Weathering the Crisis:

Evidence of Diffuse Support for the EU from a Six-Wave Dutch Panel

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Introduction

In 2008, the European Union (EU) entered a severe economic recession. A serious crisis in the Eurozone followed less than two years later. These events put the European Union under great pressure. They even threatened to break up one of the major achievements of European integration – the common European currency. As the economic and monetary crisis unfolded, more and more voices questioning membership in the EU emerged across Europe. These voices were echoed by a growing popularity of Eurosceptic political parties (Duff, 2013; Usherwood et al., 2013). These developments have raised concerns about the resilience of the supranational political regime in Europe. Is the European Union resilient enough to weather a major economic crisis? Mass public political support is an important source of resilience for political regimes. One particular type of support – diffuse support – contributes to regime stability during difficult times such as economic crises (Easton, 1965; Norris, 2011). I therefore address the concerns about European Union's resilience to crises by investigating the following question: *How* 'diffuse' is support for the European Union?

The question about diffuse support for the European Union relates to a theoretical distinction between two types of political support: specific and diffuse. While *specific support* is a 'running-tally' type of attitude that fluctuates according to the political regime's performance, *diffuse support* is an affective attitude. Diffuse support persists even in times when citizens

become dissatisfied with the regime's policies (Easton, 1965; Harteveld et al., 2013; Norris, 1999).¹

The theoretical distinction between specific and diffuse support is important in assessing the resilience of political regimes (Dalton, 2004; Easton, 1965; Norris, 2011). If political support for a regime is largely specific, then an event such as an economic crisis threatens the very survival of the regime. As the economic crisis brings hardships, citizens express negative evaluations of the regime's performance and these, in turn, decrease political support. If, on the other hand, a regime enjoys diffuse support, it can use this stable reservoir of support to weather the crisis. A European Union that commands diffuse political support is therefore much more resilient to crises than a Union that depends on specific support.

Although the scholarly literature shows a growing consensus that support for the European Union has diffuse characteristics (Beaudonnet and Franklin, 2014; Hooghe and Marks, 2004; Serricchio et al., 2013; Torcal et al., 2012a), the empirical foundation for this consensus is rather limited. Virtually all evidence of diffuse support for the EU in the existing literature is based on cross-sectional comparative data. Diffuse support, however, is fundamentally a longitudinal phenomenon. It is defined as an individual's attachment to a political regime that persists through a crisis. The longitudinal dimension is therefore crucial in the study of diffuse support.

Even though the existing research devotes some attention to the over-time properties of support for the EU, it does so only at the aggregate level of analysis (Beaudonnet and Franklin, 2014; Serricchio et al., 2013). Aggregate-level studies, however, do not necessarily demonstrate the presence of diffuse support. Over-time stability at the aggregate level may mask instability at the individual level. We therefore need to demonstrate longitudinal stability at the individual

level in order to provide evidence of diffuse support for the EU. Due to the focus on cross-sectional data, however, the existing literature fails to provide such evidence. It is the goal of the present paper to fill this gap.

I use a six-wave panel survey from the Netherlands to study over-time stability of support for the EU during the 2008 economic crisis. I focus on political support for one of EU's institutions – the European Parliament. I find that although the economic crisis caused some variability in public support for the EU, levels of support at the individual level displayed a high level of stability throughout the period of the economic crisis. This level of stability even approached the level of stability in support for democracy, which is regarded as one of the most diffuse dimensions of political support (Dalton, 2004; Norris, 1999; Norris, 2011). Given that this high level of stability was observed during a major economic crisis, I argue that public support for the EU is highly diffuse. The results from my analysis suggest that in times of crisis, the European Union can draw on mass public support as a source of resilience.

Literature review, theory, and hypotheses

Before proceeding with a review of the literature on political support for the European Union, it is important to explain what is meant by political support. Most broadly, political support (or mass public support) is defined as individuals' favorable or unfavorable orientations towards an object that represents the political system. The objects of citizens' support include the community of the political nation, the principles and institutions of the political regime, and the officeholders who represent these institutions (Easton, 1965; Norris, 1999). This paper focuses on support for the political regime of the EU.² Political support is therefore defined as support for EU institutions.

Empirical studies of attitudes towards the European Union show that support for the EU takes both specific and diffuse forms. Some studies suggest that support for the EU has a specific component. Macroeconomic indicators such as the level of inflation or GDP influence support for the EU (Eichenberg and Dalton, 2007). At the individual level, support for the EU correlates with citizens' perception of personal benefits from EU integration (Gabel and Palmer, 1995; Mau, 2005; Torcal et al., 2012b) and with perceptions of the national economy (Hooghe and Marks, 2004; Klingeren et al., 2013). In addition, citizens whose occupations gain more from European integration express more support for the EU (Gabel, 1998; Hooghe and Marks, 2004).

Another branch of research suggests that support for the EU has a diffuse component as well. Multiple studies find that individuals' feelings of European identity are a good predictor of support for the EU (Torcal et al., 2012a; Hooghe and Marks, 2004; Serricchio et al., 2013). Since identity is an affective feeling (Sanders et al., 2012), this evidence suggests that support for the EU is at least partly diffuse.

This article takes a new approach to distinguishing between diffuse and specific support. While the existing literature either takes a cross-sectional view of political support (Gabel, 1998; Hooghe and Marks, 2004, for example) or an aggregate-level longitudinal view (Armingeon and Ceka, 2014; Beaudonnet and Franklin, 2014; Serricchio et al., 2013), this article explores longitudinal stability at the individual level.

There are distinct theoretical expectations regarding the level of over-time stability in each of the two types of political support. Specific support depends on current regime performance. Specific support therefore fluctuates in accordance with changes in evaluations of regime performance. Diffuse support, on the other hand, remains stable even if there is a drop in satisfaction with the regime's performance. These differences in over-time stability become

easier to observe during times such as an economic crisis. As citizens' satisfaction with the regime's performance goes down due to the crisis, researchers can observe whether political support is immune to a decrease in performance evaluations. If political support is diffuse, it remains stable over time; despite the difficulties the regime is experiencing.

The 2008 recession brought a substantial stress on the European Union, providing an opportunity to observe how stable public support for the EU is during a very difficult time. Over the first few years of the crisis, the EU experienced a considerable drop in its GDP. While in 2007 the EU enjoyed a GDP growth of about 2.7%, in 2008, when the economic crisis began, GDP growth dropped into negative figures. The state of the economy became even worse in 2009 when GDP contracted by 4.8%. Although 2009 was followed by few years of weak GDP growth, year 2012 brought negative figures as well.

A bleak situation in the EU economy, however, does not necessarily imply a drop in specific support. An economic crisis may be severe yet citizens may still evaluate the regime as performing well. Citizens may also assign responsibility for the economic situation to the national government, without assigning any responsibility to the EU. Another possibility is that citizens are uninformed about the economic situation and that the worsening of the economic situation does not affect their perceptions of European Union's performance. Although these are all valid possibilities, public opinion data show that the 2008 recession brought a significant drop in citizens' evaluations of the European Union. There was a decrease in the percentage of citizens who thought that their country had 'benefited from being a member of the European Union' (from 58% in 2007 to 50% in 2010). In addition, as the economic crisis progressed, fewer and fewer citizens believed that the EU is dealing effectively with the crisis (45% in 2010 and 34% in 2012). If we look beyond the economic domain and consider a comprehensive measure of

satisfaction with EU's performance, we find a significant drop as well. While in 2007 40% of Europeans thought that 'things are going in the right direction in the European Union', by 2012 the number dropped by almost one half (to 22%).³

These statistics show citizens' perceptions of the European Union's performance worsened considerably over the course of the 2008 recession. Such a drop in performance evaluations provides a great opportunity to learn about the nature of support for the EU. If public support for the EU is specific, this support will not be stable during the 2008 recession. If, on the other hand, citizens' support for the EU is diffuse, it will stay largely stable, despite the severe drop in performance evaluations. I expect support for the European Union to be diffuse.

I therefore hypothesize that support for the EU will be stable over the 2008 economic crisis.

In the following sections, I examine over-time stability of support for the EU. The next section introduces data and variables. Then, I explore over-time stability in political support using the following three analytical tools: an aggregate-level analysis, a 'Wiley and Wiley' model (Wiley and Wiley, 1970), and a dynamic panel data model. While the aggregate-level analysis provides a basic assessment of over-time stability, the 'Wiley and Wiley' model evaluates continuity in individual-level attitudes over time while controlling for possible unreliability in measurement. The dynamic panel data model then complements the analysis by exploring whether individuals have a long-term level of support that they return to, after reporting an unusually high or low level of support.

Data and variables

I use data from the Longitudinal Internet Studies for the Social Sciences (LISS) Panel which is an internet-based survey collected in the Netherlands. The LISS Panel is a

representative sample of Dutch individuals who participate in regular online surveys. The panel is based on a true probability sample of Dutch households (Scherpenzeel and Das, 2010).⁴ Every year between 2007 and 2012, the LISS Panel collected data on political attitudes, including attitudes towards the EU. Around 6000 individuals were interviewed in each wave of the panel. 2657 individuals completed all six panel waves (approximately 39 % percent of the original sample).

The LISS Panel is one of the rare resources that provide multi-wave, nationally representative panel data on attitudes towards the European Union. Importantly for this study, the LISS Panel allows researchers to explore stability of attitudes throughout the Great Recession, as it spans from 2007 to 2012. The LISS Panel is thus the only available source of data suitable for the present study.

Mass public political support for the European Union is the main concept of interest. I focus on one dimension of political support – support for regime institutions. This choice is influenced by data availability. Support for EU institutions is the only item on the LISS Panel that is suitable for this study. In the literature on political support, confidence in regime institutions is well established as a valid measure of regime support (Dalton, 2004; Easton, 1965; Norris, 1999; Torcal et al., 2012b). This study defines support for European Union institutions as confidence in the European Parliament. Variable confidence in the European Parliament ranges from 0 to 100, with higher values indicating greater support.

Aggregate political support

This section provides an aggregate-level analysis of stability in political support. First, I examine the trend in the mean of support for the European Parliament (Figure 1). Support for

the European Parliament appears fairly stable throughout the period of the LISS Panel. Even when the economic crisis arrived in 2008, support did not experience any major drop.

As Figure 1 shows, the mean ranges between 40 and 50. The trend suggests that political support for the EU is to a considerable degree resistant to a decrease in performance evaluations. While data from the Eurobarometer show that performance evaluations dropped by 10 to 50%, support for the EU dropped only by 8%.

Figure 1 further conveys important information about the quality of the LISS Panel data. The figure shows that the mean values for respondents who completed all six waves of the panel do not significantly differ from the mean values of respondents who participated only in some of the panel waves. This suggests that respondents who regularly participated in the panel do not differ from those who only participated in some of the waves.

[Figure 1 about here]

Looking at the over-time stability in mean values is not the only way to gauge stability at the macro level. An analysis of the percentage of respondents who in later waves of the panel report the same level of support as they did in the first wave provides another option (Prior, 2010). According to this measure, political support for the EU does not seem very stable (see Figure 2a). Only around 27% of respondents keep the same level of support throughout the six years of the panel study.

Analyzing how many respondents give the exact same answer may, however, be an overly strict measure of stability. The measure may be biased downward due to measurement error (Prior, 2010). In order to explore this possibility, I analyze the percentage of respondents

who since the first wave of the panel change their answer by 20 points or less (Figure 2b). When this measure is used, support appears significantly more stable. Between 80 and 90% of respondents keep their level of support within 20 points of their response in the first wave.

Figures 2a and 2b further show that the levels of over-time stability are comparable for respondents who participated in at least two waves of the panel and for respondents who participated in all six waves. The fact that these two groups of respondents display comparable levels of stability suggests that panel effects should not be a problem for the present analysis.

[Figures 2a and 2b about here]

When judging whether political support is diffuse or specific, researchers face a problem. The problem stems from the relative nature of diffuse support. Neither our theoretical view of political support nor the existing empirical research suggest that political support should be either fully diffuse or fully specific. Political support is a mix of diffuse and specific components and the 'diffusiveness' of political support is a matter of degree (Norris, 2011). Some dimensions of political support (such as support for democracy) are highly diffuse; other dimensions (such as support for incumbents) are more specific.

As the diffuse component of political support is characterized by stability over a time of crisis, the relative nature of diffuse support translates into a problem with interpretation of the empirical data on over-time stability. Can political support still be called diffuse if it drops by six percentage points over six years? How stable does the attitude have to be in order to be called 'diffuse'? It is difficult to judge the level of over-time stability in political support without any reference points. I use two dimensions of political support at the national level as such

reference points. Support for democracy provides a benchmark for a diffuse type of political support (Dalton, 2004; Norris, 2011). Democracy represents the abstract principles of the political regime. Support for these principles has been shown to be fairly resistant to fluctuations due to changes in regime performance (Dalton, 2004; Norris, 2011). The level of stability in support for democracy will therefore indicate the level of stability typical for a highly diffuse dimension of political support.

Support for the Dutch national government serves as a benchmark for a more specific type of political support. The national government is an institution that is closely connected to designing and implementing policies. This, in turn, makes support for the government more susceptible to shifts in performance evaluations. In addition, supporters of the opposition are usually less in favor of the policies of the incumbent government. This results in a shift in individuals' support for the government whenever there is a change in government. In 2010, right in the middle of the LISS Panel, a new governing coalition took over in the Netherlands. The LISS Panel therefore provides a good opportunity to observe the specific nature of support for the national government in the Netherlands (for details see the Online Appendix). The level of stability in support for the Dutch government will mark the level of stability typical for a more specific type of political support.

How does stability in support for the European Parliament compare to the over-time stability in benchmarks of diffuse and specific support? In the aggregate trend, support for the European Parliament displays slightly more over-time variation than support for democracy and less over-time variation than support for the Dutch government (see the online appendix). Comparing the percentage of respondents who in the later waves of the panel provided the same answer as in the first wave of the panel gives similar results. Support for the European

Parliament is more stable than support for the Dutch government and less stable than support for democracy (see the online appendix).

The measure focusing on the percentage of respondents whose level of support remains within 20 points from the level of support reported in the first wave provides an even clearer picture of how over-time stability in support for the European Parliament differs from stability typical for specific type of support. The benchmark of specific support (trust in the Dutch government) experiences much greater fluctuations than support for the European Parliament (see the online appendix). For example, between 2009 and 2010, the percentage of respondents who kept their level of support for the Dutch government close to their answer in the first wave dropped by 12 percentage points, while the highest drop in the case of support for the European Parliament is 4.4 percentage points.

In sum, diffuse support is the type of support that remains stable even in times such as an economic crisis. The aggregate-level analysis provides some evidence of diffuse support for the European Union. Despite the arrival of the financial crisis in fall 2008, the mean of political support remained relatively stable between 2007 and 2012. The level of stability was close to the level of stability typical for a highly diffuse type of support. The low percentage of respondents who kept the exact same level of support throughout the six years of the panel study, however, does not provide very persuasive evidence of diffuse support. Nevertheless, the fact that an overwhelming majority of respondents kept their level of support within 20 points from their original level of support suggests that small amounts of measurement error may cause the attitudes appear less stable than they really are. The next section addresses this problem and takes a look at over-time stability of political support while controlling for measurement error.

Individual-level analysis: Wiley and Wiley model

The Wiley and Wiley model is a type of structural equation model that allows us to study over-time stability in attitudes and control for measurement error (Wiley and Wiley, 1970).

In a Wiley and Wiley model, political support is viewed as a latent concept. A latent concept cannot be measured directly and it is therefore measured by observable indicators. In the present case, in each wave of the panel study the latent variable *confidence in the European Parliament* is measured by an observed indicator of confidence in the European Parliament. The Wiley and Wiley model then estimates how much error there is in the measurement of the latent concept as well as how stable the latent concept is over time.

The Wiley and Wiley model defines the observed variable x at time t as a function of the latent variable ξ_t and measurement error ε_t :

$$x_t = \lambda_t \, \xi_t + \varepsilon_t$$
 (where $t = 1, 2, 3, \dots T$) (1)

 λ_t is a parameter that represents the loadings of the latent variable on the observed indicator.

[Figure 4 about here]

Figure 4 illustrates the logic of the Wiley and Wiley model. The circles represent the latent variable ξ_t and the boxes represent the observed indicators x_t . Parameter λ_t is fixed to 1 because there is only one observed indicator for each latent variable. Except for the latent variable in the first panel wave (ξ_1) , all latent variables are a function of the preceding latent variable (ξ_{t-1}) and the random shock θ_t . Coefficients β_{21} through β_{65} show the strength of the relationship between the latent variables. If the coefficient $\beta_{t,t-1}$ is close to 1, respondents'

relative position in the distribution vis-a-vis other respondents is stable from one year to the next. In other words, if $\beta_{t,t-1}$ is close to 1, individual respondents maintain their relative position to the year-specific mean. The year-specific mean, however, can change. Stability of political support at the individual level is therefore present only if both over-time stability in the distribution *and* over-time stability in the mean are present. As Figure 1 shows, the mean level of confidence in the European Parliament is relatively stable over time. Therefore, if my analysis shows estimates of $\beta_{t,t-1}$ close to 1, it will indicate stability of political support at the individual level. Since diffuse support is characterized by over-time stability during a major crisis, evidence of over-time stability during the 2008 economic crisis would indicate that political support for the EU is diffuse.

By contrast, if $\beta_{t,t-1}$ is close to 0, it will suggest that from one year to the next individual respondents do not keep their relative position within the distribution of attitudes. In other words, $\beta_{t,t-1}$ close to 0 means that respondents do not maintain a stable relative position vis-a-vis the year-specific mean. In the case of support for the European Parliament, such result would imply that the stability observed at the aggregate level is not mirrored at the individual level. Since diffuse support is defined by over-time stability during crises, $\beta_{t,t-1}$ close to 0 would indicate a great deal of volatility in support, so much so that we would not be able to label such support as 'diffuse'.

Although in the study of attitude stability $\beta_{t,t-1}$ is most likely to fall into the 0 - 1 range, $\beta_{t,t-1}$ can potentially take on a full range of values. Values greater than 1 indicate that the distribution of attitudes is becoming more polarized (as a coefficient greater than one increases individuals' relative distance from the mean). Values close to negative 1 indicate that there is a high stability in the shape of the distribution but that individuals 'switch sides' within the

distribution (individuals keep the relative distance from the mean but they move to the opposite side of the mean). Therefore, out of the full range of values that $\beta_{t,t-1}$ can have, only a value close to 1 indicates individual-level stability in attitudes.

The results of the Wiley and Wiley model of confidence in the European Parliament are reported in the first column of Table 1.7 All $\beta_{t,t-1}$ coefficients for confidence in the European Parliament are very close to 1. In almost all cases, the confidence interval includes 1, suggesting a very high level of stability of the attitude distribution. The only instance when the distribution was less stable was between 2007 and 2008 (the estimated β equals .91). The financial crisis began between the 2007 and the 2008 wave of the panel survey and may therefore explain this lower level of stability. Although the stability in attitudes between 2007 and 2008 is somewhat lower than in the later waves of the panel, it is still fairly high. The Wiley and Wiley model therefore demonstrates that between 2007 and 2012 the distribution of attitudes towards the European Parliament was stable around the year-specific means. Together with the over-time stability in mean values, these results suggest that support for the European Parliament is largely diffuse.

[Table 1 about here]

How diffuse is the support for the European Parliament in comparison to the benchmarks of specific and diffuse support? Results reported in column 2 in Table 1 allow us to compare support for the European Parliament to the benchmark for a specific type of support (support for the Dutch government). The results show that during the 2008 economic crisis, support for the European Parliament was more stable than support for the Dutch government. For example, in its

least stable point, the distribution of support for the European Parliament replicates itself up to about 91% (β of .91). The distribution of support for the Dutch government in its least stable point replicates itself only up to 78% (β of .78). This means that our predictions of the respondents' position within the distribution of attitudes would be much more precise in the case of support for the European Parliament. In addition, support for the Dutch government has less over-time stability in its mean. A lower stability in the mean, combined with approximately 13 percentage points lower stability of the distribution implies that support for the Dutch government is significantly less stable at the individual level than support for the European Parliament.

As expected, our benchmark for diffuse support (support for democracy) shows a high level of over-time stability (column 3 in Table 1). The confidence intervals for its coefficients almost always include 1. Stability in support for the EU fares well in comparison to the benchmark of diffuse support. Support for the European Parliament is only slightly less stable than support for democracy.

Overall, the Wiley and Wiley model shows that individuals have a stable level of support for the European Parliament. This level of stability is clearly higher than the level of stability typical for a specific type of support. Indeed, over-time stability in support for the EU approaches the level of stability in one of the most diffuse dimensions of support - support for democracy. The results of the Wiley and Wiley model therefore suggest that support for the EU is more of the diffuse rather than of the specific type.

Although the Wiley and Wiley model provides useful insights into over-time stability, it only gives a specific view of stability: the stability of distribution in the short-run, from one year of the panel to the next. Another way to look at stability is to examine stability from a more long-

term point of view.⁸ Do individuals have a long-term level of political support? When individuals deviate from their long-term level of support, do they quickly return to this long-term level? The following section uses a dynamic panel data model to answer these questions about long-term stability of political support.

Individual-level analysis: Dynamics of political support

Dynamic panel data models are useful estimation tools for data with a large number of observations and a small number of time periods. These models focus on individual-level overtime changes. In particular, they model how rapidly momentary variations in an underlying disposition fade over time.

Dynamic panel data models are part of the family of lagged dependent variable models (Cameron and Triverdi, 2010). The basic set up for a lagged dependent variable model is

$$y_{it} = \gamma y_{i,t-1} + x'_{it}\beta + \alpha_i + \varepsilon_{it}$$
, $t = 2, 3, 4 ..., T$ (2)

where y_{it} is the dependent variable, $y_{i,t-1}$ is the lagged dependent variable, x_{it} are the other regressors, α_i is a fixed effect, and ε_{it} is the disturbance term. γ and β are regression coefficients.

The lagged dependent variable model is designed to address the problem of autocorrelation in the model's errors – a problem that often appears in analysis of panel data. The problem of autocorrelation in errors arises as observations are clustered within individuals (as we repeatedly measure each individual's attitudes over time). Since most conventional statistical models assume no autocorrelation in the error term, the presence of this autocorrelation threatens the consistency of the model's estimates (Roodman, 2009).

Although the simple lagged dependent variable regression described in equation (2) is often useful in panel data analysis, it is not appropriate for the type of panel data examined in this study - data with a large number of cases and low number of time periods. The simple lagged dependent variable model gives inconsistent estimates for this type of data because there is still correlation between the lagged dependent variable and the disturbance term (Cameron and Triverdi, 2010). A step towards getting around this problem is to estimate the model using first differences:

$$\Delta y_{it} = \gamma \Delta y_{i,t-1} + \Delta x_{it}' \beta + \Delta \varepsilon_{it}, \qquad t = 2, 3, 4 \dots, T$$
 (3)

Taking first differences, however, does not eliminate the unwanted correlation between lagged dependent variable $y_{i,t-1}$ and the error term ε_{it} completely. The consistency of the model is further improved by using the second lag of the dependent variable $(y_{i,t-2})$ as an instrument for $y_{i,t-1}$ (Anderson and Hsiao, 1981). This improved model then gives consistent estimates provided that the second lag of the dependent variable $(y_{i,t-2})$ is uncorrelated with the disturbance term (Roodman, 2009). In order to further improve the precision of the estimates, Arellano and Bond (1991) suggest using not just $y_{i,t-2}$ as an instrument for $y_{i,t-1}$ but all further lags as well $(y_{i,t-3}, y_{i,t-4}, \dots y_{i,t-T})$. This estimator is called the Arellano-Bond estimator and it is commonly used in panel data models (Prior, 2010; Roodman, 2009; Wawro, 2002). I use the Arellano-Bond estimator for my dynamic panel data analysis.

When using the Arellano-Bond estimator to assess over-time stability of attitudes, the coefficient for the lagged dependent variable (γ) is the coefficient of interest. The γ coefficient indicates how quickly momentary deviations from the individual's long-term level of political support dissipate over time. γ close to zero means that deviations from the long-term level of support do not persist into the following time period and that the individual's political support

immediately returns to its long-term value. In other words, if an individual reports an unusually high political support in one year, she will again report her long-term average value of political support in the subsequent year (Green et al., 2002; Prior, 2010). However, the further γ moves from zero towards one, the longer it takes for the respondent to return to her long-term mean value. If γ becomes one, any deviation from the long-term average persists into the future and the respondent does not return to her long-term mean at all. A γ coefficient close to one will therefore indicate that individuals do not have a stable long-term level of political support and that support for the EU is more specific, rather than diffuse. On the other hand, γ close to zero will mean that momentary disturbances do not have a lasting influence and that individual's support has a stable long-term value. Since diffuse support is defined as support that remains stable over a time of crisis, γ close to zero will indicate diffuse support.

I assess the over-time stability of political support for the EU by estimating a simple Arellano-Bond model. Only the lagged dependent variable and a set of dummy variables for the years of the panel survey are included as predictors (Prior, 2010; Roodman, 2009). The results of this estimation are reported in the first column of Table 2. The coefficient for the lagged dependent variable is very close to zero (0.035). This indicates that when individuals deviate from their own long-term level of political support, this deviation does not persist and individuals quickly return to their long-term average level of support. In other words, this result indicates that individuals have a long-term level of political support for the EU. Given that this stable long-term level of political support was observed during a major economic crisis, we can characterize support for the EU as diffuse.

[Table 2 about here]

How does the long-term stability in political support for the EU compare to stability in the two dimensions of political support that serve as benchmarks of specific and diffuse support? The second and third columns in Table 2 report dynamic panel data models of support for the Dutch government and support for democracy. Confidence in the national government has a lower level of stability. Its coefficient for the lagged dependent variable is further from zero than it was in the case of support for the European Parliament. Support for democracy, on the other hand, appears highly stable. Its estimate of the coefficient for the lagged dependent variable is indistinguishable from zero. Overall, the conclusions for this comparison are similar to the conclusions drawn from the Wiley and Wiley model: Political support for the European Parliament shows more over-time stability than support for the national government and slightly less stability than support for democracy.

In sum, the dynamic panel data model demonstrates that individuals have a stable level of support for the European Parliament. If at one point in time individuals deviate from their long-term level of support, they quickly return back to it in the next time period. The stability in support for the EU is somewhat lower than stability in support for democracy and significantly higher than stability in support for the Dutch national government. These conclusions are consistent with the conclusions derived from the aggregate-level analysis and from the Wiley and Wiley models. Overall, my analysis shows that throughout the period of the Great Recession individuals maintained a substantial level of stability in their support for the EU. I therefore argue that support for the European Parliament among Dutch citizens is highly diffuse.

Concluding remarks

Diffuse political support gives political regimes legitimacy during times of crisis. This paper explored whether mass public support for the European Union is a diffuse type of support. Although the existing literature provides some evidence suggesting that support for the European Union is diffuse (Beaudonnet and Franklin, 2014; Hooghe and Marks, 2004; Serricchio et al., 2013; Torcal et al., 2012a), this evidence is limited. All existing research demonstrating diffuse support for the EU is based on cross-sectional data. Diffuse support, however, is an attitude defined by its longitudinal characteristics at the individual level of measurement. In this paper I addressed this gap in the literature by focusing on individual-level over-time stability in political support for the European Parliament during the 2008 economic crisis. The analysis showed that despite a considerable drop in citizens' evaluations of EU's performance, public support for the EU maintained a high level of stability throughout the economic crisis. The over-time stability in support for the EU even approached the level of stability in one of the most diffuse dimensions of political support – support for democracy. Based on this evidence, I argue that public support for the European Union is largely diffuse.

The high stability of support for the EU throughout the 2008 recession implies that in times of crisis, the European Union can draw on mass public support as a source of resilience. The results in this study therefore suggest that mobilization appeals challenging the supranational political regime in Europe may be limited in its ability to gain traction within the wider audience in the EU.

The conclusions from this study warrant a few caveats though. My analysis is based on data from only one EU member country – the Netherlands. The generalizability of my results to the entire European Union may therefore be limited, as there are studies suggesting that there are important cross-country differences in citizens' attitudes towards the EU (Díez Medrano, 2003;

Duchesne et al., 2013). Nevertheless, data from the Eurobarometer surveys show that the over-time trend in support for the European Parliament in the Netherlands is parallel to the trend in the European Union as a whole (for details see the online appendix). This comparison suggests that the over-time dynamics in support for the European Parliament in the Netherlands are not radically different from dynamics of political support in the European Union as a whole.

By analyzing citizens' trust in the European Parliament, this study examines citizens' political support for the EU as a political regime. Due to data limitations, other dimensions of political support such as support for the political community or support for incumbents lie outside the scope of the present analysis. Nevertheless, support for the political regime is an important dimension of political support and citizens' trust in a regime institution such as a parliament is a valid and well-established measure of public support for a political regime (Dalton, 2004; Easton, 1965; Norris, 1999; Torcal et al., 2012b). Existing research on political support finds that support for political community is more diffuse than support for a political regime. We would therefore expect public support for the political community of the European Union to be more diffuse than the dimension of support examined in the present study (Norris, 1999; Norris, 2011). Support for regime incumbents, on the other hand, has been found to be less diffuse than support for the political regime. We would therefore expect public support for politicians at the European level to be tied to performance indicators to a greater degree than support for the political regime.

This study provides the first step in our understanding of individual-level dynamics of support for the European Union. Future research can build up on this study by exploring the dynamics of other dimensions of support for the EU, such as support for other EU institutions or support for the political community of the EU. Further longitudinal analysis of attitudes towards

the EU has the potential to enrich our understanding of public opinion in the EU in other areas as well. Panel data analysis can provide new insights into determinants of attitudes towards the EU as well as into relationships between attitudes and political behavior. Such data provide a greater leverage in the study of causal relationships than cross-sectional studies do. Existing panel survey datasets as well as possible new longitudinal data collection efforts are a promising opportunity to gain new insights into the sources and consequences of political attitudes in the European Union.

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Notes

^{1.} The literature on support for European integration often uses the distinction between utilitarian and affective support (Linberg and Scheingold, 1970). Utilitarian support is performance-based and it is therefore equivalent to Easton's specific support. The concept of affective support very closely corresponds to Easton's concept of diffuse support. Although diffuse support is resistant to momentary changes of regime performance, in a long-term perspective, regime performance may affect diffuse support as well (Easton, 1965). Similarly, a long period of good regime performance helps build up diffuse support (Mishler and Rose, 2007). It is still too early to assess whether the Great Recession affected diffuse support for the EU through a buildup of low regime performance.

- 2. It is important to distinguish between 'support for European integration' and 'support for the European Union as a political regime'. This manuscript studies support for the European Union as a political regime.
- 3. Looking at the percentages of respondents with negative views shows even a bleaker picture of the trend in citizens' satisfaction with the EU. While in 2007 22% of EU citizens thought that things in the EU are going in the wrong direction, in 2012 52% held this negative view. The Netherlands, which is the object of interest in the present study, did not significantly differ from this European trend. Source of all cited figures: Eurobarometer.
- 4. The LISS Panel is administered by CentERdata (Tilburg University, The Netherlands). Individuals who had not had access to the internet were provided with equipment to allow them to participate in the study. More about the survey methodology can be found at www.lissdata.nl and in Scherpenzeel and Das (2010).
- 5. The LISS Panel measures citizens' confidence in the European Parliament via the following question: 'Can you indicate, on a scale from 0 to 10, how much confidence you personally have in each of the following institutions? European Parliament'. This is an explicit measure of support for the EU. As Maier et al. (forthcoming) show, both implicit as well as explicit measures are valid measures of support. The variable is measured on a scale from 0 to 10. For the purposes of this analysis, the variable was rescaled to a scale from 0 to 100 (with low values indicating low confidence and high values indicating high confidence).
- 6. Source: All available Eurobarometer surveys between 2007 and 2012. The percentage of Dutch respondents who thought that their country has benefited from EU membership dropped from 74% to 67%. The percentage of Dutch respondents who thought that things in the EU are going in the right direction dropped from 39.5% to 19.4%.

 7. Since there is only one indicator for each latent variable, the model requires a set of assumptions in order to become identified. These assumptions include: 1) The measurement error ε_t is uncorrelated with the latent variables ξ_t ; 2) the measurement errors ε_t are serially uncorrelated; 3) the random shocks θ_t are serially uncorrelated; 4) the system is lag-1, meaning that the latent variable at time t-2 (ξ_{t-2}) exerts no direct influence on latent variable at time t (ξ_t); 5) the measurement error variance is assumed to be constant over time $[V(\varepsilon_1) = V(\varepsilon_2) = V(\varepsilon_3) = ... V(\varepsilon_t) = V(\varepsilon)]$. I estimate this model in Stata 12 using the variance-covariance matrix. Maximum likelihood was the method of estimation. Having more than three waves of panel data allows me to evaluate the fit of the model. The model performs well: RMSEA of 0.029 and CFI of .998 indicate a good fit (Acock, 2013). Although χ_2 is statistically significant (suggesting less than perfect fit), it is not a major problem because χ_2 can be a misleading measure of fit where sample size is large (such as in the present case where N = 2,147). The Wiley and Wiley model also reports estimates of reliability of the measurement scale. The reliabilities for the confidence in the European Parliament scale range between .73 and .78.
- 8. The term 'long-term' only refers to the time period of the duration of the panel (six years).
- 9. All equations in this section are adapted from Cameron and Triverdi (2010).

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10. I use one-step Arellano-Bond estimator. All available lags are used as instruments for $y_{i,t-1}$. This means that all cases in the dataset that display at least three consecutive waves of data are included in the analysis. Due to the estimation procedure (first differencing and then using the second lag of the dependent variable as an instrument), only dummy variables for waves 3, 4, 5, and 6 of the panel are included in the model. For discussion of the model assumptions, see the online appendix.

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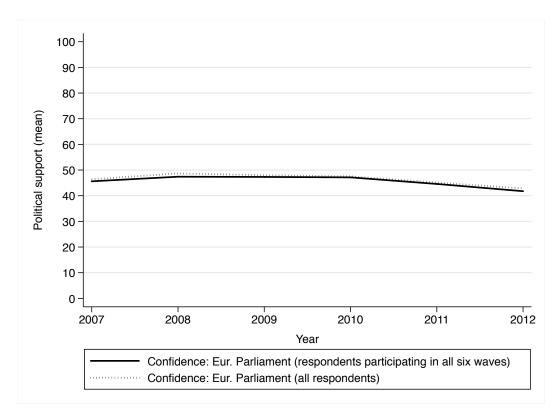


Figure 1. Mean values of support for the EU over time.

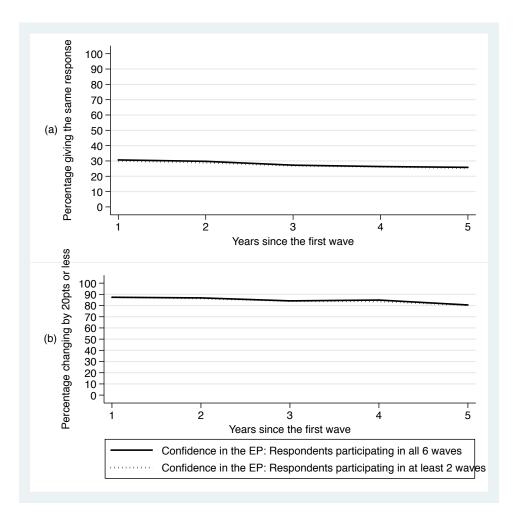


Figure 2. Percentage of respondents (a) who give the same response as in the first wave of the panel; (b) changing by 20 points or less compared to the first wave of the panel.

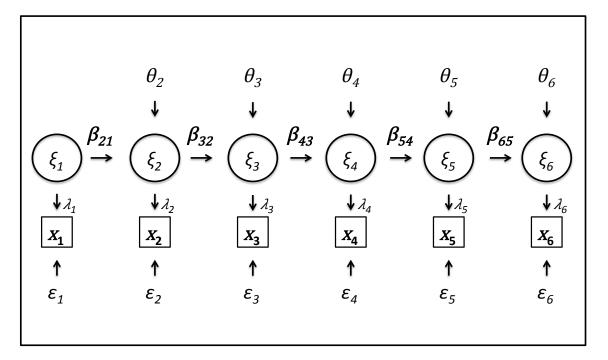


Figure 4. Measurement Model.

Table 1. Wiley and Wiley model.

	European Parliament	Dutch Government	Democracy
β 2008,2007	0.912	0.972	0.951
•	(0.024)**	(0.033)**	(0.029)**
$\beta_{2009,2010}$	0.979	1.036	1.036
•	(0.022)**	(0.027)**	(0.027)**
$\beta_{2010,2009}$	0.974	0.787	0.950
-	(0.021)**	(0.025)**	(0.023)**
$\beta_{2011,2010}$	0.964	1.015	1.013
•	(0.020)**	(0.029)**	(0.024)**
$\beta_{2012,2011}$	1.078	0.782	1.046
•	(0.022)**	(0.027)**	(0.025)**
& 1-6	112.229	121.330	106.959
	(2.584)**	(4.013)**	(2.258)**
χ^2	25.25	549.38	21.44
df	9	9	9
p-value	0.00	0.00	0.01
N	2,147	2,438	2,327
CFI	0.998	0.919	0.998
RMSEA	0.029	0.157	0.024

Note: Dependent variable: Political support. Wiley and Wiley (1970) model (estimated using Stata 12 sem command). Standard errors in parentheses. * p<0.05; *** p<0.01

 Table 2. Dynamic panel data model.

	European Parliament	Dutch Government	Democracy
Political support (lagged)	0.035	0.161	0.027
	(0.016)*	(0.016)**	(0.015)
2009	-0.529	-4.198	-1.139
	(0.274)	(0.315)**	(0.253)**
2010	-0.657	-1.160	0.300
	(0.299)*	(0.333)**	(0.275)
2011	-3.287	-6.776	-3.899
	(0.317)**	(0.357)**	(0.290)**
2012	-5.756	-9.344	-2.706
	(0.330)**	(0.368)**	(0.311)**
Autocorrelation test: 1st-Order	-31.37	-34.82	-33.49
Autocorrelation test: 2nd-Order	1.13	-8.72**	-0.36
N	13,953	15,180	14,767

Note: Dependent variable: Political support. Coefficients from a one-step Arrellano-Bond (1991) model (estimated using Stata 12 xtabond command). Standard errors in parentheses. Statistical significance levels: *p<0.05; **p<0.01. The values for autocorrelation test represent the autocorrelation test statistic.