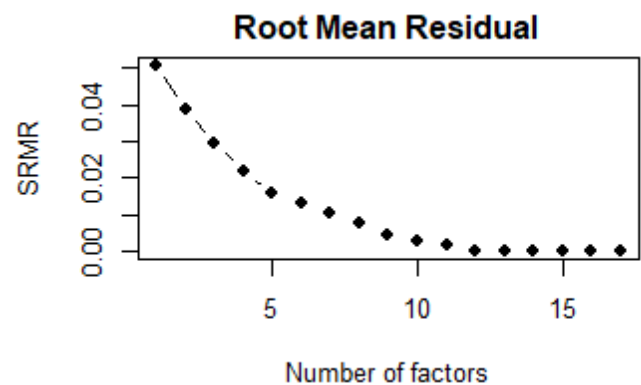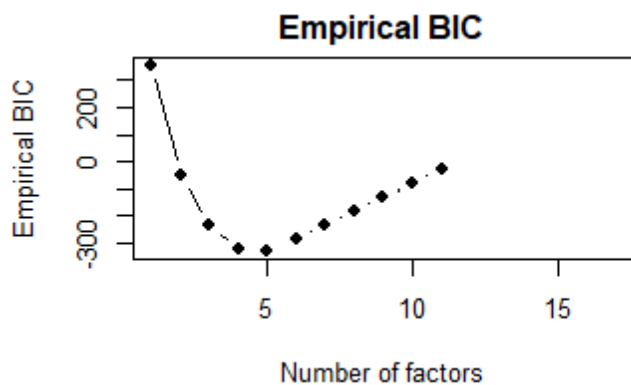# Appendix A -

I - I.1 – Diagnosis of the 1991 Wave

Scree plot

Below are additional tests specifically related to Factorial Analysis:
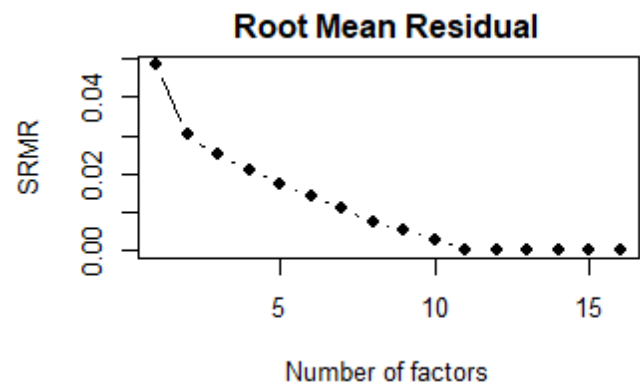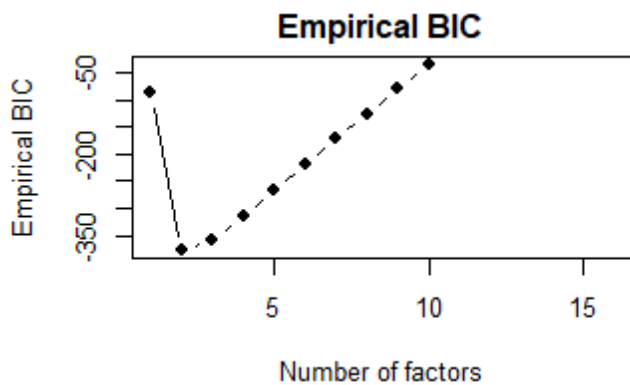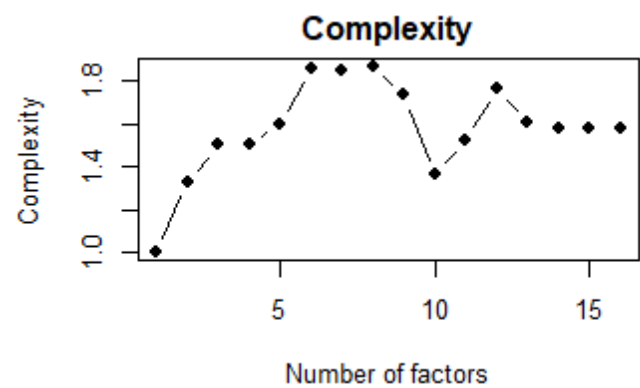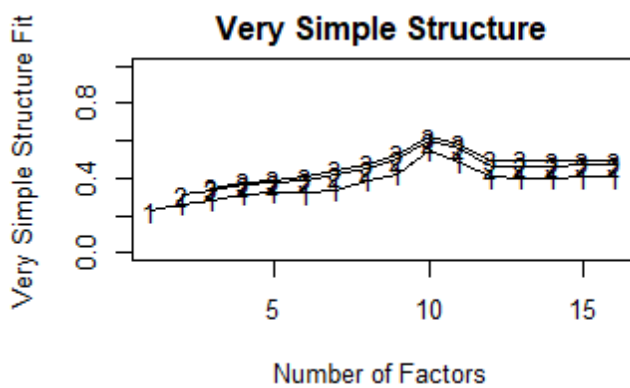
Scree plot

Below are additional tests specifically related to Factorial Analysis:

Scree plot

Below are additional tests specifically related to Factorial Analysis:

Very Simple Structure

Complexity

Empirical BIC

Root Mean Residual

Scree plot

Below are additional tests specifically related to Factorial Analysis:

Scree plot

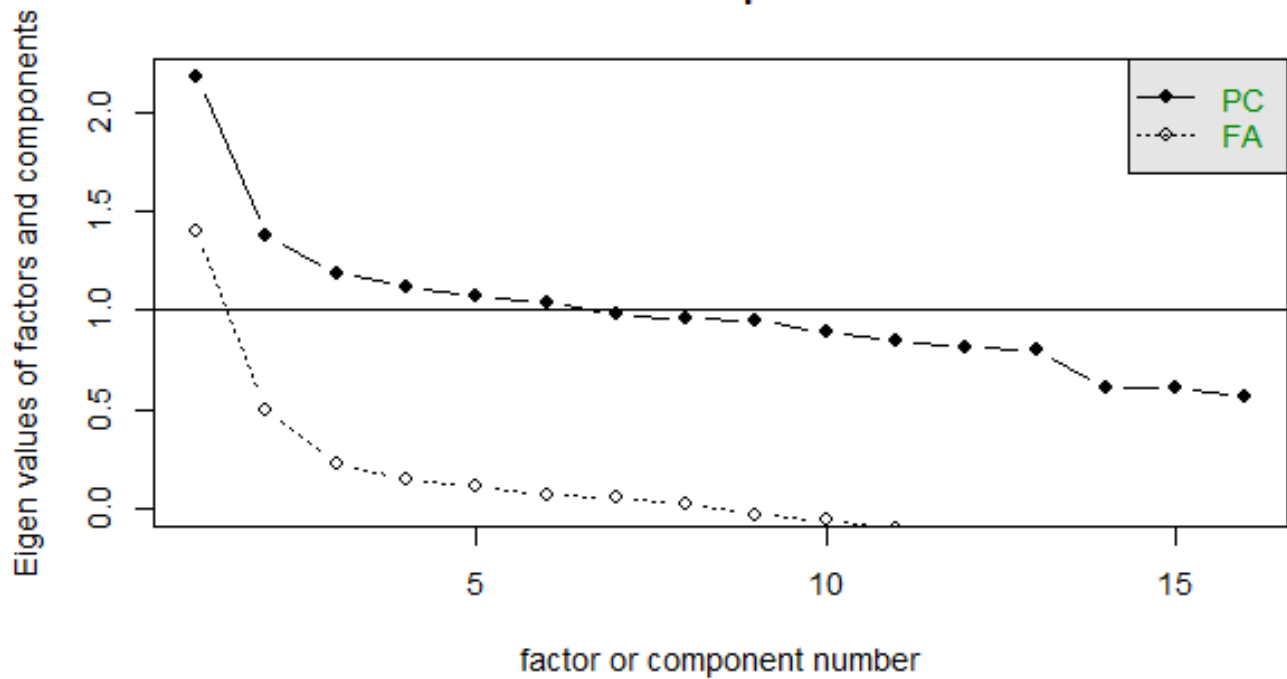Eigen values of factors and components — factor or component number

Legend: PC, FA

Below are additional tests specifically related to Factorial Analysis:

Very Simple Structure

Very Simple Structure Fit — Number of Factors

Complexity

Complexity — Number of factors

Empirical BIC

Empirical BIC — Number of factors

Root Mean Residual
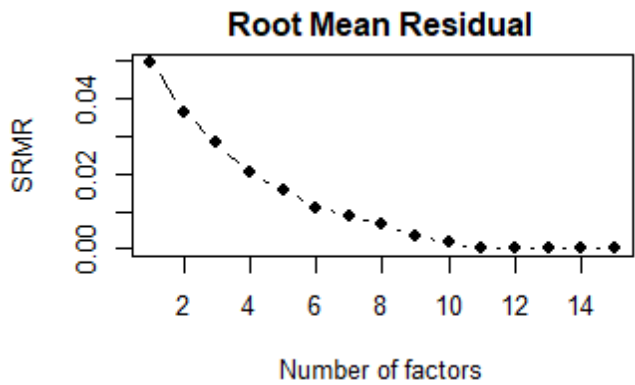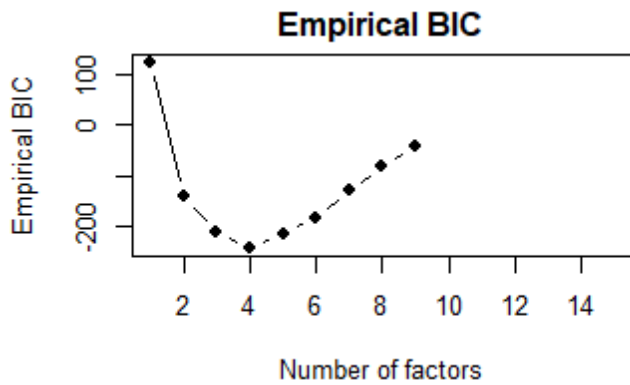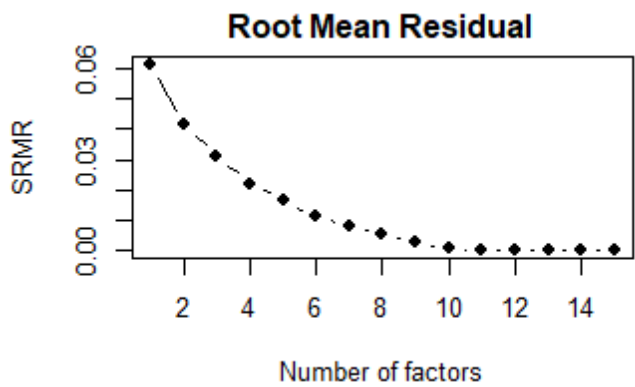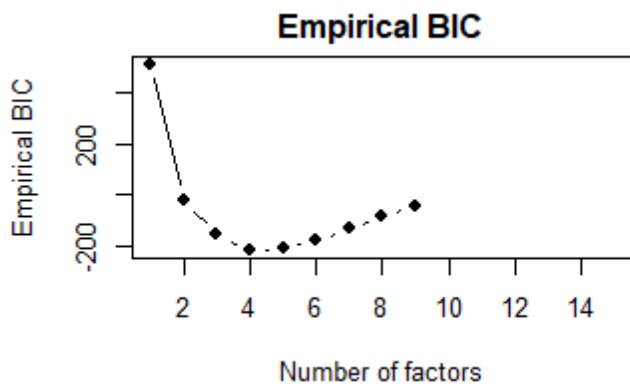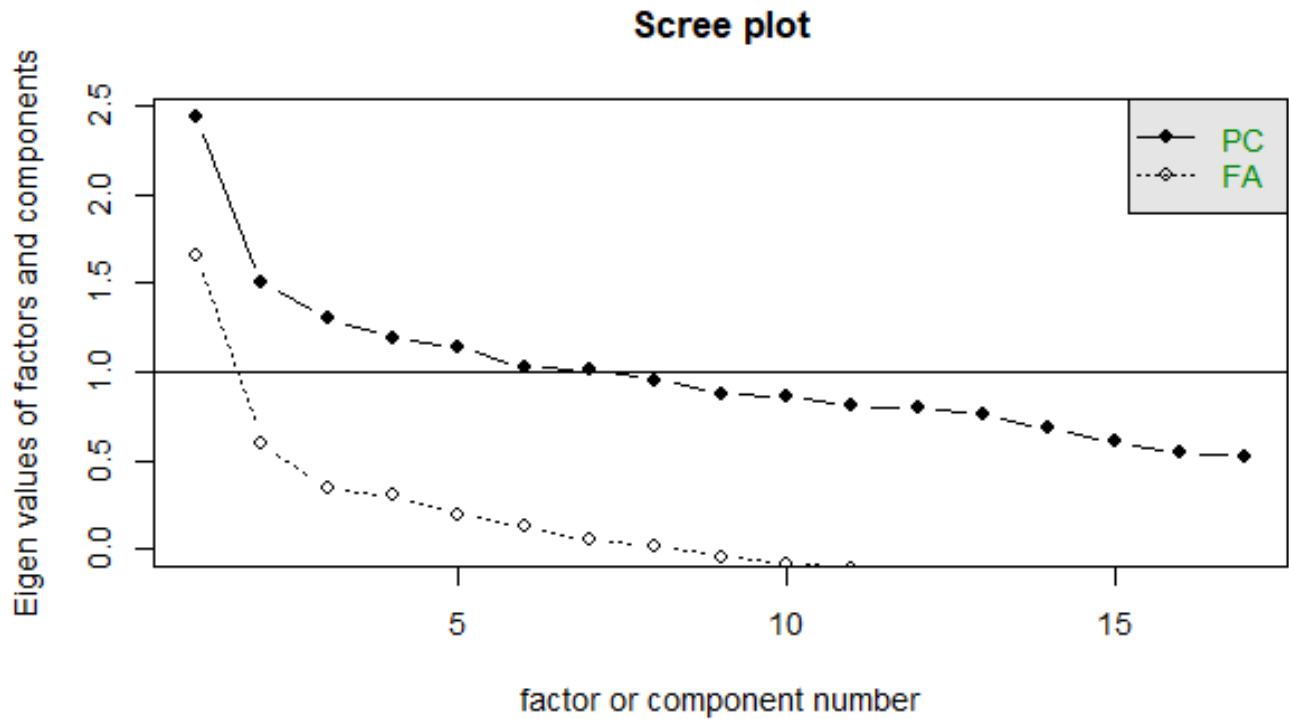
SRMR — Number of factors
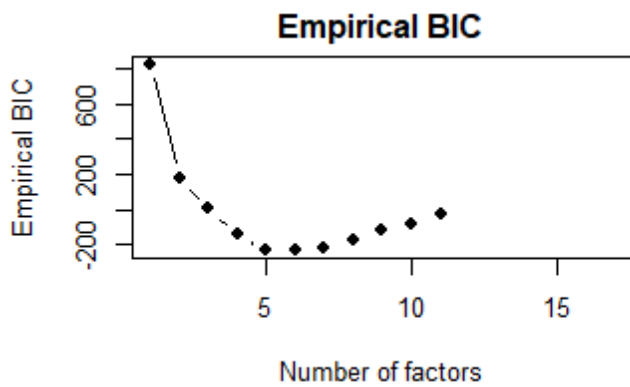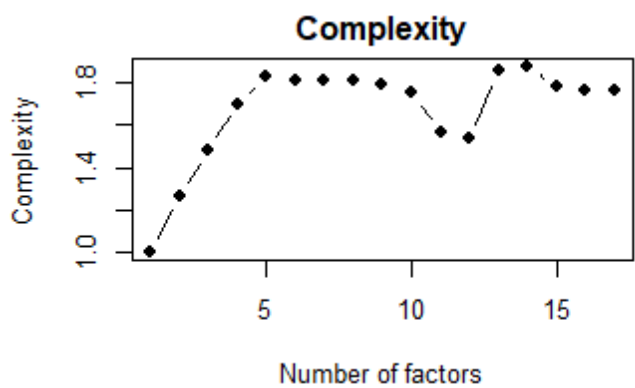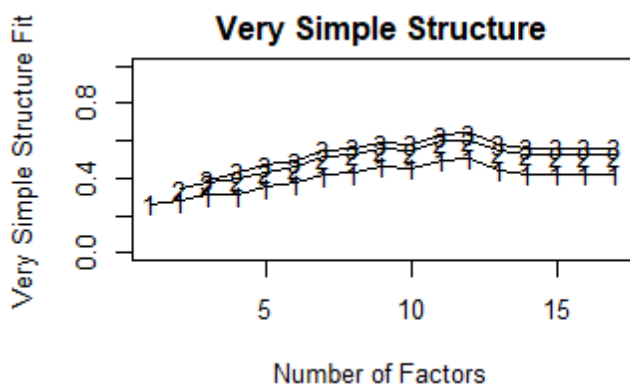
II

Factorial analysis with 2 and 3 factors.

1991

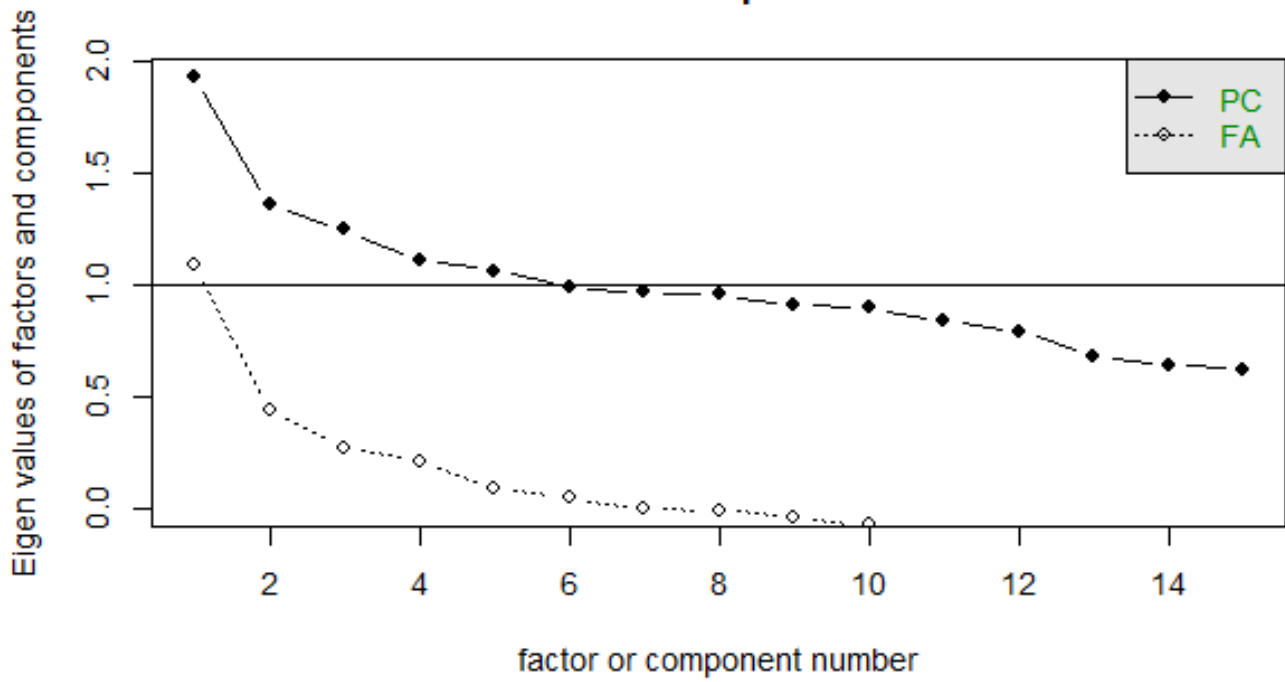|	MR1	MR3	MR2
B006	0.179	-0.202	0.275
C001	0.011	-0.144	0.129
C002	-0.003	-0.053	0.067
E018	0.260	-0.199	0.150
E034	0.244	-0.129	0.093
E035	-0.002	0.122	0.024
E036	0.076	0.042	0.546
E039	-0.045	0.012	0.451
F028	0.401	-0.187	0.070
F034	0.528	0.073	-0.021
F063	0.542	0.040	-0.036
F116	-0.204	0.056	0.034
F118	-0.168	0.496	-0.044
F120	-0.340	0.450	-0.122
F121	-0.194	0.570	-0.151
F141	-0.382	0.225	-0.094
G006	0.333	-0.104	0.036

	MR1	MR3	MR2
SS loadings	1.381	1.018	0.688
Proportion Var	0.081	0.060	0.040

	MR1	MR2
B006	0.174	-0.324
C001	0.010	-0.205
C002	-0.006	-0.091
E018	0.261	-0.250
E034	0.243	-0.158
E035	-0.017	0.090
E036	0.044	-0.217
E039	-0.057	-0.209
F028	0.416	-0.169
F034	0.519	0.110
F063	0.542	0.095
F116	-0.212	0.014
F118	-0.227	0.400
F120	-0.383	0.416
F121	-0.254	0.522
F141	-0.392	0.229
G006	0.333	-0.098

	MR1	MR2
SS loadings	1.471	1.059
Proportion Var	0.087	0.062

1997

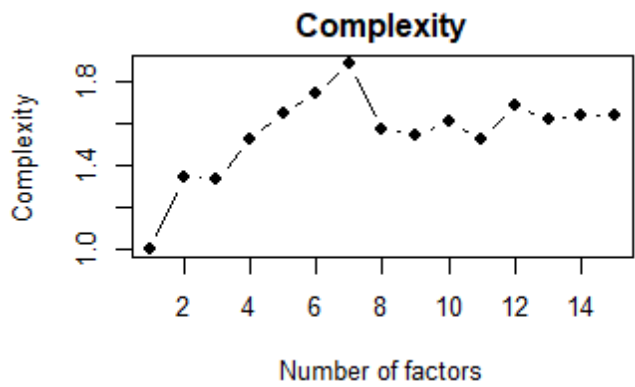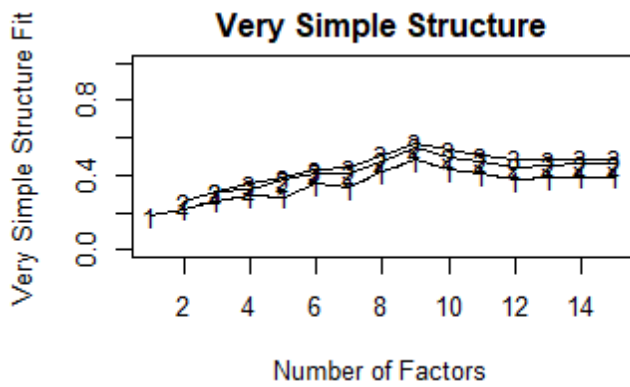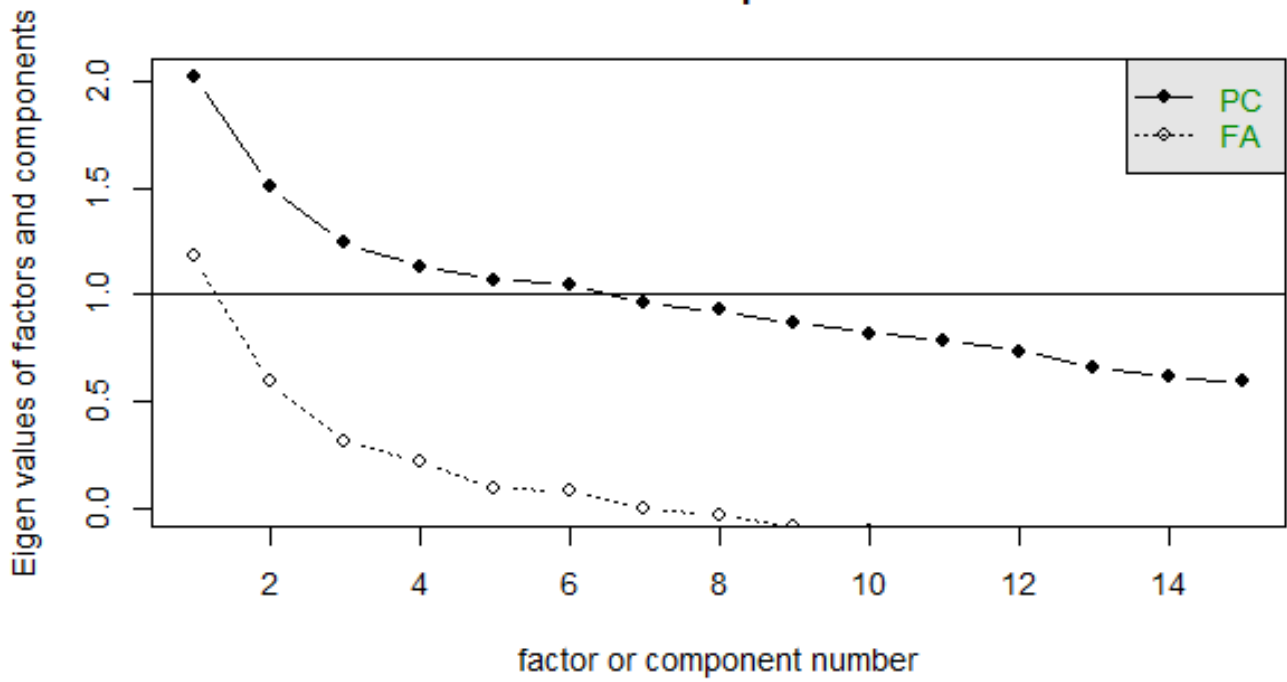|	MR1	MR2	MR3
B008	0.019	0.143	-0.029
C001	-0.057	0.083	0.571
C002	-0.028	-0.013	0.153
E018	0.178	-0.135	-0.115
E034	0.047	0.017	-0.159
E035		0.066	-0.042
E036	0.026	-0.064	-0.098
E039	-0.019	-0.094	-0.096
F028	0.426	-0.057	-0.046
F034	0.800	0.222	-0.027
F063	0.376	-0.085	-0.040
F116	-0.095	0.030	-0.142
F118	-0.160	0.529	0.162
F120	-0.323	0.543	0.033
F121	-0.213	0.553	0.172
G006	0.156	-0.086	-0.007

	MR1	MR2	MR3
SS loadings	1.210	1.012	0.491
Proportion Var	0.076	0.063	0.031

	MR1	MR2
B008	0.023	0.128
C001	-0.100	0.208
C002	-0.041	0.034
E018	0.185	-0.164
E034	0.061	-0.034
E035	0.005	0.049
E036	0.033	-0.093
E039	-0.011	-0.118
F028	0.428	-0.064
F034	0.801	0.213
F063	0.377	-0.088
F116	-0.080	-0.016
F118	-0.167	0.559
F120	-0.311	0.505
F121	-0.220	0.586
G006	0.155	-0.084

	MR1	MR2
SS loadings	1.222	1.089
Proportion Var	0.076	0.068

2006

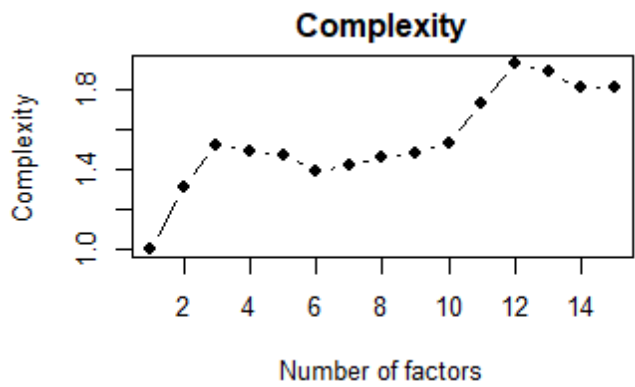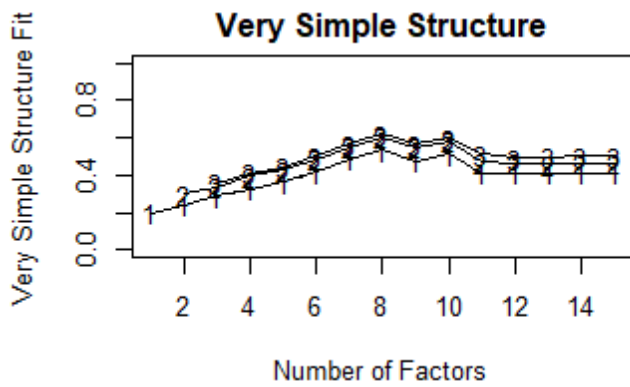|	MR1	MR2	MR3
B008	0.002	-0.042	0.112
C001	-0.075	-0.249	0.076
C002	-0.053	-0.067	0.018
E018	0.179	-0.082	0.082
E035	-0.006	0.019	0.200
E036	0.096	-0.016	0.479
E039	0.015	-0.088	0.247
F028	0.390	-0.128	-0.014
F034	0.633	0.078	-0.026
F063	0.419	-0.029	0.016
F116	-0.101	0.022	0.256
F118	-0.141	0.631	
F120	-0.289	0.340	-0.007
F121	-0.213	0.434	-0.020
G006	0.147	0.009	-0.026

	MR1	MR2	MR3
SS loadings	0.959	0.810	0.423
Proportion Var	0.064	0.054	0.028

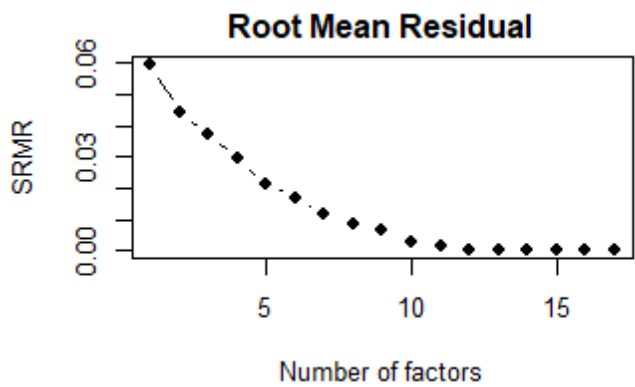|	MR1	MR2
B008	-0.008	-0.061
C001	-0.095	-0.255
C002	-0.059	-0.067
E018	0.166	-0.108
E035	-0.019	-0.014
E036	0.053	-0.085
E039	-0.005	-0.122
F028	0.381	-0.154
F034	0.642	0.039
F063	0.413	-0.062
F116	-0.108	-0.010
F118	-0.106	0.611
F120	-0.265	0.360
F121	-0.184	0.453
G006	0.147	0.002

	MR1	MR2
SS loadings	0.921	0.844
Proportion Var	0.061	0.056

2014

	MR1	MR2	MR3
B008	-0.109	-0.008	0.081
C001	-0.160	-0.159	0.430
C002	-0.031	-0.087	0.297
E018	0.261	-0.067	-0.046
E035	-0.008	-0.044	0.027
E036	0.043	0.010	0.118
E039	-0.060	0.017	0.171
F028	0.441	-0.169	0.228
F034	0.571	0.003	0.180
F063	0.490	-0.058	-0.212
F116	-0.187	0.154	0.180
F118	-0.065	0.596	-0.041
F120	-0.286	0.407	0.090
F121	-0.039	0.597	-0.036
G006	0.194	0.020	-0.087

	MR1	MR2	MR3
SS loadings	1.033	0.973	0.506
Proportion Var	0.069	0.065	0.034

	MR1	MR2
B008	-0.129	-0.025
C001	-0.241	-0.232
C002	-0.100	-0.155
E018	0.280	-0.063
E035	-0.008	-0.047
E036	0.010	-0.027
E039	-0.109	-0.031
F028	0.316	-0.248
F034	0.412	-0.096
F063	0.577	-0.012
F116	-0.243	0.101
F118	-0.064	0.588
F120	-0.327	0.375
F121	-0.039	0.581
G006	0.219	0.035

	MR1	MR2
SS loadings	0.998	0.991
Proportion Var	0.067	0.066

2018

	MR1	MR2	MR3
B008	-0.086	-0.074	0.132
C001	-0.084	-0.099	0.422
C002	0.009	0.013	0.250
E018	0.250	0.004	-0.023
E034	0.118	-0.034	
E035	0.098	0.004	0.174
E036	0.025	-0.006	0.180
E039	-0.039	-0.021	0.227
F028	0.407	-0.204	0.093
F034	0.593	-0.048	0.031
F063	0.637	-0.046	-0.105
F116	-0.192	0.163	0.243
F118	-0.193	0.493	-0.189
F120	-0.448	0.323	0.010
F121	-0.067	0.792	-0.046
F144_02	-0.136	0.199	0.184
G006	0.283	-0.035	-0.046

	MR1	MR2	MR3
SS loadings	1.404	1.105	0.526
Proportion Var	0.083	0.065	0.031

	MR1	MR2
B008	-0.062	-0.161
C001	-0.073	-0.289
C002	-0.022	-0.104
E018	0.228	0.099
E034	0.122	0.012
E035	0.067	-0.058
E036	0.005	-0.089
E039	-0.051	-0.138
F028	0.439	-0.083
F034	0.537	0.123
F063	0.609	0.216
F116	-0.262	-0.044
F118	-0.370	0.496
F120	-0.547	0.130
F121	-0.356	0.527
F144_02	-0.222	0.025
G006	0.278	0.084

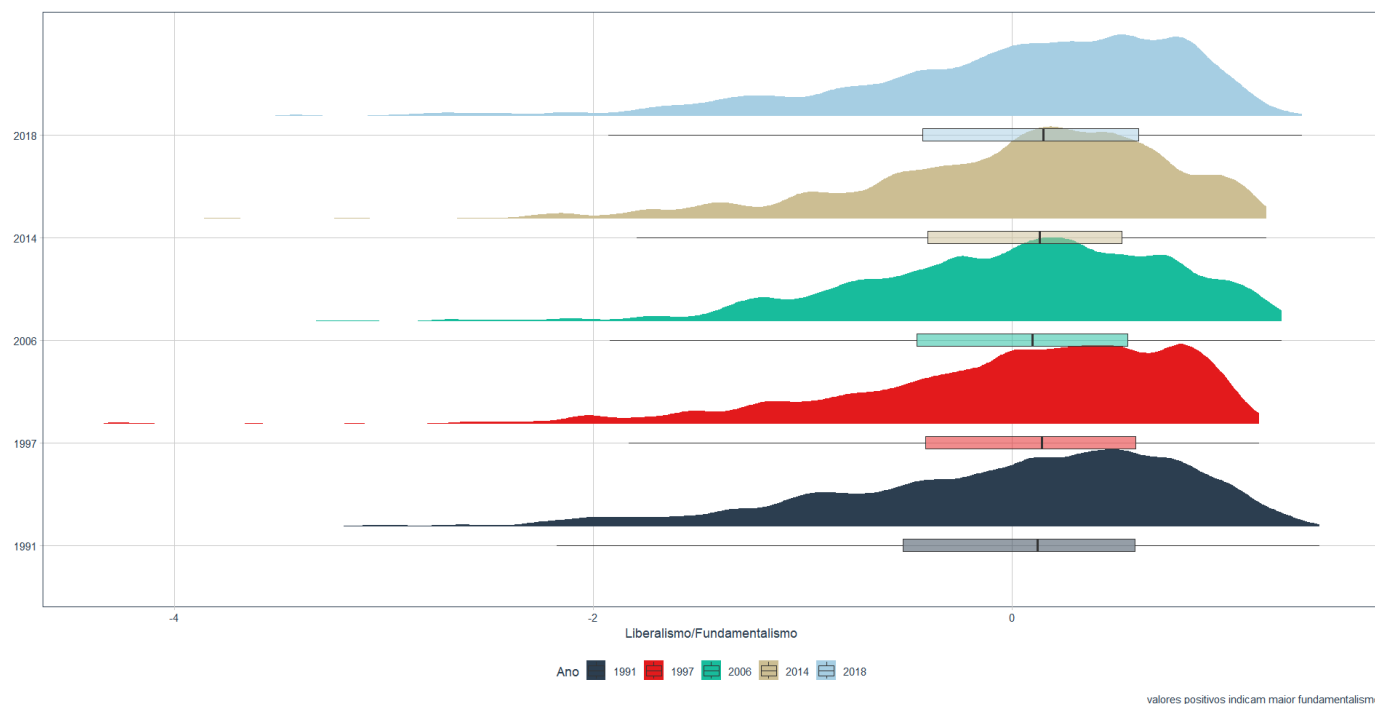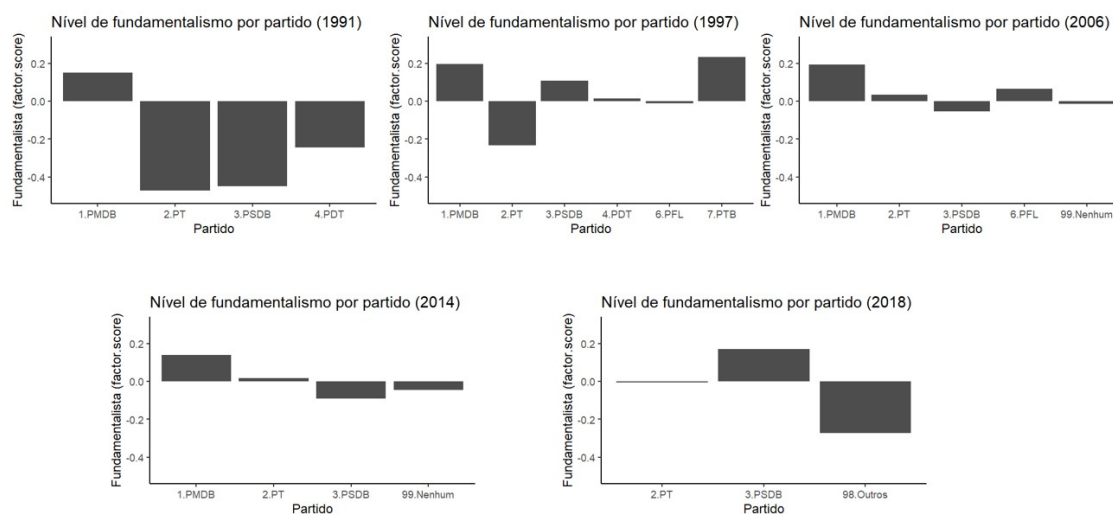|	MR1	MR2
SS loadings	1.693	0.780
Proportion Var	0.100	0.046

III

Figure III.1 – Histograms of Fundamentalism in Brazil

Source: WVS.

IV

Below is a simple means comparison of fundamentalist/liberal scores for adherents of certain parties."
"Figure III.1 – Level of Fundamentalism by Party Affiliation

Source: WVS

V: Regression Models

Below, we present the tables of the regression model with all variables.

"Table V.1 – Regression Models (1991-2018 - with estimated values)

	1991	1997	2006	2014	2018
	MR1	**MR1**	**MR1**	**MR1**	**MR1**
Predictors	*Estimates*	*Estimates*	*Estimates*	*Estimates*	*Estimates*
(Intercept)	1.10 *** (0.16)	0.85 *** (0.18)	0.06 (0.16)	-0.06 (0.19)	0.05 (0.22)
Sex	0.06 (0.04)	-0.09 (0.05)	0.07 (0.04)	0.12 * (0.05)	0.12 * (0.06)
Age	0.00 * (0.00)	-0.00 (0.00)	0.00 * (0.00)	0.01 *** (0.00)	0.01 *** (0.00)
Education level (recoded)	-0.30 *** (0.04)	-0.11 * (0.05)	-0.14 *** (0.03)	-0.09 * (0.04)	-0.11 * (0.05)
Scale of incomes	-0.07 *** (0.01)	-0.07 *** (0.01)	0.00 (0.01)	0.01 (0.01)	-0.01 (0.01)
Settlement size	-0.06 *** (0.01)	-0.03 * (0.01)	-0.03 (0.01)	-0.03 (0.01)	0.01 (0.02)
Ethnic group	-0.05 (0.05)	0.14 * (0.06)	0.00 (0.04)	-0.04 (0.05)	-0.21 *** (0.06)
Post-Materialist index 12-item	-0.08 *** (0.02)	-0.09 *** (0.02)	-0.04 (0.02)	-0.08 *** (0.02)	-0.13 *** (0.03)
Interest in politics	-0.06 ** (0.02)	-0.05 (0.03)	-0.03 (0.02)	-0.02 (0.03)	-0.07 * (0.03)
PT: PT	-0.26 *** (0.07)	-0.20 ** (0.06)	0.07 (0.05)	-0.07 (0.07)	-0.08 (0.07)
Self positioning in political scale	0.03 *** (0.01)	0.03 ** (0.01)	0.04 *** (0.01)	0.02 * (0.01)	0.03 ** (0.01)
Observations	1253	878	1112	805	684
R^2 / R^2 adjusted	0.262 / 0.256	0.138 / 0.128	0.075 / 0.067	0.080 / 0.068	0.143 / 0.130

*p<0.05   **p<0.01   ***p<0.001

Table V.2 – Regression Models (1991-2018 – Standardized Betas)

	1991	1997	2006	2014	2018
(Intercept)	0.00 (0.16)	0.00 (0.18)	0.00 (0.16)	-0.00 (0.19)	0.00 (0.22)
Sex	0.03 (0.04)	-0.05 (0.05)	0.05 (0.04)	0.08 (0.05)	0.07 (0.06)
Age	0.06 (0.00)	-0.01 (0.00)	0.07 (0.00)	0.15 (0.00)	0.14 (0.00)
Education level (recoded)	-0.22 (0.04)	-0.09 (0.05)	-0.14 (0.03)	-0.09 (0.04)	-0.10 (0.05)
Scale of incomes	-0.16 (0.01)	-0.17 (0.01)	0.00 (0.01)	0.02 (0.01)	-0.03 (0.01)
Settlement size	-0.14 (0.01)	-0.07 (0.01)	-0.06 (0.01)	-0.07 (0.01)	0.02 (0.02)
Ethnic group	-0.02 (0.05)	0.08 (0.06)	0.00 (0.04)	-0.03 (0.05)	-0.13 (0.06)
Post-Materialist index 12-item	-0.11 (0.02)	-0.13 (0.02)	-0.05 (0.02)	-0.12 (0.02)	-0.18 (0.03)
Interest in politics	-0.08 (0.02)	-0.06 (0.03)	-0.04 (0.02)	-0.02 (0.03)	-0.09 (0.03)
PT: PT	-0.10 (0.07)	-0.11 (0.06)	0.05 (0.05)	-0.03 (0.07)	-0.04 (0.07)
Self positioning in political scale	0.10 (0.01)	0.09 (0.01)	0.13 (0.01)	0.07 (0.01)	0.12 (0.01)
Observations	1253	878	1112	805	684
R^2 / R^2 adjusted	0.262 / 0.256	0.138 / 0.128	0.075 / 0.067	0.080 / 0.068	0.143 / 0.130

VI

Below, we present the regression model that includes the religion variable.

Table VI.1 – Regression Models (Adding Religion Variable) (1991-2018 - with estimated values)

Predictors	1991 MR1 Estimates	1997 MR1 Estimates	2006 MR1 Estimates	2014 MR1 Estimates	2018 MR1 Estimates
(Intercept)	1.30 *** (0.16)	1.22 *** (0.18)	0.41 ** (0.15)	0.32 (0.19)	0.44 * (0.21)
Sex	0.03 (0.04)	-0.13 ** (0.05)	0.03 (0.04)	0.06 (0.05)	0.03 (0.06)
Age	0.00 * (0.00)	-0.00 (0.00)	0.00 * (0.00)	0.01 ** (0.00)	0.01 ** (0.00)
Education level (recoded)	-0.28 *** (0.04)	-0.12 ** (0.04)	-0.13 *** (0.03)	-0.12 ** (0.04)	-0.06 (0.04)
Scale of incomes	-0.07 *** (0.01)	-0.06 *** (0.01)	-0.01 (0.01)	0.02 (0.01)	-0.01 (0.01)
Settlement size	-0.06 *** (0.01)	-0.02 (0.01)	-0.03 * (0.01)	-0.03 (0.01)	0.01 (0.02)
Ethnic group	-0.06 (0.05)	0.10 (0.06)	-0.02 (0.04)	-0.05 (0.05)	-0.14 * (0.06)
Post-Materialist index 12-item	-0.08 *** (0.02)	-0.09 *** (0.02)	-0.02 (0.02)	-0.06 ** (0.02)	-0.12 *** (0.03)
Interest in politics	-0.06 ** (0.02)	-0.06 * (0.03)	-0.03 (0.02)	-0.02 (0.03)	-0.07 * (0.03)
PT: PT	-0.26 *** (0.06)	-0.15 ** (0.06)	0.08 (0.04)	-0.07 (0.07)	-0.05 (0.07)
Self positioning in political scale	0.03 *** (0.01)	0.02 ** (0.01)	0.03 ** (0.01)	0.02 (0.01)	0.03 ** (0.01)
Sem_Religiao	-0.70 *** (0.08)	-0.80 *** (0.09)	-0.74 *** (0.07)	-0.81 *** (0.08)	-0.77 *** (0.08)
Catolico	-0.15 ** (0.05)	-0.18 ** (0.07)	-0.22 *** (0.05)	-0.21 *** (0.06)	-0.16 * (0.06)
Observations	1253	878	1112	805	684
R^2 / R^2 adjusted	0.313 / 0.307	0.212 / 0.201	0.159 / 0.149	0.189 / 0.177	0.251 / 0.238

*$p<0.05$ **$p<0.01$ ***$p<0.001$

Source: WVS

Table VI.2 – Regression Models (Adding Religion Variable) (1991-2018 – Standardized Betas)

	1991	1997	2006	2014	2018
(Intercept)	0.00	0.00	0.00	0.00	0.00
	(0.16)	(0.18)	(0.15)	(0.19)	(0.21)
Sex	0.02	-0.08	0.02	0.04	0.02
	(0.04)	(0.05)	(0.04)	(0.05)	(0.06)
Age	0.06	-0.05	0.07	0.11	0.11
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Education level (recoded)	-0.21	-0.09	-0.13	-0.12	-0.05
	(0.04)	(0.04)	(0.03)	(0.04)	(0.04)
Scale of incomes	-0.17	-0.16	-0.02	0.05	-0.04
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
Settlement size	-0.12	-0.05	-0.06	-0.06	0.01
	(0.01)	(0.01)	(0.01)	(0.01)	(0.02)
Ethnic group	-0.03	0.05	-0.01	-0.03	-0.09
	(0.05)	(0.06)	(0.04)	(0.05)	(0.06)
Post-Materialist index 12-item	-0.10	-0.13	-0.03	-0.09	-0.17
	(0.02)	(0.02)	(0.02)	(0.02)	(0.03)
Interest in politics	-0.08	-0.08	-0.04	-0.02	-0.09
	(0.02)	(0.03)	(0.02)	(0.03)	(0.03)
PT: PT	-0.10	-0.08	0.05	-0.04	-0.03
	(0.06)	(0.06)	(0.04)	(0.07)	(0.07)
Self positioning in political scale	0.08	0.08	0.09	0.05	0.10
	(0.01)	(0.01)	(0.01)	(0.01)	(0.01)
Sem_Religiao	-0.27	-0.33	-0.33	-0.38	-0.38
	(0.08)	(0.09)	(0.07)	(0.08)	(0.08)
Catolico	-0.08	-0.10	-0.15	-0.14	-0.09
	(0.05)	(0.07)	(0.05)	(0.06)	(0.06)
Observations	1253	878	1112	805	684
R^2 / R^2 adjusted	0.313 / 0.307	0.212 / 0.201	0.159 / 0.149	0.189 / 0.177	0.251 / 0.238

Source: WVS

VII

Next, we present robustness tests. Initially, in Appendix A.VII, we will present the results of confirmatory factor analysis. In Appendix A.VIII, it will be the turn of the item response theory technique.

VARIABLES USED:
F120 ABORTION
E018 MORE RESPECT FOR AUTHORITIES
F063 IMPORTANCE OF GOD
G006 NATIONAL PRIDE
E034 PROGRESSIVE VS CONSERVATIVE
E035 INCOME EQUITY
E036 PRIVATE VS PUBLIC ENTERPRISES

1991
DEMOCRACY-AUTHORITARIANISM TEST (FUNDAMENTALIST-RELIGIOUS)
TEST 2 ECONOMY

```
Latent Variables:
                  Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
  teste =~
    F120            1.000                               1.015    0.431
    E018           -0.233    0.032   -7.200    0.000   -0.237   -0.408
    F063           -0.514    0.077   -6.695    0.000   -0.522   -0.334
    G006           -0.333    0.047   -7.092    0.000   -0.338   -0.386
    E034           -0.171    0.025   -6.731    0.000   -0.174   -0.338
  teste2 =~
    E035            1.000                               0.474    0.145
    E034            0.154    0.226    0.681    0.496    0.073    0.142
    E036            1.122    1.750    0.641    0.521    0.532    0.163
```

ADJUST

```
> fitmeasures(testeh1.1.1.1, c("chisq", "df", "pvalue", "cfi","tli", "rmsea","SRMR"))
 chisq     df pvalue    cfi    tli  rmsea   srmr
51.532 13.000  0.000  0.875  0.798  0.043  0.033
>
```


1997
DEMOCRACY-AUTHORITARIANISM TEST (FUNDAMENTALIST-RELIGIOUS)
TEST 2 ECONOMY

```
Latent Variables:
                  Estimate  Std.Err  z-value  P(>|z|)  Std.lv  Std.all
  teste =~
    F120            1.000                               0.968    0.442
    E018           -0.126    0.036   -3.489    0.000   -0.122   -0.236
    F063           -0.639    0.179   -3.572    0.000   -0.619   -0.430
    G006           -0.172    0.053   -3.234    0.001   -0.167   -0.206
    E034           -0.064    0.034   -1.845    0.065   -0.062   -0.098
  teste2 =~
    E035            1.000                               0.718    0.210
    E034            0.276    0.256    1.079    0.280    0.198    0.317
    E036            0.811    0.556    1.460    0.144    0.583    0.182
```

ADJUST

```
> fitmeasures(testeh1.1.1.2, c("chisq", "df", "pvalue", "cfi","tli", "rmsea","SRMR"))
 chisq     df pvalue    cfi    tli  rmsea   srmr
18.985 13.000  0.124  0.930  0.888  0.021  0.025
>
```


2006 DEMOCRACY-AUTHORITARIANISM TEST (FUNDAMENTALIST-RELIGIOUS)

TEST 2 ECONOMY:

```
Latent Variables:
                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
  teste =~
    F120             1.000                                0.891    0.377
    E018            -0.117      NA                       -0.104   -0.198
    F063            -0.727      NA                       -0.648   -0.511
    G006            -0.162      NA                       -0.144   -0.172
  teste2 =~
    E035             1.000                                0.998    0.321
    E036             1.190      NA                        1.188    0.393
```

ADJUST

```
> fitmeasures(testeh1.1.1.3, c("chisq", "df", "pvalue", "cfi","tli", "rmsea","SRMR"))
 chisq     df pvalue    cfi    tli  rmsea   srmr
19.790  9.000  0.019  0.908  0.846  0.029  0.028
>
```

2014 DEMOCRACY-AUTHORITARIANISM TEST (FUNDAMENTALIST-RELIGIOUS)

TEST 2 ECONOMY

```
Latent Variables:
                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
  teste =~
    F120             1.000                                0.955    0.391
    E018            -0.189      NA                       -0.181   -0.314
    F063            -0.852      NA                       -0.813   -0.564
    G006            -0.208      NA                       -0.198   -0.231
  teste2 =~
    E035             1.000                                0.865    0.253
    E036             0.931      NA                        0.805    0.240
```

Adjust

```
> fitmeasures(testeh1.1.1.4, c("chisq", "df", "pvalue", "cfi","tli", "rmsea","SRMR"))
 chisq     df pvalue    cfi    tli  rmsea   srmr
17.409  9.000  0.043  0.948  0.914  0.026  0.026
>
```

2018 DEMOCRACY-AUTHORITARIANISM TEST (FUNDAMENTALIST-RELIGIOUS)

TEST 2 ECONOMY

```
Latent Variables:
                   Estimate  Std.Err  z-value  P(>|z|)   Std.lv  Std.all
  teste =~
    F120             1.000                                1.448    0.572
    E018            -0.095    0.016   -5.824    0.000    -0.138   -0.238
    F063            -0.843    0.113   -7.448    0.000    -1.221   -0.588
    G006            -0.191    0.028   -6.825    0.000    -0.276   -0.296
    E034            -0.067    0.016   -4.298    0.000    -0.097   -0.165
  teste2 =~
    E035             1.000                                0.519    0.150
    E036             3.807   57.356    0.066    0.947     1.977    0.599
    E034            -0.013    0.050   -0.267    0.789    -0.007   -0.012
```

Adjust:

```
> fitmeasures(testeh1.1.1.5, c("chisq", "df", "pvalue", "cfi","tli", "rmsea","SRMR")
 chisq     df pvalue    cfi    tli  rmsea   srmr
47.228 13.000  0.000  0.898  0.835  0.043  0.035
>
```

The economic division, as seen in the exploratory analysis and item response theory, is still not found. This change is in line with Moreno's description (2019) of shifting from democracy-authoritarianism to fundamentalism-religious.

It's notable that in 1991, the first factor is related to variables E018, G006, and E034, which represent authoritarianism and conservatism. However, starting from 1997, even though the p-value is significant, the only variable with a factor loading > 0.4 alongside F120 (abortion) is F063 (importance of God).

The two-factor solution yields better adjustments in 4 waves, but it results in the subdivision of the fundamentalism factor (Moreno, 2019). Questions unrelated to the dimensions of fundamentalism as used in our study never factor on their own, creating separate factors.

As an additional robustness test, we conducted item response theory (IRT) analyses. The results indicate the same variable configurations grouping together as presented in the following sections. We applied the same models presented in this study using IRT scores and arrived at results consistent with our regressions. These findings will be provided in Appendix A.VIII.

VIII

We replicated the same tests from the exploratory factor analysis using Item Response Theory (IRT). 1991 with one factor and with two factors:

```
  1 factor

          F1       h2
B006   0.379  0.14347
C001          0.03040
C002          0.00494
E018   0.513  0.26291
E034   0.374  0.14002
E035          0.00505
E036          0.02891
E039          0.00212
F028   0.434  0.18864
F034   0.489  0.23923
F063   0.499  0.24870
F116          0.08237
F118  -0.567  0.32148
F120  -0.688  0.47393
F121  -0.579  0.33539
F141  -0.628  0.39414
G006   0.384  0.14769
```

```
Sample size after row-wise response data removal: 1533
        M2 df          p      RMSEA    RMSEA_5   RMSEA_95       SRMSR
stats 144.1979 32 3.330669e-16 0.04783966 0.04004265 0.05589938 0.05370156
        TLI       CFI
stats 0.8758739 0.9189381
```

```
  2 factors

          F1       F2       h2
B006          -0.374  0.1479
C001                   0.0424
C002                   0.0121
E018          -0.341  0.2496
E034                   0.1402
E035                   0.0139
E036                   0.0484
E039                   0.0648
F028   0.336          0.2221
F034   0.718          0.4901
F063   0.695          0.4851
F116  -0.311          0.1184
F118           0.657  0.4075
F120           0.655  0.5107
F121           0.707  0.4564
F141  -0.355   0.377  0.3907
G006   0.381          0.1971
```

```
Sample size after row-wise response data removal: 1533
        M2 df          p      RMSEA    RMSEA_5   RMSEA_95       SRMSR       TLI       CFI
stats 55.07405 16 3.457842e-06 0.03992591 0.02869058 0.05169567 0.04163977 0.9135437 0.9717694
```

1997 with one factor and with two factors:

```
  1 factor

          F1       h2
B008          0.005506
C001   0.316  0.100036
C002          0.014244
E018  -0.334  0.111626
E034          0.005184
E035          0.000295
E036          0.011236
E039          0.002921
F028  -0.318  0.101339
F034          0.074695
F063  -0.430  0.184673
F116          0.012969
F118   0.641  0.411163
F120   0.811  0.657461
F121   0.649  0.421163
G006          0.035255
```

```
> M2(TRI97,na.rm=T)
Sample size after row-wise response data removal: 1016
        M2 df          p      RMSEA    RMSEA_5   RMSEA_95       SRMSR
stats 96.26833 29 3.834257e-09 0.047805 0.03741297 0.05851954 0.05243338
                TLI       CFI
            0.822103 0.8853552
```

```
  2 factors

          F1       F2       h2
B008                   0.01955
C001   0.318          0.10287
C002                   0.01462
E018                   0.12102
E034                   0.00853
E035                   0.00296
E036                   0.01220
E039                   0.01216
F028           0.548  0.35016
F034           0.852  0.70180
F063           0.483  0.34176
F116                   0.02655
F118   0.725          0.49337
F120   0.761          0.63600
F121   0.669          0.44426
G006                   0.03713
```

```
> M2(TRI97.2,na.rm=T)
Sample size after row-wise response data removal: 1016
        M2 df          p      RMSEA    RMSEA_5   RMSEA_95       SRMSR       TLI       CFI
stats 24.47037 14 0.04017052 0.02714463 0.00573609 0.04459789 0.0358238 0.9426425 0.9821555
```

2006 with one factor:

```
            F1        h2
B008          3.03e-03
C001          2.07e-02
C002          8.46e-04
E018          6.75e-02
E035          3.44e-05
E036          8.25e-03
E039          3.69e-03
F028 -0.405 1.64e-01
F034 -0.529 2.79e-01
F063 -0.551 3.04e-01
F116          1.76e-02
F118  0.565 3.20e-01
F120  0.601 3.62e-01
F121  0.500 2.50e-01
G006          1.82e-02
```

```
            M2 df           p       RMSEA   RMSEA_5    RMSEA_95
stats 43.88017 14 6.188792e-05 0.0407704 0.02748049 0.05467846
```

```
           SRMSR        TLI       CFI
      0.05133424 0.8800984 0.9421165
```

In the 2006 wave, when run with 2 factors, it exceeded 500 iterations. Its use is not considered appropriate according to the literature (Liu and Chalmers, 2018). The two-factor solution yields better adjustments in some waves; however, it leads to the subdivision of the fundamentalism factor (Moreno, 2019). Questions unrelated to the dimensions of fundamentalism as used in our study never factor on their own, creating separate independent factors.

2014 wave with one factor and with two factors:

```
            F1        h2
B008          7.59e-03
C001          9.17e-06
C002          5.13e-03
E018 -0.370 1.37e-01
E035          5.76e-04
E036          1.28e-03
E039          8.71e-03
F028 -0.461 2.12e-01
F034 -0.482 2.33e-01
F063 -0.670 4.50e-01
F116  0.354 1.26e-01
F118  0.464 2.16e-01
F120  0.656 4.30e-01
F121  0.413 1.70e-01
G006          2.32e-02
```

```
> M2(TRI2014,na.rm=T)
Sample size after row-wise response data removal: 1158
            M2 df          p      RMSEA    RMSEA_5    RMSEA_95      SRMSR
stats 33.31748 14 0.002592201 0.03453381 0.01947255 0.04978161 0.05857229
```

```
            TLI       CFI
      0.9279469 0.9652157
```

```
            F1     F2        h2
B008              0.026574
C001 -0.318       0.141411
C002              0.027559
E018  0.360       0.148258
E035              0.004479
E036              0.000609
E039              0.029067
F028              0.188198
F034  0.510       0.275942
F063  0.846       0.695952
F116 -0.390       0.160852
F118        0.675 0.468329
F120 -0.455 0.380 0.438571
F121        0.699 0.472246
G006              0.065948
```

```
> M2(TRI2014.2,na.rm=T)
Sample size after row-wise response data removal: 1158
Error: M2() statistic cannot be calculated due to too few degrees of freedom
```

NOTE:

It was not possible to assess the fit measures for the 2014 wave with 2 factors, due to the reasons explained in the image presented above.

2018 wave with one factor and with two factors:

```
              F1        h2
B008            2.06e-03
C001            3.62e-04
C002            1.97e-04
E018            8.62e-02
E034            1.92e-02
E035            5.64e-03
E036            5.33e-05
E039            4.29e-03
F028    0.530 2.81e-01
F034    0.635 4.03e-01
F063    0.726 5.27e-01
F116   -0.340 1.16e-01
F118   -0.447 2.00e-01
F120   -0.692 4.78e-01
F121   -0.413 1.71e-01
F144_02         8.53e-02
G006            9.57e-02
```

```
Sample size after row-wise response data removal: 1065
            M2 df           p      RMSEA    RMSEA_5    RMSEA_95
stats 142.1932 34 3.441691e-15 0.0546877 0.04554049 0.06411507
```

```
       SRMSR       TLI       CFI
  0.06160205 0.8507012 0.9004675
```

```
Rotated factor loadings:

              F1     F2      h2
B008                 0.05464
C001                 0.09835
C002                 0.00528
E018    0.330        0.10446
E034                 0.01995
E035                 0.00654
E036                 0.01153
E039                 0.03936
F028    0.396        0.26581
F034    0.666        0.44887
F063    0.844        0.67934
F116   -0.349        0.12911
F118          0.673  0.47724
F120   -0.505 0.353  0.49604
F121          0.761  0.56197
F144_02              0.08239
G006    0.341        0.11685
```

```
Sample size after row-wise response data removal: 1065
            M2 df          p      RMSEA    RMSEA_5    RMSEA_95      SRMSR       TLI       CFI
stats 40.05319 18 0.00205273 0.0339335 0.01972156 0.04810991 0.04749185 0.9425177 0.9797121
```

It's evident how the results align in all aspects with our findings from the factor analysis scores. Below are the regression models with scores generated from the Item Response Theory. When compared to the models presented in the study, the data indicates the same direction:

Modelos de regressão com scores de TRI com um fator:

	1991	1997	2006	2014	2018
	mirt	**mirt**	**mirt**	**mirt**	**mirt**
Predictors	Estimates	Estimates	Estimates	Estimates	Estimates
(Intercept)	0.73 *** (0.13)	0.53 *** (0.15)	-0.08 (0.13)	-0.03 (0.15)	-0.23 (0.17)
SEX [FEM]	0.04 (0.04)	-0.11 * (0.05)	0.04 (0.04)	0.09 (0.05)	0.06 (0.05)
AGE	0.01 ** (0.00)	-0.00 (0.00)	0.01 *** (0.00)	0.01 *** (0.00)	0.01 *** (0.00)
Education Level [2]	-0.26 *** (0.05)	-0.10 (0.06)	-0.04 (0.05)	0.02 (0.06)	0.00 (0.06)
Education Level [3]	-0.58 *** (0.07)	-0.17 (0.10)	-0.40 *** (0.07)	-0.19 ** (0.07)	-0.30 *** (0.08)
Scale of Incomes	-0.06 *** (0.01)	-0.07 *** (0.01)	-0.01 (0.01)	0.00 (0.01)	-0.01 (0.01)
Settlement size	-0.06 *** (0.01)	-0.02 (0.01)	-0.01 (0.01)	-0.04 ** (0.01)	0.01 (0.02)
Etnic Group	-0.05 (0.05)	0.13 * (0.06)	0.03 (0.04)	-0.10 * (0.05)	-0.18 *** (0.05)
PostMaterialistIndex	-0.08 *** (0.02)	-0.08 *** (0.02)	-0.05 * (0.02)	-0.11 *** (0.02)	-0.08 *** (0.02)
Interest in Politics	-0.06 ** (0.02)	-0.05 * (0.03)	-0.04 (0.02)	0.00 (0.02)	-0.03 (0.03)
PT [PT]	-0.25 *** (0.06)	-0.17 ** (0.06)	0.01 (0.04)	-0.10 (0.06)	-0.05 (0.06)
Ideology	0.03 *** (0.01)	0.03 *** (0.01)	0.03 *** (0.01)	0.02 * (0.01)	0.03 ** (0.01)
Observations	1373	946	1260	932	900
R^2 / R^2 adjusted	0.259 / 0.253	0.127 / 0.116	0.093 / 0.085	0.116 / 0.106	0.134 / 0.123

*p<0.05 **p<0.01 ***p<0.001

IX – ETA Correlation

Following the concept presented in Dalton (2018, p.55, table 3.1), we present the ETA correlation as hypothesis tests for figures 1, 2, 3, and 4.

Table IX.1 ETA Correlation between fundamentalism factor scores and variables presented in figures 1, 2, 3, and 4.

Preditor	1991	1997	2006	2014	2018
Índice de Pós-Materialismo	0.07	0.05	0.01	0.03	0.07
Ter o PT como partido preferido	0.03	0.02	0.00	0.00	0.00

Ideologia recodificada em 3 categorias	0.05	0.02	0.02	0.01	0.01
Gênero	0.00	0.00	0.00	0.01	0.00