Table of Contents

Summary of correlations of sensor kits and sensor modules

Sensorkits: BdP_3f18c330 BdP_8d5ba45f
Report generated on: Tue 11 Sep 13:57:11 CEST 2018

R-square and statistical summary

Measurement PM1 correlation key values

Correlation 1 - **PM1** - kit BdP_3f18c330 sensor type **PMS7003** with kit BdP_8d5ba45f sensor type **PMS7003**:

nr samples 100, min= 0.82, max= 7.24
avg= 2.53, std dev= 1.58
R-squared:
0.9192

Best fit polynomial coefficients:
[-3.448e-01, 8.435e-01]

Measurement PM2.5 correlation key values

Correlation 2 - **PM2.5** - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_3f18c330 sensor type **PMS7003**:

nr samples 100, min= 1.68, max=16.25
avg= 5.14, std dev= 2.59
R-squared: 1.0000
Best fit polynomial coefficients:
[1.066e-15, 1.000e+00]

Correlation 3 - **PM2.5** - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_8d5ba45f sensor type **SDS011**:

nr samples 100, min= 1.35, max=10.72
avg= 4.22, std dev= 2.33
R-squared:
0.8754

Best fit polynomial coefficients:
[-1.127e-01, 8.436e-01]

Correlation 4 - **PM2.5** - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_8d5ba45f sensor type **PMS7003**:

nr samples 100, min= 1.35, max=10.72
avg= 4.22, std dev= 2.33
R-squared:
0.8754

Best fit polynomial coefficients:
[-1.127e-01, 8.436e-01]

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

nr samples 100, min= 1.35, max=10.72
avg= 4.22, std dev= 2.33
R-squared:
0.8754

Best fit polynomial coefficients:
[-1.127e-01, 8.436e-01]

Correlation 6 - **PM2.5** - kit BdP_3f18c330 sensor type **PMS7003** with kit BdP_8d5ba45f sensor type **PMS7003**:

nr samples 100, min= 1.35, max=10.72
avg= 4.22, std dev= 2.33
R-squared:
0.8754

Best fit polynomial coefficients:
[-1.127e-01, 8.436e-01]

Correlation 7 - **PM2.5** - kit BdP_8d5ba45f sensor type **SDS011** with kit BdP_8d5ba45f sensor type **PMS7003**:

nr samples 163, min= 1.02, max=12.67
avg= 4.20, std dev= 2.39
R-squared:
0.9921

Best fit polynomial coefficients:
[3.315e-02, 9.921e-01]

Measurement PM10 correlation key values

Correlation 8 - **PM10** - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_3f18c330 sensor type **PMS7003**:

nr samples 100, min= 1.73, max=21.07
avg= 5.73, std dev= 3.07
R-squared: 1.0000
Best fit polynomial coefficients:
 [-1.421e-15, 1.000e+00]

Correlation 9 - **PM10** - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_8d5ba45f sensor type **SDS011**:

nr samples 100, min= 1.67, max=12.93
avg= 5.04, std dev= 2.70
R-squared:
0.8533

Best fit polynomial coefficients:
 [3.768e-01, 8.125e-01]

Correlation 10 - **PM10** - kit BdP_3f18c330 sensor type **SDS011** with kit BdP_8d5ba45f sensor type **PMS7003**:

nr samples 100, min= 1.67, max=12.93
avg= 5.04, std dev= 2.70
R-squared:
0.8533

Best fit polynomial coefficients:
 [3.768e-01, 8.125e-01]

Correlation 11 - **PM10** - kit BdP_3f18c330 sensor type **PMS7003** with kit BdP_8d5ba45f sensor type **SDS011**:

nr samples 100, min= 1.67, max=12.93
avg= 5.04, std dev= 2.70
R-squared:
0.8533

Best fit polynomial coefficients:
 [3.768e-01, 8.125e-01]

Correlation 12 - **PM10** - kit BdP_3f18c330 sensor type **PMS7003** with kit BdP_8d5ba45f sensor type **PMS7003**:

nr samples 100, min= 1.67, max=12.93
avg= 5.04, std dev= 2.70
R-squared:
0.8533

Best fit polynomial coefficients:
 [3.768e-01, 8.125e-01]

Correlation 13 - **PM10** - kit BdP_8d5ba45f sensor type **SDS011** with kit BdP_8d5ba45f sensor type **PMS7003**:

nr samples 163, min= 1.43, max=17.29
avg= 5.05, std dev= 2.82
R-squared:
0.9927

Best fit polynomial coefficients:
 [3.708e-02, 9.927e-01]

Sensor pms7003@BdP_3f18c330 with sensor pms7003@BdP_8d5ba45f

correlation report for pm1 () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:57:09 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): pms7003
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) pm1: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) pm1: 163 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 13:57, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm1:

number 100, min= 0.82, max= 7.24

avg= 2.53, std dev= 1.58

R-squared (R^2) with BdP_8d5ba45f/pm1: 0.9192

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

BdP_3f18c330/pm1 (pms7003)-> best fit coefficients:

-3.448e-01, 8.435e-01

Statistical summary linear regression for BdP_3f18c330/pm1 with ['BdP_8d5ba45f/pm1']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm1	**R-squared:**	0.919
Model:	OLS	**Adj. R-squared:**	0.918
Method:	Least Squares	**F-statistic:**	1115.
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	2.43e-55
Time:	13:57:10	**Log-Likelihood:**	-74.967
No. Observations:	100	**AIC:**	153.9
Df Residuals:	98	**BIC:**	159.1
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/pm1	0.6511	0.097	6.684	0.000	0.458	0.844

Omnibus:	46.171	**Durbin-Watson:**	1.763
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	173.043
Skew:	1.505	**Prob(JB):**	2.66e-38
Kurtosis:	8.699	**Cond. No.**	6.09
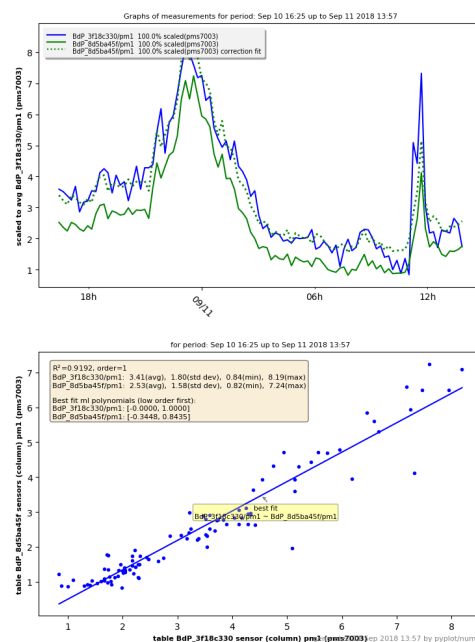
Sensor sds011@BdP_3f18c330 with sensor pms7003@BdP_3f18c330

correlation report for pm25 () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330
Date of correlation report: Tue 11 Sep 13:57:11 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): sds011, pms7003
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) pm25: 100 db records, deleted 0 NaN records.
Database table BdP_3f18c330 sensor (column) pm25: 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 13:57, interval timing 15m:0s.

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

number 100, min= 1.68, max=16.25

avg= 5.14, std dev= 2.59

R-squared (R^2) with BdP_3f18c330/pm25: 1.0000

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

BdP_3f18c330/pm25 (pms7003)-> best fit coefficients:

1.066e-15, 1.000e+00

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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	1.000
Model:	OLS	Adj. R-squared:	1.000
Method:	Least Squares	F-statistic:	1.250e+32
Date:	Tue, 11 Sep 2018	Prob (F-statistic):	0.00
Time:	13:57:11	Log-Likelihood:	3229.0
No. Observations:	100	AIC:	-6454.
Df Residuals:	98	BIC:	-6449.
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_3f18c330/pm25	-3.178e-15	5.15e-16	-6.176	0.000	-4.2e-15	-2.16e-15

Omnibus:	43.373	Durbin-Watson:	0.038
Prob(Omnibus):	0.000	Jarque-Bera (JB):	146.073
Skew:	-1.446	Prob(JB):	1.91e-32
Kurtosis:	8.166	Cond. No.	13.1
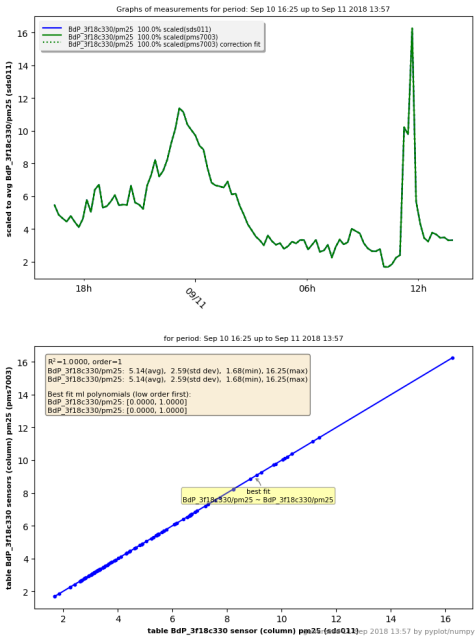
Sensor sds011@BdP_3f18c330 with sensor sds011@BdP_8d5ba45f

correlation report for pm25 () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:57:13 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): sds011
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) pm25: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) pm25: 163 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 13:57, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25:

number 100, min= 1.35, max=10.72

avg= 4.22, std dev= 2.33

R-squared (R^2) with BdP_8d5ba45f/pm25: 0.8754

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

BdP_3f18c330/pm25 (sds011)-> best fit coefficients:

-1.127e-01, 8.436e-01

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

Graphs of measurements for period: Sep 10 16:25 up to Sep 11 2018 13:57

for period: Sep 10 16:25 up to Sep 11 2018 13:57

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.875
Model:	OLS	Adj. R-squared:	0.874
Method:	Least Squares	F-statistic:	688.8
Date:	Tue, 11 Sep 2018	Prob (F-statistic):	4.03e-46
Time:	13:57:13	Log-Likelihood:	-132.87
No. Observations:	100	AIC:	269.7
Df Residuals:	98	BIC:	275.0
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/pm25	0.7569	0.191	3.968	0.000	0.378	1.135

Omnibus:	100.325	Durbin-Watson:	1.395
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1314.230
Skew:	3.247	Prob(JB):	4.16e-286
Kurtosis:	19.530	Cond. No.	10.3

Sensor sds011@BdP_3f18c330 with sensor pms7003@BdP_8d5ba45f

correlation report for pm25 () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:57:15 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): sds011, pms7003
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) pm25: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) pm25: 163 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 13:57, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25:

number 100, min= 1.35, max=10.72

avg= 4.22, std dev= 2.33

R-squared (R^2) with BdP_8d5ba45f/pm25: 0.8754

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

BdP_3f18c330/pm25 (pms7003)-> best fit coefficients:

-1.127e-01, 8.436e-01

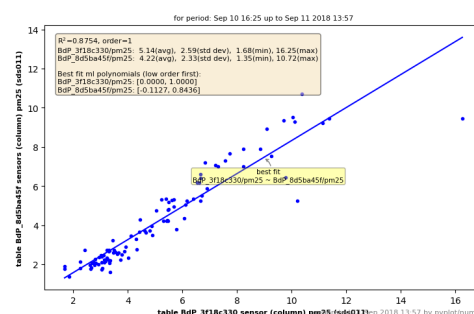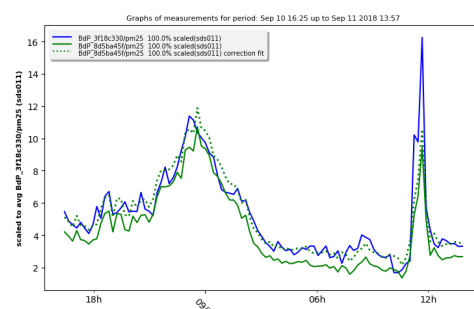Statistical summary linear regression for BdP_3f18c330/pm25 with ['BdP_8d5ba45f/pm25']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.875
Model:	OLS	Adj. R-squared:	0.874
Method:	Least Squares	F-statistic:	688.8
Date:	Tue, 11 Sep 2018	Prob (F-statistic):	4.03e-46
Time:	13:57:15	Log-Likelihood:	-132.87
No. Observations:	100	AIC:	269.7
Df Residuals:	98	BIC:	275.0
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/pm25	0.7569	0.191	3.968	0.000	0.378	1.135

Omnibus:	100.325	Durbin-Watson:	1.395
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1314.230
Skew:	3.247	Prob(JB):	4.16e-286
Kurtosis:	19.530	Cond. No.	10.3

Sensor pms7003@BdP_3f18c330 with sensor sds011@BdP_8d5ba45f

correlation report for pm25 () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:57:16 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): sds011, pms7003
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) pm25: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) pm25: 163 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 13:57, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25:

number 100, min= 1.35, max=10.72

avg= 4.22, std dev= 2.33

R-squared (R^2) with BdP_8d5ba45f/pm25: 0.8754

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

BdP_3f18c330/pm25 (sds011)-> best fit coefficients:
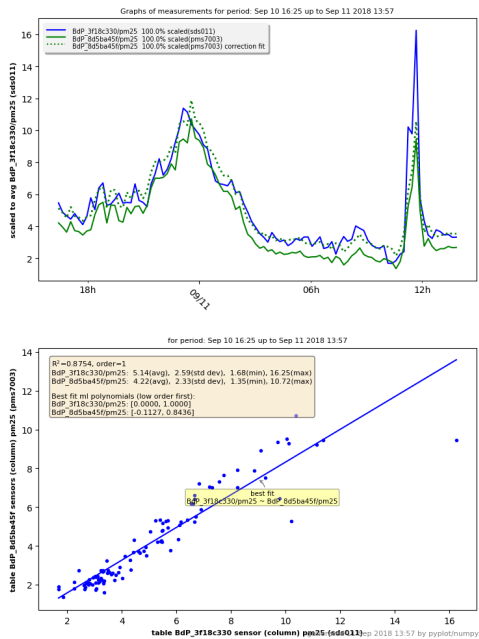
-1.127e-01, 8.436e-01

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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.875
Model:	OLS	Adj. R-squared:	0.874
Method:	Least Squares	F-statistic:	688.8
Date:	Tue, 11 Sep 2018	Prob (F-statistic):	4.03e-46
Time:	13:57:17	Log-Likelihood:	-132.87
No. Observations:	100	AIC:	269.7
Df Residuals:	98	BIC:	275.0
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/pm25	0.7569	0.191	3.968	0.000	0.378	1.135

Omnibus:	100.325	Durbin-Watson:	1.395
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1314.230
Skew:	3.247	Prob(JB):	4.16e-286
Kurtosis:	19.530	Cond. No.	10.3

Sensor pms7003@BdP_3f18c330 with sensor pms7003@BdP_8d5ba45f

correlation report for pm25 () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:57:18 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): pms7003
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) pm25: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) pm25: 163 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 13:57, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25:

number 100, min= 1.35, max=10.72

avg= 4.22, std dev= 2.33

R-squared (R^2) with BdP_8d5ba45f/pm25: 0.8754

Best fit linear single polynomial regression curve ($A_0*X^0 + A_1*X^1$):
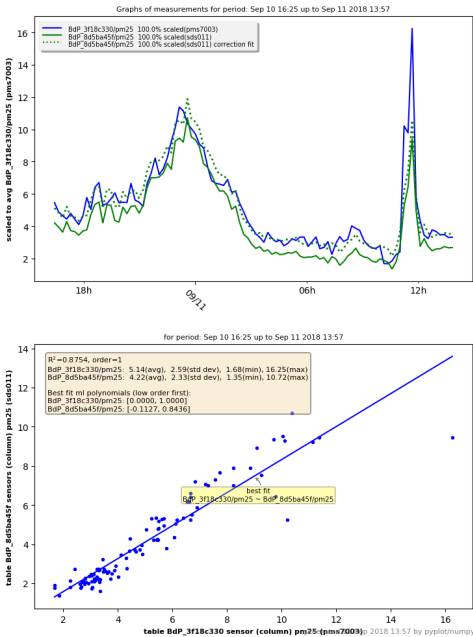
BdP_3f18c330/pm25 (pms7003)-> best fit coefficients:

-1.127e-01, 8.436e-01

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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm25	R-squared:	0.875
Model:	OLS	Adj. R-squared:	0.874
Method:	Least Squares	F-statistic:	688.8
Date:	Tue, 11 Sep 2018	Prob (F-statistic):	4.03e-46
Time:	13:57:18	Log-Likelihood:	-132.87
No. Observations:	100	AIC:	269.7
Df Residuals:	98	BIC:	275.0
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/pm25	0.7569	0.191	3.968	0.000	0.378	1.135

Omnibus:	100.325	Durbin-Watson:	1.395
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1314.230
Skew:	3.247	Prob(JB):	4.16e-286
Kurtosis:	19.530	Cond. No.	10.3

Sensor sds011@BdP_8d5ba45f with sensor pms7003@BdP_8d5ba45f

correlation report for pm25 () measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:57:20 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): sds011, pms7003
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_8d5ba45f sensor (column) pm25: 163 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) pm25: 163 db records, deleted 0 NaN records.
Collected 163 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:57, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm25:

number 163, min= 1.02, max=12.67

avg= 4.20, std dev= 2.39

R-squared (R^2) with BdP_8d5ba45f/pm25: 0.9921

Best fit linear single polynomial regression curve ($A_0*X^0 + A_1*X^1$):
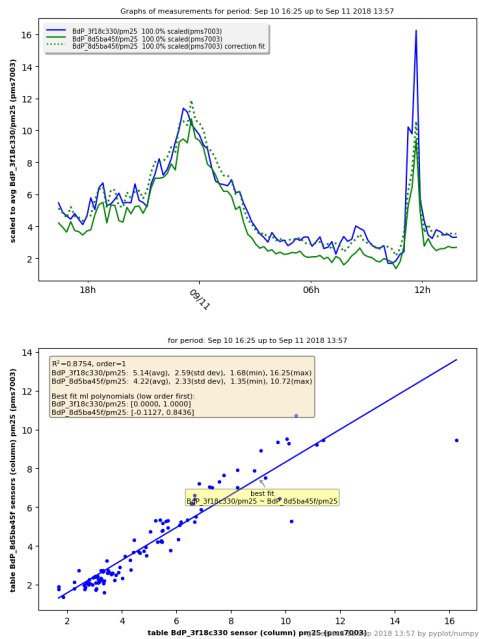
BdP_8d5ba45f/pm25 (pms7003)-> best fit coefficients:

3.315e-02, 9.921e-01

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

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm25	R-squared:	0.992
Model:	OLS	Adj. R-squared:	0.992
Method:	Least Squares	F-statistic:	2.025e+04
Date:	Tue, 11 Sep 2018	Prob (F-statistic):	3.22e-171
Time:	13:57:20	Log-Likelihood:	20.576
No. Observations:	163	AIC:	-37.15
Df Residuals:	161	BIC:	-30.96
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/pm25	-3.712e-15	0.034	-1.09e-13	1.000	-0.067	0.067

Omnibus:	33.454	Durbin-Watson:	3.037
Prob(Omnibus):	0.000	Jarque-Bera (JB):	352.600
Skew:	-0.000	Prob(JB):	2.72e-77
Kurtosis:	10.205	Cond. No.	10.1
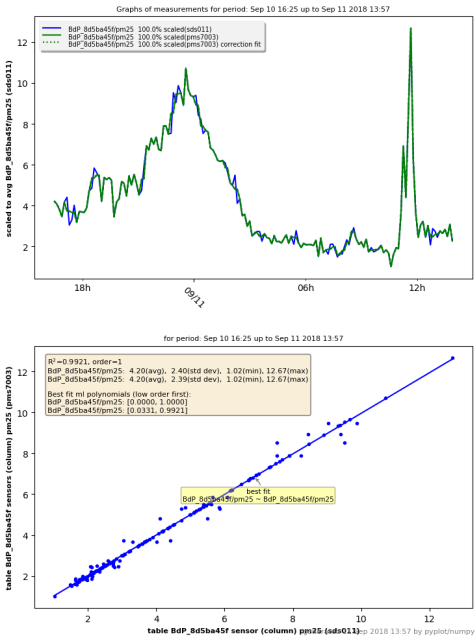
Sensor sds011@BdP_3f18c330 with sensor pms7003@BdP_3f18c330

correlation report for pm10 () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 3f18c330
Date of correlation report: Tue 11 Sep 13:57:21 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): sds011, pms7003
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) pm10: 100 db records, deleted 0 NaN records.
Database table BdP_3f18c330 sensor (column) pm10: 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 13:57, interval timing 15m:0s.

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

number 100, min= 1.73, max=21.07

avg= 5.73, std dev= 3.07

R-squared (R^2) with BdP_3f18c330/pm10: 1.0000

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

BdP_3f18c330/pm10 (pms7003)-> best fit coefficients:

-1.421e-15, 1.000e+00

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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	**R-squared:**	1.000
Model:	OLS	**Adj. R-squared:**	1.000
Method:	Least Squares	**F-statistic:**	5.882e+32
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	0.00
Time:	13:57:22	**Log-Likelihood:**	3289.6
No. Observations:	100	**AIC:**	-6575.
Df Residuals:	98	**BIC:**	-6570.
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_3f18c330/pm10	1.18e-15	2.68e-16	4.400	0.000	6.48e-16	1.71e-15

Omnibus:	0.293	**Durbin-Watson:**	0.062
Prob(Omnibus):	0.864	**Jarque-Bera (JB):**	0.182
Skew:	-0.104	**Prob(JB):**	0.913
Kurtosis:	2.989	**Cond. No.**	14.0
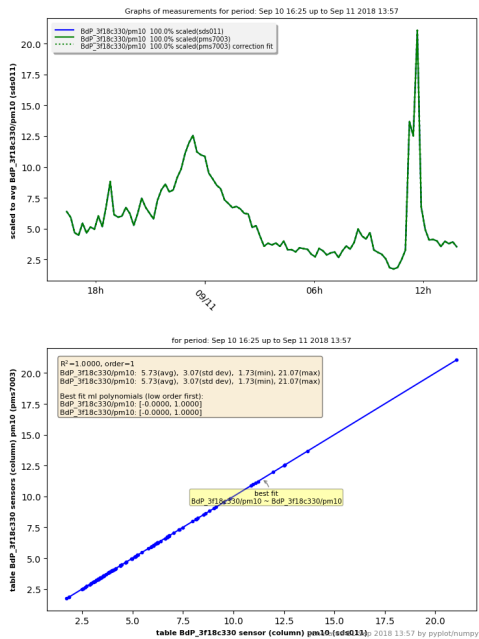
Sensor sds011@BdP_3f18c330 with sensor sds011@BdP_8d5ba45f

correlation report for pm10 () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:57:23 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): sds011
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) pm10: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) pm10: 163 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 13:57, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10:

number 100, min= 1.67, max=12.93

avg= 5.04, std dev= 2.70

R-squared (R^2) with BdP_8d5ba45f/pm10: 0.8533

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

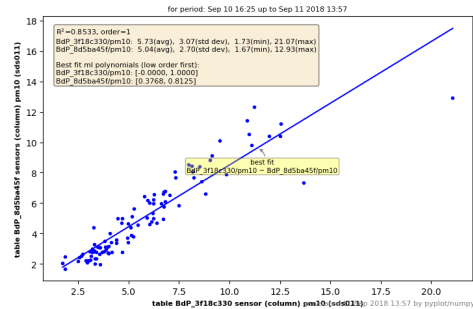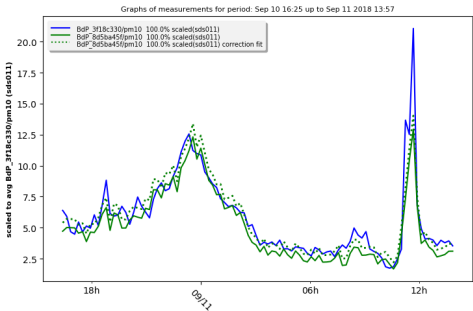BdP_3f18c330/pm10 (sds011)-> best fit coefficients:

3.768e-01, 8.125e-01

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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.853
Model:	OLS	Adj. R-squared:	0.852
Method:	Least Squares	F-statistic:	570.2
Date:	Tue, 11 Sep 2018	Prob (F-statistic):	1.23e-42
Time:	13:57:24	Log-Likelihood:	-157.93
No. Observations:	100	AIC:	319.9
Df Residuals:	98	BIC:	325.1
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/pm10	0.4453	0.251	1.772	0.079	-0.053	0.944

Omnibus:	94.007	Durbin-Watson:	1.751
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1125.089
Skew:	2.982	Prob(JB):	4.90e-245
Kurtosis:	18.312	Cond. No.	12.4

Sensor sds011@BdP_3f18c330 with sensor pms7003@BdP_8d5ba45f

correlation report for pm10 () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:57:25 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): sds011, pms7003
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) pm10: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) pm10: 163 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 13:57, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10:

number 100, min= 1.67, max=12.93

avg= 5.04, std dev= 2.70

R-squared (R^2) with BdP_8d5ba45f/pm10: 0.8533

Best fit linear single polynomial regression curve ($A_0*X^0 + A_1*X^1$):
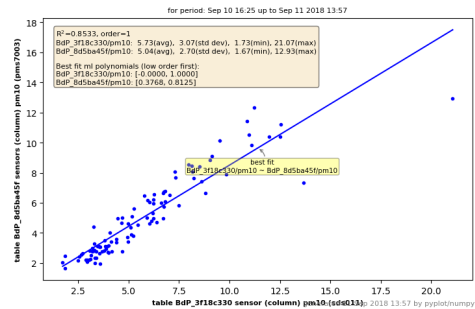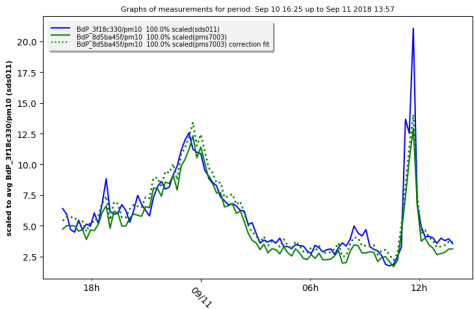
BdP_3f18c330/pm10 (pms7003)-> best fit coefficients:

3.768e-01, 8.125e-01

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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	**R-squared:**	0.853
Model:	OLS	**Adj. R-squared:**	0.852
Method:	Least Squares	**F-statistic:**	570.2
Date:	Tue, 11 Sep 2018	**Prob (F-statistic):**	1.23e-42
Time:	13:57:25	**Log-Likelihood:**	-157.93
No. Observations:	100	**AIC:**	319.9
Df Residuals:	98	**BIC:**	325.1
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/pm10	0.4453	0.251	1.772	0.079	-0.053	0.944

Omnibus:	94.007	**Durbin-Watson:**	1.751
Prob(Omnibus):	0.000	**Jarque-Bera (JB):**	1125.089
Skew:	2.982	**Prob(JB):**	4.90e-245
Kurtosis:	18.312	**Cond. No.**	12.4

Sensor pms7003@BdP_3f18c330 with sensor sds011@BdP_8d5ba45f

correlation report for pm10 () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:57:27 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): sds011, pms7003
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) pm10: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) pm10: 163 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 13:57, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10:

number 100, min= 1.67, max=12.93

avg= 5.04, std dev= 2.70

R-squared (R^2) with BdP_8d5ba45f/pm10: 0.8533

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

BdP_3f18c330/pm10 (sds011)-> best fit coefficients:

3.768e-01, 8.125e-01

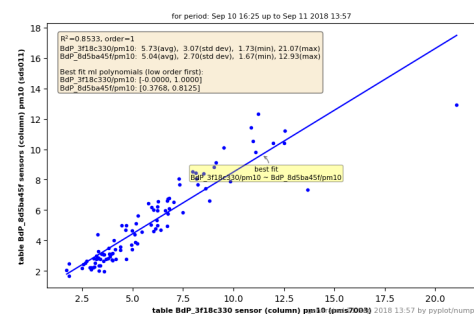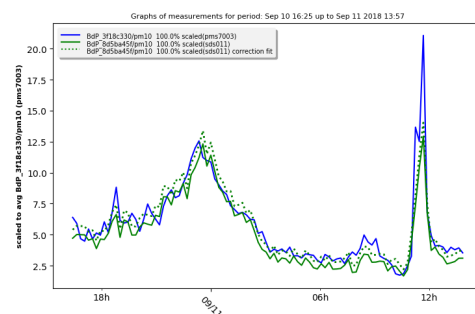Statistical summary linear regression for BdP_3f18c330/pm10 with ['BdP_8d5ba45f/pm10']:

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.853
Model:	OLS	Adj. R-squared:	0.852
Method:	Least Squares	F-statistic:	570.2
Date:	Tue, 11 Sep 2018	Prob (F-statistic):	1.23e-42
Time:	13:57:27	Log-Likelihood:	-157.93
No. Observations:	100	AIC:	319.9
Df Residuals:	98	BIC:	325.1
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/pm10	0.4453	0.251	1.772	0.079	-0.053	0.944

Omnibus:	94.007	Durbin-Watson:	1.751
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1125.089
Skew:	2.982	Prob(JB):	4.90e-245
Kurtosis:	18.312	Cond. No.	12.4

Sensor pms7003@BdP_3f18c330 with sensor pms7003@BdP_8d5ba45f

correlation report for pm10 () measurements

Correlation details of project BdP sensor kit ID 3f18c330 with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:57:28 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): pms7003
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_3f18c330 sensor (column) pm10: 100 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) pm10: 163 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 13:57, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10:

number 100, min= 1.67, max=12.93

avg= 5.04, std dev= 2.70

R-squared (R^2) with BdP_8d5ba45f/pm10: 0.8533

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

BdP_3f18c330/pm10 (pms7003)-> best fit coefficients:

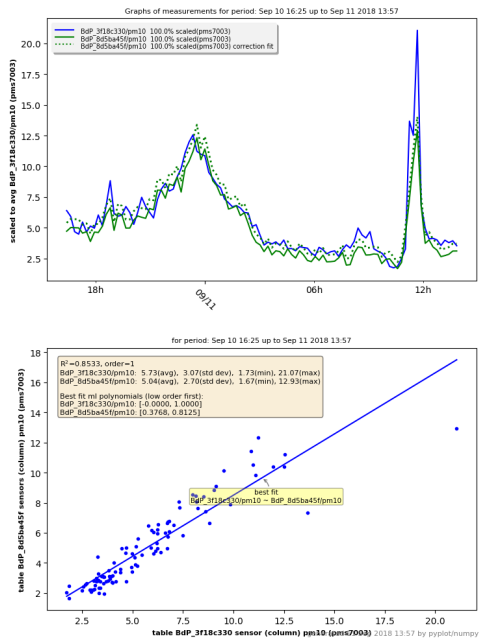3.768e-01, 8.125e-01

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

OLS Regression Results

Dep. Variable:	BdP_3f18c330/pm10	R-squared:	0.853
Model:	OLS	Adj. R-squared:	0.852
Method:	Least Squares	F-statistic:	570.2
Date:	Tue, 11 Sep 2018	Prob (F-statistic):	1.23e-42
Time:	13:57:29	Log-Likelihood:	-157.93
No. Observations:	100	AIC:	319.9
Df Residuals:	98	BIC:	325.1
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/pm10	0.4453	0.251	1.772	0.079	-0.053	0.944

Omnibus:	94.007	Durbin-Watson:	1.751
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1125.089
Skew:	2.982	Prob(JB):	4.90e-245
Kurtosis:	18.312	Cond. No.	12.4

Sensor sds011@BdP_8d5ba45f with sensor pms7003@BdP_8d5ba45f

correlation report for pm10 () measurements

Correlation details of project BdP sensor kit ID 8d5ba45f with project BdP sensor kit ID 8d5ba45f
Date of correlation report: Tue 11 Sep 13:57:30 CEST 2018
From date 2018-09-10 16:25:18 upto 2018-09-11 13:57
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): sds011, pms7003
Graphs based on data MYSQL from luchtmetingen on server lunar as user teus:
Database table BdP_8d5ba45f sensor (column) pm10: 163 db records, deleted 0 NaN records.
Database table BdP_8d5ba45f sensor (column) pm10: 163 db records, deleted 0 NaN records.
Collected 163 values in sample time frame (15m/0s) for the graph.

Samples period: Sep 10 16:25 up to Sep 11 2018 13:57, interval timing 15m:0s.

Data from table/sheet BdP_8d5ba45f, sensor (column) pm10:

number 163, min= 1.43, max=17.29

avg= 5.05, std dev= 2.82

R-squared (R^2) with BdP_8d5ba45f/pm10: 0.9927

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

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

3.708e-02, 9.927e-01

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

OLS Regression Results

Dep. Variable:	BdP_8d5ba45f/pm10	R-squared:	0.993
Model:	OLS	Adj. R-squared:	0.993
Method:	Least Squares	F-statistic:	2.176e+04
Date:	Tue, 11 Sep 2018	Prob (F-statistic):	1.02e-173
Time:	13:57:31	Log-Likelihood:	-0.51016
No. Observations:	163	AIC:	5.020
Df Residuals:	161	BIC:	11.21
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P>|t|	[0.025	0.975]
BdP_8d5ba45f/pm10	-2.595e-15	0.039	-6.62e-14	1.000	-0.077	0.077

Omnibus:	31.775	Durbin-Watson:	3.198
Prob(Omnibus):	0.000	Jarque-Bera (JB):	302.744
Skew:	0.000	Prob(JB):	1.82e-66
Kurtosis:	9.677	Cond. No.	12.1