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ing likelihood of convergence to the electoral mean. By using simulation, we verified that electoral mean gives an LNE in 2007 elections. We also found another LNE with all parties except DTP aligned close to the electoral mean and DTP located in the southwest of the ideological space. We argue that the electoral strength of AKP pulls the equilibrium point to the right of electoral mean on the religion axis. The initial position of all parties except DTP and AKP are to the left of the equilibrium. The initial positions of parties except DTP on the nationalism axis got closer to each other compared to 2002 elections. DTP takes a position that is to the south of the equilibrium point. None of the parties except DTP diverge from the electoral mean on this axis in the equilibrium.

Appendix 1: Survey Questions

The analysis of 2007 elections in this paper is based on World Values Survey (WVS).¹² The survey was conducted between January and March 2007, that is three—six months before the 2007 elections. The questions used in our analysis are the following:

Vote Choice

If there were a national election tomorrow, for which party on this list would you vote?

536 Secularism

- How strongly do you agree or disagree with each of the following statements? Strongly Agree, Agree, Neither Agree Nor Disagree, Disagree, Strongly Disagree
 - (a) Politicians who do not believe in God are unfit for public office.
 - (b) It would be better for Turkey if more people with strong religious beliefs held public office.
- (2) For each of the following, indicate how important it is in your life. Would you say it is Very important, Rather important, Not very important, Not at all important? Religion

 ¹²World Values Survey 1981–2008 official aggregate v.20090901 (2009). World Values Survey
 Association (www.worldvaluessurvey.org). Aggregate File Producer: ASEP/JDS, Madrid.

Nationalism

- (1) How proud are you to be Turkish? Very Proud, Quite Proud, Not Very Proud, Not At All Proud
- (2) People have different views about themselves and how they relate to the world. Using this card, would you tell me how strongly you agree or disagree with each of the following statements about how you see yourself? I see myself as part of the Turkish nation. Strongly Agree, Agree, Disagree, Strongly Disagree

Demographic Characteristics

- (1) Age: Can you tell me your year of birth, please? This means you are ... years old.
- (2) Education: What is the highest educational level that you have attained? 1—No Formal Education, 9—University Level Education—With Degree
- (3) Language: What language do you normally speak at home?
- (4) Socio-economic Status: People sometimes describe themselves as belonging to the working class, the middle class, or the upper or lower class. Would you describe yourself as belonging to the: 1 Upper class, 2 Upper middle class, 3 Lower middle class, 4 Working class, 5 Lower class?

Appendix 2: Factor Loadings

0	Table 6	Factor	loadings
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n = 588	Religion	Nationalism
Politicians' belief in god	0.738	0.092
People with strong beliefs in public office	0.748	0.064
Religion important in life	0.478	0.246
Proud of nationality	0.071	0.656
Part of the nation	0.106	0.405
Variance	0.270	0.133
Cumulative Variance	0.270	0.403

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Do Competitive Districts Necessarily Produce Centrist Politicians?

James Adams, Thomas L. Brunell, Bernard Grofman, and Samuel Merrill III

1 Evaluating Conventional Wisdom About the Effects of District Composition on Party Convergence Among the Members of the U.S. Congress

We have come a long way from the simplistic portrait of two-party plurality competition resulting in tweeedledum-tweedledee politics that is commonly attributed

- 41 e-mail: bgtravel@uci.edu
- 42

- ⁴ PA 18766, USA
- ⁴⁵ e-mail: sammerrill3@comcast.net

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²⁴ We are indebted to Keith Poole for making available to us Poole-Rosenthal DW-NOMINATE data 25 for the House for the period of interest, and to Dan Butler for helpful comments on a previous 26 version of the manuscript. We also owe special thanks to Clark Bensen of POLIDATA who 27 routinely provides us with high quality aggregate election data. We are indebted to Clover 28 Behrend-Gethard and Sue Ludeman for bibliographic assistance. The listing of authors is alphabetical. Work on this project by the third-named author was supported by SSHRCC research 29 grant #410-2007-2153 (co-PIs Stanley Winer and J. Stephen Ferris) and by the Jack W. Peltason 30 (Bren Foundation) Chair, University of California, Irvine. 31

³² J. Adams (🖂)

Department of Political Science, University of California, Davis, Davis, CA 95616, USA e-mail: jfadams@ucdavis.edu

³⁵ T.L. Brunell

³⁶ School of Economic, Political and Policy Sciences, University of Texas at Dallas,

^{37 800} W. Campbell Road, Richardson, TX 75080, USA

³⁸ B. Grofman

³⁹ Department of Political Science and Center for the Study of Democracy,

⁴⁰ University of California, Irvine, Irvine, CA 92697-5100, USA

⁴³ S. Merrill III

Department of Mathematics and Computer Science, Wilkes University, Wilkes-Barre,

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to Downs (1957).¹ Two key modifications are the recognition that (1) paralleling Downsian pressures for party convergence, there are strong competing incentives for party divergence; and, (2) that the existence of multiple legislative constituencies in which competition occurs affects the standard Downsian logic.

For example, we now recognize the theoretical potential for divergence due to politicians' sincere policy motivations,² candidate nomination rules,³ party activists, voters' partisan loyalties, the threat of abstention due to alienation, and a host of other factors.⁴ Theoretical research also suggests that the consequences of multiconstituency competition for party convergence are expected to be larger (a) the more diverse the locations of the median voter across different districts, (b) the greater the extent to which candidates/elected officials have the leeway to modify their policy platforms/legislative behavior to accommodate the median voter in their own district,⁵ and (c) the greater the difference in variance in the support bases of the two parties.⁶ Neo-Downsian models of the type pioneered by Adams and Merrill (2003), Butler (2009), Miller and Schofield (2003) demonstrate that, under certain empirically plausible circumstances, candidates maximize support in general elections not by appeal to the median voter position but by mobilizing their own partisan supporters (i.e., what we think of as the party's "base").

65 There is also extensive empirical support for party divergence in two party com-66 petition in the United States, including work on the ideological differences between 67 Senators of the same state from rival parties (e.g., Poole and Rosenthal 1984; Grof-68 man et al. 1990), work that tests hypotheses about the extent to which primary vot-69 ing rules affects party divergence (Gerber and Morton 1998; Grofman and Brunell 70 2001), and a body of work dating back as least as far as Froman (1963) looking at 71 the degree to which newly elected members of congress resemble their predecessors 72 in voting behavior and at the degree to which members of Congress are responsive 73 to the ideology of their constituents. For example, Schmidt et al. (1996) test the hy-74 pothesis that candidates derive electoral benefits in general elections from appealing 75 on policy grounds to their partisan constituencies. In a study of U.S. Senate elec-76 tions from 1962-1990, they conclude that incumbent Senators were more likely to 77 win reelection when their voting records coincided with their state party's platform

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 ¹Downs' own (1957) views of party convergence are, however, far less simplistic than often painted, see, e.g., Grofman (2004).

²See e.g., Wittman (1983); Groseclose (2001).

 ³Gerber and Morton (1998); Burden (2001, 2004); Grofman and Brunell (2001); Owen and Grofman (2006); Adams and Merrill (2008).

 ⁴See Grofman (2004) for a recent review of the theoretical literature on party divergence in plural ¹ty elections.

⁵Winer et al. (2008); see also Snyder (1994).

⁶Grofman et al. (1999) report analyses suggesting that the policy preferences of state-level Demo-

cratic partisan constituencies are substantially more heterogeneous than are the policy prefer-

ences of state-level Republican constituencies, and that this difference is not an artifact of the

⁹⁰ fact that Democratic partisans from the South hold substantially more conservative views than do

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than when their voting records reflected the median state voter's position, and, furthermore, that senators who appealed to their state party constituencies were more likely to run for reelection.⁷

Griffin (2006) argues that district competitiveness promotes responsiveness. Griffin's analysis, however, does not address our main question of how the policy differential between Democratic and Republican office-holders in similar districts varies between competitive districts on the one hand and uncompetitive ones on the other. What Griffin shows, instead, is that the average ideology of representatives (rather than the differential between parties) varies *across districts* as the median voter ideology varies, and that this relation is more pronounced among generally moderate districts than among uncompetitive districts.⁸ Griffin, however, does not compare Democratic positions with Republican positions in similar districts.

In this essay we show that theoretically expected patterns of candidate positioning are reflected in the empirical record of the ideological locations of those individuals who become members of Congress. In particular, we look at the implications of presidential voting patterns at the district/state level—which we view as a surrogate for district/state ideology—for the degree of ideological similarity among Democratic and Republican officeholders, as reflected in their legislative voting records. We analyze data for the U.S. House and Senate over the period 1956–2004. We take support levels for Democratic presidential nominees as our measure of the underlying ideological predisposition in the district, and we use the first dimension of DW-NOMINATE scores as our measure of the policy positions taken by officeholders. Our focus is empirical and descriptive rather than theoretical (although, as we discuss below, our findings have important implications for theory-based models of candidate competition).⁹

Exactly as expected, we find that representatives from opposite parties who are elected from districts of similar ideology display sharply different legislative voting records, such that, for any given level of Democratic presidential support, Democrats elected from such districts are, on average, considerably more liberal than Republicans elected from such districts. Moreover, we also find the expected constituency-specific effects that pull office holders toward the views of their own constituency, so that the greater the support for Democratic presidential nominees

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¹²⁷ ⁷In a study of postwar presidential elections, however, Kenny and Lotfinia (2005) report mixed ¹²⁸ results, i.e. they report that in some sets of analyses the presidential nominees who were closer to ¹²⁹ their party's ideological position fared better in general elections, while other sets of analyses sug-¹³⁰ gest that the nominees who were closer to the median voter appeared to be electorally advantaged.

 ⁸In particular, Griffin finds that the slope over districts relating average representative ideology to (normalized) presidential vote is steeper for competitive (moderate) districts than for lop-sided districts. He further finds that within districts legislators are more likely to adjust to changing voter ideology over time in competitive rather than uncompetitive districts.

 ⁹Our evidence does not speak to a current lively debate over issue ownership and dialogue in
 ⁹Ditical campaigns, which revolves around whether rival candidates emphasize the same policy
 ¹³⁶ issue areas, not whether the candidates take similar positions on these issues (see, e.g., Sigelman
 ¹³⁷ and Buell 2004; Petrocik 1996; Kaplan et al. 2006).

in the district, the more liberal are both Democratic and Republican officeholders from such districts.

We look more closely at the degree of ideological similarity among officeholders of the two parties as a function of presidential voting in the district. We also consider differences found across different time periods and offer evidence from both Houses of Congress. In particular, rather than looking at each party separately, we look at whether the degree of closeness/competitiveness in the underlying partisan characteristics of a district lead to differences in the ideological gap between representatives of the two different parties elected from districts of that type.

141 142 143 144 145 146 147 148 149 150 151 152 153 154 Our primary purpose is to investigate the theoretical expectations derived from the modeling of Adams et al. (2005), Butler (2009), and Adams et al. (2010), that policy convergence between vote-seeking Democratic and Republican candidates need not be maximized in districts with balanced partisan compositions, i.e., where there are approximately equal proportions of Democratic and Republican partisans. Indeed, Adams et al. (2010), who account for voters' partisan loyalties and abstention due to alienation, advance the opposite argument, that, *ceteris paribus*, districts with balanced partisan compositions will motivate maximal policy divergence between Democratic and Republican candidates. Figure 1 in Adams et al. (2010) depicts the expected pattern, i.e., ideological divergence is greatest when partisans are equally balanced. Although the arguments of Adams et al. and Butler¹⁰ apply to the degree of policy divergence between rival candidates (one of whom must lose), while our analyses consider only winning candidates, these authors' arguments imply that when comparing the ideological positions of winning candidates from different parties, these differences should be at least as large in competitive districts as in non-competitive districts.

We focus on winners because we recognize that idiosyncratic factors may drive 164 the locations of the candidate of the minority party in uncompetitive seats, and our 165 interest is about how different from the location of the median voter a candidate 166 can be and still be able to win the district. We treat idiosyncratic candidate charac-167 teristics and incumbency advantages as effectively washing out when we compare 168 the set of Democratic and Republican winners from districts with the same ideolog-169 ical characteristics (as inferred from presidential election outcomes). Under these 170 assumptions, we evaluate the hypothesis that the difference in policy positioning 171 between Democratic and Republican *winners* should be at least as large in districts 172 where the presidential outcome is competitive as in districts where the presidential 173 outcome is non-competitive. 174

In the recent theoretical models, unlike the standard Downsian model, being in 175 a potentially competitive seat does not necessarily imply that winners are closer 176 to the median voter in the district. This is because, in such competitive settings, 177 candidates have various strategic options to seek to improve their election chances, 178 such as gaining financial support from an activist and interest-group base and using 179 the money and publicity it buys to appeal to less ideologically-oriented voters (see 180

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¹⁸² ¹⁰Using district-level estimates of the voter distribution, Butler (2009) explains polarization among

¹⁸³ candidates in terms of the location and size of candidates' bases and proportion of swing voters.

e.g., Schofield and Miller 2007). Such an appeal can result from emphasizing one's own competence or likeability, by attacking the opponent, or by appealing to one's own party base and trying to further mobilize it. When candidates in a potentially competitive district seek support from potential activists—who are typically more polarized than the general electorate—they move *further* away from the median voter in that district. Candidates can compensate for being more distant from the median voter than their opponent by increasing turnout and activism¹¹ among their own party faithful.

To gain intuition about why candidates might be most dispersed when the election is most competitive, Adams et al. (2010) first consider the *least* competitive election context, namely that in which all citizens in the electorate identify with the same party. If, say, all citizens are Democratic partisans, then both candidates will appeal on policy grounds to these partisans, since there are no others. Therefore even while courting citizens to vote and activists to contribute—margin-maximizing candidates will converge to identical positions in this "perfectly" uncompetitive scenario, and, by extension, they can be expected to converge to similar positions for partisan contexts that strongly favor one party over the other.

202 By contrast, in competitive districts, each candidate is motivated to appeal in 203 large part to his/her own partisan constituency, which motivates increased divergence of the candidates' positions. To see intuitively why this might be true, Adams 204 et al. (2010) consider another extreme situation where voters' partisan biases are 205 206 so strong that they invariably prefer their party's candidate to the rival party's candidate, regardless of the candidates' positions, but where partisan voters are also 207 prone to abstain from voting and/or activism, so that they participate only if they ap-208 prove of their preferred candidate's policy position. Because, in this scenario, each 209 candidate influences decisions to participate by the members of only her own par-210 tisan constituency—and neither candidate can attract support from the rival party's 211 212 partisans-each candidate is motivated to give weight to the policy preferences of 213 her own partisan constituency (along with the preferences of any independent voters in the electorate), while ignoring the policy preferences of the rival party's partisan 214 constituency.¹² 215

Our empirical analyses support this expectation that candidates may be most dispersed when the election is most competitive. We find that, contrary to the intuition

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 ¹¹In competitive House elections, even if the positions of the House candidates do not greatly affect actual turnout, they may affect the decision to vote in the House contest and will likely affect the efforts of potential activists (cf. Schofield and Miller 2007).

²²² ¹²More generally, using a conditional logit model, Adams et al. (2010) argue that the more un-223 committed a voter's decision to vote for a candidate, the more the candidate will take the voter's 224 preferences into account (Erikson and Romero 1990, p. 1107). In a two-candidate election where voters have nonzero probabilities of abstaining, the higher of the voter's probabilities of voting for 225 one or the other of the candidates must be the one nearer 0.5, and hence the voter is most marginal 226 with respect to the candidate that she is most likely to support. Given that partisan voters are more 227 likely to vote for their party's candidate than for the opposition party's candidate, candidates attach 228 greater weight to the policy preferences of the members of their own partisan constituency than to 229 the preferences of the members of the rival candidate's constituency.

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that competitive districts should pull candidates of opposite parties closer together toward the median voter in that district, the ideological difference between the winners from the two parties is typically as great or greater in districts that, in presidential support terms, are the most competitive. Simply put, in election contexts that one might think give candidates the strongest possible incentives to maximize their electoral support, the winning candidates tend to present the most radical policies relative to the center of district opinion. Note that this finding does not imply that the most competitive districts elect the most extremist members of Congress. Rather it indicates that Democrats and Republicans elected in competitive districts are at least as polarized *relative* to each other-but not necessarily more extreme-than those elected in lopsided districts.

We believe empirical research on the policy extremism of candidates contesting competitive districts is relevant not only to the theoretical models of Butler (2009) and Adams et al. (2005) discussed above, but also to the more general question: Do candidates believe they maximize their support by converging towards the center of district opinion, or by presenting noncentrist positions that may be more appealing to their base and also to special interest groups?

As we noted above the basic Downsian model provides a strong intuition that, all 248 other factors being equal, candidates and parties enhance their support by moving 249 to the center of constituency opinion. However subsequent theoretical and empir-250 ical research has developed several reasons why other factors are *not* equal, and 251 may reward candidates for presenting noncentrist positions. These include motivat-252 ing turnout among party supporters who hold noncentrist viewpoints; energizing 253 party activists to work on the candidate's campaign;¹³ motivating special interest 254 groups to finance the campaign;¹⁴ and, convincing voters that the candidate is of su-255 perior character because her announced noncentrist positions demonstrate that she 256 is not "pandering" to voters in the district.¹⁵ Given these theoretical considerations 257 it is not obvious whether, in real-world elections, candidates enhance their electoral 258 prospects by positioning themselves near the center of the district electorate, or by 259 presenting noncentrist positions that appeal to their partisans, to party activists, and 260 to special interest groups. The empirical findings we present below that the win-261 ning candidates in more competitive districts present more radical policies suggest 262 that the candidates themselves believe there are electoral advantages to noncentrist 263 positioning. We believe this finding is important.

264 Our analysis is also consistent with the empirical findings of Ansolabehere et al. 265 (2001), who find little support for the claim that winners of competitive races are 266 more ideologically centrist than members of that same party elected from safe seats. 267 Ansolabehere et al. (2001) look at the degree of divergence between winners and 268 losers. 269

Unlike these and most other authors, we define competition in a national (i.e., 270 presidential) rather than a House/Senate contest-specific way. Here, because DW-271

- ¹³See, Schofield and Sened (2006). 273
- ¹⁴See Baron (1994) and Moon (2004). 274
- 275 ¹⁵See Callander and Wilkie (2007).
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308 309 NOMINATE scores are generally available for winners but not for losers, we look only at the positions of winners. But, of course, it is the winners who matter most. There are advantages and disadvantages to both approaches-i.e., defining competition in a national or a contest-specific way-and they should be seen as complementary. When Ansolabehere et al. (2001) and others define competition in terms of contests for House seats, they look directly at the competitiveness of the election in which a given officeholder is elected. On the other hand, any given House contest involves idiosyncratic features such as the backgrounds and campaign skills of the two candidates (and controlling for incumbency only partly controls for these other effects). This problem is exacerbated by the fact that there are only a few data sets that contain the ideological locations of both challengers and candidates. In contrast, by using presidential level data for all districts we provide more comparable data on the underlying partisan predispositions of the districts and we have comparable data over a larger number of districts over a much longer time period. In addition, potential statistical problems arise if we substitute votes in the House/Senate elections themselves for the presidential vote shares. Specifically, if we regress DW-NOMINATE scores on vote shares in House/Senate elections, this regression introduces an endogeneity problem because the Democratic proportion of the vote in each election is in part dependent on the ideological positions of the Congressional candidates, which biases estimates of the regression parameters.¹⁶ Thus, there are good reasons to believe that the kind of data which we analyze in this paper is informative about pressures for ideological divergence.

2 Ideological Extremism in the U.S. House, 1956–2004, by Party and by Democratic Presidential Vote in the District

We begin by analyzing the relationship between candidate extremism and district competitiveness, using data for U.S. House districts over the 1956–2004 period. Taking DW-NOMINATE scores as our measure of a member's ideology for data pooled for the House elections from 1956 through 2004,¹⁷ we have plotted member

¹⁶In fact for an extreme case in which vote-share is completely determined by spatial factors— 310 namely the candidates' relative proximities to the median voter-the slope for each party would be 311 decidedly positive rather than negative, i.e., more liberal Democratic candidate positioning would 312 be associated with lower Democratic vote shares (and vice versa for Republicans). To see why 313 regressing against vote shares in House districts biases toward positive slopes, consider a scenario 314 in which the voters are uniformly distributed on the interval from -0.5 to 0.5 (the center half of 315 the Left-Right scale from—restricted and, on average, less liberal). This leads to a positive slope when spatial position is regressed against Democratic vote-share. So endogeneity can seriously bias 316 inferences from data that relate spatial position to Democratic vote-share in district House races. 317 Regressions of DW-NOMINATE scores against House vote-shares that we have done give lines 318 that are essentially flat. We take this as evidence of significant endogeneity effects (data omitted 319 for space reasons).

³²⁰ ¹⁷As explained in the website http://polisci.ucsd.edu/faculty/poole.htm, the average DW-NOMI-

 $^{^{321}}$ NATE coordinate for every legislator is constrained to lie within the unit hypersphere, with +1

DW-NOMINATE scores against the (district-specific) normalized Democratic vote share in the district in the contemporaneous Presidential election,¹⁸ which we use as an estimate of district ideology. We label this variable the *normalized district Democratic vote proportion for president*, or *district ideology* for short.

Plots for pooled data over the period 1956–2004 are presented in Fig. 1; plots broken down by time period are shown in Fig. 2. Areas of the figure to the left of the vertical line represent Republican districts, i.e., those in which the district Democratic presidential vote was less than the national Democratic vote, while the areas to the right of it represent Democratic districts. Each curve, one for each party, represents a quadratic regression for that party, in which we regressed the representatives' DW-NOMINATE scores on the normalized district Democratic vote proportion, which we take as a measure of district ideology, *and* on the square of the district ideology; we also included a dummy variable for districts from the South.¹⁹ Thus for each party our specification was:

DW-NOMINATE score_j =
$$b_1 + b_2$$
[District ideology_j]
+ b_3 [District ideology_j]² + b_4 [South], (1)

where

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DW-NOMINATE score j = representative j's DW-NOMINATE score, based on j's legislative voting record in the two years preceding the election,
District ideology = normalized presidential vote in j's district, as defined in footnote 18,
[District ideology]² = the square of the normalized presidential vote in j's district,
South = 1 if the district was located in the South, and zero otherwise.

- ³⁶⁷ olina, South Carolina, Texas, and Virginia.
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interpretable as the most conservative score and -1 interpreted as the most liberal score. However, some members may have large linear terms so that for some Congresses their coordinates can be greater than +1/-1. In our data, there are 12 data points for which the DW-NOMINATE scores are beyond the range of -1 or 1.

¹⁸Specifically, the normalized Democratic vote proportion for president is equal to district presi-357 dential vote share minus the national presidential vote share. For example, if a presidential candi-358 date gets 65 percent in a district, and 60 percent nationally, then the normalized district percent is 359 65-60 = +5 percent, reflecting the fact that the presidential candidate ran five percentage points 360 ahead of his national average in that district. If the presidential vote share in the district is the same as the national vote, then the normalized district vote is zero percent. Centering the district 361 vote on zero is necessary, as explained in footnote 20 below, in order for the quadratic regressions 362 (described below) to generate informative parameter estimates. Because the mean of the national 363 Democratic presidential vote over the period of the study (49.9 %) is almost exactly 50 percent, 364 we may interpret the zero point of the normalized Democratic vote proportion for president as 365 representing either the mean national presidential vote or as zero deviation from a 50–50 district. 366 ¹⁹We define the south as Arkansas, Alabama, Florida, Georgia, Louisiana, Mississippi, North Car-