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RELIGIOUS CHANGE AND THE SHAPING OF SOLIDARITY
AND SOCIAL PARTICIPATION IN A TROUBLED EUROPE

EGBERT RIBBERINK, PETER ACHTERBERG and DICK HOUTMAN

A post-secular turn in attitudes towards religion
Anti-religiosity and anti-Muslim sentiment in Western Europe

Supplementary materials

Full model explaining Anti-Religiosity and Anti-Muslim sentiment (OLS multilevel analysis, Maximum Likelihood, N=25,222 in 20 countries)

Dependent variable:	ANTI-RELIGIOSITY			ANTI_ISLAM_SENTIMENT		
	Model A1	Model A2	Model A3	Model B1	Model B2	Model B3
Constant	-0.02 (0.04)	-0.02 (0.04)	-0.02 (0.04)	-0.03 (0.06)	-0.05 (0.06)	-0.05 (0.06)
Country-level Secularity	-0.02 (0.04)	-0.02 (0.04)	-0.02 (0.04)	-0.20* (0.07)	-0.19* (0.07)	-0.19* (0.07)
Muslim presence	0.02 (0.04)	0.02 (0.04)	0.02 (0.04)	0.08 (0.06)	0.08 (0.06)	0.08 (0.06)
Integration index (MIPEX)	-0.03 (0.04)	-0.03 (0.04)	-0.03 (0.04)	-0.09 (0.06)	-0.09 (0.06)	-0.09 (0.06)
Gender = male	0.06*** (0.01)	0.06*** (0.01)	0.06*** (0.01)	0.06*** (0.01)	0.06*** (0.01)	0.06*** (0.01)
Gender = female (ref.)	--	--	--	--	--	--
Age	-0.09*** (0.01)	-0.09*** (0.01)	-0.09*** (0.01)	0.06*** (0.01)	0.06*** (0.01)	0.06*** (0.01)
Education	0.04*** (0.00)	0.03*** (0.00)	0.03*** (0.00)	-0.23*** (0.01)	-0.23*** (0.01)	-0.23*** (0.01)
Income >€5000 (ref.)	--	--	--	--	--	--
Income €2500-5000	-0.01~ (0.01)	-0.01~ (0.01)	-0.01~ (0.01)	0.01 (0.01)	0.01 (0.01)	0.01 (0.01)
Income €1500-2500	0.00 (0.01)	0.00 (0.01)	0.00 (0.01)	0.05*** (0.01)	0.05*** (0.01)	0.05*** (0.01)
Income <€1500	-0.01 (0.01)	-0.01 (0.01)	-0.01 (0.01)	0.05*** (0.01)	0.05*** (0.01)	0.05*** (0.01)
Income non-reported	0.01 (0.01)	0.01 (0.01)	0.01 (0.01)	0.08*** (0.01)	0.08*** (0.01)	0.08*** (0.01)
Protestant denomination	-0.10*** (0.01)	-0.11*** (0.01)	-0.11*** (0.01)	0.04*** (0.01)	0.04*** (0.01)	0.04*** (0.01)
Non-religious	0.36*** (0.01)	0.36*** (0.02)	0.36*** (0.02)	0.05* (0.02)	0.05*** (0.01)	0.06** (0.02)
Orthodox beliefs	-0.42*** (0.01)	-0.41*** (0.01)	-0.41*** (0.01)	0.05*** (0.01)	0.05*** (0.01)	0.05*** (0.01)
Country-level Secularity X Non-religious	--	--	-0.00 (0.02)	--	--	0.04* (0.02)
-2loglikelihood	54182.23	53970.53	53976.64	66051.23	65972.73	65974.56
Variance individual level	0.46	0.45	0.45	0.79	0.79	0.79
Variance country level	0.028	0.026	0.026	0.067	0.066	0.065

If (country eq 442) Muslim_country= 0.023.
If (country eq 470) Muslim_country= 0.005.
If (country eq 528) Muslim_country= 0.060.
If (country eq 578) Muslim_country= 0.037.
If (country eq 620) Muslim_country= 0.005.
If (country eq 724) Muslim_country= 0.021.
If (country eq 752) Muslim_country= 0.046.
If (country eq 756) Muslim_country= 0.049.
If (country eq 826) Muslim_country= 0.048.
If (country eq 909) Muslim_country= 0.048.
exe.

mipex data

If (country eq 40) MIPEX_pol= 42.
If (country eq 56) MIPEX_pol= 67.
If (country eq 208) MIPEX_pol= 53.
If (country eq 246) MIPEX_pol= 69.
If (country eq 250) MIPEX_pol= 51.
If (country eq 276) MIPEX_pol= 57.
If (country eq 300) MIPEX_pol= 49.
If (country eq 352) MIPEX_pol= 45.
If (country eq 372) MIPEX_pol= 49.
If (country eq 380) MIPEX_pol= 60.
If (country eq 442) MIPEX_pol= 59.
If (country eq 470) MIPEX_pol= 37.

If (country eq 528) MIPEX_pol= 68.
If (country eq 578) MIPEX_pol= 66.
If (country eq 620) MIPEX_pol= 79.
If (country eq 724) MIPEX_pol= 63.
If (country eq 752) MIPEX_pol= 78.
If (country eq 756) MIPEX_pol= 43.
If (country eq 826) MIPEX_pol= 57.
If (country eq 909) MIPEX_pol= 57.
exe.

religious variables

If (v105 eq 2) denom_relP=0.
If (v105 eq 1 and v106 eq 0) denom_relP=0.
If (v105 eq 1 and v106 eq 1) denom_relP=1.
If (v105 eq 1 and v106 eq 2) denom_relP=2.
If (v105 eq 1 and v106 eq 3) denom_relP=3.
If (v105 eq 1 and v106 eq 8) denom_relP=8.
If (v105 eq 1 and v106 eq 4) denom_relP=4.
If (v105 eq 1 and v106 eq 5) denom_relP=5.
If (v105 eq 1 and v106 eq 6) denom_relP=6.
If (v105 eq 1 and v106 eq 7) denom_relP=7.
If (v105 eq 1 and v106 eq 9) denom_relP=9.
EXE.

RECODE denom_relP (0=1) (1=2) (2,3=3) (8=4) (4,5,6,7,9=5) INTO Denom_Religiosity.

VARIABLE LABELS Denom_Religiosity 'Types of affiliation'.

EXECUTE.

recode Denom_Religiosity (3=1) (1,2,4,5=0) into Prot_Religiosity.

exe.

RECODE v109 (1,2,3,4,5,6,7=COPY) INTO secular2.

VARIABLE LABELS secular2 'No attendance'.

EXECUTE.

AGGREGATE

/OUTFILE=* MODE=ADDVARIABLES

/BREAK=country

/Secular_Country=MEAN(secular2).

anti-muslim scale

RECODE v102 (1=3) (2=1) (3=2) INTO v102new.

VARIABLE LABELS v102new 'immigrant no jobs'.

EXECUTE.

Recode v268 (1=10) (2=9) (3=8) (4=7) (5=6) (6=5) (7=4) (8=3) (9=2) (10=1) into v268new.

VARIABLE LABELS v268new 'immigrants take jobs away'.

EXECUTE.

Recode v269 (1=10) (2=9) (3=8) (4=7) (5=6) (6=5) (7=4) (8=3) (9=2) (10=1) into v269new.

VARIABLE LABELS v269new 'immigrants undermine cultural ife'.

EXECUTE.

Recode v270 (1=10) (2=9) (3=8) (4=7) (5=6) (6=5) (7=4) (8=3) (9=2) (10=1) into v270new.

VARIABLE LABELS v270new 'immigrants increase crime'.

EXECUTE.

Recode v271 (1=10) (2=9) (3=8) (4=7) (5=6) (6=5) (7=4) (8=3) (9=2) (10=1) into v271new.

VARIABLE LABELS v271new 'immigrants strain welfare'.

EXECUTE.

Recode v272 (1=10) (2=9) (3=8) (4=7) (5=6) (6=5) (7=4) (8=3) (9=2) (10=1) into v272new.

VARIABLE LABELS v272new 'immigrants become threat'.

EXECUTE.

Recode v274 (1=5) (2=4) (3=3) (4=2) (5=1) into v274new.

VARIABLE LABELS v274new 'immigrants make me feel stranger'.

EXECUTE.

Recode v275 (1=5) (2=4) (3=3) (4=2) (5=1) into v275new.

VARIABLE LABELS v275new 'immigrants too many'.

EXECUTE.

RECODE v53 (1=1) (-1,0=0) INTO v53new.

VARIABLE LABELS v53new 'no muslim neighbour'.

EXECUTE.

FACTOR

```
/VARIABLES v102new v268new v269new v270new v271new v272new v274new v275new v53new  
/MISSING LISTWISE  
/ANALYSIS v102new v268new v269new v270new v271new v272new v274new v275new v53new  
/PRINT INITIAL EXTRACTION  
/PLOT EIGEN  
/CRITERIA MINEIGEN(1) ITERATE(25)  
/EXTRACTION PC  
/ROTATION NOROTATE  
/METHOD=CORRELATION.
```

RELIABILITY

```
/VARIABLES=v102new v268new v269new v270new v271new v272new v274new v275new v53new  
/SCALE('ALL VARIABLES') ALL  
/MODEL=ALPHA. /SUMMARY=TOTAL.
```

```
DESCRIPTIVES VARIABLES== v102new v268new v269new v270new v271new v272new v274new  
v275new v53new
```

```
/save
```

```
/STATISTICS=MEAN STDDEV MIN MAX.
```

```
COMPUTE Anti_Islam_scale=mean.8(Zv102new, Zv268new, Zv269new, Zv270new, Zv271new,  
Zv272new, Zv274new, Zv275new, Zv53new).
```

```
EXECUTE.
```

AGGREGATE

```
/OUTFILE=* MODE=ADDVARIABLES
```

```
/BREAK=country
```

```
/Anti_Islam_country=MEAN(Anti_Islam_scale).
```

```
***anti-religiosity***
```

```
RECODE v114 (0=SYSMIS) (1=1) (-1=SYSMIS) (2=2) (3=3) into f034new2.
```

```
VARIABLE LABELS f034new2 'Convinced atheists1'.
```

```
EXECUTE.
```

```
RECODE v205 (1,2,3,4=copy) into e069new.
```

```
VARIABLE LABELS e069new 'Confidence in church low'.
```

```
EXECUTE.
```

```
FACTOR
```

```
/VARIABLES f034new2 e069new
```

```
/MISSING PAIRWISE
```

```
/ANALYSIS f034new2 e069new
```

```
/PLOT EIGEN
```

```
/CRITERIA MINEIGEN(1) ITERATE(25)
```

```
/EXTRACTION PC
```

```
/ROTATION NOROTATE
```

```
/METHOD=CORRELATION.
```

```
RELIABILITY
```

```
/VARIABLES= f034new2 e069new
```

```
/SCALE('ALL VARIABLES') ALL
```

```
/MODEL=ALPHA
```

```
/SUMMARY=TOTAL.
```

```
COMPUTE Anti_Religiosity=Mean(f034new2, e069new).
```

```
***Religious orthodoxy***
```

```
RECODE v119 (0=copy) (1=2) (-1=1) (-1=0) INTO v119new2.
```

```
VARIABLE LABELS v119new2 'belief in God'.
```

```
EXECUTE.
```

```
RECODE v120 (0=copy) (1=2) (-1=1) INTO v120new.
```

```
VARIABLE LABELS v120new 'belief in life after'.
```

```
EXECUTE.
```

```
RECODE v121 (0=copy) (1=2) (-1=1) INTO v121new.
```

```
VARIABLE LABELS v121new 'belief in hell'.
```

```
EXECUTE.
```

```
RECODE v122 (0=copy) (1=2) (-1=1) INTO v122new.
```

```
VARIABLE LABELS v122new 'belief in heaven'.
```

```
EXECUTE.
```

```
RECODE v123 (0=copy) (1=2) (-1=1) INTO v123new.
```

```
VARIABLE LABELS v123new 'belief in sin'.
```

EXECUTE.

FACTOR

```
/VARIABLES v119new2 v120new v121new v122new v123new  
/MISSING LISTWISE  
/ANALYSIS v119new2 v120new v121new v122new v123new  
/PRINT INITIAL EXTRACTION  
/PLOT EIGEN  
/CRITERIA MINEIGEN(1) ITERATE(25)  
/EXTRACTION PC  
/ROTATION NOROTATE  
/METHOD=CORRELATION.
```

RELIABILITY

```
/VARIABLES=v119new2 v120new v121new v122new v123new  
/SCALE('ALL VARIABLES') ALL  
/MODEL=ALPHA. /SUMMARY=TOTAL.
```

Compute Orthodox_beliefs2=mean.4(v119new2, v120new, v121new, v122new, v123new).

variable labels Orthodox_beliefs2 'Orthodox beliefs'.

execute.

Income1=tot155, 2=tot2500, 3=tot5000, 4=5000+, 0=missing***

if (studyno eq 4800) income=5.

If (v353MM eq 1 and studyno eq 4800) Income=1.

If (v353MM eq 2 and studyno eq 4800) Income=1.
If (v353MM eq 3 and studyno eq 4800) Income=1.
If (v353MM eq 4 and studyno eq 4800) Income=1.
If (v353MM eq 5 and studyno eq 4800) Income=1.
If (v353MM eq 6 and studyno eq 4800) Income=2.
If (v353MM eq 7 and studyno eq 4800) Income=2.
If (v353MM eq 8 and studyno eq 4800) Income=2.
If (v353MM eq 9 and studyno eq 4800) Income=3.
If (v353MM eq 10 and studyno eq 4800) Income=4.
If (v353MM eq 11 and studyno eq 4800) Income=4.
If (v353MM eq 12 and studyno eq 4800) Income=4.
If (v353MM eq -1 and studyno eq 4800) Income=5.
If (v353MM eq -2 and studyno eq 4800) Income=5.
If (v353MM eq -3 and studyno eq 4800) Income=5.
If (v353MM eq -4 and studyno eq 4800) Income=5.
If (v353MM eq -5 and studyno eq 4800) Income=5.

Value labels Income 1 '<1500' 2 '1500-2500' 3 '2500-5000' 4 '5000<' 5 'not reported'.

DESCRIPTIVES VARIABLES==Income

/STATISTICS=MEAN STDDEV MIN MAX.

recode Income (1=1) (3,2,4,5=0) into Income_1500.

exe.

recode Income (2=1) (1,3,4,5=0) into Income_2500.

exe.

recode Income (3=1) (1,2,4,5=0) into Income_5000.

exe.

recode Income (4=1) (1,2,3,5=0) into Income_5000more.

exe.

recode Income (5=1) (1,3,2,4=0) into Income_non_report.

exe.

use high income as reference

DESCRIPTIVES VARIABLES= Anti_Islam_scale Anti_Religiosity Secular_Country Muslim_country
Income_1500 Income_5000more

secular2 Prot_Religiosity age v302 v336 Income_2500 Income_5000 Income_non_report
Orthodox_beliefs2 MIPEX_pol

/save

/STATISTICS=MEAN STDDEV MIN MAX.

Multilevel anti-religiosity

MIXED ZAnti_Religiosity by Zv302 WITH Zage Zv336 ZSecular_Country ZIncome_non_report
ZIncome_1500 ZIncome_2500 ZIncome_5000

Zsecular2 ZMuslim_country ZOrthodox_beliefs2 ZProt_Religiosity ZMIPEX_pol

/CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0,
ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)

/FIXED=| SSTYPE(3)

/METHOD=REML

/PRINT=SOLUTION

/RANDOM=INTERCEPT | SUBJECT(country) COVTYPE(VC).

MIXED ZAnti_Religiosity by Zv302 WITH Zage Zv336 ZSecular_Country ZIncome_non_report
ZIncome_1500 ZIncome_2500 ZIncome_5000

Zsecular2 ZMuslim_country ZOrthodox_beliefs2 ZProt_Religiosity ZMIPEX_pol

/CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0,
ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)

/FIXED= Zage Zv336 Zv302 ZSecular_Country ZMuslim_country ZMIPEX_pol ZIncome_non_report
ZIncome_1500 ZIncome_2500 ZIncome_5000

Zsecular2 ZOrthodox_beliefs2 ZProt_Religiosity | SSTYPE(3)

/METHOD=REML

/PRINT=SOLUTION

/RANDOM=INTERCEPT | SUBJECT(country) COVTYPE(VC).

MIXED ZAnti_Religiosity by Zv302 WITH Zage Zv336 ZSecular_Country ZMuslim_country
ZIncome_non_report ZIncome_1500 ZIncome_2500 ZIncome_5000

Zsecular2 ZOrthodox_beliefs2 ZProt_Religiosity ZMIPEX_pol

/CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0,
ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)

/FIXED= Zage Zv336 Zv302 ZSecular_Country ZMuslim_country ZIncome_non_report ZIncome_1500
ZIncome_2500 ZIncome_5000 ZMIPEX_pol

Zsecular2 ZOrthodox_beliefs2 ZProt_Religiosity | SSTYPE(3)

/METHOD=REML

/PRINT=SOLUTION

/RANDOM=INTERCEPT Zsecular2 | SUBJECT(country) COVTYPE(VC).

MIXED ZAnti_Religiosity by Zv302 WITH Zage Zv336 ZSecular_Country ZIncome_non_report
ZIncome_1500 ZIncome_2500 ZIncome_5000 ZMIPEX_pol

Zsecular2 ZMuslim_country ZOrthodox_beliefs2 ZProt_Religiosity

```

/CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0,
ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)

/FIXED= Zage Zv336 Zv302 ZSecular_Country ZOrthodox_beliefs2 Zsecular2 ZMIPEX_pol
ZMuslim_country ZIncome_non_report ZIncome_1500 ZIncome_2500 ZIncome_5000

Zsecular2*ZSecular_Country ZProt_Religiosity | SSTYPE(3)

/METHOD=REML

/PRINT=SOLUTION

/RANDOM=INTERCEPT Zsecular2 | SUBJECT(country) COVTYPE(VC).

```

multi level anti-Muslim sentiment

```

MIXED ZAnti_Islam_scale by Zv302 WITH Zage Zv336 ZSecular_Country ZIncome_non_report
ZIncome_1500 ZIncome_2500 ZIncome_5000

```

```

Zsecular2 ZProt_Religiosity ZOrthodox_beliefs2 ZMIPEX_pol

/CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0,
ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)

/FIXED=| SSTYPE(3)

/METHOD=REML

/PRINT=SOLUTION

/RANDOM=INTERCEPT | SUBJECT(country) COVTYPE(VC).

```

```

MIXED ZAnti_Islam_scale by Zv302 WITH Zage Zv336 ZSecular_Country ZIncome_non_report
ZIncome_1500 ZIncome_2500 ZIncome_5000

```

```

Zsecular2 ZOrthodox_beliefs2 ZProt_Religiosity ZMuslim_country ZMIPEX_pol

/CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0,
ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)

```



```
/FIXED= Zage Zv336 Zv302 ZSecular_Country ZMuslim_country ZMIPEX_pol ZIncome_non_report  
ZIncome_1500 ZIncome_2500 ZIncome_5000
```

```
ZProt_Religiosity Zsecular2 ZOrthodox_beliefs2 | SSTYPE(3)
```

```
/METHOD=REML
```

```
/PRINT=SOLUTION
```

```
/RANDOM=INTERCEPT | SUBJECT(country) COVTYPE(VC).
```

```
MIXED ZAnti_Islam_scale by Zv302 WITH Zage Zv336 ZSecular_Country ZMuslim_country  
ZIncome_non_report ZIncome_1500 ZIncome_2500 ZIncome_5000
```

```
Zsecular2 ZOrthodox_beliefs2 ZProt_Religiosity ZMIPEX_pol
```

```
/CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0,  
ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)
```

```
/FIXED= Zage Zv336 Zv302 ZSecular_Country ZMIPEX_pol ZMuslim_country ZIncome_non_report  
ZIncome_1500 ZIncome_2500 ZIncome_5000
```

```
ZProt_Religiosity Zsecular2 ZOrthodox_beliefs2 | SSTYPE(3)
```

```
/METHOD=REML
```

```
/PRINT=SOLUTION
```

```
/RANDOM=INTERCEPT Zsecular2 | SUBJECT(country) COVTYPE(VC).
```

```
MIXED ZAnti_Islam_scale by Zv302 WITH Zage Zv336 ZSecular_Country ZIncome_non_report  
ZIncome_1500 ZIncome_2500 ZIncome_5000
```

```
Zsecular2 ZOrthodox_beliefs2 ZProt_Religiosity ZMuslim_country ZMIPEX_pol
```

```
/CRITERIA=CIN(95) MXITER(100) MXSTEP(10) SCORING(1) SINGULAR(0.000000000001) HCONVERGE(0,  
ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)
```

```
/FIXED= Zage Zv336 Zv302 ZSecular_Country ZMIPEX_pol Zsecular2 ZOrthodox_beliefs2  
ZMuslim_country ZIncome_non_report ZIncome_1500 ZIncome_2500 ZIncome_5000
```

```
ZProt_Religiosity Zsecular2*ZSecular_Country | SSTYPE(3)
```

```
/METHOD=REML
```

```
/PRINT=SOLUTION
```

```
/RANDOM=INTERCEPT Zsecular2 | SUBJECT(country) COVTYPE(VC).
```