OLS regression results for Europe

OLS Regression Results

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Dep. Variable:	MB_Year	R-squared:	0.032
Model:	OLS	Adj. R-squared:	0.031
Method:	Least Squares	F-statistic:	40.74
Date:	Tue, 16 Jul 2024	Prob (F-statistic):	3.86e-18
Time:	14:05:05	Log-Likelihood:	-20759.
No. Observations:	2507	AIC:	4.152e+04
Df Residuals:	2504	BIC:	4.154e+04
Df Model:	2		
Covariance Type:	nonrobust		
===========		=======================================	
coef std err	t P> t	[0.025 0.975]	
const -982.062	3 62.958 -1	5.599 0.000 -1105.518	-858.607
		0.016 0.987 -2.998	
_		8.993 0.000 2.82e+05	
Omnibus:	94.048	======================================	2.018
Prob(Omnibus):	0.000	Jarque-Bera (JB):	128.154
Skew:	-0.382	• • • • • • • • • • • • • • • • • • • •	1.48e-28
Kurtosis:	3.801	Cond. No.	6.00e+04
=======================================	==========		

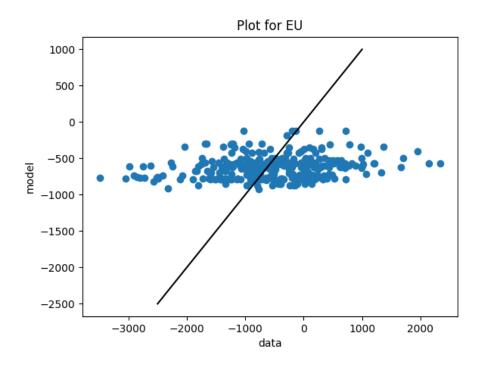
Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 6e+04. This might indicate that there are strong multicollinearity or other numerical problems.

====== model performance ======

MAE model: 697.554

Dep. Variable:	MB Y	ear R	-squared:		0.032
Model:	_		dj. R-squared:	:	0.031
Method:	Least Squa		-statistic:	40.74	
Date:	Tue, 16 Jul 2	024 Pi	rob (F-statist	tic):	3.86e-18
Time:	14:05	:05 Lo	og-Likelihood:	:	-20759.
No. Observations:	2	.507 A	īc:		4.152e+04
Of Residuals:	2	.504 B	IC:		4.154e+04
Of Model:		2			
Covariance Type:	nonrob 	ust 			
co	ef std err		t P> t	[0.025	0 . 975]
 onst -982.06	623 62.958	-15.59	99 0.000	-1105 . 518	-858 . 607
nnual_SF -0.02	49 1.516	-0.01	16 0.987	-2.998	2.948
MPP 3.605e+	05 4.01e+04	8.99	93 0.000	2.82e+05	4.39e+05
======================================	94.	948 Di	urbin-Watson:		 2.018
rob(Omnibus):	0.	000 Ја	arque-Bera (JE	B):	128.154
kew:	-0.	382 Pi	rob(JB):		1.48e-28
urtosis:	3.	801 Co	ond. No.		6.00e+04



OLS regression results for north Scandinavia

OLS Regression Results

========	-=======	========	======	======	=======	========	========
Dep. Variab	ole:	MB_	Year I	R-squar	ed:		0.067
Model:			OLS /	Adj. R-	squared:		0.061
Method:		Least Squ	ares I	F-stati	stic:		11.74
Date:		Tue, 16 Jul	2024 I	Prob (F	-statisti	c):	1.20e-05
Time:		14:1	3:55	Log-Lik	elihood:		-2677.9
No. Observa	ations:		330	AIC:			5362.
Df Residual	ls:		327 I	BIC:			5373.
Df Model:			2				
Covariance	Type:	nonro	bust				
========		========	======	======	=======	========	========
	coef	std err		t	P> t	[0.025	0.975]
const	-972.6529	151.242	-6.4	431	0.000	-1270.184	-675.122
Annual_SF	6.1428	3.563	1.	724	0.086	-0.867	13.152
TMPP	4.262e+05	9.21e+04	4.0	628	0.000	2.45e+05	6.07e+05
Omnibus:	=======	========== 0	.922 I	====== Durbin-	====== Watson:	========	1.899
Prob(Omnibu	ıs):	0	.631	Jarque-	Bera (JB)	:	0.938
Skew:	•	-0	.127 I	Prob(JB):		0.626
Kurtosis:		2	.939	Cond. N	0.		6.10e+04
========		========	======	======	=======	========	========
Madaaa							

Notes:

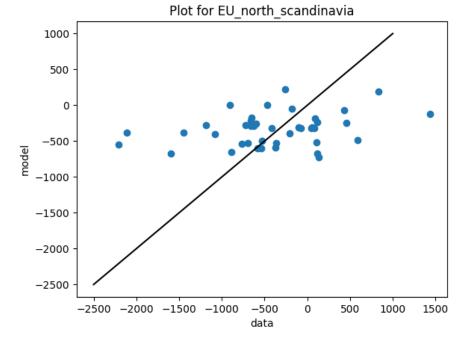
- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 6.1e+04. This might indicate that there are strong multicollinearity or other numerical problems.

====== model performance ======

MAE model: 531.294

ep. Variable:		MB Ye	ar	R-squa	red:		0.067
odel:		_ 0	LS		R-squared:		0.061
ethod:		Least Squar	es			11.74	
ate:	Tu	ue, 16 Jul 20	24	Prob (.c):	1.20e-05	
ime:		14:13:	55	Log-Li	kelihood:		-2677.9
o. Observations:		3	30	AIC:			5362.
f Residuals:		3.	27	BIC:			5373.
f Model:			2				
ovariance Type:		nonrobu:	st 				
	coef	std err		t	P> t	[0.025	0 . 975]
onst -972.	6529	151.242	-6	 6 . 431	0.000	-1270.184	-675 .122
nual_SF 6.	1428	3.563	1	1.724	0.086	-0.867	13.152
PP 4.262	e+05	9.21e+04	Z	4.628	0.000	2.45e+05	6.07e+05
 nibus:		0.9	 22	Durbir	 Watson:		1.899
ob(Omnibus):		0.6	31	Jarque	e-Bera (JB)	:	0.938
ew:		-0.1	27	Prob(J	B):		0.626
rtosis:		2.9	39	Cond.	No.		6.10e+04

MAE model: 531.294



OLS regression results for south Scandinavia

OLS Regression Results

========	=======	.=======	=====	======	========	.=======	========
Dep. Variab	le:	MB	Year	R-squ	ared:		0.067
Model:		-	OLS		R-squared:		0.061
Method:		Least Sq	uares	-	tistic:		11.74
Date:		Tue, 16 Jul			(F-statisti	.c):	1.20e-05
Time:			13:55		ikelihood:	,	-2677.9
No. Observa	tions:		330	AIC:			5362.
Df Residual	s:		327	BIC:			5373.
Df Model:			2				
Covariance	Type:	nonro	bust				
=======	coe	std err	=====	====== t	P> t	[0.025	0.975]
const	-972.6529	151.242		 6.431	0.000	-1270.184	-675.122
		3.563					
_	4.262e+0					2.45e+05	6.07e+05
Omnibus:	=======	:========)	===== 0.922	===== Durbi	======= n-Watson:	:=======	1.899
Prob(Omnibu	s):	(0.631	Jarqu	e-Bera (JB)	:	0.938
Skew:	·	- (3.127	Prob(JB):		0.626
Kurtosis:			2.939	Cond.	No.		6.10e+04
========	=======	-=======	=====	======	=======	=======	=======
Kurtosis:		·	2.971	Cond.	No.		6.36e+04
Notes:	=======						

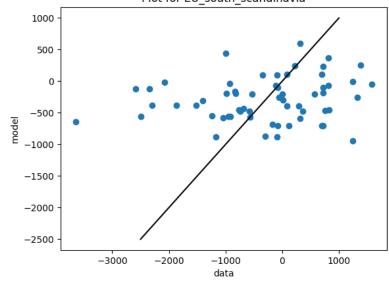
- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 6.36e+04. This might indicate that there are strong multicollinearity or other numerical problems.

====== model performance ======

MAE model: 852.633

Dep. Variable:	MB Yea	r R-squa	red:		0.067		
odel:	_ OL		-squared:		0.061		
ethod:	Least Square	s F-stat	11.74				
ate:	Tue, 16 Jul 202	4 Prob (Prob (F-statistic):				
ime:	14:13:5	5 Log-Li	kelihood:		-2677.9		
o. Observations:	33	0 AIC:			5362.		
f Residuals:	32				5373.		
f Model:		2					
ovariance Type: 	nonrobus 	t 					
coe	ef std err	t	P> t	[0.025	0.975]		
onst -972 . 652	29 151.242	-6 . 431	0.000	-1270 . 184	-675 . 122		
nnual_SF 6.142	28 3.563	1.724	0.086	-0.867	13.152		
√PP 4.262e+0	9.21e+04	4.628	0.000	2.45e+05	6.07e+05		
======================================	 0.92	====== 2 Durbin	======= -Watson:	-=======	1.899		
rob(Omnibus):	0.63	1 Jarque	-Bera (JB)):	0.938		
œw:	-0.12	7 Prob(J	B):		0.626		
ırtosis: 	2. 93	9 Cond. ======	No. =======		6.10e+04		
		1 Cond.			6.36e+04		





OLS regression results for central Europe

OLS Regression Results

========	=======	=======	======	======	========	=======	========
Dep. Variab	le:		MB_Year	R-sq	uared:		0.023
Model:			OLS	Adj.	R-squared:		0.021
Method:		Least	Squares	F-st	atistic:		19.58
Date:		Tue, 16	Jul 2024	Prob	(F-statistic	:	3.92e-09
Time:			14:18:50	Log-	Likelihood:		-13957.
No. Observa	tions:		1696	AIC:			2.792e+04
Df Residual	.s:		1693	BIC:			2.794e+04
Df Model:			2				
Covariance	Type:	r	nonrobust				
========	=======			======			========
	coef	std	err	t	P> t	[0.025	0.975]
const	-830.6446	71.	997 -	 11.537	0.000	-971 . 857	-689.432
Annual_SF	-5.3794	1.	729	-3.111	0.002	-8.771	-1.987
TMPP	2.517e+05	4.816	+04	5.232	0.000	1.57e+05	3.46e+05
Omnibus:	:======	:======	121.112	===== Durb	======== in-Watson:	=======	2.008
Prob(Omnibu	ıs):		0.000	Jarq	ue-Bera (JB):	:	172.948
Skew:	,		-0.587		(JB): `´		2.78e-38
Kurtosis:			4.033		. No.		6.25e+04
========				======			========
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Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 6.25e+04. This might indicate that there are strong multicollinearity or other numerical problems.

====== model performance ======

MAE model: 685.087

Dep. Variable:		MB Year	R-squa	red:		0.023
Model:		OLS		Adj. R-squared:		
Method:	Least Squares		F-stat	istic:		19.58
Date:	Tue, 16	Jul 2024	Prob (F-statisti	c):	3.92e-09
Time:	14:18:50		Log-Li	kelihood:		-13957.
No. Observations:		1696	AIC:			2.792e+04
Of Residuals:		1693	BIC:			2.794e+04
Of Model:		2				
Covariance Type:	no 	onrobust 				
cc	ef std	 err	t	P> t	[0.025	0 . 975]
const -830.64	146 71.9	997 -11	.537	0.000	-971 . 857	-689 . 432
Annual_SF -5.37	794 1.7	729 -3	.111	0.002	-8.771	-1.987
MPP 2.517e-	-05 4.81e	-04 5	.232	0.000	1.57e+05	3 . 46e+05
======== nibus:		121.112	Durbin	 -Watson:	=======	 2.008
rob(Omnibus):		0.000	Jarque	-Bera (JB)	:	172.948
kew:		-0.587	Prob(J	B):		2.78e-38
ırtosis:		4.033	Cond.	No.		6.25e+04

MAE model: 685.087

