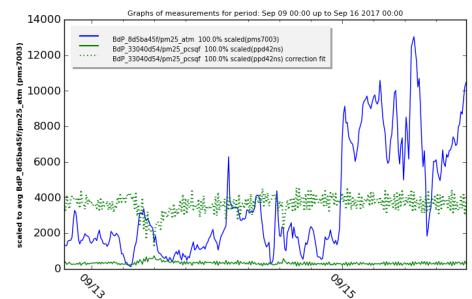
Statistical summary linear regression for BdP_8d5ba45f/pm25_atm with ['BdP_33040d54/pm25_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25_atm	R-squared:	0.027
Model:	OLS	Adj. R-squared:	0.024
Method:	Least Squares	F-statistic:	8.449
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00392
Time:	21:04:03	Log-Likelihood:	-2918.6
No. Observations:	309	AIC:	5841.
Df Residuals:	307	BIC:	5849.
Df Model:	1		

coefficient standard error t-value P>|t| [95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf 5378.9310 627.213 8.576 0.000 4144.751 6613.111

Omnibus: 37.381 Durbin-Watson: 0.096
Prob(Omnibus): 0.000 Jarque-Bera (JB): 48.921
Skew: 0.973 Prob(JB): 2.38e-11
Kurtosis: 2.887 Cond. No. 1.16e+03



Sensor sds011@BdP_3f18c330 with sensor dylos@BdP_33040d54

correlation report for pm25 (raw) measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:04:04 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, dylos

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm25: 670 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1756 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm25: 250 db records, deleted 0 NaN records.

Collected 306 values in sample time frame (29m/16s) for the graph. Skipped 364 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 29m:16s.

Data from table/sheet BdP_33040d54, sensor (column) pm25:

number 306, min=235.00, max=6690.00

avg=1935.60, std dev=1525.72

R-squared (R^2) with BdP_33040d54/pm25: 0.8238

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_3f18c330/pm25 (dylos)-> best fit coefficients:

3.670e+02, 9.655e-01

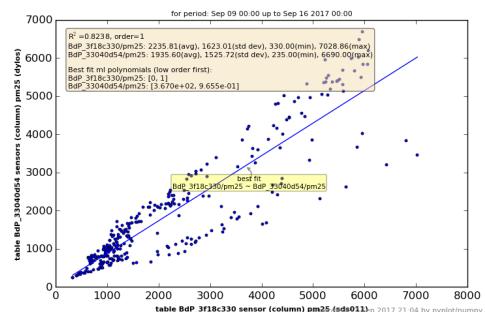
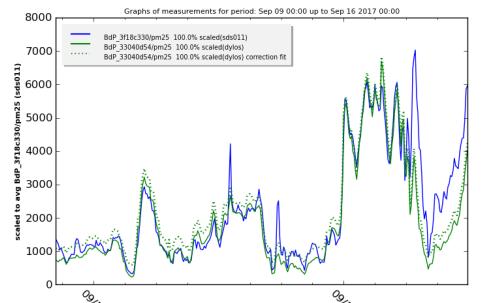
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_33040d54/pm25']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.824
Model:	OLS	Adj. R-squared:	0.823
Method:	Least Squares	F-statistic:	1421.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	1.26e-116
Time:	21:04:05	Log-Likelihood:	-2430.5
No. Observations:	306	AIC:	4865.
Df Residuals:	304	BIC:	4873.
Df Model:	1		

coef	std err	t	P> t [95.0% Conf. Int.]
BdP_33040d54/pm25	366.9879	63.123	5.814 0.000 242.775 491.201

Omnibus:	142.055	Durbin-Watson:	0.147
Prob(Omnibus):	0.000	Jarque-Bera (JB):	511.018
Skew:	2.087	Prob(JB):	1.08e-111
Kurtosis:	7.760	Cond. No.	3.98e+03



Sensor sds011@BdP_3f18c330 with sensor ppd42ns@BdP_33040d54

correlation report for pm25 (raw) measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:04:06 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): sds011, ppd42ns

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pm25: 670 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 267 db records, deleted 0 NaN records.

Collected 309 values in sample time frame (17m/21s) for the graph. Skipped 361 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:21s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_pcsqf:

number 309, min=180.76, max=820.71

avg=311.80, std dev=86.43

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.0115

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_3f18c330/pm25 (ppd42ns)-> best fit coefficients:

2.852e+03, -2.011e+00

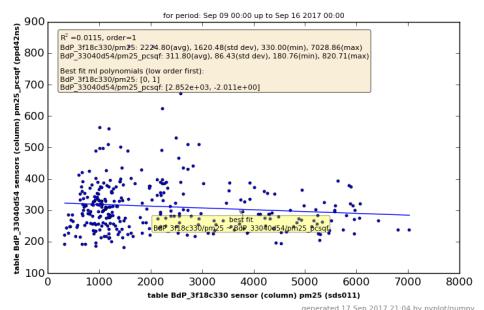
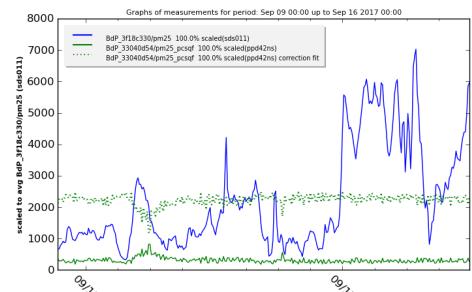
Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_33040d54/pm25_pcsqf']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.012
Model:	OLS	Adj. R-squared:	0.008
Method:	Least Squares	F-statistic:	3.575
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.0596
Time:	21:04:07	Log-Likelihood:	-2720.3
No. Observations:	309	AIC:	5445.
Df Residuals:	307	BIC:	5452.
Df Model:	1		

coef	std err	t	P> t [95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	2851.9946	344.223	8.285 0.000 2174.660 3529.329

Omnibus:	38.667	Durbin-Watson:	0.073
Prob(Omnibus):	0.000	Jarque-Bera (JB):	51.125
Skew:	0.994	Prob(JB):	7.91e-12
Kurtosis:	2.878	Cond. No.	1.21e+03



Sensor dylos@BdP_33040d54 with sensor ppd42ns@BdP_33040d54

correlation report for pm25 (raw) measurements

Correlation details of project BdP sensor kit ID 33040d54 with project BdP sensor kit ID 33040d54

Date of correlation report: Sun Sep 17 21:04:08 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): ppd42ns, dylos

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Auto interval samples is (re)set to 1582 (minimal- 50% -maximal)

Database table BdP_33040d54 sensor (column) pm25: 284 db records, deleted 0 NaN records.

Database table BdP_33040d54 sensor (column) pm25_pcsqf: 176 db records, deleted 0 NaN records.

Collected 280 values in sample time frame (26m/22s) for the graph. Skipped 4 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 26m:22s.

Data from table/sheet BdP_33040d54, sensor (column) pm25_pcsqf:

number 280, min=204.20, max=654.77

avg=311.90, std dev=69.67

R-squared (R^2) with BdP_33040d54/pm25_pcsqf: 0.0096

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_33040d54/pm25 (ppd42ns)-> best fit coefficients:

2.724e+03, -2.204e+00

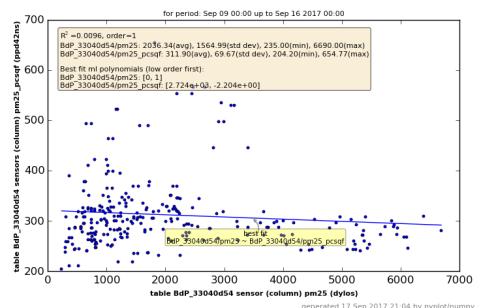
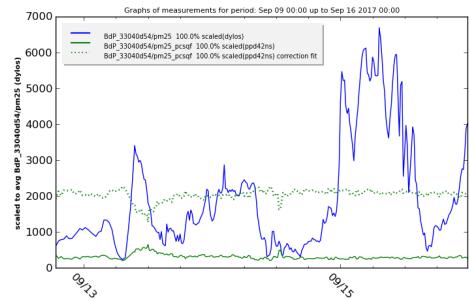
Statistical summary linear regression for BdP_33040d54/pm25 with [BdP_33040d54/pm25_pcsqf]:

OLS Regression Results

Dep. Variable:	BdP_33040d54/pm25	R-squared:	0.010
Model:	OLS	Adj. R-squared:	0.006
Method:	Least Squares	F-statistic:	2.703
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.101
Time:	21:04:09	Log-Likelihood:	-2455.5
No. Observations:	280	AIC:	4915.
Df Residuals:	278	BIC:	4922.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_33040d54/pm25_pcsqf	2723.8534	428.500	6.357	0.000 1880.336 3567.371

Omnibus:	43.030	Durbin-Watson:	0.062
Prob(Omnibus):	0.000	Jarque-Bera (JB):	59.189
Skew:	1.118	Prob(JB):	1.40e-13
Kurtosis:	3.272	Cond. No.	1.47e+03



Sensor dht22@BdP_8d5ba45f with sensor bme280@BdP_8d5ba45f

correlation report for temp (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f

Date of correlation report: Sun Sep 17 21:04:10 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) temp: 672 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) temp: 672 db records, deleted 0 NaN records.

Collected 672 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) temp:

number 672, min=13.43, max=28.03

avg=17.88, std dev= 2.80

R-squared (R^2) with BdP_8d5ba45f/temp: 0.9893

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/temp (bme280)-> best fit coefficients:

1.111e+00, 9.595e-01

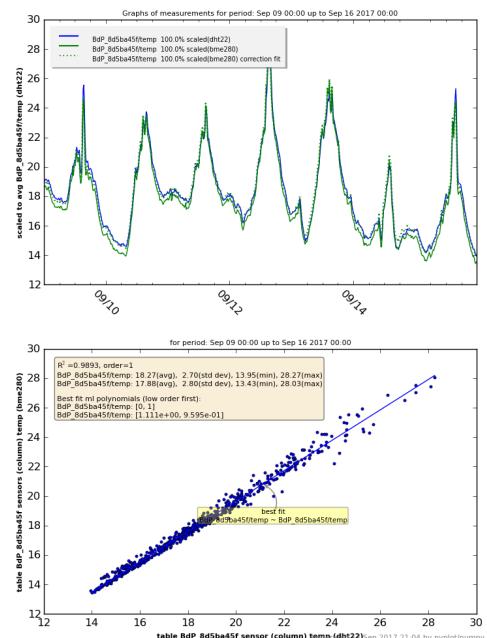
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_8d5ba45f/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.989
Model:	OLS	Adj. R-squared:	0.989
Method:	Least Squares	F-statistic:	6.194e+04
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00
Time:	21:04:11	Log-Likelihood:	-96.523
No. Observations:	672	AIC:	197.0
Df Residuals:	670	BIC:	206.1
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/temp	1.1109	0.070	15.917	0.000 0.974 1.248

Omnibus:	91.418	Durbin-Watson:	0.396
Prob(Omnibus):	0.000	Jarque-Bera (JB):	656.869
Skew:	0.339	Prob(JB):	2.31e-143
Kurtosis:	7.796	Cond. No.	117.



Sensor dht22@BdP_8d5ba45f with sensor dht22@BdP_3f18c330

correlation report for temp (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:04:12 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): dht22

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) temp: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1075 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 441 db records, deleted 0 NaN records.

Collected 441 values in sample time frame (17m:55s) for the graph. Skipped 231 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:55s.

Data from table/sheet BdP_3f18c330, sensor (column) temp:

number 441, min= 0.00, max=24.60

avg=17.43, std dev= 2.79

R-squared (R^2) with BdP_3f18c330/temp: 0.8768

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/temp (dht22)-> best fit coefficients:

1.024e+00, 9.851e-01

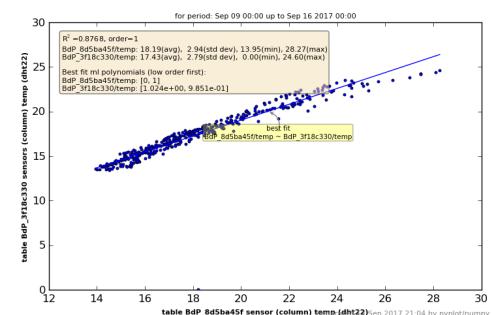
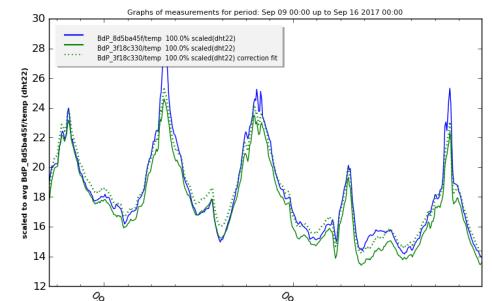
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.877
Model:	OLS	Adj. R-squared:	0.876
Method:	Least Squares	F-statistic:	3123.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	1.05e-201
Time:	21:04:13	Log-Likelihood:	-639.03
No. Observations:	441	AIC:	1282.
Df Residuals:	439	BIC:	1290.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	1.0237	0.311	3.291	0.001 0.412 1.635

Omnibus:	788.265	Durbin-Watson:	0.637
Prob(Omnibus):	0.000	Jarque-Bera (JB):	561857.541
Skew:	10.870	Prob(JB):	0.00
Kurtosis:	176.507	Cond. No.	112.



Sensor dht22@BdP_8d5ba45f with sensor bme280@BdP_3f18c330

correlation report for temp (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:04:14 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) temp: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 670 db records, deleted 0 NaN records.

Collected 670 values in sample time frame (17m/21s) for the graph. Skipped 2 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:21s.

Data from table/sheet BdP_3f18c330, sensor (column) temp:

number 670, min=14.07, max=25.21

avg=18.52, std dev= 2.55

R-squared (R^2) with BdP_3f18c330/temp: 0.9334

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/temp (bme280)-> best fit coefficients:

-7.034e-01, 1.024e+00

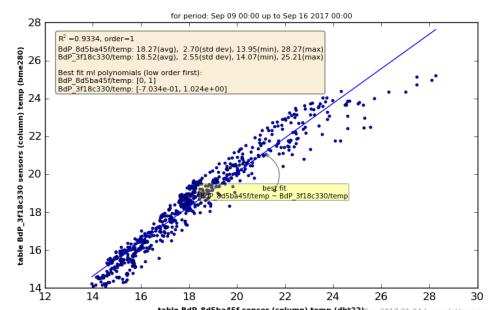
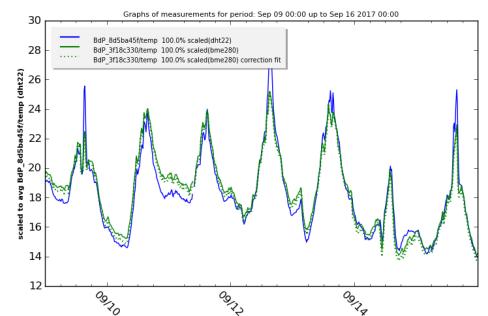
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.933
Model:	OLS	Adj. R-squared:	0.933
Method:	Least Squares	F-statistic:	9358.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00
Time:	21:04:15	Log-Likelihood:	-709.83
No. Observations:	670	AIC:	1424.
Df Residuals:	668	BIC:	1433.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	-0.7034	0.198	-3.553	0.000 -1.092 -0.315

Omnibus:	197.701	Durbin-Watson:	0.123
Prob(Omnibus):	0.000	Jarque-Bera (JB):	599.772
Skew:	1.426	Prob(JB):	5.77e-131
Kurtosis:	6.653	Cond. No.	137.



Sensor bme280@BdP_8d5ba45f with sensor dht22@BdP_3f18c330

correlation report for temp (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:04:16 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) temp: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1075 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 441 db records, deleted 0 NaN records.

Collected 441 values in sample time frame (17m:55s) for the graph. Skipped 231 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:55s.

Data from table/sheet BdP_3f18c330, sensor (column) temp:

number 441, min= 0.00, max=24.60

avg=17.43, std dev = 2.79

R-squared (R^2) with BdP_3f18c330/temp: 0.8708

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/temp (dht22)-> best fit coefficients:

1.655e-02, 1.024e+00

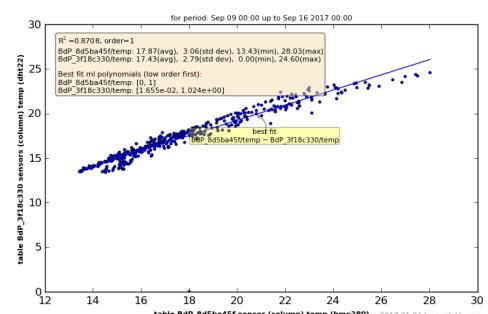
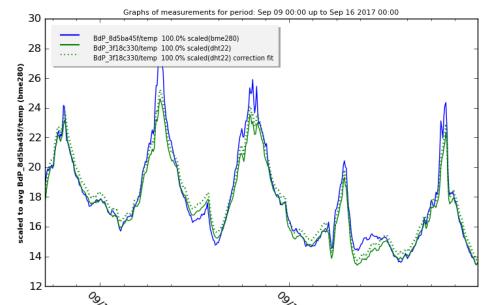
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.871
Model:	OLS	Adj. R-squared:	0.870
Method:	Least Squares	F-statistic:	2958.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	3.69e-197
Time:	21:04:17	Log-Likelihood:	-668.25
No. Observations:	441	AIC:	1340.
Df Residuals:	439	BIC:	1349.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	0.0166	0.332	0.050	0.960 -0.637 0.670

Omnibus:	763.339	Durbin-Watson:	0.622
Prob(Omnibus):	0.000	Jarque-Bera (JB):	476836.044
Skew:	10.197	Prob(JB):	0.00
Kurtosis:	162.795	Cond. No.	112.



Sensor bme280@BdP_8d5ba45f with sensor bme280@BdP_3f18c330

correlation report for temp (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:04:18 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) temp: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 670 db records, deleted 0 NaN records.

Collected 670 values in sample time frame (17m/21s) for the graph. Skipped 2 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:21s.

Data from table/sheet BdP_3f18c330, sensor (column) temp:

number 670, min=14.07, max=25.21

avg=18.52, std dev= 2.55

R-squared (R^2) with BdP_3f18c330/temp: 0.9263

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/temp (bme280)-> best fit coefficients:

-1.710e+00, 1.058e+00

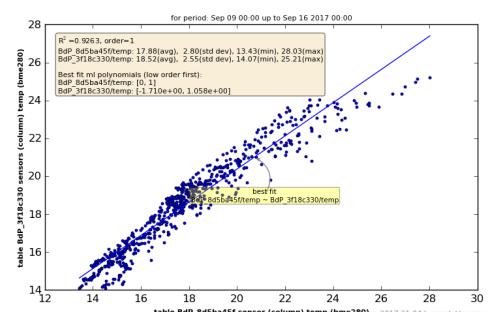
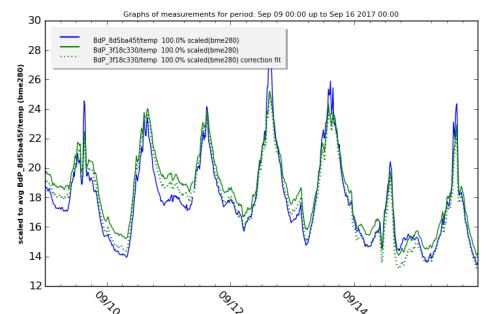
Statistical summary linear regression for BdP_8d5ba45f/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/temp	R-squared:	0.926
Model:	OLS	Adj. R-squared:	0.926
Method:	Least Squares	F-statistic:	8394.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00
Time:	21:04:19	Log-Likelihood:	-767.77
No. Observations:	670	AIC:	1540.
Df Residuals:	668	BIC:	1549.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	-1.7099	0.216	-7.921	0.000 -2.134 -1.286

Omnibus:	111.284	Durbin-Watson:	0.118
Prob(Omnibus):	0.000	Jarque-Bera (JB):	180.962
Skew:	1.050	Prob(JB):	5.06e-40
Kurtosis:	4.441	Cond. No.	137.



Sensor dht22@BdP_3f18c330 with sensor bme280@BdP_3f18c330

correlation report for temp (raw) measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:04:20 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Auto interval samples is (re)set to 1075 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 441 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1259 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) temp: 562 db records, deleted 0 NaN records.

Collected 441 values in sample time frame (20m/59s) for the graph.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 20m:59s.

Data from table/sheet BdP_3f18c330, sensor (column) temp:

number 441, min=14.07, max=25.23

avg=18.21, std dev= 2.72

R-squared (R^2) with BdP_3f18c330/temp: 0.8991

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_3f18c330/temp (bme280)-> best fit coefficients:

-2.871e-01, 9.729e-01

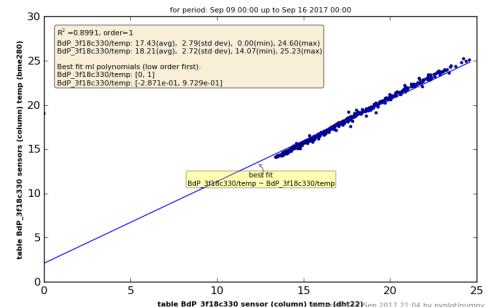
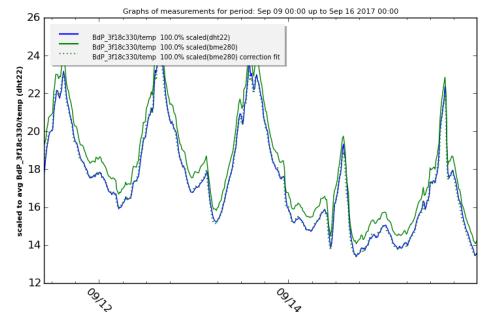
Statistical summary linear regression for BdP_3f18c330/temp with ['BdP_3f18c330/temp']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/temp	R-squared:	0.899
Model:	OLS	Adj. R-squared:	0.899
Method:	Least Squares	F-statistic:	3913.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	8.65e-221
Time:	21:04:21	Log-Likelihood:	-572.53
No. Observations:	441	AIC:	1149.
Df Residuals:	439	BIC:	1157.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/temp	-0.2871	0.286	-1.003	0.317 -0.850 0.276

Omnibus:	1043.064	Durbin-Watson:	0.909
Prob(Omnibus):	0.000	Jarque-Bera (JB):	3046857.783
Skew:	-19.808	Prob(JB):	0.00
Kurtosis:	408.273	Cond. No.	125.



Sensor dht22@BdP_8d5ba45f with sensor bme280@BdP_8d5ba45f

correlation report for rh (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f

Date of correlation report: Sun Sep 17 21:04:22 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) rh: 672 db records, deleted 0 NaN records.

Database table BdP_8d5ba45f sensor (column) rh: 672 db records, deleted 0 NaN records.

Collected 672 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) rh:

number 672, min=33.62, max=80.61

avg=64.99, std dev= 9.94

R-squared (R^2) with BdP_8d5ba45f/rh: 0.9911

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/rh (bme280)-> best fit coefficients:

-1.104e+00, 1.050e+00

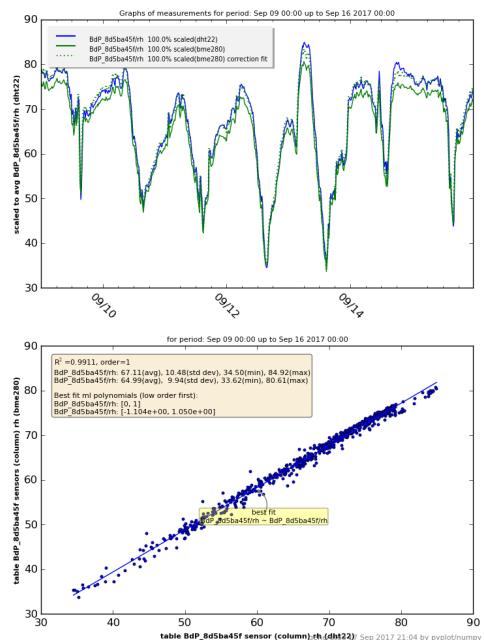
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_8d5ba45f/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.991
Model:	OLS	Adj. R-squared:	0.991
Method:	Least Squares	F-statistic:	7.453e+04
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00
Time:	21:04:23	Log-Likelihood:	-946.35
No. Observations:	672	AIC:	1897.
Df Residuals:	670	BIC:	1906.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_8d5ba45f/rh	-1.1037	0.253	-4.366	0.000 -1.600 -0.607

Omnibus:	48.624	Durbin-Watson:	0.452
Prob(Omnibus):	0.000	Jarque-Bera (JB):	171.219
Skew:	0.233	Prob(JB):	6.61e-38
Kurtosis:	5.428	Cond. No.	435.



Sensor dht22@BdP_8d5ba45f with sensor dht22@BdP_3f18c330

correlation report for rh (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:04:24 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): dht22

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) rh: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1075 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 441 db records, deleted 0 NaN records.

Collected 441 values in sample time frame (17m:55s) for the graph. Skipped 231 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:55s.

Data from table/sheet BdP_3f18c330, sensor (column) rh:

number 441, min= 0.00, max=75.34

avg=59.55, std dev= 9.72

R-squared (R^2) with BdP_3f18c330/rh: 0.8798

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/rh (dht22)-> best fit coefficients:

8.241e-01, 1.093e+00

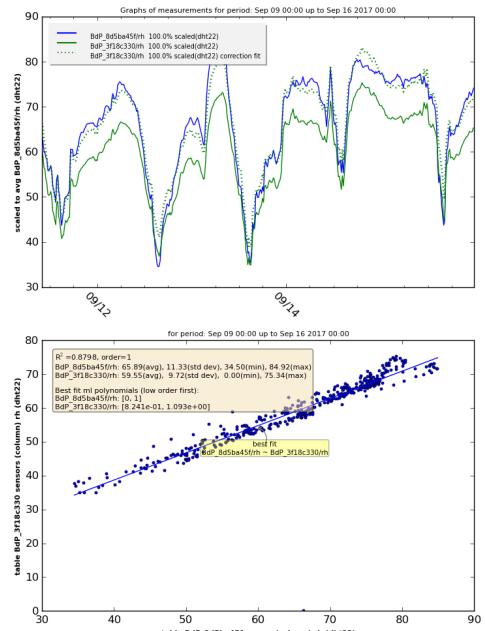
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.880
Model:	OLS	Adj. R-squared:	0.880
Method:	Least Squares	F-statistic:	3213.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	4.58e-204
Time:	21:04:25	Log-Likelihood:	-1229.0
No. Observations:	441	AIC:	2462.
Df Residuals:	439	BIC:	2470.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	0.8241	1.163	0.708	0.479 -1.462 3.110

Omnibus:	771.745	Durbin-Watson:	0.712
Prob(Omnibus):	0.000	Jarque-Bera (JB):	559096.234
Skew:	10.361	Prob(JB):	0.00
Kurtosis:	176.198	Cond. No.	375.



Sensor dht22@BdP_8d5ba45f with sensor bme280@BdP_3f18c330

correlation report for rh (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:04:26 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) rh: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 670 db records, deleted 0 NaN records.

Collected 670 values in sample time frame (17m/21s) for the graph. Skipped 2 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:21s.

Data from table/sheet BdP_3f18c330, sensor (column) rh:

number 670, min=34.60, max=75.89

avg=59.10, std dev= 8.81

R-squared (R^2) with BdP_3f18c330/rh: 0.9385

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/rh (bme280)-> best fit coefficients:

-1.070e+00, 1.154e+00

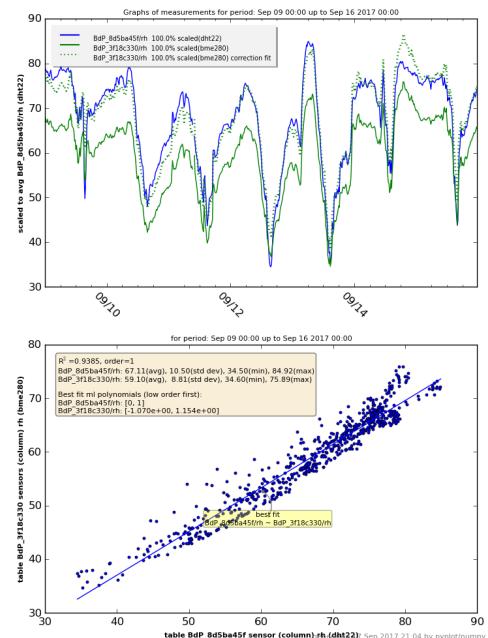
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.939
Model:	OLS	Adj. R-squared:	0.938
Method:	Least Squares	F-statistic:	1.020e+04
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00
Time:	21:04:27	Log-Likelihood:	-1591.5
No. Observations:	670	AIC:	3187.
Df Residuals:	668	BIC:	3196.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	-1.0697	0.683	-1.567	0.118 -2.410 0.271

Omnibus:	87.304	Durbin-Watson:	0.116
Prob(Omnibus):	0.000	Jarque-Bera (JB):	124.277
Skew:	-0.923	Prob(JB):	1.03e-27
Kurtosis:	4.022	Cond. No.	405.



Sensor bme280@BdP_8d5ba45f with sensor dht22@BdP_3f18c330

correlation report for rh (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:04:28 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) rh: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1075 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 441 db records, deleted 0 NaN records.

Collected 441 values in sample time frame (17m:55s) for the graph. Skipped 231 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:55s.

Data from table/sheet BdP_3f18c330, sensor (column) rh:

number 441, min= 0.00, max=75.34

avg=59.55, std dev= 9.72

R-squared (R^2) with BdP_3f18c330/rh: 0.8683

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/rh (dht22)-> best fit coefficients:

2.721e+00, 1.024e+00

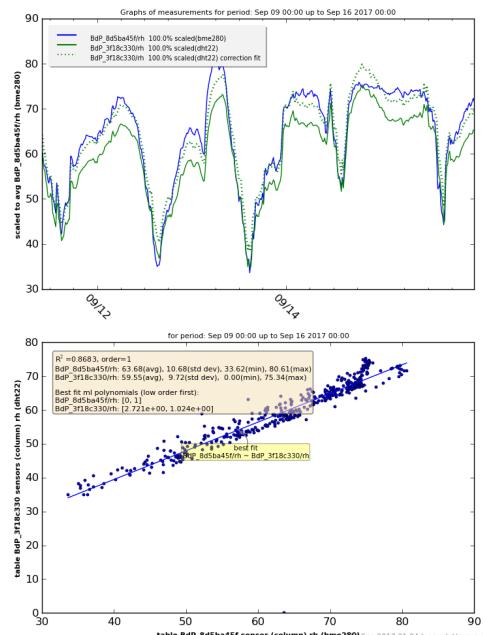
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.868
Model:	OLS	Adj. R-squared:	0.868
Method:	Least Squares	F-statistic:	2894.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	2.41e-195
Time:	21:04:29	Log-Likelihood:	-1223.3
No. Observations:	441	AIC:	2451.
Df Residuals:	439	BIC:	2459.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	2.7210	1.148	2.370	0.018 0.464 4.978

Omnibus:	699.597	Durbin-Watson:	0.661
Prob(Omnibus):	0.000	Jarque-Bera (JB):	344387.860
Skew:	8.562	Prob(JB):	0.00
Kurtosis:	138.827	Cond. No.	375.



Sensor bme280@BdP_8d5ba45f with sensor bme280@BdP_3f18c330

correlation report for rh (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:04:31 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) rh: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 670 db records, deleted 0 NaN records.

Collected 670 values in sample time frame (17m/21s) for the graph. Skipped 2 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:21s.

Data from table/sheet BdP_3f18c330, sensor (column) rh:

number 670, min=34.60, max=75.89

avg=59.10, std dev= 8.81

R-squared (R^2) with BdP_3f18c330/rh: 0.9280

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/rh (bme280)-> best fit coefficients:

6.933e-01, 1.088e+00

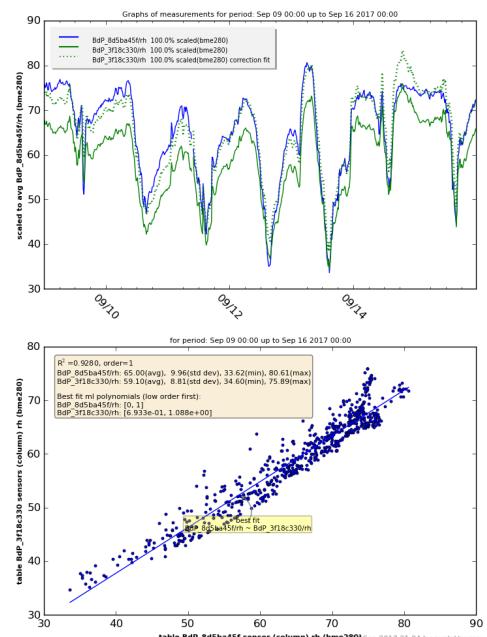
Statistical summary linear regression for BdP_8d5ba45f/rh with [BdP_3f18c330/rh]:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rh	R-squared:	0.928
Model:	OLS	Adj. R-squared:	0.928
Method:	Least Squares	F-statistic:	8605.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00
Time:	21:04:31	Log-Likelihood:	-1609.2
No. Observations:	670	AIC:	3222.
Df Residuals:	668	BIC:	3231.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	0.6933	0.701	0.989	0.323 -0.683 2.069

Omnibus:	72.181	Durbin-Watson:	0.101
Prob(Omnibus):	0.000	Jarque-Bera (JB):	93.428
Skew:	-0.864	Prob(JB):	5.16e-21
Kurtosis:	3.598	Cond. No.	405.



Sensor dht22@BdP_3f18c330 with sensor bme280@BdP_3f18c330

correlation report for rh (raw) measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:04:33 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280, dht22

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Auto interval samples is (re)set to 1075 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 441 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1259 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) rh: 562 db records, deleted 0 NaN records.

Collected 441 values in sample time frame (20m:59s) for the graph.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 20m:59s.

Data from table/sheet BdP_3f18c330, sensor (column) rh:

number 441, min=35.28, max=75.90

avg=58.90, std dev= 9.64

R-squared (R^2) with BdP_3f18c330/rh: 0.9135

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_3f18c330/rh (bme280)-> best fit coefficients:

2.751e+00, 9.644e-01

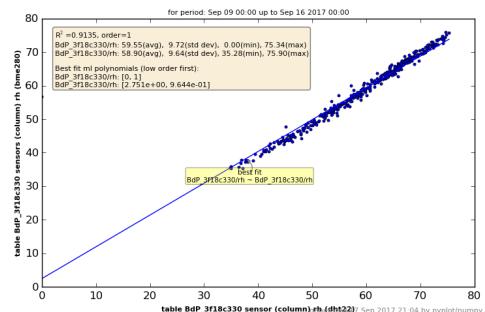
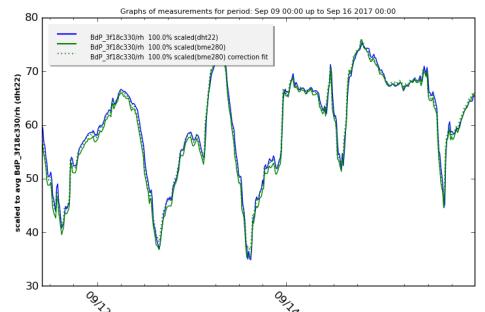
Statistical summary linear regression for BdP_3f18c330/rh with ['BdP_3f18c330/rh']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rh	R-squared:	0.913
Model:	OLS	Adj. R-squared:	0.913
Method:	Least Squares	F-statistic:	4636.
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	1.92e-235
Time:	21:04:33	Log-Likelihood:	-1089.2
No. Observations:	441	AIC:	2182.
Df Residuals:	439	BIC:	2190.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/rh	2.7511	0.845	3.254	0.001 1.090 4.413

Omnibus:	1006.677	Durbin-Watson:	1.039
Prob(Omnibus):	0.000	Jarque-Bera (JB):	2446829.473
Skew:	-18.257	Prob(JB):	0.00
Kurtosis:	366.081	Cond. No.	370.



Sensor bme280@BdP_8d5ba45f with sensor bme280@BdP_3f18c330

correlation report for pha (raw) measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 3f18c330

Date of correlation report: Sun Sep 17 21:04:35 CEST 2017

From date 2017-09-09 upto 2017-09-16 00:00

Origin of measurement time serie data from InFluxDB host: localhost

Report generated by MyRegression.py (GPL V4) (user teus)

General statistical information for the measurements graphs

Regression best fit calculation details for sensor type(s): bme280

Graphs based on data INFLUX from influxdb on server lunar as user teus:

Database table BdP_8d5ba45f sensor (column) pha: 672 db records, deleted 0 NaN records.

Auto interval samples is (re)set to 1041 (avg+2*stddev)

Database table BdP_3f18c330 sensor (column) pha: 670 db records, deleted 0 NaN records.

Collected 670 values in sample time frame (17m/21s) for the graph. Skipped 2 db records, could not find any value(s) in same sample interval.

Samples period: Sep 09 00:00 up to Sep 16 2017 00:00, interval timing 17m:21s.

Data from table/sheet BdP_3f18c330, sensor (column) pha:

number 670, min=99181.25, max=100956.27

avg=99969.64, std dev=515.18

R-squared (R^2) with BdP_3f18c330/pha: 0.9999

Best fit linear single polynomial regression curve ($A_0 * X^0 + A_1 * X^1$):

BdP_8d5ba45f/pha (bme280)-> best fit coefficients:

4.700e+02, 9.958e-01

Statistical summary linear regression for BdP_8d5ba45f/pha with ['BdP_3f18c330/pha']:

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pha	R-squared:	1.000
Model:	OLS	Adj. R-squared:	1.000
Method:	Least Squares	F-statistic:	6.662e+06
Date:	Sun, 17 Sep 2017	Prob (F-statistic):	0.00
Time:	21:04:35	Log-Likelihood:	-2047.1
No. Observations:	670	AIC:	4098.
Df Residuals:	668	BIC:	4107.
Df Model:	1		

coef	std err	t	P> t	[95.0% Conf. Int.]
BdP_3f18c330/pha	469.9602	38.568	12.185	0.000 394.231 545.690

Omnibus:	218.111	Durbin-Watson:	0.671
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1406.969
Skew:	-1.295	Prob(JB):	3.02e-306
Kurtosis:	9.610	Cond. No.	1.94e+07

