

S4 File

Stata graphing commands and statistical tables for Hamilton, Hartter and Safford (2015)
“Tracking public beliefs about anthropogenic climate change.” *PLOS One*.

Figure 1A

```
use S3_Dataset.dta
catplot warmop2_r [aw=tempwt] if type!=4, over(type) ///
    percent(type) asyvars lltitle("") ///
    legend(position(5) ring(0) col(2) size(small) rowgap(*.01) ///
        symxsize(*.8) symysize(*.7) order(1 3 2 4)) ///
    blabel(bar, format(%2.0f)) ytitle("") ///
    ylabel(0(10)60, grid gmin gmax) ///
    title("{bf:(A)} US and New Hampshire surveys", size(medsmall) position(11))
```

Figure 1B

```
use S3_Dataset.dta
graph hbar (mean) warmop2d00 [aw=tempwt] if type==4, ///
    over(survname, sort(warmop2d00)) ytitle("") ///
    blabel(bar, format(%2.0f)) ylabel(0(10)60, grid gmin gmax) ///
    title("{bf:(B)} Regional CERA/CAFOR surveys", size(medsmall) position(11)) ///
    bar(1, color(navy))
```

Figure 2A

```
use S4_Dataset.dta
graph twoway rarea warmophi warmoplo edate5 if survey<50, color(gsl2) ///
    || connect warmop00 edate5 if survey<50, msymbol(d) lwidth(medium) ///
        mlwidth(medium) lcolor(dkorange) mcolor(dkorange) ///
    || rcap warmophi warmoplo edate5 if survey==80, lcolor(black) ///
        lwidth(medthick) ///
    || scatter warmop00 edate5 if survey==80, mcolor(black) msymbol(T) ///
        lwidth(medthick) mfcolor(white) ///
    || rcap warmophi warmoplo edate5 if survey==90, lcolor(black) lwidth(medthick) ///
    || scatter warmop00 edate5 if survey==90, mcolor(black) msymbol(T) ///
    || rcap warmophi warmoplo edate5 if survey==100, lcolor(black) lwidth(medthick) ///
    || scatter warmop00 edate5 if survey==100, mcolor(black) msymbol(S) ///
        mfcolor(white) lwidth(medthick) ///
    || , xtitle("") legend(order(2 1 4 6 8) col(3) position(5) ring(0) ///
        label(2 "New Hampshire") label(1 "95% conf. interval") ///
        label(4 "US NCERA") label(6 "US GSS") label(8 "US IME") ///
        size(small) rowgap(*.01) holes(3)) ///
    ytick(0(10)100, grid gmax gmin) ylabel(0(20)100) ///
    ytitle("") xlabel(, labsize(small)) ///
    xlabel(18374 18466 18531 18658 18735 18803 18910 19021 19098 19184 ///
        19269 19391 19454 19555 19635 19753 19814 19913 20005 20128 ///
        20225 , labsize(small) angle(30)) ///
    xscale(range(18370 20230)) text(97 18380 "{bf:(A)}")
```

Figure 2B

```
use C:\trip\A_research\Granite_State_Poll\Synthesis\Supporting_information\S5_Dataset.dta, clear
graph twoway rarea warmophi warmoplo edate5 if party3==1 & survey<70, color(gsl4) ///
|| rarea warmophi warmoplo edate5 if party3==3 & survey<70, color(gsl4) ///
|| rarea warmophi warmoplo edate5 if party3==2 & survey<70, color(gsl2) ///
    legend(position(5) ring(0) ) ///
|| connect warmop00 edate5 if party3==1 & survey<70, msymbol(O) lwidth(medium) ///
    mlwidth(medium) lcolor(navy) mcolor(navy) ///
|| line warmop00 edate5 if party==2 & survey<70, lwidth(medium) lcolor(dkgreen) ///
|| connect warmop00 edate5 if party==3 & survey<70, msymbol(S) lwidth(medium) ///
    mlwidth(medium) clpattern(longdash) lcolor(maroon) mcolor(maroon) ///
|| rcap warmophi warmoplo edate5 if party3==1 & survey==80, lcolor(black) lwidth(medthick) ///
|| rcap warmophi warmoplo edate5 if party3==2 & survey==80, lcolor(black) lwidth(medthick) ///
|| rcap warmophi warmoplo edate5 if party3==3 & survey==80, lcolor(black) lwidth(medthick) ///
|| scatter warmop00 edate5 if party3==1 & survey==80, mcolor(black) msymbol(T) ///
    lwidth(medthick) mfcolor(white) ///
|| scatter warmop00 edate5 if party3==2 & survey==80, mcolor(black) msymbol(T) ///
    lwidth(medthick) mfcolor(white) ///
|| scatter warmop00 edate5 if party3==3 & survey==80, mcolor(black) msymbol(T) ///
    lwidth(medthick) mfcolor(white) ///
|| rcap warmophi warmoplo edate5 if party3==1 & survey==90, lcolor(black) lwidth(medthick) ///
|| rcap warmophi warmoplo edate5 if party3==2 & survey==90, lcolor(black) lwidth(medthick) ///
|| rcap warmophi warmoplo edate5 if party3==3 & survey==90, lcolor(black) lwidth(medthick) ///
|| scatter warmop00 edate5 if party3==1 & survey==90, mcolor(black) msymbol(T) ///
|| scatter warmop00 edate5 if party3==2 & survey==90, mcolor(black) msymbol(T) ///
|| scatter warmop00 edate5 if party3==3 & survey==90, mcolor(black) msymbol(T) ///
|| rcap warmophi warmoplo edate5 if party3==1 & survey==100, lcolor(black) lwidth(medthick) ///
|| rcap warmophi warmoplo edate5 if party3==2 & survey==100, lcolor(black) lwidth(medthick) ///
|| rcap warmophi warmoplo edate5 if party3==3 & survey==100, lcolor(black) lwidth(medthick) ///
|| scatter warmop00 edate5 if party3==1 & survey==100, mcolor(black) msymbol(S) mfcolor(white) ///
|| scatter warmop00 edate5 if party3==2 & survey==100, mcolor(black) msymbol(S) mfcolor(white) ///
|| scatter warmop00 edate5 if party3==3 & survey==100, mcolor(black) msymbol(S) mfcolor(white) ///
|| , xtitle("") ///
legend(order(4 3 10 5 16 6 22) col(3) row(3) holes(5 8) position(5) ring(0) ///
    label(4 "NH Democrat") label(5 "NH Independent") ///
    label(6 "NH Republican") label(10 "US NCERA") label(16 "US GSS") label(22 "US IME") ///
    label(3 "95% c.i.") rowgap(*.01) symxsize(*.7) size(small) bmargin(zero) ///
ytitle(0(10)100, grid gmax gmin) ylabel(0(20)100) ytitle("") ///
xlabel(18374 18466 18531 18658 18735 18803 18910 19021 19098 19184 ///
    19269 19391 19454 19555 19635 19753 19814 19913 20005 20128 ///
    20225 , labsize(small) angle(30)) ///
xscale(range(18370 20230)) text(97 18380 "{bf:(B)}")
```

Table 2

General Social Survey (GSS) data can be downloaded freely from the National Opinion Research Center (NORC) website at <http://www3.norc.org/GSS+Website/>

Citation for using these data is:

Smith, Tom W, Peter Marsden, Michael Hout, and Jibum Kim. General Social Surveys, 1972-2012 [machine-readable data file] /Principal Investigator, Tom W. Smith; Co-Principal Investigator, Peter V. Marsden; Co-Principal Investigator, Michael Hout; Sponsored by National Science Foundation. --NORC ed.-- Chicago: National Opinion Research Center [producer]; Storrs, CT: The Roper Center for Public Opinion Research, University of Connecticut [distributor], 2013.
 1 data file (57,061 logical records) + 1 codebook (3,432p.). -- (National Data Program for the Social Sciences, No. 21).

For our analysis we used the 2012 GSS panel survey, which includes the climate beliefs question as a variable named *clmtchnng*. This variable and some others in the dataset were renamed or recoded for consistency with the other datasets used in our paper. Under the General Social Survey terms of use (<http://www.icpsr.umich.edu/icpsrweb/ICPSR/studies/35478/terms>) we are not authorized to publish the GSS subset, but interested researchers can construct their own version with the same properties.

```
. use S7_Dataset.dta
(2012 General Social Survey (Smith 2013) warming subset)

. svy: logit warmop2d age3 sex2 c.educ40##c.party30 , or nolog
(running logit on estimation sample)
```

Survey: Logistic regression

```
Number of strata = 1
Number of PSUs = 1,242
Number of obs = 1,242
Population size = 1,163.0448
Design df = 1,241
F( 5, 1237) = 12.90
Prob > F = 0.0000
```

-----		Linearized				[95% Conf. Interval]	
-----	warmop2d	Odds Ratio	Std. Err.	t	P> t		
	age3	.9946053	.0043548	-1.24	0.217	.9860984	1.003186
	sex2	1.116041	.1593299	0.77	0.442	.8434144	1.476792
	educ40	1.209783	.0824681	2.79	0.005	1.058343	1.382893
	party30	.565585	.0452725	-7.12	0.000	.4833888	.661758
	c.educ40#						
	c.party30	.820975	.0603328	-2.68	0.007	.7107464	.9482987
	_cons	1.406893	.3521503	1.36	0.173	.8609823	2.298941

```
. use S1_Dataset.dta
(National CERA survey, August 2011)
```

```
. svy: logit warmop2d age3 sex2 c.educ40##c.party30 , or nolog
(running logit on estimation sample)
```

Survey: Logistic regression

```
Number of strata =      2          Number of obs   =    1,714
Number of PSUs   =    1,714      Population size = 1,686.2411
                                          Design df     =    1,712
                                          F( 5, 1708)   =    29.25
                                          Prob > F      =    0.0000
```

	Odds Ratio	Linearized Std. Err.	t	P> t	[95% Conf. Interval]	
warmop2d						
age3	.9870372	.0040313	-3.19	0.001	.979162	.9949757
sex2	1.129339	.1647735	0.83	0.405	.8482893	1.503505
educ40	1.248718	.0868162	3.19	0.001	1.089541	1.431151
party30	.4822449	.0418298	-8.41	0.000	.4068012	.5716799
c.educ40# c.party30	.7851328	.0601261	-3.16	0.002	.6756338	.9123783
_cons	1.548629	.3840997	1.76	0.078	.9520906	2.518933

```
. use S2_Dataset.dta
(Climate poll 7/2014: Art Science Research Laboratory's iMediaEthics news site)
```

```
. svy: logit warmop2d age3 sex2 c.educ40##c.party30 , or nolog
(running logit on estimation sample)
```

Survey: Logistic regression

```
Number of strata =      1          Number of obs   =     960
Number of PSUs   =     960      Population size = 973.78931
                                          Design df     =     959
                                          F( 5, 955)   =    22.50
                                          Prob > F      =    0.0000
```

	Odds Ratio	Linearized Std. Err.	t	P> t	[95% Conf. Interval]	
warmop2d						
age3	.9846979	.0043069	-3.53	0.000	.976282	.9931863
sex2	1.073713	.179476	0.43	0.671	.7734397	1.490563
educ40	1.218158	.0913055	2.63	0.009	1.051531	1.411188
party30	.4272597	.0390873	-9.30	0.000	.3570447	.511283
c.educ40# c.party30	.8502985	.0717101	-1.92	0.055	.7206004	1.003341
_cons	2.246296	.5249632	3.46	0.001	1.42	3.553412

(Under terms of human-subjects agreements the CERA/CAFOR survey microdata are not published; contact lead author with questions.)

. svy: logit warmop2d age sex c.educ40##c.party30 i.survfips, nolog or
 (running logit on estimation sample)

Survey: Logistic regression

Number of strata	=	38	Number of obs	=	11,554
Number of PSUs	=	11,554	Population size	=	11,268.549
			Design df	=	11,516
			F(42, 11475)	=	26.69
			Prob > F	=	0.0000

-----		Linearized					
	Odds Ratio	Std. Err.	t	P> t	[95% Conf. Interval]		
warmop2d							
age	.9826188	.0017683	-9.74	0.000	.9791588	.986091	
sex	1.213116	.0689782	3.40	0.001	1.08517	1.356148	
educ40	1.205133	.0339444	6.62	0.000	1.1404	1.273541	
party30	.4246923	.0143653	-25.32	0.000	.397447	.4538053	
c.educ40#							
c.party30	.7477278	.0233659	-9.30	0.000	.7033012	.7949607	
survfips							
121133	1.332222	.248508	1.54	0.124	.9242296	1.92032	
241007	1.547137	.2644644	2.55	0.011	1.106651	2.162951	
253049	2.31303	.4837032	4.01	0.000	1.535177	3.485011	
412005	1.446815	.2713868	1.97	0.049	1.001686	2.089749	
412037	1.133689	.2769923	0.51	0.608	.7022628	1.830158	
412045	.9999195	.2505839	-0.00	1.000	.6118261	1.634188	
522075	1.577306	.2911428	2.47	0.014	1.098456	2.264901	
522109	1.188552	.2297199	0.89	0.371	.8137351	1.736014	
602130	1.274279	.2713728	1.14	0.255	.8394059	1.934448	
602198	2.186882	.6754482	2.53	0.011	1.193693	4.006436	
723017	2.723553	.4561375	5.98	0.000	1.961384	3.781892	
733007	2.53698	.4285731	5.51	0.000	1.821831	3.532856	
750001	3.091551	.6237871	5.59	0.000	2.081661	4.591374	
841001	1.422353	.2592068	1.93	0.053	.9951072	2.033036	
841061	1.136534	.2064427	0.70	0.481	.7960709	1.622605	
841063	1.121922	.2187857	0.59	0.555	.765513	1.644268	
953009	1.716941	.3159119	2.94	0.003	1.197072	2.46258	
953027	1.801613	.3356905	3.16	0.002	1.250381	2.595856	
1053033	2.407931	.5022291	4.21	0.000	1.599882	3.624101	
1053035	1.649585	.377941	2.18	0.029	1.052769	2.584737	
1053045	2.222048	.4148864	4.28	0.000	1.541011	3.204062	
1053053	1.948272	.4658791	2.79	0.005	1.219229	3.11325	
1102100	2.039451	.5595467	2.60	0.009	1.19111	3.492004	
1102105	2.439	1.115743	1.95	0.051	.9949039	5.979193	
1102110	1.907149	.3576145	3.44	0.001	1.320556	2.754308	
1102195	2.185593	.6661579	2.57	0.010	1.202541	3.972269	
1102220	1.793717	.4649889	2.25	0.024	1.079125	2.981507	
1102230	1.393854	1.007352	0.46	0.646	.3380499	5.747168	
1102275	1.389508	.6273221	0.73	0.466	.5734931	3.366619	
1102282	2.311761	1.215342	1.59	0.111	.8248991	6.478656	
1341001	2.421155	.5215431	4.10	0.000	1.58725	3.693176	
1341013	2.534387	.5702705	4.13	0.000	1.630501	3.93935	
1341023	1.985764	.4557868	2.99	0.003	1.26629	3.114024	
1341059	2.568627	.5302384	4.57	0.000	1.713839	3.849745	
1341061	1.367164	.3609072	1.18	0.236	.8148818	2.293752	
1341063	1.821769	.4347292	2.51	0.012	1.141168	2.908286	
1341069	1.81558	.523943	2.07	0.039	1.031213	3.196556	
_cons	1.057132	.1729142	0.34	0.734	.767157	1.456714	

```
. test 121095.survfips 121133.survfips 241007.survfips 253049.survfips 412005.survfips ///
      412037.survfips 412045.survfips 522075.survfips 522109.survfips 602130.survfips ///
      602198.survfips 723017.survfips 733007.survfips 750001.survfips 841001.survfips ///
      841061.survfips 841063.survfips 953009.survfips 953027.survfips 1053033.survfips ///
      1053035.survfips 1053045.survfips 1053053.survfips 1102100.survfips 1102105.survfips ///
      1102110.survfips 1102195.survfips 1102230.survfips 1102275.survfips 1102282.survfips ///
      1341001.survfips 1341013.survfips 1341023.survfips 1341059.survfips 1341061.survfips ///
      1341063.survfips 1341069.survfips
```

Adjusted Wald test

```
( 1) [warmop2d]121095b.survfips = 0
( 2) [warmop2d]121133.survfips = 0
( 3) [warmop2d]241007.survfips = 0
( 4) [warmop2d]253049.survfips = 0
( 5) [warmop2d]412005.survfips = 0
( 6) [warmop2d]412037.survfips = 0
( 7) [warmop2d]412045.survfips = 0
( 8) [warmop2d]522075.survfips = 0
( 9) [warmop2d]522109.survfips = 0
(10) [warmop2d]602130.survfips = 0
(11) [warmop2d]602198.survfips = 0
(12) [warmop2d]723017.survfips = 0
(13) [warmop2d]733007.survfips = 0
(14) [warmop2d]750001.survfips = 0
(15) [warmop2d]841001.survfips = 0
(16) [warmop2d]841061.survfips = 0
(17) [warmop2d]841063.survfips = 0
(18) [warmop2d]953009.survfips = 0
(19) [warmop2d]953027.survfips = 0
(20) [warmop2d]1053033.survfips = 0
(21) [warmop2d]1053035.survfips = 0
(22) [warmop2d]1053045.survfips = 0
(23) [warmop2d]1053053.survfips = 0
(24) [warmop2d]1102100.survfips = 0
(25) [warmop2d]1102105.survfips = 0
(26) [warmop2d]1102110.survfips = 0
(27) [warmop2d]1102195.survfips = 0
(28) [warmop2d]1102230.survfips = 0
(29) [warmop2d]1102275.survfips = 0
(30) [warmop2d]1102282.survfips = 0
(31) [warmop2d]1341001.survfips = 0
(32) [warmop2d]1341013.survfips = 0
(33) [warmop2d]1341023.survfips = 0
(34) [warmop2d]1341059.survfips = 0
(35) [warmop2d]1341061.survfips = 0
(36) [warmop2d]1341063.survfips = 0
(37) [warmop2d]1341069.survfips = 0
Constraint 1 dropped
```

```
F( 36, 11481) = 4.15
Prob > F = 0.0000
```

(Under terms of human-subjects agreements the GSP survey microdata are not published; contact Lawrence.Hamilton@unh.edu with questions.)

```
. svy: logit warmop2d age3 sex2 c.educ40##c.party30 anomnh ib1.season year, nolog or
(running logit on estimation sample)
```

Survey: Logistic regression

Number of strata	=	1	Number of obs	=	10,567
Number of PSUs	=	10,567	Population size	=	10,521.322
			Design df	=	10,566
			F(10, 10557)	=	144.81
			Prob > F	=	0.0000

warmop2d	Odds Ratio	Linearized Std. Err.	t	P> t	[95% Conf. Interval]	
age3	.9853482	.0016511	-8.81	0.000	.9821171	.9885899
sex2	1.334407	.0703616	5.47	0.000	1.203373	1.479708
educ40	1.202421	.0307697	7.20	0.000	1.143594	1.264274
party30	.3890908	.0131018	-28.03	0.000	.3642381	.4156393
c.educ40# c.party30	.7803595	.0228061	-8.49	0.000	.7369116	.826369
anomnh	1.017645	.0070089	2.54	0.011	1.003999	1.031477
season						
Spring	1.025691	.074374	0.35	0.726	.8897912	1.182348
Summer	1.144782	.0913674	1.69	0.090	.978991	1.338649
Fall	1.027548	.0830864	0.34	0.737	.8769341	1.20403
year	1.066859	.0186427	3.70	0.000	1.030934	1.104035
_cons	5.64e-57	1.98e-55	-3.68	0.000	6.47e-87	4.92e-27

Figure 3A

```

use S7_Dataset.dta
svy: logit warmop2d age3 sex2 c.educ40##c.party30 , or nolog
margins, at(educ40 = (-1(1)2) party30 = (-1(1)1))
marginsplot, legend(position(11) ring(0) col(1) size(small) rowgap(*.01) ///
  symxsize(*.4) ///
  title("{bf:(A)} GSS national survey", ///
    position(11) size(medsmall)) xtitle("") ytitle("") ///
  plotlopts(lpattern(longdash) lwidth(medium) msymbol(O) ///
    mlwidth(medium)) ///
  plot2opts(lpattern(solid) lwidth(medium) msymbol(i) ///
    mlwidth(medium) lcolor(dkgreen) mcolor(dkgreen)) ///
  plot3opts(lpattern(dash) lwidth(medium) msymbol(Sh) ///
    mlwidth(medium) lcolor(maroon) mcolor(maroon)) ///
  xlabel(-1 "<= HS" 0 "Some coll" 1 "College" 2 "Postgrad") ///
  xscale(range(-1.1 2.1)) recastci(rarea) ciopts(color(gs14)) ///
  ci2opts(color(gs13)) ci3opts(color(gs14)) ylabel(.2(.1).9, grid gmin gmax)

```

Figure 3B

```

use S1_Dataset.dta
svy: logit warmop2d age3 sex2 c.educ40##c.party30 , or nolog
margins, at(educ40 = (-1(1)2) party30 = (-1(1)1))
marginsplot, legend(position(11) ring(0) col(1) size(small) rowgap(*.01)
  symxsize(*.4) ///
  title("{bf:(B)} NCERA national survey", ///
    position(11) size(medsmall)) xtitle("") ytitle("") ///
  plotlopts(lpattern(longdash) lwidth(medium) msymbol(O) ///
    mlwidth(medium)) ///
  plot2opts(lpattern(solid) lwidth(medium) msymbol(i) ///
    mlwidth(medium) lcolor(dkgreen) mcolor(dkgreen)) ///
  plot3opts(lpattern(dash) lwidth(medium) msymbol(Sh) ///
    mlwidth(medium) lcolor(maroon) mcolor(maroon)) ///

```

```

xlabel(-1 "<= HS" 0 "Some coll" 1 "College" 2 "Postgrad") ///
xscale(range(-1.1 2.1)) recastci(rarea) ciopts(color(gs14)) ///
ci2opts(color(gs13)) ci3opts(color(gs14)) ylabel(.2(.1).9, grid gmin gmax)

```

Figure 3C

(Under terms of human-subjects agreements the CERA/CAFOR survey microdata are not published; contact Lawrence.Hamilton@unh.edu with questions.)

```

use "C:\data\CERA_CAFOR_warmop.dta", clear
svy: logit warmop2d age sex c.educ40##c.party30, or nolog
label values party30 partyfoo
label define partyfoo -1 Dem 0 Ind 1 Rep
margins, at(educ40 = (-1(1)2) party30 = (-1(1)1))
marginplot, legend(position(11) ring(0) col(1) size(small) rowgap(*.01) ///
    symxsize(*.4)) ///
    title("{bf:(C)} CERA/CAFOR 11 regional surveys", ///
        position(11) size(medsmall)) xtitle("") ytitle("") ///
    plot1opts(lpattern(longdash) lwidth(medium) msymbol(O) ///
        mlwidth(medium)) ///
    plot2opts(lpattern(solid) lwidth(medium) msymbol(i) ///
        mlwidth(medium) lcolor(dkgreen) mcolor(dkgreen)) ///
    plot3opts(lpattern(dash) lwidth(medium) msymbol(Sh) ///
        mlwidth(medium) lcolor(maroon) mcolor(maroon)) ///
    xlabel(-1 "<= HS" 0 "Some coll" 1 "College" 2 "Postgrad") ///
    xscale(range(-1.1 2.1)) recastci(rarea) ciopts(color(gs14)) ///
    ci2opts(color(gs13)) ci3opts(color(gs14)) ylabel(.2(.1).9, grid gmin gmax)

```

Figure 3D

(Under terms of human-subjects agreements the GSP survey microdata are not published; contact Lawrence.Hamilton@unh.edu with questions.)

```

svy: logit warmop2d age3 sex2 c.educ40##c.party30 anomnh year ib1.season, nolog or
quietly margins, at(educ40 = (-1(1)2) party30 = (-1(1)1))
marginplot, legend(position(11) ring(0) col(1) size(small) rowgap(*.01)
    symxsize(*.4)) ///
    title("{bf:(D)} GSP New Hampshire 21 surveys", ///
        position(11) size(medsmall)) xtitle("") ytitle("") ///
    plot1opts(lpattern(longdash) lwidth(medium) msymbol(O) ///
        mlwidth(medium)) ///
    plot2opts(lpattern(solid) lwidth(medium) msymbol(i) ///
        mlwidth(medium) lcolor(dkgreen) mcolor(dkgreen)) ///
    plot3opts(lpattern(dash) lwidth(medium) msymbol(Sh) ///
        mlwidth(medium) lcolor(maroon) mcolor(maroon)) ///
    xlabel(-1 "<= HS" 0 "Some coll" 1 "College" 2 "Postgrad") ///
    xscale(range(-1.1 2.1)) recastci(rarea) ciopts(color(gs14)) ///
    ci2opts(color(gs13)) ci3opts(color(gs14)) ylabel(.2(.1).9, grid gmin gmax)

```