Table of Contents

Summary of correlations of sensor kits and sensor modules

Sensorkits: BdP_3f18c330 BdP_8d5ba45f
Report generated on: Tue 11 Sep 13:53:39 CEST 2018

R-square and statistical summary

Measurement RH correlation key values

Correlation 1 - **RH** - kit BdP_3f18c330 sensor type **SHT31** with kit BdP_3f18c330 sensor type **BME280**:

nr samples 100, min=41.00, max=49.00
avg=45.08, std dev= 1.85
R-squared:
0.9250

Best fit polynomial coefficients:
[-3.937e+00, 1.016e+00]

Correlation 2 - **RH** - kit BdP_3f18c330 sensor type **SHT31** with kit BdP_3f18c330 sensor type **SPEC**:

nr samples 100, min=34.50, max=42.00
avg=38.68, std dev= 1.67
R-squared:
0.9212

Best fit polynomial coefficients:
[-5.519e+00, 9.166e-01]

Correlation 3 - **RH** - kit BdP_3f18c330 sensor type **SHT31** with kit BdP_8d5ba45f sensor type **SHT31**:

nr samples 100, min=44.00, max=52.00
avg=47.69, std dev= 1.99
R-squared:
0.8638

Best fit polynomial coefficients:
[-3.247e+00, 1.056e+00]

Correlation 4 - **RH** - kit BdP_3f18c330 sensor type **SHT31** with kit BdP_8d5ba45f sensor type **BME280**:

nr samples 100, min=41.50, max=47.50
avg=44.51, std dev= 1.56
R-squared:
0.8643

Best fit polynomial coefficients:
[4.418e+00, 8.314e-01]

Correlation 5 - **RH** - kit BdP_3f18c330 sensor type **SHT31** with kit BdP_8d5ba45f sensor type **SPEC**:

nr samples 100, min=38.00, max=44.75
avg=41.08, std dev= 1.76
R-squared:
0.8365

Best fit polynomial coefficients:
[-3.286e+00, 9.201e-01]

Correlation 6 - **RH** - kit BdP_3f18c330 sensor type **BME280** with kit BdP_3f18c330 sensor type **SPEC**:

nr samples 100, min=34.50, max=42.00
avg=38.68, std dev= 1.67
R-squared:
0.9261

Best fit polynomial coefficients:
[-5.182e-01, 8.696e-01]

Correlation 7 - **RH** - kit BdP_3f18c330 sensor type **BME280** with kit BdP_8d5ba45f sensor type **SHT31**:

nr samples 100, min=44.00, max=52.00
avg=47.69, std dev= 1.99
R-squared:
0.8686

Best fit polynomial coefficients:
[2.511e+00, 1.002e+00]

Correlation 8 - **RH** - kit BdP_3f18c330 sensor type **BME280** with kit BdP_8d5ba45f sensor type **BME280**:

nr samples 100, min=41.50, max=47.50
avg=44.51, std dev= 1.56
R-squared:
0.8507

Best fit polynomial coefficients:
[9.328e+00, 7.805e-01]

Correlation 9 - **RH** - kit BdP_3f18c330 sensor type **BME280** with kit BdP_8d5ba45f sensor type **SPEC**:

nr samples 100, min=38.00, max=44.75
avg=41.08, std dev= 1.76
R-squared:
0.8126

Best fit polynomial coefficients:
[2.404e+00, 8.580e-01]

Correlation 10 - **RH** - kit BdP_3f18c330 sensor type **SPEC** with kit BdP_8d5ba45f sensor type **SHT31**:

nr samples 100, min=44.00, max=52.00
avg=47.69, std dev= 1.99
R-squared:
0.7620

Best fit polynomial coefficients:
[7.506e+00, 1.039e+00]

Correlation 11 - **RH** - kit BdP_3f18c330 sensor type **SPEC** with kit BdP_8d5ba45f sensor type **BME280**:

nr samples 100, min=41.50, max=47.50
avg=44.51, std dev= 1.56
R-squared:
0.7579

Best fit polynomial coefficients:
[1.297e+01, 8.153e-01]

Correlation 12 - **RH** - kit BdP_3f18c330 sensor type **SPEC** with kit BdP_8d5ba45f sensor type **SPEC**:

nr samples 100, min=38.00, max=44.75
avg=41.08, std dev= 1.76
R-squared:
0.7064

Best fit polynomial coefficients:
[6.835e+00, 8.854e-01]

Correlation 13 - **RH** - kit BdP_8d5ba45f sensor type **SHT31** with kit BdP_8d5ba45f sensor type **BME280**:

nr samples 162, min=41.00, max=47.50
avg=44.54, std dev= 1.58
R-squared:
0.9086

Best fit polynomial coefficients:
[8.489e+00, 7.555e-01]

Correlation 14 - **RH** - kit BdP_8d5ba45f sensor type **SHT31** with kit BdP_8d5ba45f sensor type **SPEC**:

nr samples 162, min=38.00, max=44.66
avg=41.12, std dev= 1.76
R-squared:
0.9527

Best fit polynomial coefficients:
[-3.523e-02, 8.623e-01]

Correlation 15 - **RH** - kit BdP_8d5ba45f sensor type **BME280** with kit BdP_8d5ba45f sensor type **SPEC**:

nr samples 162, min=38.00, max=44.66
avg=41.12, std dev= 1.76
R-squared:
0.9216

Best fit polynomial coefficients:
[-6.432e+00, 1.067e+00]

Sensor sht31@BdP_3f18c330 with sensor bme280@BdP_3f18c330

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330
Date of correlation report: Tue 11 Sep 13:53:37 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) srv: 100 db records, deleted 0 NaN records.
Database table BdP_3f18c330 sensor (column) rv: 100 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=41.00, max=49.00

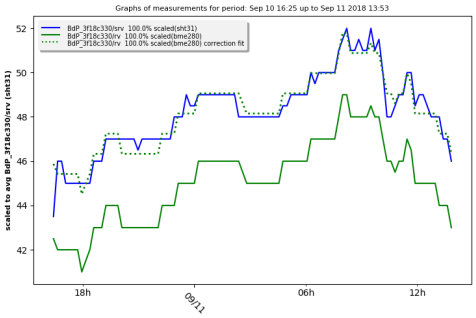
avg=45.08, std dev= 1.85

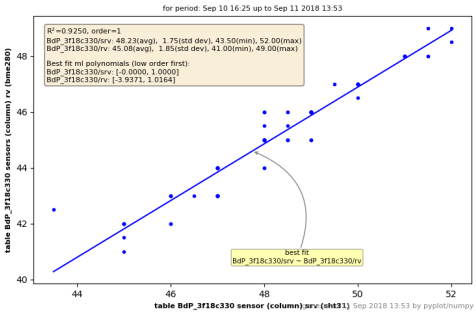
R-squared (R^2) with BdP_3f18c330/rv: 0.9250

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

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

-3.937e+00, 1.016e+00





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/srv	**R-squared:**	0.925
Model:	OLS	**Adj. R-squared:**	0.924
Method:	Least Squares	**F-statistic:**	1209.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	6.31e-57
Time:	13:53:38	**Log-Likelihood:**	-68.170
No. Observations:	100	**AIC:**	140.3
Df Residuals:	98	**BIC:**	145.5
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_3f18c330/rv	7.1999	1.181	6.096	0.000	4.856	9.544

Omnibus:	33.572	**Durbin-Watson:**	1.126
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	117.421
Skew:	-1.049	**Prob(JB):**	3.18e-26
Kurtosis:	7.876	**Cond. No.**	1.10e+03

Sensor sht31@BdP_3f18c330 with sensor spec@BdP_3f18c330

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330
Date of correlation report: Tue 11 Sep 13:53:39 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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): spec, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) srv: 100 db records, deleted 0 NaN records.
Database table BdP_3f18c330 sensor (column) grh: 100 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=34.50, max=42.00

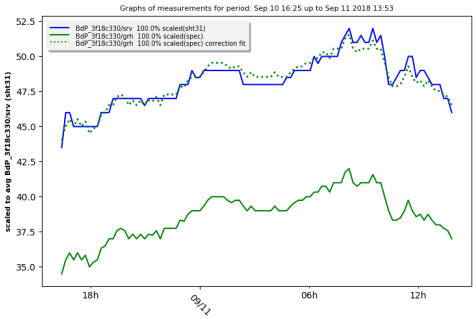
avg=38.68, std dev= 1.67

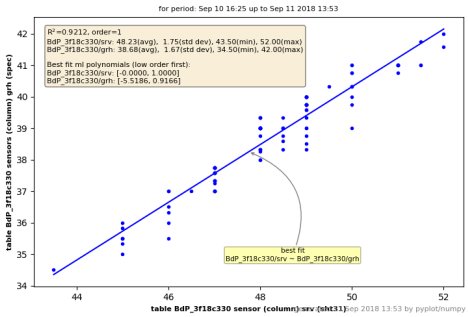
R-squared (R^2) with BdP_3f18c330/grh: 0.9212

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

BdP_3f18c330/srv (spec)-> best fit coefficients:

-5.519e+00, 9.166e-01





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/srv	**R-squared:**	0.921
Model:	OLS	**Adj. R-squared:**	0.920
Method:	Least Squares	**F-statistic:**	1146.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	7.01e-56
Time:	13:53:39	**Log-Likelihood:**	-70.623
No. Observations:	100	**AIC:**	145.2
Df Residuals:	98	**BIC:**	150.5
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_3f18c330/grh	9.3454	1.150	8.130	0.000	7.064	11.627

Omnibus:	4.513	**Durbin-Watson:**	0.841
Prob(Omnibus):	0.105	**Jarque-Bera (JB):**	4.552
Skew:	0.497	**Prob(JB):**	0.103
Kurtosis:	2.680	**Cond. No.**	899.

Sensor sht31@BdP_3f18c330 with sensor sht31@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:53:41 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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): sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) srv: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) srv: 162 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=44.00, max=52.00

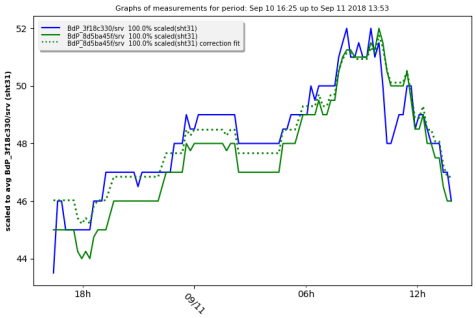
avg=47.69, std dev= 1.99

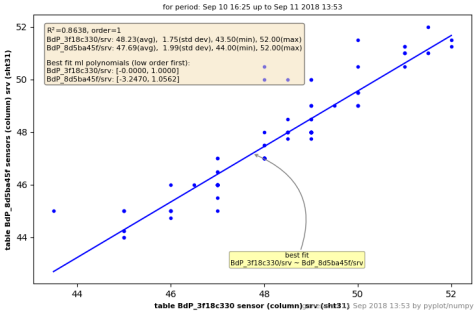
R-squared (R^2) with BdP_8d5ba45f/srv: 0.8638

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

BdP_3f18c330/srv (sht31)-> best fit coefficients:

-3.247e+00, 1.056e+00





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/srv	**R-squared:**	0.864
Model:	OLS	**Adj. R-squared:**	0.862
Method:	Least Squares	**F-statistic:**	621.8
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	3.19e-44
Time:	13:53:41	**Log-Likelihood:**	-97.982
No. Observations:	100	**AIC:**	200.0
Df Residuals:	98	**BIC:**	205.2
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/srv	9.2214	1.566	5.890	0.000	6.115	12.328

Omnibus:	49.309	**Durbin-Watson:**	0.565
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	127.926
Skew:	-1.855	**Prob(JB):**	1.66e-28
Kurtosis:	7.116	**Cond. No.**	1.15e+03

Sensor sht31@BdP_3f18c330 with sensor bme280@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:53:42 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) srv: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) rv: 162 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=41.50, max=47.50

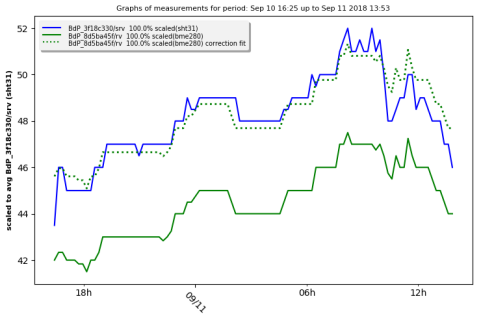
avg=44.51, std dev= 1.56

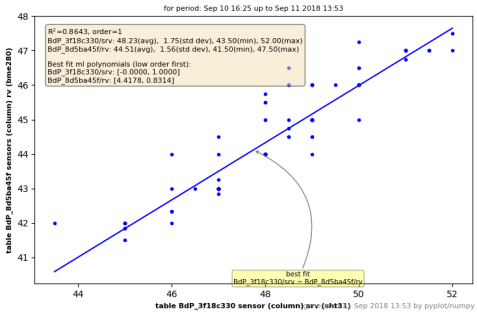
R-squared (R^2) with BdP_8d5ba45f/rv: 0.8643

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

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

4.418e+00, 8.314e-01





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/srv	**R-squared:**	0.864
Model:	OLS	**Adj. R-squared:**	0.863
Method:	Least Squares	**F-statistic:**	624.1
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.72e-44
Time:	13:53:43	**Log-Likelihood:**	-97.821
No. Observations:	100	**AIC:**	199.6
Df Residuals:	98	**BIC:**	204.9
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/rv	1.9523	1.853	1.053	0.295	-1.726	5.630

Omnibus:	20.049	**Durbin-Watson:**	0.613
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	24.640
Skew:	-1.089	**Prob(JB):**	4.46e-06
Kurtosis:	4.083	**Cond. No.**	1.27e+03

Sensor sht31@BdP_3f18c330 with sensor spec@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:53:44 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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): spec, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) srv: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) grh: 162 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=38.00, max=44.75

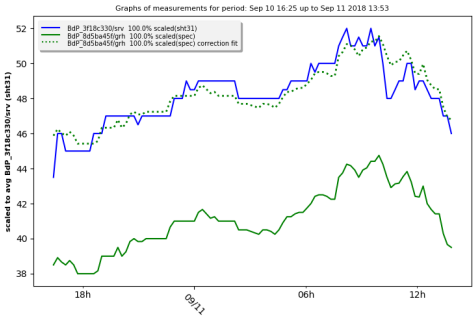
avg=41.08, std dev= 1.76

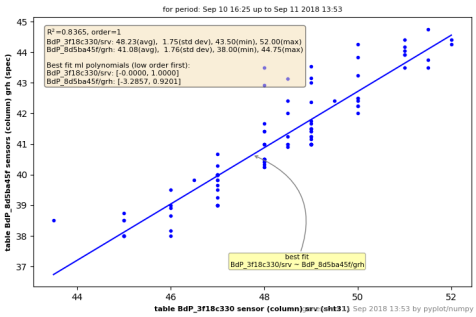
R-squared (R^2) with BdP_8d5ba45f/grh: 0.8365

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

BdP_3f18c330/srv (spec)-> best fit coefficients:

-3.286e+00, 9.201e-01





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/srv	**R-squared:**	0.837
Model:	OLS	**Adj. R-squared:**	0.835
Method:	Least Squares	**F-statistic:**	501.4
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.53e-40
Time:	13:53:45	**Log-Likelihood:**	-107.13
No. Observations:	100	**AIC:**	218.3
Df Residuals:	98	**BIC:**	223.5
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/grh	10.8715	1.670	6.511	0.000	7.558	14.185

Omnibus:	21.875	**Durbin-Watson:**	0.500
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	28.478
Skew:	-1.112	**Prob(JB):**	6.55e-07
Kurtosis:	4.374	**Cond. No.**	963.

Sensor bme280@BdP_3f18c330 with sensor spec@BdP_3f18c330

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330
Date of correlation report: Tue 11 Sep 13:53:46 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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, spec
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) rv: 100 db records, deleted 0 NaN records.
Database table BdP_3f18c330 sensor (column) grh: 100 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=34.50, max=42.00

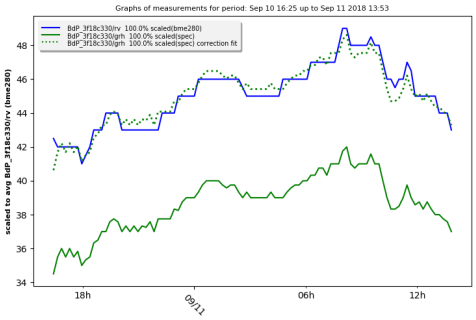
avg=38.68, std dev= 1.67

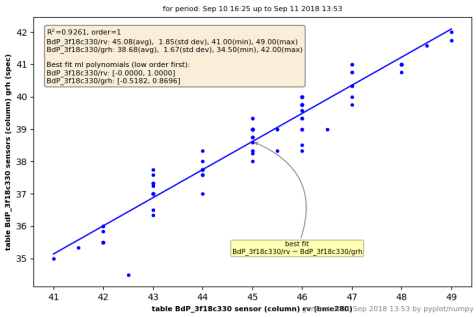
R-squared (R^2) with BdP_3f18c330/grh: 0.9261

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

BdP_3f18c330/rv (spec)-> best fit coefficients:

-5.182e-01, 8.696e-01





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rv	**R-squared:**	0.926
Model:	OLS	**Adj. R-squared:**	0.925
Method:	Least Squares	**F-statistic:**	1229.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.97e-57
Time:	13:53:46	**Log-Likelihood:**	-72.929
No. Observations:	100	**AIC:**	149.9
Df Residuals:	98	**BIC:**	155.1
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_3f18c330/grh	3.8814	1.176	3.300	0.001	1.547	6.216

Omnibus:	12.103	**Durbin-Watson:**	0.830
Prob(Omnibus):	0.002	**Jarque-Bera (JB):**	13.015
Skew:	0.738	**Prob(JB):**	0.00149
Kurtosis:	3.971	**Cond. No.**	899.

Sensor bme280@BdP_3f18c330 with sensor sht31@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:53:48 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) rv: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) srv: 162 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=44.00, max=52.00

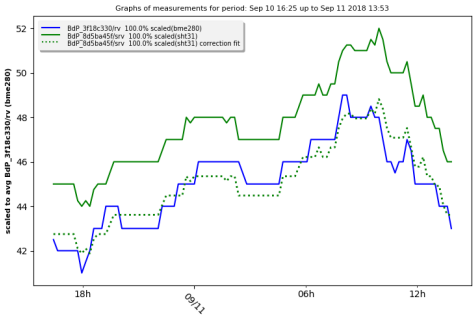
avg=47.69, std dev= 1.99

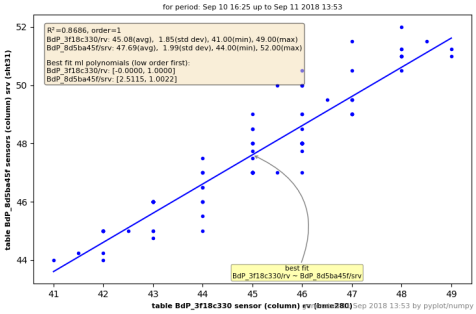
R-squared (R^2) with BdP_8d5ba45f/srv: 0.8686

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

BdP_3f18c330/rv (sht31)-> best fit coefficients:

2.511e+00, 1.002e+00





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rv	**R-squared:**	0.869
Model:	OLS	**Adj. R-squared:**	0.867
Method:	Least Squares	**F-statistic:**	647.8
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	5.57e-45
Time:	13:53:48	**Log-Likelihood:**	-101.73
No. Observations:	100	**AIC:**	207.5
Df Residuals:	98	**BIC:**	212.7
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/srv	3.7466	1.625	2.305	0.023	0.521	6.972

Omnibus:	7.064	**Durbin-Watson:**	0.424
Prob(Omnibus):	0.029	**Jarque-Bera (JB):**	3.655
Skew:	-0.238	**Prob(JB):**	0.161
Kurtosis:	2.193	**Cond. No.**	1.15e+03

Sensor bme280@BdP_3f18c330 with sensor bme280@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:53:49 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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 MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) rv: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) rv: 162 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=41.50, max=47.50

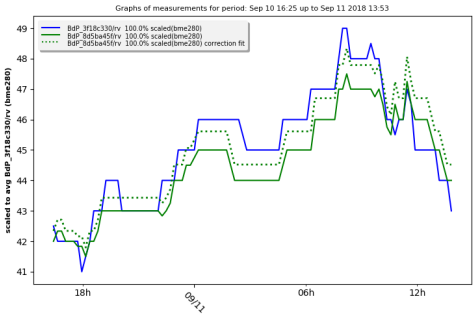
avg=44.51, std dev= 1.56

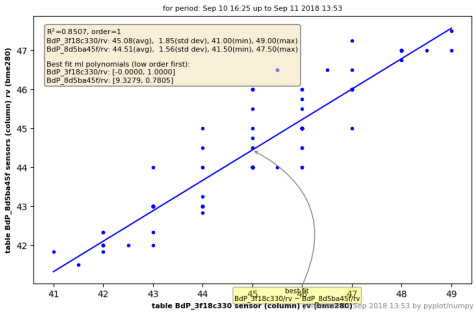
R-squared (R^2) with BdP_8d5ba45f/rv: 0.8507

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

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

9.328e+00, 7.805e-01





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rv	**R-squared:**	0.851
Model:	OLS	**Adj. R-squared:**	0.849
Method:	Least Squares	**F-statistic:**	558.4
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.95e-42
Time:	13:53:50	**Log-Likelihood:**	-108.12
No. Observations:	100	**AIC:**	220.2
Df Residuals:	98	**BIC:**	225.5
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/rv	-3.4363	2.054	-1.673	0.098	-7.513	0.641

Omnibus:	7.500	**Durbin-Watson:**	0.478
Prob(Omnibus):	0.024	**Jarque-Bera (JB):**	7.258
Skew:	-0.650	**Prob(JB):**	0.0265
Kurtosis:	3.224	**Cond. No.**	1.27e+03

Sensor bme280@BdP_3f18c330 with sensor spec@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:53:51 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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, spec
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) rv: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) grh: 162 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=38.00, max=44.75

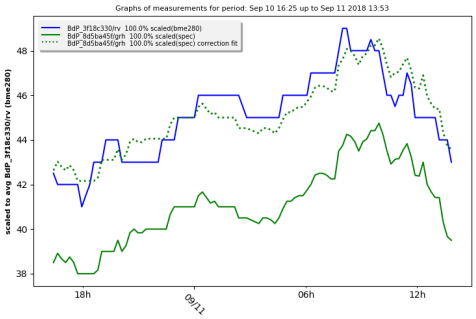
avg=41.08, std dev= 1.76

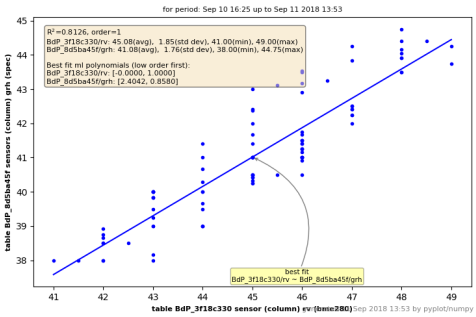
R-squared (R^2) with BdP_8d5ba45f/grh: 0.8126

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

BdP_3f18c330/rv (spec)-> best fit coefficients:

2.404e+00, 8.580e-01





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/rv	**R-squared:**	0.813
Model:	OLS	**Adj. R-squared:**	0.811
Method:	Least Squares	**F-statistic:**	424.8
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.09e-37
Time:	13:53:51	**Log-Likelihood:**	-119.50
No. Observations:	100	**AIC:**	243.0
Df Residuals:	98	**BIC:**	248.2
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/grh	6.1732	1.889	3.267	0.001	2.424	9.923

Omnibus:	20.321	**Durbin-Watson:**	0.330
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	6.477
Skew:	-0.324	**Prob(JB):**	0.0392
Kurtosis:	1.935	**Cond. No.**	963.

Sensor spec@BdP_3f18c330 with sensor sht31@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:53:53 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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): spec, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) grh: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) srv: 162 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=44.00, max=52.00

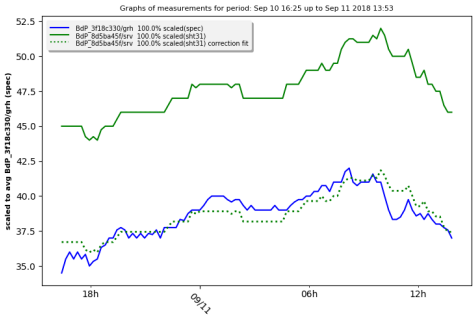
avg=47.69, std dev= 1.99

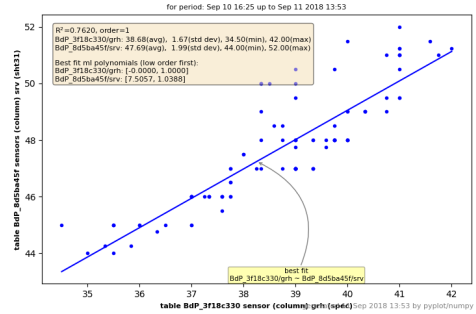
R-squared (R^2) with BdP_8d5ba45f/srv: 0.7620

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

BdP_3f18c330/grh (sht31)-> best fit coefficients:

7.506e+00, 1.039e+00





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/grh	**R-squared:**	0.762
Model:	OLS	**Adj. R-squared:**	0.760
Method:	Least Squares	**F-statistic:**	313.8
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.61e-32
Time:	13:53:53	**Log-Likelihood:**	-121.30
No. Observations:	100	**AIC:**	246.6
Df Residuals:	98	**BIC:**	251.8
Df Model:	1		
Covariance Type:	nonrobust		

	coef	**std err**	**t**	**P>|t|**	**[0.025**	**0.975]**
BdP_8d5ba45f/srv	3.7013	1.977	1.872	0.064	-0.221	7.624

Omnibus:	7.238	**Durbin-Watson:**	0.233
Prob(Omnibus):	0.027	**Jarque-Bera (JB):**	7.486
Skew:	-0.668	**Prob(JB):**	0.0237
Kurtosis:	2.893	**Cond. No.**	1.15e+03

Sensor spec@BdP_3f18c330 with sensor bme280@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:53:54 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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, spec
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) grh: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) rv: 162 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=41.50, max=47.50

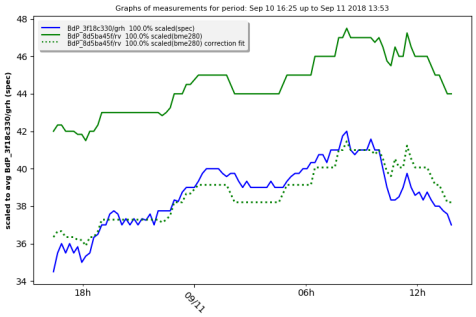
avg=44.51, std dev= 1.56

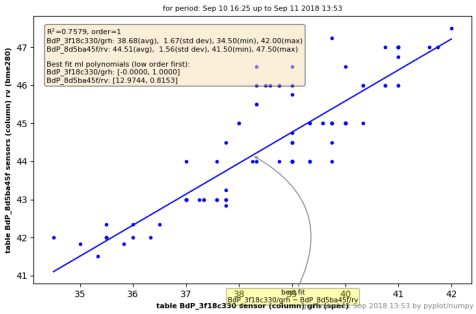
R-squared (R^2) with BdP_8d5ba45f/rv: 0.7579

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

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

1.297e+01, 8.153e-01





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/grh	**R-squared:**	0.758
Model:	OLS	**Adj. R-squared:**	0.755
Method:	Least Squares	**F-statistic:**	306.8
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	6.00e-32
Time:	13:53:55	**Log-Likelihood:**	-122.15
No. Observations:	100	**AIC:**	248.3
Df Residuals:	98	**BIC:**	253.5
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/rv	-2.6968	2.364	-1.141	0.257	-7.388	1.994

Omnibus:	7.424	**Durbin-Watson:**	0.231
Prob(Omnibus):	0.024	**Jarque-Bera (JB):**	7.440
Skew:	-0.624	**Prob(JB):**	0.0242
Kurtosis:	2.523	**Cond. No.**	1.27e+03

Sensor spec@BdP_3f18c330 with sensor spec@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:53:56 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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): spec
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) grh: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) grh: 162 db records, deleted 0 NaN records.
Collected 100 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 100, min=38.00, max=44.75

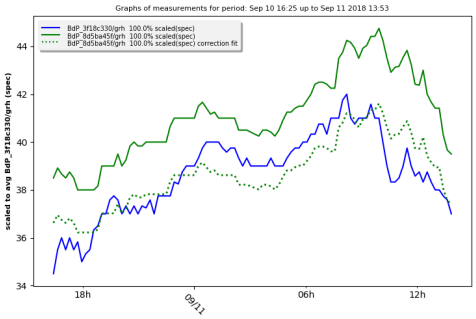
avg=41.08, std dev= 1.76

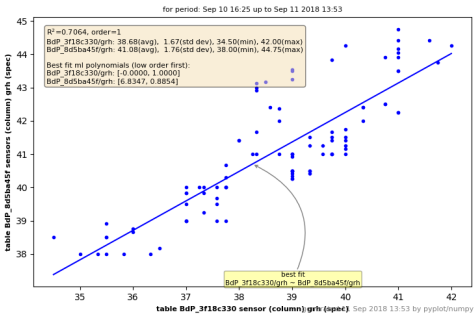
R-squared (R^2) with BdP_8d5ba45f/grh: 0.7064

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

BdP_3f18c330/grh (spec)-> best fit coefficients:

6.835e+00, 8.854e-01





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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/grh	**R-squared:**	0.706
Model:	OLS	**Adj. R-squared:**	0.703
Method:	Least Squares	**F-statistic:**	235.8
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	7.88e-28
Time:	13:53:57	**Log-Likelihood:**	-131.79
No. Observations:	100	**AIC:**	267.6
Df Residuals:	98	**BIC:**	272.8
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/grh	5.9030	2.137	2.763	0.007	1.663	10.143

Omnibus:	8.284	**Durbin-Watson:**	0.200
Prob(Omnibus):	0.016	**Jarque-Bera (JB):**	5.597
Skew:	-0.436	**Prob(JB):**	0.0609
Kurtosis:	2.236	**Cond. No.**	963.

Sensor sht31@BdP_8d5ba45f with sensor bme280@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:53:58 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:53
Origin of measurement time serie data from InFluxDB host: lunar
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, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_8d5ba45f sensor (column) srv: 162 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) rv: 162 db records, deleted 0 NaN records.
Collected 162 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:53, interval timing 15m:0s.

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

number 162, min=41.00, max=47.50

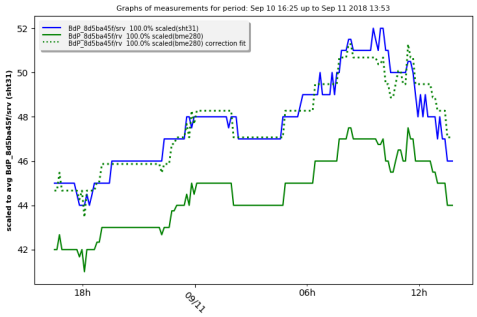
avg=44.54, std dev= 1.58

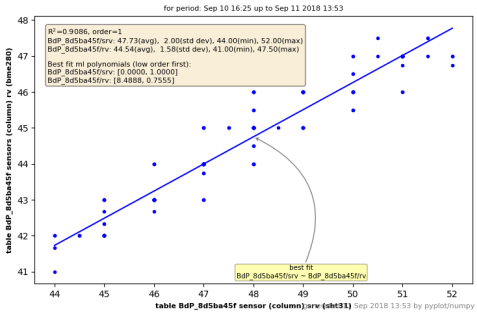
R-squared (R^2) with BdP_8d5ba45f/rv: 0.9086

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

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

8.489e+00, 7.555e-01





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

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/srv	**R-squared:**	0.909
Model:	OLS	**Adj. R-squared:**	0.908
Method:	Least Squares	**F-statistic:**	1590.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	5.12e-85
Time:	13:53:58	**Log-Likelihood:**	-148.09
No. Observations:	162	**AIC:**	300.2
Df Residuals:	160	**BIC:**	306.3
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/rv	-5.8451	1.344	-4.348	0.000	-8.500	-3.190

Omnibus:	1.791	**Durbin-Watson:**	0.695
Prob(Omnibus):	0.408	**Jarque-Bera (JB):**	1.501
Skew:	0.005	**Prob(JB):**	0.472
Kurtosis:	3.471	**Cond. No.**	1.26e+03

Sensor sht31@BdP_8d5ba45f with sensor spec@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:54:00 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:54
Origin of measurement time serie data from InFluxDB host: lunar
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): spec, sht31
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_8d5ba45f sensor (column) srv: 162 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) grh: 162 db records, deleted 0 NaN records.
Collected 162 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:54, interval timing 15m:0s.

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

number 162, min=38.00, max=44.66

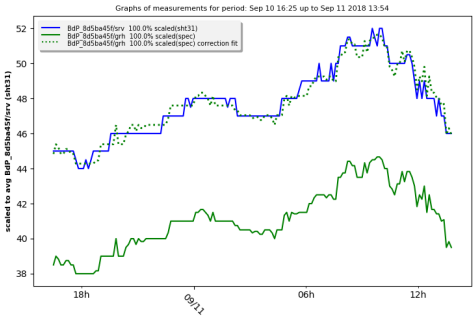
avg=41.12, std dev= 1.76

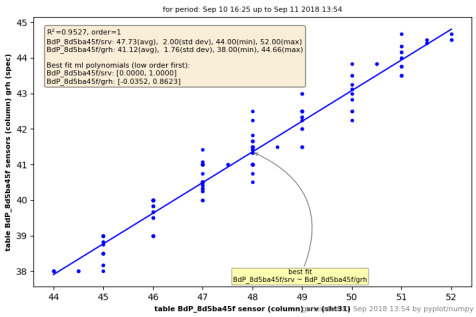
R-squared (R^2) with BdP_8d5ba45f/grh: 0.9527

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

BdP_8d5ba45f/srv (spec)-> best fit coefficients:

-3.523e-02, 8.623e-01





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

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/srv	**R-squared:**	0.953
Model:	OLS	**Adj. R-squared:**	0.952
Method:	Least Squares	**F-statistic:**	3222.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	6.37e-108
Time:	13:54:00	**Log-Likelihood:**	-94.710
No. Observations:	162	**AIC:**	193.4
Df Residuals:	160	**BIC:**	199.6
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/grh	2.2967	0.801	2.867	0.005	0.715	3.879

Omnibus:	0.700	**Durbin-Watson:**	1.220
Prob(Omnibus):	0.705	**Jarque-Bera (JB):**	0.781
Skew:	0.015	**Prob(JB):**	0.677
Kurtosis:	2.661	**Cond. No.**	961.

Sensor bme280@BdP_8d5ba45f with sensor spec@BdP_8d5ba45f

correlation report for rh () measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:54:01 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:54
Origin of measurement time serie data from InFluxDB host: lunar
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, spec
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_8d5ba45f sensor (column) rv: 162 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) grh: 162 db records, deleted 0 NaN records.
Collected 162 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:54, interval timing 15m:0s.

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

number 162, min=38.00, max=44.66

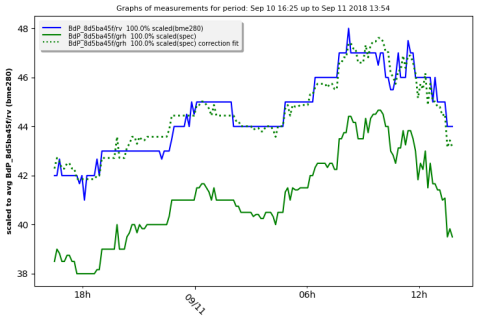
avg=41.12, std dev= 1.76

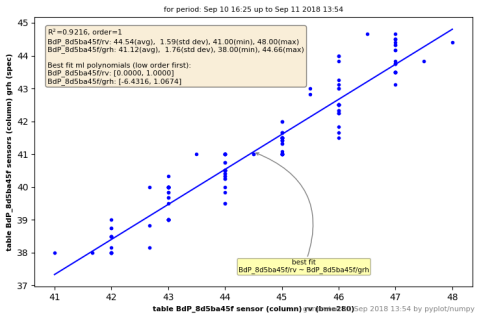
R-squared (R^2) with BdP_8d5ba45f/grh: 0.9216

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

BdP_8d5ba45f/rv (spec)-> best fit coefficients:

-6.432e+00, 1.067e+00





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

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/rv	**R-squared:**	0.922
Model:	OLS	**Adj. R-squared:**	0.921
Method:	Least Squares	**F-statistic:**	1882.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.23e-90
Time:	13:54:02	**Log-Likelihood:**	-98.331
No. Observations:	162	**AIC:**	200.7
Df Residuals:	160	**BIC:**	206.8
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/grh	9.0440	0.819	11.041	0.000	7.426	10.662

Omnibus:	2.821	**Durbin-Watson:**	0.819
Prob(Omnibus):	0.244	**Jarque-Bera (JB):**	2.645
Skew:	-0.240	**Prob(JB):**	0.267
Kurtosis:	2.598	**Cond. No.**	961.