

ViEWS monthly estimate tables, October 2018

Online appendix to "ViEWS: A political Violence Early Warning System" *

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Contents

1	Overview of country-level ensemble	3
2	Country-level (cm)	5
2.1	ds_cm_canon_base	5
2.1.1	sb_fcast	5
2.1.2	ns_fcast	7
2.1.3	os_fcast	8
2.1.4	sb_eval	9
2.1.5	ns_eval	10
2.1.6	os_eval	11
2.2	ds_cm_canon_mean	12
2.2.1	sb_fcast	12
2.2.2	ns_fcast	13
2.2.3	os_fcast	14
2.2.4	sb_eval	15
2.2.5	ns_eval	16
2.2.6	os_eval	17
2.3	ds_cm_canon_demog	18
2.3.1	sb_fcast	18
2.3.2	ns_fcast	19
2.3.3	os_fcast	20
2.3.4	sb_eval	21
2.3.5	ns_eval	22
2.3.6	os_eval	23
2.4	ds_cm_canon_eco	24
2.4.1	sb_fcast	24
2.4.2	ns_fcast	25
2.4.3	os_fcast	26
2.4.4	sb_eval	27
2.4.5	ns_eval	28
2.4.6	os_eval	29
2.5	ds_cm_canon_hist	30
2.5.1	sb_fcast	30
2.5.2	ns_fcast	31
2.5.3	os_fcast	32

2.5.4	sb_eval	33
2.5.5	ns_eval	34
2.5.6	os_eval	35
2.6	ds_cm_canon_inst	36
2.6.1	sb_fcast	36
2.6.2	ns_fcast	37
2.6.3	os_fcast	38
2.6.4	sb_eval	39
2.6.5	ns_eval	40
2.6.6	os_eval	41
2.7	ds_cm_acled_base	42
2.7.1	sb_fcast	42
2.7.2	ns_fcast	44
2.7.3	os_fcast	45
2.7.4	pr_fcast	46
2.7.5	sb_eval	47
2.7.6	ns_eval	48
2.7.7	os_eval	49
2.7.8	pr_eval	50
2.8	osa_cm_canon_base_logit	51
2.8.1	sb_fcast	51
2.8.2	ns_fcast	53
2.8.3	os_fcast	54
2.8.4	sb_eval	55
2.8.5	ns_eval	56
2.8.6	os_eval	57
2.9	osa_cm_canon_base_rf	58
2.9.1	sb_fcast	58
2.9.2	ns_fcast	59
2.9.3	os_fcast	60
2.9.4	sb_eval	61
2.9.5	ns_eval	62
2.9.6	os_eval	63
2.10	osa_cm_acled_base_logit	64
2.10.1	sb_fcast	65
2.10.2	ns_fcast	66

2.10.3	os_fcast	67
2.10.4	pr_fcast	68
2.10.5	sb_eval	69
2.10.6	ns_eval	70
2.10.7	os_eval	71
2.10.8	pr_eval	72
2.11	osa_cm_acled_base_rf	73
2.11.1	sb_fcast	73
2.11.2	ns_fcast	74
2.11.3	os_fcast	75
2.11.4	pr_fcast	76
2.11.5	sb_eval	77
2.11.6	ns_eval	78
2.11.7	os_eval	79
2.11.8	pr_eval	80
3	Overview of pgm-level ensemble	81
4	PRIOGRID-level (pgm)	83
4.1	ds_pgm_canon_wcm	83
4.1.1	sb_fcast	83
4.1.2	ns_fcast	85
4.1.3	os_fcast	87
4.1.4	sb_eval	89
4.1.5	ns_eval	91
4.1.6	os_eval	93
4.2	ds_pgm_canon_nocm	95
4.2.1	sb_fcast	95
4.2.2	ns_fcast	97
4.2.3	os_fcast	98
4.2.4	sb_eval	99
4.2.5	ns_eval	100
4.2.6	os_eval	101
4.3	ds_pgm_acled_wcm	102
4.3.1	sb_fcast	102
4.3.2	ns_fcast	104
4.3.3	os_fcast	106

4.3.4	pr_fcast	108
4.3.5	sb_eval	110
4.3.6	ns_eval	112
4.3.7	os_eval	114
4.3.8	pr_eval	116
4.4	ds_pgm_acled_nocm	118
4.4.1	sb_fcast	118
4.4.2	ns_fcast	120
4.4.3	os_fcast	121
4.4.4	pr_fcast	122
4.4.5	sb_eval	123
4.4.6	ns_eval	124
4.4.7	os_eval	125
4.4.8	pr_eval	126
4.5	ds_pgm_acled_soc	127
4.5.1	sb_fcast	127
4.5.2	ns_fcast	128
4.5.3	os_fcast	129
4.5.4	pr_fcast	130
4.5.5	sb_eval	131
4.5.6	ns_eval	132
4.5.7	os_eval	133
4.5.8	pr_eval	134
4.6	ds_pgm_acled_nat	135
4.6.1	sb_fcast	135
4.6.2	ns_fcast	136
4.6.3	os_fcast	137
4.6.4	pr_fcast	138
4.6.5	sb_eval	139
4.6.6	ns_eval	140
4.6.7	os_eval	141
4.6.8	pr_eval	142
4.7	ds_pgm_acled_mean	143
4.7.1	sb_fcast	143
4.7.2	ns_fcast	144
4.7.3	os_fcast	145

4.7.4	pr_fcast	146
4.7.5	sb_eval	147
4.7.6	ns_eval	148
4.7.7	os_eval	149
4.7.8	pr_eval	150
4.8	ds_pgm_acled_histonly	151
4.8.1	sb_fcast	151
4.8.2	ns_fcast	153
4.8.3	os_fcast	154
4.8.4	pr_fcast	155
4.8.5	sb_eval	156
4.8.6	ns_eval	157
4.8.7	os_eval	158
4.8.8	pr_eval	159
4.9	osa_pgm_canon_wcm_logit	160
4.9.1	sb_fcast	160
4.9.2	ns_fcast	162
4.9.3	os_fcast	164
4.9.4	sb_eval	166
4.9.5	ns_eval	168
4.9.6	os_eval	170
4.10	osa_pgm_canon_wcm_rf	172
4.10.1	sb_fcast	172
4.10.2	ns_fcast	173
4.10.3	os_fcast	174
4.10.4	sb_eval	175
4.10.5	ns_eval	176
4.10.6	os_eval	177
4.11	osa_pgm_canon_nocm_logit	178
4.11.1	sb_fcast	179
4.11.2	ns_fcast	180
4.11.3	os_fcast	181
4.11.4	sb_eval	182
4.11.5	ns_eval	183
4.11.6	os_eval	184
4.12	osa_pgm_canon_nocm_rf	185

4.12.1	sb_fcast	185
4.12.2	ns_fcast	186
4.12.3	os_fcast	187
4.12.4	sb_eval	188
4.12.5	ns_eval	189
4.12.6	os_eval	190
4.13	osa_pgm_acled_wcm_logit	191
4.13.1	sb_fcast	192
4.13.2	ns_fcast	194
4.13.3	os_fcast	196
4.13.4	pr_fcast	198
4.13.5	sb_eval	200
4.13.6	ns_eval	202
4.13.7	os_eval	204
4.13.8	pr_eval	206
4.14	osa_pgm_acled_wcm_rf	208
4.14.1	sb_fcast	208
4.14.2	ns_fcast	209
4.14.3	os_fcast	210
4.14.4	pr_fcast	211
4.14.5	sb_eval	212
4.14.6	ns_eval	213
4.14.7	os_eval	214
4.14.8	pr_eval	215
4.15	osa_pgm_acled_nocm_logit	216
4.15.1	sb_fcast	216
4.15.2	ns_fcast	218
4.15.3	os_fcast	219
4.15.4	pr_fcast	220
4.15.5	sb_eval	221
4.15.6	ns_eval	222
4.15.7	os_eval	223
4.15.8	pr_eval	224
4.16	osa_pgm_acled_nocm_rf	225
4.16.1	sb_fcast	225
4.16.2	ns_fcast	226

4.16.3	os_fcast	227
4.16.4	pr_fcast	228
4.16.5	sb_eval	229
4.16.6	ns_eval	230
4.16.7	os_eval	231
4.16.8	pr_eval	232
4.17	osa_pgm_acled_soc_logit	233
4.17.1	sb_fcast	233
4.17.2	ns_fcast	234
4.17.3	os_fcast	235
4.17.4	pr_fcast	236
4.17.5	sb_eval	237
4.17.6	ns_eval	238
4.17.7	os_eval	239
4.17.8	pr_eval	240
4.18	osa_pgm_acled_soc_rf	241
4.18.1	sb_fcast	241
4.18.2	ns_fcast	242
4.18.3	os_fcast	243
4.18.4	pr_fcast	244
4.18.5	sb_eval	245
4.18.6	ns_eval	246
4.18.7	os_eval	247
4.18.8	pr_eval	248
4.19	osa_pgm_acled_nat_logit	249
4.19.1	sb_fcast	250
4.19.2	ns_fcast	251
4.19.3	os_fcast	252
4.19.4	pr_fcast	253
4.19.5	sb_eval	254
4.19.6	ns_eval	255
4.19.7	os_eval	256
4.19.8	pr_eval	257
4.20	osa_pgm_acled_nat_rf	258
4.20.1	sb_fcast	258
4.20.2	ns_fcast	259

4.20.3	os_fcast	260
4.20.4	pr_fcast	261
4.20.5	sb_eval	262
4.20.6	ns_eval	263
4.20.7	os_eval	264
4.20.8	pr_eval	265
4.21	osa_pgm_acled_mean_logit	266
4.21.1	sb_fcast	267
4.21.2	ns_fcast	268
4.21.3	os_fcast	269
4.21.4	pr_fcast	270
4.21.5	sb_eval	271
4.21.6	ns_eval	272
4.21.7	os_eval	273
4.21.8	pr_eval	274
4.22	osa_pgm_acled_mean_rf	275
4.22.1	sb_fcast	275
4.22.2	ns_fcast	276
4.22.3	os_fcast	277
4.22.4	pr_fcast	278
4.22.5	sb_eval	279
4.22.6	ns_eval	280
4.22.7	os_eval	281
4.22.8	pr_eval	282
4.23	osa_pgm_acled_histonly_logit	283
4.23.1	sb_fcast	283
4.23.2	ns_fcast	285
4.23.3	os_fcast	286
4.23.4	pr_fcast	287
4.23.5	sb_eval	288
4.23.6	ns_eval	289
4.23.7	os_eval	290
4.23.8	pr_eval	291
4.24	osa_pgm_acled_histonly_rf	292
4.24.1	sb_fcast	292
4.24.2	ns_fcast	293

4.24.3	os_fcast	294
4.24.4	pr_fcast	295
4.24.5	sb_eval	296
4.24.6	ns_eval	297
4.24.7	os_eval	298
4.24.8	pr_eval	299

1 Overview of country-level ensemble

Model name
ds_cm_acled_base_eval_test_sb
ds_cm_canon_base_eval_test_sb
ds_cm_canon_mean_eval_test_sb
ds_cm_canon_demog_eval_test_sb
ds_cm_canon_eco_eval_test_sb
ds_cm_canon_hist_eval_test_sb
ds_cm_canon_inst_eval_test_sb
ds_cm_canon_protest_eval_test_sb
osa_cm_acled_base_eval_test_logit_fullsample_sb
osa_cm_canon_base_eval_test_logit_fullsample_sb
osa_cm_canon_mean_eval_test_logit_fullsample_sb
osa_cm_canon_eco_eval_test_logit_fullsample_sb
osa_cm_canon_hist_eval_test_logit_fullsample_sb
osa_cm_canon_inst_eval_test_logit_fullsample_sb
osa_cm_canon_protest_eval_test_logit_fullsample_sb
osa_cm_acled_base_eval_test_rf_downsampled_sb
osa_cm_canon_base_eval_test_rf_downsampled_sb
osa_cm_canon_demog_eval_test_logit_fullsample_sb
osa_cm_canon_mean_eval_test_rf_downsampled_sb
osa_cm_canon_demog_eval_test_rf_downsampled_sb
osa_cm_canon_eco_eval_test_rf_downsampled_sb
osa_cm_canon_hist_eval_test_rf_downsampled_sb
osa_cm_canon_inst_eval_test_rf_downsampled_sb
osa_cm_canon_protest_eval_test_rf_downsampled_sb

Table 1: Models in country-level ensemble

Table 1 shows all the constituent models in the *cm*-level ensemble. Models are named according the following convention:

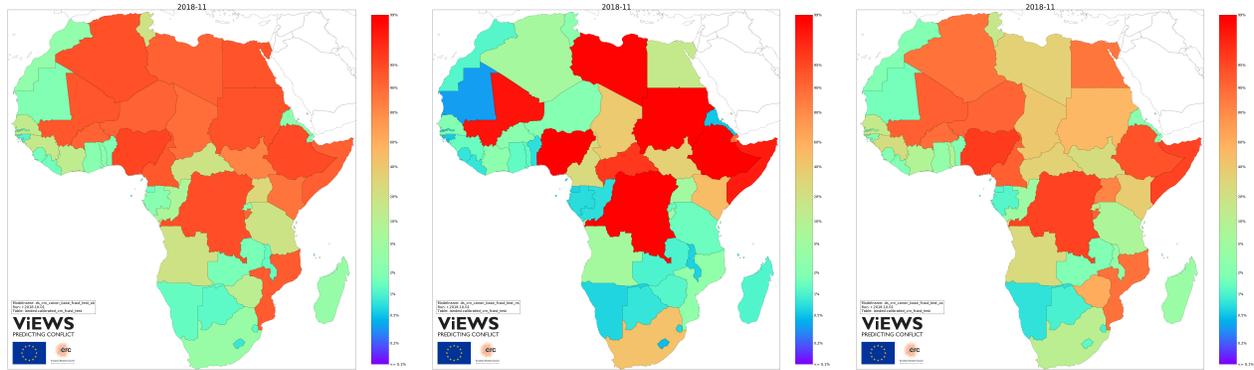
- ‘ds’ and ‘osa’ refers to the way the model handles dynamics (see methodology section in main paper).
- ‘cm’ refers to the level of analysis.
- ‘acled’ or ‘canon’ denotes whether the models are trained on the period for which we have ACLED data (1997–) or the complete dataset (1990–).
- ‘base’, ‘mean’, ‘demog’, ‘eco’, ‘hist’, ‘inst’, ‘protest’ refers to a theme as listed in Table 2 in the main paper. ‘base’ refers to all themes, ‘mean’ to the baseline, ‘demog’ to

demography theme, 'eco' to economy theme, 'hist' to conflict history theme, 'inst' to institution theme, and 'protest' to protest theme.

- 'logit_fullsample' and 'rf_downsampled' refers to the logit and random forest specifications of 'osa'.
- 'sb' refers to conflict type.

2 Country-level (cm)

2.1 ds_cm_canon_base



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 1: Forecasts for October 2018

2.1.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	17293
Model:	Logit	Df Residuals:	17262
Method:	MLE	Df Model:	30
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.6517
Time:	02:44:30	Log-Likelihood:	-2606.1
converged:	True	LL-Null:	-7482.9

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-8.1039	0.701	-11.556	0.000	-9.478	-6.729
l2_ged_dummy_sb	0.5232	0.091	5.757	0.000	0.345	0.701
l3_ged_dummy_sb	0.5875	0.091	6.427	0.000	0.408	0.767
l4_ged_dummy_sb	0.3868	0.094	4.119	0.000	0.203	0.571
l5_ged_dummy_sb	0.0624	0.098	0.640	0.522	-0.129	0.254
l6_ged_dummy_sb	0.3507	0.098	3.590	0.000	0.159	0.542
l7_ged_dummy_sb	0.2014	0.100	2.019	0.044	0.006	0.397
l8_ged_dummy_sb	0.1035	0.102	1.012	0.312	-0.097	0.304
l9_ged_dummy_sb	0.1194	0.103	1.155	0.248	-0.083	0.322
l10_ged_dummy_sb	0.1238	0.104	1.192	0.233	-0.080	0.327
l11_ged_dummy_sb	0.0786	0.105	0.751	0.453	-0.127	0.284
l12_ged_dummy_sb	0.2728	0.100	2.729	0.006	0.077	0.469
l1_ged_dummy_sb	1.0029	0.092	10.903	0.000	0.823	1.183
l1_ged_dummy_ns	0.1142	0.135	0.847	0.397	-0.150	0.379
l1_ged_dummy_os	0.6032	0.102	5.903	0.000	0.403	0.804
decay_l2_cw_ged_dummy_sb_0	2.9432	0.197	14.907	0.000	2.556	3.330
decay_l2_cw_ged_dummy_ns_0	0.0348	0.142	0.246	0.806	-0.243	0.313
decay_l2_cw_ged_dummy_os_0	0.4013	0.158	2.536	0.011	0.091	0.711
fvp_lngdpcap_nonoilrent	0.2440	0.082	2.976	0.003	0.083	0.405
fvp_lngdpcap_oilrent	0.0212	0.019	1.137	0.256	-0.015	0.058
fvp_grgdpcap_oilrent	-0.0904	0.096	-0.945	0.345	-0.278	0.097
fvp_grgdpcap_nonoilrent	-0.6847	0.297	-2.305	0.021	-1.267	-0.102
ln_fvp_timeindep	-0.0038	0.102	-0.037	0.971	-0.204	0.197
ln_fvp_timesincepreindepwar	0.0104	0.089	0.117	0.907	-0.163	0.184
ln_fvp_timesinceregimechange	-0.0743	0.047	-1.579	0.114	-0.166	0.018
fvp_demo	-0.3205	0.124	-2.588	0.010	-0.563	-0.078
fvp_semi	-0.0831	0.107	-0.776	0.438	-0.293	0.127
fvp_prop_excluded	-0.0183	0.172	-0.107	0.915	-0.356	0.319
ln_fvp_population200	0.1887	0.042	4.508	0.000	0.107	0.271
ssp2_edu_sec_15_24_prop	-0.6786	0.324	-2.095	0.036	-1.313	-0.044
ssp2_urban_share_iiasa	-0.0037	0.003	-1.082	0.279	-0.010	0.003

2.1.2 ns_fcast

Dep. Variable:		ged_dummy_ns	No. Observations:		17293	
Model:		Logit	Df Residuals:		17262	
Method:		MLE	Df Model:		30	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.5867	
Time:		02:44:30	Log-Likelihood:		-2028.1	
converged:		True	LL-Null:		-4907.1	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-8.6428	0.733	-11.787	0.000	-10.080	-7.206
l2_ged_dummy_ns	0.4819	0.098	4.913	0.000	0.290	0.674
l3_ged_dummy_ns	0.3233	0.099	3.273	0.001	0.130	0.517
l4_ged_dummy_ns	0.1580	0.101	1.571	0.116	-0.039	0.355
l5_ged_dummy_ns	0.1008	0.102	0.988	0.323	-0.099	0.301
l6_ged_dummy_ns	0.4798	0.101	4.764	0.000	0.282	0.677
l7_ged_dummy_ns	0.3224	0.102	3.162	0.002	0.123	0.522
l8_ged_dummy_ns	0.0387	0.105	0.369	0.712	-0.167	0.244
l9_ged_dummy_ns	0.0880	0.106	0.830	0.407	-0.120	0.296
l10_ged_dummy_ns	0.1818	0.106	1.714	0.087	-0.026	0.390
l11_ged_dummy_ns	0.2703	0.106	2.544	0.011	0.062	0.479
l12_ged_dummy_ns	0.3198	0.104	3.082	0.002	0.116	0.523
l1_ged_dummy_sb	0.0376	0.134	0.282	0.778	-0.224	0.299
l1_ged_dummy_ns	0.6668	0.101	6.606	0.000	0.469	0.865
l1_ged_dummy_os	0.0549	0.117	0.469	0.639	-0.175	0.285
decay_l2_cw_ged_dummy_sb_0	0.1742	0.183	0.953	0.341	-0.184	0.533
decay_l2_cw_ged_dummy_ns_0	3.4932	0.226	15.448	0.000	3.050	3.936
decay_l2_cw_ged_dummy_os_0	0.6603	0.189	3.496	0.000	0.290	1.030
fvp_lngdpcap_nonoilrent	0.1430	0.083	1.718	0.086	-0.020	0.306
fvp_lngdpcap_oilrent	-0.0008	0.022	-0.037	0.971	-0.044	0.042
fvp_grgdpcap_oilrent	-0.1848	0.123	-1.504	0.133	-0.426	0.056
fvp_grgdpcap_nonoilrent	-1.1788	0.297	-3.968	0.000	-1.761	-0.597
ln_fvp_timeindep	0.0831	0.108	0.766	0.444	-0.129	0.296
ln_fvp_timesincepreindepwar	-0.0148	0.100	-0.149	0.882	-0.211	0.181
ln_fvp_timesinceregimechange	-0.0010	0.052	-0.020	0.984	-0.104	0.102
fvp_demo	-0.0785	0.149	-0.526	0.599	-0.371	0.214
fvp_semi	-0.0879	0.132	-0.667	0.505	-0.346	0.170
fvp_prop_excluded	-0.2368	0.242	-0.980	0.327	-0.711	0.237
ln_fvp_population200	0.1745	0.047	3.686	0.000	0.082	0.267
ssp2_edu_sec_15_24_prop	-0.1060	0.330	-0.321	0.748	-0.754	0.542
ssp2_urban_share_iiasa	0.0032	0.004	0.791	0.429	-0.005	0.011

2.1.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	17293
Model:	Logit	Df Residuals:	17262
Method:	MLE	Df Model:	30
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.5586
Time:	02:44:30	Log-Likelihood:	-3105.8
converged:	True	LL-Null:	-7035.6

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-4.0126	0.588	-6.824	0.000	-5.165	-2.860
l2_ged_dummy_os	0.5655	0.081	6.943	0.000	0.406	0.725
l3_ged_dummy_os	0.3954	0.083	4.776	0.000	0.233	0.558
l4_ged_dummy_os	0.3173	0.084	3.765	0.000	0.152	0.483
l5_ged_dummy_os	0.2788	0.086	3.258	0.001	0.111	0.447
l6_ged_dummy_os	0.1230	0.087	1.409	0.159	-0.048	0.294
l7_ged_dummy_os	0.0137	0.089	0.154	0.877	-0.160	0.188
l8_ged_dummy_os	0.0927	0.089	1.042	0.298	-0.082	0.267
l9_ged_dummy_os	0.1857	0.089	2.087	0.037	0.011	0.360
l10_ged_dummy_os	0.2129	0.089	2.388	0.017	0.038	0.388
l11_ged_dummy_os	-0.0268	0.090	-0.298	0.766	-0.203	0.149
l12_ged_dummy_os	0.2850	0.087	3.289	0.001	0.115	0.455
l1_ged_dummy_sb	0.4290	0.100	4.304	0.000	0.234	0.624
l1_ged_dummy_ns	0.2451	0.115	2.137	0.033	0.020	0.470
l1_ged_dummy_os	0.9674	0.083	11.666	0.000	0.805	1.130
decay_l2_cw_ged_dummy_sb_0	0.7172	0.142	5.044	0.000	0.439	0.996
decay_l2_cw_ged_dummy_ns_0	0.2362	0.125	1.886	0.059	-0.009	0.482
decay_l2_cw_ged_dummy_os_0	2.1713	0.178	12.225	0.000	1.823	2.519
fvp_lngdpcap_nonoilrent	-0.3837	0.070	-5.509	0.000	-0.520	-0.247
fvp_lngdpcap_oilrent	0.0289	0.017	1.699	0.089	-0.004	0.062
fvp_grgdpcap_oilrent	-0.1949	0.098	-1.987	0.047	-0.387	-0.003
fvp_grgdpcap_nonoilrent	-0.3277	0.223	-1.468	0.142	-0.765	0.110
ln_fvp_timeindep	-0.1534	0.087	-1.762	0.078	-0.324	0.017
ln_fvp_timesincepreindepwar	0.2743	0.079	3.471	0.001	0.119	0.429
ln_fvp_timesinceregimechange	-0.0113	0.042	-0.271	0.786	-0.093	0.070
fvp_demo	-0.2119	0.118	-1.803	0.071	-0.442	0.019
fvp_semi	-0.0587	0.099	-0.592	0.554	-0.253	0.136
fvp_prop_excluded	0.1846	0.141	1.305	0.192	-0.093	0.462
ln_fvp_population200	0.1459	0.038	3.815	0.000	0.071	0.221
ssp2_edu_sec_15_24_prop	0.5657	0.271	2.086	0.037	0.034	1.097
ssp2_urban_share_iiasa	0.0036	0.003	1.142	0.253	-0.003	0.010

2.1.4 sb_eval

Dep. Variable:		ged_dummy_sb	No. Observations:		14917	
Model:		Logit	Df Residuals:		14886	
Method:		MLE	Df Model:		30	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.6456	
Time:		02:44:35	Log-Likelihood:		-2158.5	
converged:		True	LL-Null:		-6090.8	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-9.4388	0.857	-11.016	0.000	-11.118	-7.760
l2_ged_dummy_sb	0.5065	0.099	5.093	0.000	0.312	0.701
l3_ged_dummy_sb	0.5962	0.100	5.974	0.000	0.401	0.792
l4_ged_dummy_sb	0.3432	0.103	3.339	0.001	0.142	0.545
l5_ged_dummy_sb	0.0625	0.107	0.586	0.558	-0.146	0.271
l6_ged_dummy_sb	0.2473	0.107	2.305	0.021	0.037	0.458
l7_ged_dummy_sb	0.2271	0.109	2.088	0.037	0.014	0.440
l8_ged_dummy_sb	0.0693	0.112	0.621	0.534	-0.149	0.288
l9_ged_dummy_sb	0.0835	0.112	0.743	0.457	-0.137	0.304
l10_ged_dummy_sb	0.1533	0.112	1.365	0.172	-0.067	0.374
l11_ged_dummy_sb	0.0688	0.114	0.605	0.545	-0.154	0.291
l12_ged_dummy_sb	0.3050	0.108	2.814	0.005	0.093	0.518
l1_ged_dummy_sb	1.0284	0.101	10.195	0.000	0.831	1.226
l1_ged_dummy_ns	0.1522	0.151	1.005	0.315	-0.144	0.449
l1_ged_dummy_os	0.5940	0.114	5.226	0.000	0.371	0.817
decay_l2_cw_ged_dummy_sb_0	3.1075	0.220	14.136	0.000	2.677	3.538
decay_l2_cw_ged_dummy_ns_0	-0.0494	0.159	-0.310	0.756	-0.362	0.263
decay_l2_cw_ged_dummy_os_0	0.4536	0.176	2.579	0.010	0.109	0.798
fvp_lngdpcap_nonoilrent	0.3933	0.098	4.031	0.000	0.202	0.585
fvp_lngdpcap_oilrent	0.0140	0.021	0.664	0.507	-0.027	0.055
fvp_grgdpcap_oilrent	-0.0686	0.105	-0.654	0.513	-0.274	0.137
fvp_grgdpcap_nonoilrent	-0.9750	0.327	-2.984	0.003	-1.616	-0.335
ln_fvp_timeindep	0.0515	0.112	0.459	0.646	-0.168	0.271
ln_fvp_timesincepreindepwar	-0.0221	0.097	-0.228	0.819	-0.212	0.168
ln_fvp_timesinceregimechange	-0.1321	0.057	-2.299	0.021	-0.245	-0.019
fvp_demo	-0.4279	0.137	-3.121	0.002	-0.697	-0.159
fvp_semi	-0.1028	0.116	-0.883	0.377	-0.331	0.125
fvp_prop_excluded	0.0146	0.181	0.080	0.936	-0.341	0.370
ln_fvp_population200	0.2338	0.050	4.651	0.000	0.135	0.332
ssp2_edu_sec_15_24_prop	-1.2749	0.397	-3.209	0.001	-2.054	-0.496
ssp2_urban_share_iiasa	-0.0051	0.004	-1.334	0.182	-0.013	0.002

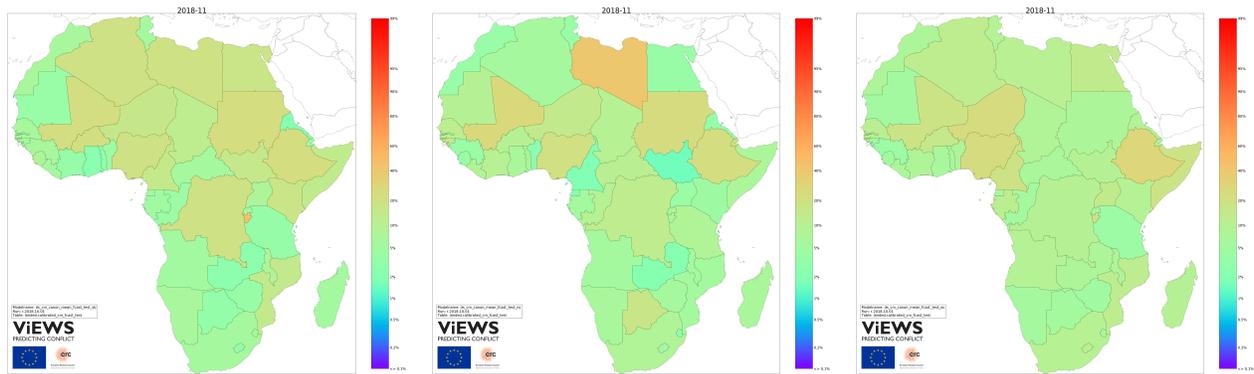
2.1.5 ns_eval

Dep. Variable:		ged_dummy_ns	No. Observations:		14917	
Model:		Logit	Df Residuals:		14886	
Method:		MLE	Df Model:		30	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.5666	
Time:		02:44:35	Log-Likelihood:		-1709.4	
converged:		True	LL-Null:		-3944.0	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-9.4967	0.884	-10.749	0.000	-11.228	-7.765
l2_ged_dummy_ns	0.4872	0.106	4.589	0.000	0.279	0.695
l3_ged_dummy_ns	0.2783	0.107	2.602	0.009	0.069	0.488
l4_ged_dummy_ns	0.1730	0.109	1.593	0.111	-0.040	0.386
l5_ged_dummy_ns	0.1178	0.110	1.070	0.284	-0.098	0.333
l6_ged_dummy_ns	0.3936	0.109	3.600	0.000	0.179	0.608
l7_ged_dummy_ns	0.3059	0.110	2.773	0.006	0.090	0.522
l8_ged_dummy_ns	0.0482	0.113	0.427	0.670	-0.173	0.270
l9_ged_dummy_ns	0.1313	0.114	1.153	0.249	-0.092	0.354
l10_ged_dummy_ns	0.1592	0.114	1.391	0.164	-0.065	0.384
l11_ged_dummy_ns	0.2550	0.114	2.229	0.026	0.031	0.479
l12_ged_dummy_ns	0.2827	0.112	2.516	0.012	0.062	0.503
l1_ged_dummy_sb	0.0477	0.149	0.321	0.748	-0.244	0.339
l1_ged_dummy_ns	0.6073	0.110	5.545	0.000	0.393	0.822
l1_ged_dummy_os	-0.0449	0.129	-0.347	0.729	-0.299	0.209
decay_l2_cw_ged_dummy_sb_0	0.1232	0.196	0.629	0.529	-0.261	0.507
decay_l2_cw_ged_dummy_ns_0	3.5569	0.248	14.362	0.000	3.072	4.042
decay_l2_cw_ged_dummy_os_0	0.6833	0.199	3.434	0.001	0.293	1.073
fvp_lngdpcap_nonoilrent	0.2046	0.095	2.152	0.031	0.018	0.391
fvp_lngdpcap_oilrent	-0.0312	0.025	-1.271	0.204	-0.079	0.017
fvp_grgdpcap_oilrent	-0.1979	0.134	-1.475	0.140	-0.461	0.065
fvp_grgdpcap_nonoilrent	-1.5769	0.322	-4.890	0.000	-2.209	-0.945
ln_fvp_timeindep	0.0970	0.117	0.826	0.409	-0.133	0.327
ln_fvp_timesincepreindepwar	-0.0600	0.113	-0.530	0.596	-0.282	0.162
ln_fvp_timesinceregimechange	-0.0244	0.063	-0.384	0.701	-0.149	0.100
fvp_demo	-0.1240	0.172	-0.722	0.470	-0.460	0.212
fvp_semi	-0.1583	0.148	-1.073	0.283	-0.447	0.131
fvp_prop_excluded	-0.1128	0.259	-0.436	0.663	-0.620	0.394
ln_fvp_population200	0.2563	0.059	4.344	0.000	0.141	0.372
ssp2_edu_sec_15_24_prop	-0.3130	0.384	-0.815	0.415	-1.066	0.439
ssp2_urban_share_iiasa	0.0022	0.004	0.512	0.609	-0.006	0.011

2.1.6 os_eval

Dep. Variable:		ged_dummy_os	No. Observations:		14917	
Model:		Logit	Df Residuals:		14886	
Method:		MLE	Df Model:		30	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.5516	
Time:		02:44:35	Log-Likelihood:		-2587.6	
converged:		True	LL-Null:		-5770.9	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-4.3501	0.713	-6.099	0.000	-5.748	-2.952
l2_ged_dummy_os	0.5820	0.089	6.522	0.000	0.407	0.757
l3_ged_dummy_os	0.3939	0.091	4.346	0.000	0.216	0.572
l4_ged_dummy_os	0.2793	0.093	3.019	0.003	0.098	0.461
l5_ged_dummy_os	0.2648	0.094	2.819	0.005	0.081	0.449
l6_ged_dummy_os	0.1831	0.095	1.920	0.055	-0.004	0.370
l7_ged_dummy_os	-0.0625	0.098	-0.640	0.522	-0.254	0.129
l8_ged_dummy_os	0.1841	0.097	1.901	0.057	-0.006	0.374
l9_ged_dummy_os	0.2091	0.097	2.151	0.031	0.019	0.400
l10_ged_dummy_os	0.2134	0.098	2.186	0.029	0.022	0.405
l11_ged_dummy_os	-0.0861	0.099	-0.872	0.383	-0.280	0.107
l12_ged_dummy_os	0.2678	0.095	2.822	0.005	0.082	0.454
l1_ged_dummy_sb	0.4329	0.111	3.885	0.000	0.215	0.651
l1_ged_dummy_ns	0.2384	0.128	1.855	0.064	-0.013	0.490
l1_ged_dummy_os	0.9639	0.091	10.577	0.000	0.785	1.142
decay_l2_cw_ged_dummy_sb_0	0.6584	0.157	4.201	0.000	0.351	0.966
decay_l2_cw_ged_dummy_ns_0	0.2116	0.141	1.505	0.132	-0.064	0.487
decay_l2_cw_ged_dummy_os_0	2.3285	0.197	11.834	0.000	1.943	2.714
fvp_lngdpcap_nonoilrent	-0.3427	0.083	-4.148	0.000	-0.505	-0.181
fvp_lngdpcap_oilrent	0.0166	0.019	0.870	0.384	-0.021	0.054
fvp_grgdpcap_oilrent	-0.0960	0.108	-0.892	0.373	-0.307	0.115
fvp_grgdpcap_nonoilrent	-0.5271	0.254	-2.072	0.038	-1.026	-0.029
ln_fvp_timeindep	-0.1817	0.094	-1.927	0.054	-0.367	0.003
ln_fvp_timesincepreindepwar	0.2488	0.087	2.859	0.004	0.078	0.419
ln_fvp_timesinceregimechange	0.0086	0.051	0.171	0.864	-0.090	0.108
fvp_demo	-0.2293	0.131	-1.753	0.080	-0.486	0.027
fvp_semi	-0.0633	0.107	-0.592	0.554	-0.273	0.146
fvp_prop_excluded	0.2052	0.150	1.369	0.171	-0.089	0.499
ln_fvp_population200	0.1596	0.046	3.451	0.001	0.069	0.250
ssp2_edu_sec_15_24_prop	0.4204	0.326	1.291	0.197	-0.218	1.059
ssp2_urban_share_iiasa	0.0046	0.004	1.317	0.188	-0.002	0.011

2.2 ds_cm_canon_mean



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 2: Forecasts for October 2018

2.2.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	17941			
Model:	Logit	Df Residuals:	17939			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3431			
Time:	02:45:45	Log-Likelihood:	-5067.1			
converged:	True	LL-Null:	-7714.1			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-3.4258	0.044	-77.014	0.000	-3.513	-3.339
mean_ged_dummy_sb	10.1379	0.172	58.834	0.000	9.800	10.476

2.2.2 ns_fcast

Dep. Variable:	ged_dummy_ns	No. Observations:	17941			
Model:	Logit	Df Residuals:	17939			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3556			
Time:	02:45:45	Log-Likelihood:	-3230.5			
converged:	True	LL-Null:	-5012.9			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-3.8452	0.052	-74.574	0.000	-3.946	-3.744
mean_ged_dummy_ns	11.3544	0.215	52.847	0.000	10.933	11.776

2.2.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	17941			
Model:	Logit	Df Residuals:	17939			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.2766			
Time:	02:45:45	Log-Likelihood:	-5265.1			
converged:	True	LL-Null:	-7278.6			
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-3.4010	0.045	-75.134	0.000	-3.490	-3.312
mean_ged_dummy_os	10.6282	0.205	51.899	0.000	10.227	11.030

2.2.4 sb_eval

Dep. Variable:	ged_dummy_sb	No. Observations:	15565			
Model:	Logit	Df Residuals:	15563			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3572			
Time:	02:45:46	Log-Likelihood:	-4061.8			
converged:	True	LL-Null:	-6319.4			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-3.4480	0.048	-72.458	0.000	-3.541	-3.355
mean_ged_dummy_sb	11.4779	0.209	54.891	0.000	11.068	11.888

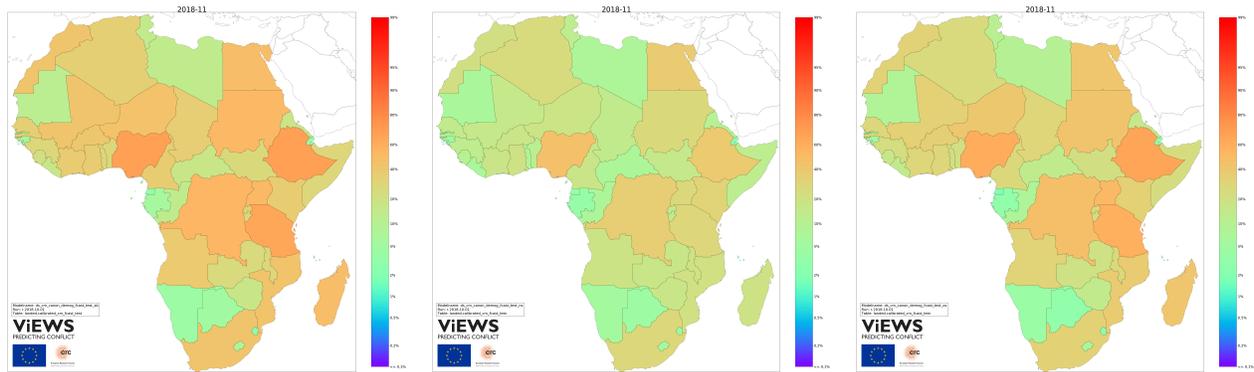
2.2.5 ns_eval

Dep. Variable:	ged_dummy_ns	No. Observations:	15565			
Model:	Logit	Df Residuals:	15563			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3629			
Time:	02:45:46	Log-Likelihood:	-2578.1			
converged:	True	LL-Null:	-4046.6			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-3.9208	0.057	-68.358	0.000	-4.033	-3.808
mean_ged_dummy_ns	12.9886	0.268	48.455	0.000	12.463	13.514

2.2.6 os_eval

Dep. Variable:	ged_dummy_os	No. Observations:	15565			
Model:	Logit	Df Residuals:	15563			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.2823			
Time:	02:45:46	Log-Likelihood:	-4315.9			
converged:	True	LL-Null:	-6013.3			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-3.4597	0.050	-69.862	0.000	-3.557	-3.363
mean_ged_dummy_os	12.2842	0.255	48.223	0.000	11.785	12.783

2.3 ds_cm_canon_demog



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 3: Forecasts for October 2018

2.3.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	17941			
Model:	Logit	Df Residuals:	17937			
Method:	MLE	Df Model:	3			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1144			
Time:	02:44:25	Log-Likelihood:	-6832.0			
converged:	True	LL-Null:	-7714.1			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-8.1050	0.204	-39.738	0.000	-8.505	-7.705
ln_fvp_population200	0.7210	0.020	35.216	0.000	0.681	0.761
ssp2_edu_sec_15_24_prop	-1.5215	0.133	-11.432	0.000	-1.782	-1.261
ssp2_urban_share_iiasa	0.0035	0.002	2.069	0.039	0.000	0.007

2.3.2 ns_fcast

Dep. Variable:	ged_dummy_ns	No. Observations:	17941			
Model:	Logit	Df Residuals:	17937			
Method:	MLE	Df Model:	3			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1736			
Time:	02:44:25	Log-Likelihood:	-4142.7			
converged:	True	LL-Null:	-5012.9			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-11.3971	0.305	-37.397	0.000	-11.994	-10.800
ln_fvp_population200	0.9501	0.030	31.647	0.000	0.891	1.009
ssp2_edu_sec_15_24_prop	0.5695	0.171	3.336	0.001	0.235	0.904
ssp2_urban_share_iiasa	-0.0091	0.002	-4.053	0.000	-0.014	-0.005

2.3.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	17941			
Model:	Logit	Df Residuals:	17937			
Method:	MLE	Df Model:	3			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1028			
Time:	02:44:25	Log-Likelihood:	-6530.5			
converged:	True	LL-Null:	-7278.6			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-7.5124	0.205	-36.677	0.000	-7.914	-7.111
ln_fvp_population200	0.6671	0.021	32.335	0.000	0.627	0.708
ssp2_edu_sec_15_24_prop	-1.2879	0.137	-9.428	0.000	-1.556	-1.020
ssp2_urban_share_iiasa	-0.0033	0.002	-1.871	0.061	-0.007	0.000

2.3.4 sb_eval

Dep. Variable:	ged_dummy_sb	No. Observations:	15565			
Model:	Logit	Df Residuals:	15561			
Method:	MLE	Df Model:	3			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1101			
Time:	02:44:26	Log-Likelihood:	-5623.9			
converged:	True	LL-Null:	-6319.4			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-7.6952	0.224	-34.327	0.000	-8.135	-7.256
ln_fvp_population200	0.6928	0.023	30.514	0.000	0.648	0.737
ssp2_edu_sec_15_24_prop	-2.1825	0.154	-14.179	0.000	-2.484	-1.881
ssp2_urban_share_iiasa	0.0020	0.002	1.065	0.287	-0.002	0.006

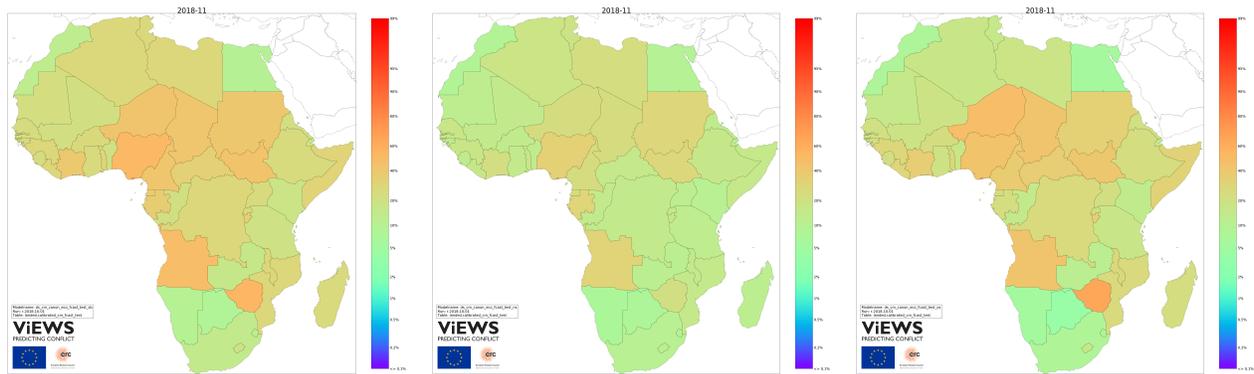
2.3.5 ns_eval

Dep. Variable:	ged_dummy_ns	No. Observations:	15565			
Model:	Logit	Df Residuals:	15561			
Method:	MLE	Df Model:	3			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1930			
Time:	02:44:26	Log-Likelihood:	-3265.7			
converged:	True	LL-Null:	-4046.6			
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-11.9934	0.352	-34.074	0.000	-12.683	-11.304
ln_fvp_population200	1.0320	0.035	29.549	0.000	0.964	1.100
ssp2_edu_sec_15_24_prop	0.6497	0.195	3.330	0.001	0.267	1.032
ssp2_urban_share_iiasa	-0.0178	0.003	-6.854	0.000	-0.023	-0.013

2.3.6 os_eval

Dep. Variable:	ged_dummy_os	No. Observations:	15565			
Model:	Logit	Df Residuals:	15561			
Method:	MLE	Df Model:	3			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.09864			
Time:	02:44:26	Log-Likelihood:	-5420.1			
converged:	True	LL-Null:	-6013.3			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-7.3806	0.224	-32.885	0.000	-7.820	-6.941
ln_fvp_population200	0.6519	0.023	28.691	0.000	0.607	0.696
ssp2_edu_sec_15_24_prop	-1.5548	0.154	-10.085	0.000	-1.857	-1.253
ssp2_urban_share_iiasa	-0.0030	0.002	-1.566	0.117	-0.007	0.001

2.4 ds_cm_canon_eco



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 4: Forecasts for October 2018

2.4.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	17941			
Model:	Logit	Df Residuals:	17936			
Method:	MLE	Df Model:	4			
Date:	Fri, 28 Sep 2018	Pseudo R-squ.:	0.06051			
Time:	16:47:40	Log-Likelihood:	-7247.3			
converged:	True	LL-Null:	-7714.1			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	2.7947	0.212	13.156	0.000	2.378	3.211
fvp_lngdpcap_nonoilrent	-0.6322	0.029	-21.907	0.000	-0.689	-0.576
fvp_lngdpcap_oilrent	0.2161	0.008	26.104	0.000	0.200	0.232
fvp_grgdpcap_oilrent	-0.6214	0.068	-9.160	0.000	-0.754	-0.488
fvp_grgdpcap_nonoilrent	-0.2450	0.112	-2.188	0.029	-0.465	-0.025

2.4.2 ns_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable: ged_dummy_ns						
No. Observations: 17941						
Model: Logit						
Df Residuals: 17936						
Method: MLE						
Df Model: 4						
Date: Fri, 28 Sep 2018						
Pseudo R-squ.: 0.01548						
Time: 16:47:40						
Log-Likelihood: -4935.3						
converged: True						
LL-Null: -5012.9						
Intercept	-1.2460	0.254	-4.900	0.000	-1.744	-0.748
fvp_lngdpcap_nonoilrent	-0.1763	0.034	-5.252	0.000	-0.242	-0.111
fvp_lngdpcap_oilrent	0.1025	0.010	10.063	0.000	0.083	0.122
fvp_grgdpcap_oilrent	-0.5329	0.086	-6.190	0.000	-0.702	-0.364
fvp_grgdpcap_nonoilrent	-0.4784	0.131	-3.641	0.000	-0.736	-0.221

2.4.3 os_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable: ged_dummy_os						
No. Observations: 17941						
Model: Logit						
Df Residuals: 17936						
Method: MLE						
Df Model: 4						
Date: Fri, 28 Sep 2018						
Pseudo R-squ.: 0.07459						
Time: 16:47:40						
Log-Likelihood: -6735.7						
converged: True						
LL-Null: -7278.6						
Intercept	4.5679	0.235	19.435	0.000	4.107	5.029
fvp_lngdpcap_nonoilrent	-0.8780	0.032	-27.144	0.000	-0.941	-0.815
fvp_lngdpcap_oilrent	0.2052	0.009	22.646	0.000	0.187	0.223
fvp_grgdpcap_oilrent	-0.6516	0.073	-8.945	0.000	-0.794	-0.509
fvp_grgdpcap_nonoilrent	-0.2371	0.123	-1.934	0.053	-0.477	0.003

2.4.4 sb_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable: ged_dummy_sb						
No. Observations: 15565						
Model: Logit						
Df Residuals: 15560						
Method: MLE						
Df Model: 4						
Date: Fri, 28 Sep 2018						
Pseudo R-squ.: 0.06251						
Time: 16:42:03						
Log-Likelihood: -5924.4						
converged: True						
LL-Null: -6319.4						
Intercept	3.4616	0.245	14.120	0.000	2.981	3.942
fvp_lngdpcap_nonoilrent	-0.7334	0.034	-21.838	0.000	-0.799	-0.668
fvp_lngdpcap_oilrent	0.2117	0.009	22.374	0.000	0.193	0.230
fvp_grgdpcap_oilrent	-0.4691	0.075	-6.269	0.000	-0.616	-0.322
fvp_grgdpcap_nonoilrent	-0.6098	0.167	-3.655	0.000	-0.937	-0.283

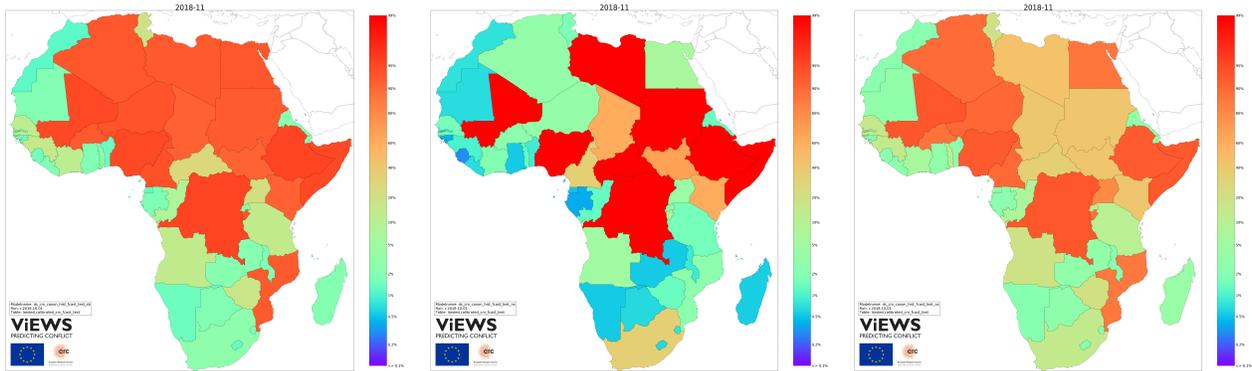
2.4.5 ns_eval

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Dep. Variable:	ged_dummy_ns	No. Observations:	15565			
Model:	Logit	Df Residuals:	15560			
Method:	MLE	Df Model:	4			
Date:	Fri, 28 Sep 2018	Pseudo R-squ.:	0.008103			
Time:	16:42:03	Log-Likelihood:	-4013.8			
converged:	True	LL-Null:	-4046.6			
<hr/>						
	coef	std err	z	P> z	[0.025	0.975]
<hr/>						
Intercept	-1.6196	0.286	-5.661	0.000	-2.180	-1.059
fvp_lngdpcap_nonoilrent	-0.1293	0.038	-3.424	0.001	-0.203	-0.055
fvp_lngdpcap_oilrent	0.0511	0.012	4.235	0.000	0.027	0.075
fvp_grgdpcap_oilrent	-0.3310	0.101	-3.275	0.001	-0.529	-0.133
fvp_grgdpcap_nonoilrent	-0.8534	0.166	-5.134	0.000	-1.179	-0.528
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2.4.6 os_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable: ged_dummy_os						
No. Observations: 15565						
Model: Logit						
Df Residuals: 15560						
Method: MLE						
Df Model: 4						
Date: Fri, 28 Sep 2018						
Pseudo R-squ.: 0.07279						
Time: 16:42:03						
Log-Likelihood: -5575.6						
converged: True						
LL-Null: -6013.3						
Intercept	4.5895	0.265	17.313	0.000	4.070	5.109
fvp_lngdpcap_nonoilrent	-0.8911	0.037	-24.347	0.000	-0.963	-0.819
fvp_lngdpcap_oilrent	0.1928	0.010	18.921	0.000	0.173	0.213
fvp_grgdpcap_oilrent	-0.4464	0.078	-5.723	0.000	-0.599	-0.293
fvp_grgdpcap_nonoilrent	-0.9138	0.188	-4.858	0.000	-1.282	-0.545

2.5 ds_cm_canon_hist



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 5: Forecasts for October 2018

2.5.1 sb_fcst

Dep. Variable:	ged_dummy_sb	No. Observations:	17293			
Model:	Logit	Df Residuals:	17273			
Method:	MLE	Df Model:	19			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.6484			
Time:	02:44:47	Log-Likelihood:	-2630.7			
converged:	True	LL-Null:	-7482.9			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-5.1956	0.118	-43.952	0.000	-5.427	-4.964
l2_ged_dummy_sb	0.5532	0.090	6.119	0.000	0.376	0.730
l3_ged_dummy_sb	0.6154	0.091	6.765	0.000	0.437	0.794
l4_ged_dummy_sb	0.4026	0.094	4.300	0.000	0.219	0.586
l5_ged_dummy_sb	0.0795	0.097	0.817	0.414	-0.111	0.270
l6_ged_dummy_sb	0.3560	0.097	3.654	0.000	0.165	0.547
l7_ged_dummy_sb	0.2158	0.100	2.167	0.030	0.021	0.411
l8_ged_dummy_sb	0.1088	0.102	1.066	0.286	-0.091	0.309
l9_ged_dummy_sb	0.1330	0.103	1.289	0.197	-0.069	0.335
l10_ged_dummy_sb	0.1330	0.104	1.283	0.199	-0.070	0.336
l11_ged_dummy_sb	0.0936	0.104	0.896	0.370	-0.111	0.298
l12_ged_dummy_sb	0.2935	0.100	2.946	0.003	0.098	0.489
q_1_1_l2_ged_dummy_sb	0.0085	0.057	0.150	0.881	-0.103	0.121
q_1_1_l3_ged_dummy_sb	0.0052	0.058	0.091	0.928	-0.108	0.118
l1_ged_dummy_sb	1.0388	0.091	11.424	0.000	0.861	1.217
l1_ged_dummy_ns	0.1203	0.134	0.896	0.370	-0.143	0.383
l1_ged_dummy_os	0.5486	0.101	5.427	0.000	0.350	0.747
decay_l2_cw_ged_dummy_sb_0	3.0012	0.190	15.783	0.000	2.628	3.374
decay_l2_cw_ged_dummy_ns_0	0.2020	0.133	1.524	0.128	-0.058	0.462
decay_l2_cw_ged_dummy_os_0	0.3503	0.150	2.332	0.020	0.056	0.645

2.5.2 ns_fcast

Dep. Variable:	ged_dummy_ns	No. Observations:	17293
Model:	Logit	Df Residuals:	17273
Method:	MLE	Df Model:	19
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.5828
Time:	02:44:47	Log-Likelihood:	-2047.3
converged:	True	LL-Null:	-4907.1

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-5.6788	0.137	-41.547	0.000	-5.947	-5.411
l2_ged_dummy_ns	0.5019	0.098	5.144	0.000	0.311	0.693
l3_ged_dummy_ns	0.3430	0.098	3.482	0.000	0.150	0.536
l4_ged_dummy_ns	0.1752	0.100	1.747	0.081	-0.021	0.372
l5_ged_dummy_ns	0.1133	0.102	1.113	0.266	-0.086	0.313
l6_ged_dummy_ns	0.4877	0.100	4.855	0.000	0.291	0.685
l7_ged_dummy_ns	0.3474	0.101	3.423	0.001	0.148	0.546
l8_ged_dummy_ns	0.0543	0.104	0.520	0.603	-0.150	0.259
l9_ged_dummy_ns	0.1013	0.106	0.958	0.338	-0.106	0.309
l10_ged_dummy_ns	0.2058	0.106	1.943	0.052	-0.002	0.413
l11_ged_dummy_ns	0.2827	0.106	2.665	0.008	0.075	0.491
l12_ged_dummy_ns	0.3366	0.104	3.250	0.001	0.134	0.540
q_1_1_l2_ged_dummy_ns	0.0425	0.068	0.623	0.533	-0.091	0.176
q_1_1_l3_ged_dummy_ns	0.0690	0.069	1.003	0.316	-0.066	0.204
l1_ged_dummy_sb	0.1608	0.132	1.220	0.223	-0.098	0.419
l1_ged_dummy_ns	0.6725	0.100	6.729	0.000	0.477	0.868
l1_ged_dummy_os	0.0170	0.115	0.148	0.882	-0.208	0.242
decay_l2_cw_ged_dummy_sb_0	-0.0512	0.173	-0.296	0.767	-0.390	0.287
decay_l2_cw_ged_dummy_ns_0	3.6476	0.217	16.831	0.000	3.223	4.072
decay_l2_cw_ged_dummy_os_0	0.6054	0.177	3.414	0.001	0.258	0.953

2.5.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	17293
Model:	Logit	Df Residuals:	17273
Method:	MLE	Df Model:	19
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.5543
Time:	02:44:47	Log-Likelihood:	-3135.7
converged:	True	LL-Null:	-7035.6

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-4.9341	0.105	-47.151	0.000	-5.139	-4.729
l2_ged_dummy_os	0.5531	0.081	6.802	0.000	0.394	0.712
l3_ged_dummy_os	0.4070	0.083	4.916	0.000	0.245	0.569
l4_ged_dummy_os	0.3299	0.084	3.923	0.000	0.165	0.495
l5_ged_dummy_os	0.3007	0.085	3.518	0.000	0.133	0.468
l6_ged_dummy_os	0.1325	0.087	1.518	0.129	-0.039	0.304
l7_ged_dummy_os	0.0343	0.089	0.386	0.700	-0.140	0.209
l8_ged_dummy_os	0.1095	0.089	1.229	0.219	-0.065	0.284
l9_ged_dummy_os	0.1960	0.089	2.202	0.028	0.022	0.371
l10_ged_dummy_os	0.2236	0.089	2.506	0.012	0.049	0.398
l11_ged_dummy_os	-0.0154	0.090	-0.171	0.865	-0.192	0.161
l12_ged_dummy_os	0.3087	0.087	3.566	0.000	0.139	0.478
q_1_1_l2_ged_dummy_os	0.1663	0.049	3.372	0.001	0.070	0.263
q_1_1_l3_ged_dummy_os	-0.0615	0.050	-1.239	0.215	-0.159	0.036
l1_ged_dummy_sb	0.4750	0.098	4.870	0.000	0.284	0.666
l1_ged_dummy_ns	0.2075	0.113	1.832	0.067	-0.015	0.429
l1_ged_dummy_os	0.9582	0.082	11.638	0.000	0.797	1.120
decay_l2_cw_ged_dummy_sb_0	0.5092	0.136	3.755	0.000	0.243	0.775
decay_l2_cw_ged_dummy_ns_0	0.3257	0.118	2.761	0.006	0.094	0.557
decay_l2_cw_ged_dummy_os_0	2.4645	0.172	14.294	0.000	2.127	2.802

2.5.4 sb_eval

Dep. Variable:	ged_dummy_sb	No. Observations:	14917
Model:	Logit	Df Residuals:	14897
Method:	MLE	Df Model:	19
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.6409
Time:	02:44:24	Log-Likelihood:	-2187.1
converged:	True	LL-Null:	-6090.8

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-5.3145	0.134	-39.735	0.000	-5.577	-5.052
l2_ged_dummy_sb	0.5361	0.099	5.428	0.000	0.342	0.730
l3_ged_dummy_sb	0.6290	0.099	6.338	0.000	0.435	0.824
l4_ged_dummy_sb	0.3552	0.102	3.472	0.001	0.155	0.556
l5_ged_dummy_sb	0.0794	0.106	0.747	0.455	-0.129	0.288
l6_ged_dummy_sb	0.2507	0.107	2.343	0.019	0.041	0.460
l7_ged_dummy_sb	0.2422	0.108	2.234	0.026	0.030	0.455
l8_ged_dummy_sb	0.0682	0.111	0.613	0.540	-0.150	0.286
l9_ged_dummy_sb	0.1040	0.112	0.926	0.354	-0.116	0.324
l10_ged_dummy_sb	0.1662	0.112	1.479	0.139	-0.054	0.386
l11_ged_dummy_sb	0.0821	0.114	0.723	0.470	-0.140	0.305
l12_ged_dummy_sb	0.3253	0.108	3.008	0.003	0.113	0.537
q_1_1_l2_ged_dummy_sb	-0.0560	0.068	-0.822	0.411	-0.190	0.078
q_1_1_l3_ged_dummy_sb	0.0588	0.069	0.854	0.393	-0.076	0.194
l1_ged_dummy_sb	1.0741	0.099	10.798	0.000	0.879	1.269
l1_ged_dummy_ns	0.1405	0.150	0.938	0.348	-0.153	0.434
l1_ged_dummy_os	0.5290	0.112	4.731	0.000	0.310	0.748
decay_l2_cw_ged_dummy_sb_0	3.2000	0.209	15.284	0.000	2.790	3.610
decay_l2_cw_ged_dummy_ns_0	0.1788	0.145	1.234	0.217	-0.105	0.463
decay_l2_cw_ged_dummy_os_0	0.3647	0.165	2.207	0.027	0.041	0.688

2.5.5 ns_eval

Dep. Variable:	ged_dummy_ns	No. Observations:	14917
Model:	Logit	Df Residuals:	14897
Method:	MLE	Df Model:	19
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.5612
Time:	02:44:24	Log-Likelihood:	-1730.5
converged:	True	LL-Null:	-3944.0

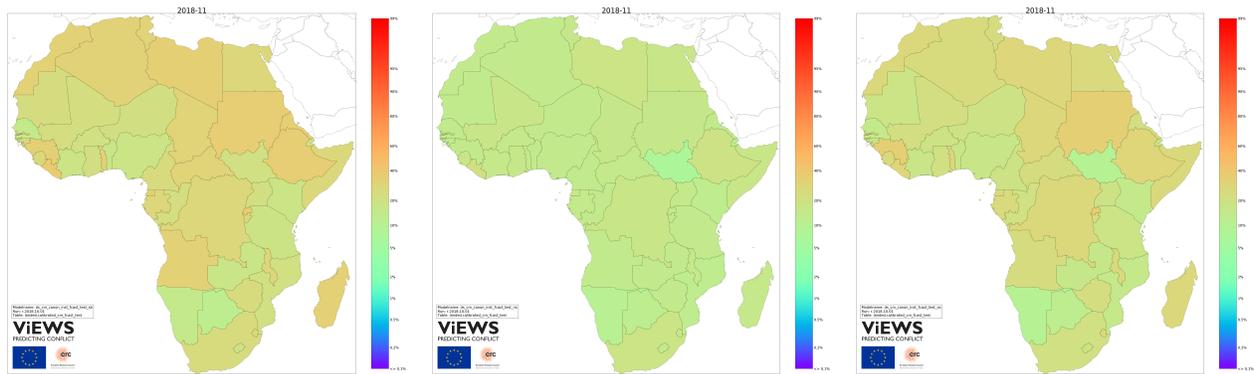
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-5.7239	0.150	-38.264	0.000	-6.017	-5.431
l2_ged_dummy_ns	0.5059	0.105	4.805	0.000	0.300	0.712
l3_ged_dummy_ns	0.2977	0.106	2.798	0.005	0.089	0.506
l4_ged_dummy_ns	0.1994	0.108	1.847	0.065	-0.012	0.411
l5_ged_dummy_ns	0.1440	0.110	1.315	0.189	-0.071	0.359
l6_ged_dummy_ns	0.4173	0.109	3.843	0.000	0.204	0.630
l7_ged_dummy_ns	0.3368	0.109	3.079	0.002	0.122	0.551
l8_ged_dummy_ns	0.0739	0.112	0.658	0.510	-0.146	0.294
l9_ged_dummy_ns	0.1524	0.113	1.346	0.178	-0.069	0.374
l10_ged_dummy_ns	0.1924	0.114	1.691	0.091	-0.031	0.415
l11_ged_dummy_ns	0.2829	0.114	2.485	0.013	0.060	0.506
l12_ged_dummy_ns	0.3186	0.111	2.858	0.004	0.100	0.537
q_1_1_l2_ged_dummy_ns	0.0381	0.079	0.481	0.631	-0.117	0.194
q_1_1_l3_ged_dummy_ns	0.0813	0.080	1.021	0.307	-0.075	0.237
l1_ged_dummy_sb	0.1586	0.146	1.084	0.279	-0.128	0.446
l1_ged_dummy_ns	0.6139	0.108	5.672	0.000	0.402	0.826
l1_ged_dummy_os	-0.0667	0.127	-0.527	0.598	-0.315	0.181
decay_l2_cw_ged_dummy_sb_0	-0.0834	0.181	-0.460	0.645	-0.438	0.272
decay_l2_cw_ged_dummy_ns_0	3.7894	0.236	16.027	0.000	3.326	4.253
decay_l2_cw_ged_dummy_os_0	0.6145	0.185	3.323	0.001	0.252	0.977

2.5.6 os_eval

Dep. Variable:	ged_dummy_os	No. Observations:	14917
Model:	Logit	Df Residuals:	14897
Method:	MLE	Df Model:	19
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.5479
Time:	02:44:24	Log-Likelihood:	-2608.9
converged:	True	LL-Null:	-5770.9

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-5.0476	0.118	-42.643	0.000	-5.280	-4.816
l2_ged_dummy_os	0.5678	0.089	6.382	0.000	0.393	0.742
l3_ged_dummy_os	0.4100	0.091	4.530	0.000	0.233	0.587
l4_ged_dummy_os	0.2916	0.092	3.163	0.002	0.111	0.472
l5_ged_dummy_os	0.2794	0.094	2.980	0.003	0.096	0.463
l6_ged_dummy_os	0.1871	0.095	1.964	0.050	0.000	0.374
l7_ged_dummy_os	-0.0466	0.098	-0.477	0.634	-0.238	0.145
l8_ged_dummy_os	0.2021	0.097	2.089	0.037	0.012	0.392
l9_ged_dummy_os	0.2148	0.097	2.211	0.027	0.024	0.405
l10_ged_dummy_os	0.2264	0.097	2.323	0.020	0.035	0.417
l11_ged_dummy_os	-0.0737	0.099	-0.746	0.456	-0.267	0.120
l12_ged_dummy_os	0.2922	0.095	3.088	0.002	0.107	0.478
q_1_1_l2_ged_dummy_os	0.1760	0.057	3.102	0.002	0.065	0.287
q_1_1_l3_ged_dummy_os	-0.0579	0.057	-1.011	0.312	-0.170	0.054
l1_ged_dummy_sb	0.5029	0.108	4.643	0.000	0.291	0.715
l1_ged_dummy_ns	0.2390	0.127	1.885	0.059	-0.009	0.488
l1_ged_dummy_os	0.9539	0.090	10.549	0.000	0.777	1.131
decay_l2_cw_ged_dummy_sb_0	0.4728	0.146	3.239	0.001	0.187	0.759
decay_l2_cw_ged_dummy_ns_0	0.3260	0.129	2.524	0.012	0.073	0.579
decay_l2_cw_ged_dummy_os_0	2.6102	0.190	13.709	0.000	2.237	2.983

2.6 ds_cm_canon_inst



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 6: Forecasts for October 2018

2.6.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	17941
Model:	Logit	Df Residuals:	17934
Method:	MLE	Df Model:	6
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.06224
Time:	02:45:11	Log-Likelihood:	-7234.0
converged:	True	LL-Null:	-7714.1

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-2.4160	0.200	-12.096	0.000	-2.807	-2.025
ln.fvp_timeindep	0.7273	0.052	14.016	0.000	0.626	0.829
ln.fvp_timesincepreindepwar	-0.0627	0.049	-1.290	0.197	-0.158	0.033
ln.fvp_timesinceregimechange	-0.3667	0.025	-14.472	0.000	-0.416	-0.317
fvp_demo	-1.7283	0.071	-24.201	0.000	-1.868	-1.588
fvp_semi	-0.8300	0.057	-14.683	0.000	-0.941	-0.719
fvp_prop_excluded	0.4084	0.086	4.730	0.000	0.239	0.578

2.6.2 ns_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable: ged_dummy_ns						
No. Observations: 17941						
Model: Logit						
Df Residuals: 17934						
Method: MLE						
Df Model: 6						
Date: Tue, 25 Sep 2018						
Pseudo R-squ.: 0.05210						
Time: 02:45:11						
Log-Likelihood: -4751.8						
converged: True						
LL-Null: -5012.9						
Intercept	-6.3107	0.337	-18.736	0.000	-6.971	-5.651
ln_fvp_timeindep	1.0454	0.065	16.167	0.000	0.919	1.172
ln_fvp_timesincepreindepwar	0.3129	0.074	4.232	0.000	0.168	0.458
ln_fvp_timesinceregimechange	-0.2407	0.032	-7.433	0.000	-0.304	-0.177
fvp_demo	-1.1238	0.084	-13.316	0.000	-1.289	-0.958
fvp_semi	-1.0195	0.077	-13.245	0.000	-1.170	-0.869
fvp_prop_excluded	-0.5438	0.141	-3.855	0.000	-0.820	-0.267

2.6.3 os_fcast

Dep. Variable:		ged_dummy_os	No. Observations:		17941	
Model:		Logit	Df Residuals:		17934	
Method:		MLE	Df Model:		6	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.05201	
Time:		02:45:11	Log-Likelihood:		-6900.0	
converged:		True	LL-Null:		-7278.6	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-3.9977	0.238	-16.779	0.000	-4.465	-3.531
ln_fvp_timeindep	0.4990	0.054	9.188	0.000	0.393	0.605
ln_fvp_timesincepreindepwar	0.4172	0.054	7.773	0.000	0.312	0.522
ln_fvp_timesinceregimechange	-0.2996	0.026	-11.548	0.000	-0.350	-0.249
fvp_demo	-1.5546	0.072	-21.485	0.000	-1.696	-1.413
fvp_semi	-0.7354	0.059	-12.519	0.000	-0.851	-0.620
fvp_prop_excluded	0.4974	0.088	5.642	0.000	0.325	0.670

2.6.4 sb_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable: ged_dummy_sb						
No. Observations: 15565						
Model: Logit						
Df Residuals: 15558						
Method: MLE						
Df Model: 6						
Date: Tue, 25 Sep 2018						
Pseudo R-squ.: 0.06593						
Time: 02:45:12						
Log-Likelihood: -5902.7						
converged: True						
LL-Null: -6319.4						
Intercept	-2.5910	0.224	-11.584	0.000	-3.029	-2.153
ln_fvp_timeindep	0.6914	0.057	12.114	0.000	0.580	0.803
ln_fvp_timesincepreindepwar	-0.0083	0.053	-0.156	0.876	-0.113	0.096
ln_fvp_timesinceregimechange	-0.3622	0.030	-11.983	0.000	-0.421	-0.303
fvp_demo	-1.8753	0.082	-22.942	0.000	-2.036	-1.715
fvp_semi	-0.8444	0.061	-13.823	0.000	-0.964	-0.725
fvp_prop_excluded	0.4620	0.092	5.043	0.000	0.282	0.642

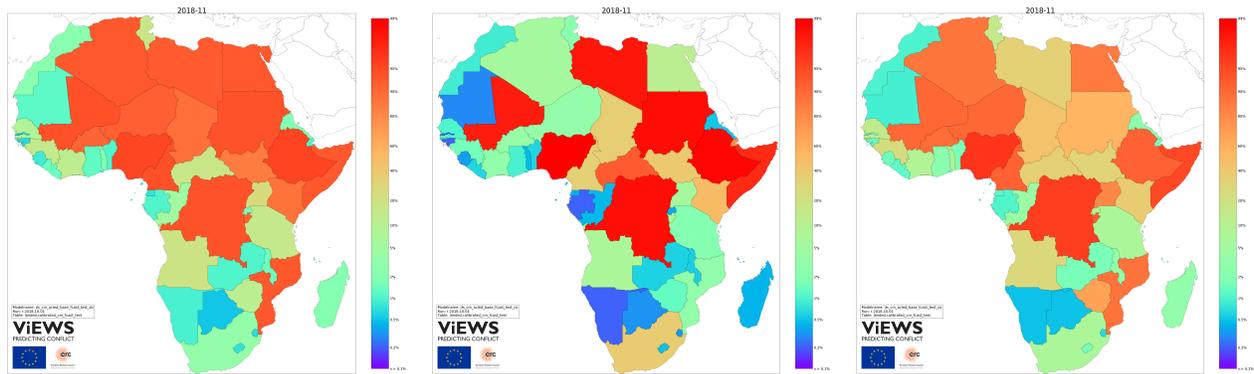
2.6.5 ns_eval

Dep. Variable:		ged_dummy_ns	No. Observations:		15565	
Model:		Logit	Df Residuals:		15558	
Method:		MLE	Df Model:		6	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.06352	
Time:		02:45:12	Log-Likelihood:		-3789.6	
converged:		True	LL-Null:		-4046.6	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-7.5892	0.399	-18.998	0.000	-8.372	-6.806
ln_fvp_timeindep	1.1764	0.071	16.594	0.000	1.037	1.315
ln_fvp_timesincepreindepwar	0.4269	0.087	4.921	0.000	0.257	0.597
ln_fvp_timesinceregimechange	-0.1404	0.040	-3.534	0.000	-0.218	-0.063
fvp_demo	-1.1546	0.094	-12.339	0.000	-1.338	-0.971
fvp_semi	-1.1461	0.085	-13.513	0.000	-1.312	-0.980
fvp_prop_excluded	-0.6102	0.161	-3.780	0.000	-0.927	-0.294

2.6.6 os_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable: ged_dummy_os						
No. Observations: 15565						
Model: Logit						
Df Residuals: 15558						
Method: MLE						
Df Model: 6						
Date: Tue, 25 Sep 2018						
Pseudo R-squ.: 0.05555						
Time: 02:45:12						
Log-Likelihood: -5679.2						
converged: True						
LL-Null: -6013.3						
Intercept	-4.4235	0.270	-16.405	0.000	-4.952	-3.895
ln_fvp_timeindep	0.5048	0.060	8.445	0.000	0.388	0.622
ln_fvp_timesincepreindepwar	0.4908	0.059	8.250	0.000	0.374	0.607
ln_fvp_timesinceregimechange	-0.2824	0.031	-9.166	0.000	-0.343	-0.222
fvp_demo	-1.6363	0.081	-20.229	0.000	-1.795	-1.478
fvp_semi	-0.7840	0.063	-12.380	0.000	-0.908	-0.660
fvp_prop_excluded	0.5829	0.093	6.246	0.000	0.400	0.766

2.7 ds_cm_acled_base



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 7: Forecasts for October 2018

2.7.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	13705
Model:	Logit	Df Residuals:	13672
Method:	MLE	Df Model:	32
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.6631
Time:	02:43:58	Log-Likelihood:	-2040.4
converged:	True	LL-Null:	-6055.8

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-7.2571	0.788	-9.209	0.000	-8.802	-5.713
l2_ged_dummy_sb	0.5404	0.103	5.233	0.000	0.338	0.743
l3_ged_dummy_sb	0.5929	0.104	5.696	0.000	0.389	0.797
l4_ged_dummy_sb	0.3577	0.107	3.332	0.001	0.147	0.568
l5_ged_dummy_sb	0.0448	0.111	0.402	0.688	-0.174	0.263
l6_ged_dummy_sb	0.3416	0.111	3.072	0.002	0.124	0.560
l7_ged_dummy_sb	0.1854	0.114	1.632	0.103	-0.037	0.408
l8_ged_dummy_sb	0.1123	0.116	0.965	0.335	-0.116	0.340
l9_ged_dummy_sb	0.1277	0.118	1.082	0.279	-0.104	0.359
l10_ged_dummy_sb	0.0751	0.119	0.633	0.527	-0.158	0.308
l11_ged_dummy_sb	0.1351	0.119	1.139	0.255	-0.097	0.367
l12_ged_dummy_sb	0.3360	0.113	2.963	0.003	0.114	0.558
l1_ged_dummy_sb	0.9784	0.104	9.409	0.000	0.775	1.182
l1_ged_dummy_ns	-0.0206	0.149	-0.138	0.890	-0.313	0.271
l1_ged_dummy_os	0.5569	0.116	4.813	0.000	0.330	0.784
l1_acled_dummy_pr	0.3392	0.115	2.950	0.003	0.114	0.565
decay_12_cw_ged_dummy_sb_0	2.7918	0.216	12.940	0.000	2.369	3.215
decay_12_cw_ged_dummy_ns_0	0.1877	0.161	1.165	0.244	-0.128	0.503
decay_12_cw_ged_dummy_os_0	0.4515	0.177	2.555	0.011	0.105	0.798
decay_12_cw_acled_dummy_pr_0	-0.2449	0.199	-1.232	0.218	-0.635	0.145
fvp_lngdpcap_nonoilrent	0.1727	0.093	1.849	0.064	-0.010	0.356
fvp_lngdpcap_oilrent	0.0162	0.021	0.787	0.431	-0.024	0.057
fvp_grgdpcap_oilrent	-0.0947	0.100	-0.950	0.342	-0.290	0.101
fvp_grgdpcap_nonoilrent	-0.6885	0.332	-2.071	0.038	-1.340	-0.037
ln_fvp_timeindep	0.0628	0.124	0.507	0.612	-0.180	0.306
ln_fvp_timesincepreindepwar	-0.0727	0.105	-0.696	0.486	-0.278	0.132
ln_fvp_timesinceregimechange	-0.0672	0.052	-1.303	0.193	-0.168	0.034
fvp_demo	-0.2904	0.149	-1.955	0.051	-0.582	0.001
fvp_semi	-0.0578	0.130	-0.445	0.656	-0.312	0.196
fvp_prop_excluded	-0.1803	0.202	-0.890	0.373	-0.577	0.217
ln_fvp_population200	0.1664	0.048	3.454	0.001	0.072	0.261
ssp2_edu_sec_15_24_prop	-0.8943	0.363	-2.467	0.014	-1.605	-0.184
ssp2_urban_share_iiasa	0.0006	0.004	0.155	0.877	-0.007	0.008

2.7.2 ns_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_ns			No. Observations:	13705	
Model:	Logit			Df Residuals:	13672	
Method:	MLE			Df Model:	32	
Date:	Tue, 25 Sep 2018			Pseudo R-squ.:	0.6017	
Time:	02:43:58			Log-Likelihood:	-1609.2	
converged:	True			LL-Null:	-4040.2	
Intercept	-7.9756	0.850	-9.388	0.000	-9.641	-6.311
l2_ged_dummy_ns	0.5075	0.108	4.717	0.000	0.297	0.718
l3_ged_dummy_ns	0.3518	0.108	3.257	0.001	0.140	0.563
l4_ged_dummy_ns	0.1769	0.110	1.611	0.107	-0.038	0.392
l5_ged_dummy_ns	0.0429	0.112	0.384	0.701	-0.176	0.262
l6_ged_dummy_ns	0.4032	0.111	3.636	0.000	0.186	0.620
l7_ged_dummy_ns	0.2778	0.112	2.474	0.013	0.058	0.498
l8_ged_dummy_ns	0.0355	0.115	0.309	0.757	-0.189	0.260
l9_ged_dummy_ns	0.1025	0.116	0.886	0.375	-0.124	0.329
l10_ged_dummy_ns	0.1677	0.116	1.449	0.147	-0.059	0.395
l11_ged_dummy_ns	0.2538	0.116	2.182	0.029	0.026	0.482
l12_ged_dummy_ns	0.2259	0.114	1.979	0.048	0.002	0.450
l1_ged_dummy_sb	0.0915	0.146	0.627	0.531	-0.195	0.378
l1_ged_dummy_ns	0.6281	0.111	5.642	0.000	0.410	0.846
l1_ged_dummy_os	0.0223	0.131	0.170	0.865	-0.235	0.279
l1_acled_dummy_pr	0.5918	0.137	4.320	0.000	0.323	0.860
decay_12_cw_ged_dummy_sb_0	0.2304	0.207	1.115	0.265	-0.174	0.635
decay_12_cw_ged_dummy_ns_0	3.5319	0.257	13.752	0.000	3.029	4.035
decay_12_cw_ged_dummy_os_0	0.5539	0.216	2.567	0.010	0.131	0.977
decay_12_cw_acled_dummy_pr_0	-0.7294	0.256	-2.851	0.004	-1.231	-0.228
fvp_lngdpcap_nonoilrent	0.0813	0.096	0.842	0.400	-0.108	0.270
fvp_lngdpcap_oilrent	0.0266	0.025	1.067	0.286	-0.022	0.076
fvp_grgdpcap_oilrent	-0.1562	0.128	-1.216	0.224	-0.408	0.096
fvp_grgdpcap_nonoilrent	-0.9855	0.347	-2.840	0.005	-1.666	-0.305
ln_fvp_timeindep	-0.0005	0.139	-0.004	0.997	-0.274	0.273
ln_fvp_timesincepreindepwar	0.0363	0.118	0.309	0.758	-0.194	0.267
ln_fvp_timesinceregimechange	-0.0130	0.058	-0.223	0.823	-0.127	0.101
fvp_demo	-0.0173	0.171	-0.101	0.919	-0.352	0.318
fvp_semi	0.0305	0.157	0.195	0.845	-0.276	0.337
fvp_prop_excluded	-0.4439	0.316	-1.406	0.160	-1.063	0.175
ln_fvp_population200	0.1991	0.058	3.434	0.001	0.085	0.313
ssp2_edu_sec_15_24_prop	-0.3410	0.363	-0.940	0.347	-1.052	0.370
ssp2_urban_share_iiasa	0.0027	0.005	0.585	0.559	-0.006	0.012

2.7.3 os_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_os			No. Observations:	13705	
Model:	Logit			Df Residuals:	13672	
Method:	MLE			Df Model:	32	
Date:	Tue, 25 Sep 2018			Pseudo R-squ.:	0.5799	
Time:	02:43:58			Log-Likelihood:	-2349.4	
converged:	True			LL-Null:	-5592.2	
Intercept	-3.5072	0.696	-5.038	0.000	-4.872	-2.143
l2_ged_dummy_os	0.5155	0.094	5.466	0.000	0.331	0.700
l3_ged_dummy_os	0.3820	0.096	3.991	0.000	0.194	0.570
l4_ged_dummy_os	0.3141	0.097	3.225	0.001	0.123	0.505
l5_ged_dummy_os	0.2478	0.099	2.501	0.012	0.054	0.442
l6_ged_dummy_os	0.1651	0.101	1.640	0.101	-0.032	0.362
l7_ged_dummy_os	-0.0329	0.103	-0.319	0.750	-0.235	0.169
l8_ged_dummy_os	0.0004	0.104	0.004	0.997	-0.203	0.204
l9_ged_dummy_os	0.2233	0.103	2.166	0.030	0.021	0.425
l10_ged_dummy_os	0.2296	0.103	2.218	0.027	0.027	0.432
l11_ged_dummy_os	-0.0175	0.104	-0.168	0.867	-0.222	0.187
l12_ged_dummy_os	0.2146	0.101	2.129	0.033	0.017	0.412
l1_ged_dummy_sb	0.4359	0.113	3.873	0.000	0.215	0.657
l1_ged_dummy_ns	0.2487	0.129	1.927	0.054	-0.004	0.502
l1_ged_dummy_os	0.9343	0.095	9.794	0.000	0.747	1.121
l1_acled_dummy_pr	0.0655	0.103	0.634	0.526	-0.137	0.268
decay_12_cw_ged_dummy_sb_0	0.8964	0.162	5.528	0.000	0.579	1.214
decay_12_cw_ged_dummy_ns_0	0.1988	0.147	1.357	0.175	-0.088	0.486
decay_12_cw_ged_dummy_os_0	2.1005	0.200	10.528	0.000	1.709	2.492
decay_12_cw_acled_dummy_pr_0	0.2967	0.201	1.477	0.140	-0.097	0.690
fvp_lngdpcap_nonoilrent	-0.4381	0.083	-5.281	0.000	-0.601	-0.275
fvp_lngdpcap_oilrent	0.0458	0.019	2.348	0.019	0.008	0.084
fvp_grgdpcap_oilrent	-0.1883	0.103	-1.832	0.067	-0.390	0.013
fvp_grgdpcap_nonoilrent	0.1225	0.276	0.444	0.657	-0.418	0.662
ln_fvp_timeindep	-0.4027	0.115	-3.504	0.000	-0.628	-0.177
ln_fvp_timesincepreindepwar	0.4016	0.099	4.074	0.000	0.208	0.595
ln_fvp_timesinceregimechange	-0.0330	0.048	-0.695	0.487	-0.126	0.060
fvp_demo	-0.3368	0.146	-2.299	0.022	-0.624	-0.050
fvp_semi	-0.0443	0.126	-0.351	0.725	-0.292	0.203
fvp_prop_excluded	0.0071	0.177	0.040	0.968	-0.340	0.355
ln_fvp_population200	0.1624	0.046	3.522	0.000	0.072	0.253
ssp2_edu_sec_15_24_prop	0.5673	0.307	1.847	0.065	-0.035	1.169
ssp2_urban_share_iiasa	0.0037	0.004	0.993	0.321	-0.004	0.011

2.7.4 pr_fcast

Dep. Variable:		acled_dummy_pr	No. Observations:		13705	
Model:		Logit	Df Residuals:		13672	
Method:		MLE	Df Model:		32	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.3991	
Time:		02:43:58	Log-Likelihood:		-5469.5	
converged:		True	LL-Null:		-9102.5	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-4.0616	0.450	-9.021	0.000	-4.944	-3.179
l2_acled_dummy_pr	0.5144	0.058	8.873	0.000	0.401	0.628
l3_acled_dummy_pr	0.3914	0.058	6.746	0.000	0.278	0.505
l4_acled_dummy_pr	0.3558	0.058	6.111	0.000	0.242	0.470
l5_acled_dummy_pr	0.2344	0.059	3.984	0.000	0.119	0.350
l6_acled_dummy_pr	0.3661	0.058	6.258	0.000	0.251	0.481
l7_acled_dummy_pr	0.2366	0.059	4.002	0.000	0.121	0.353
l8_acled_dummy_pr	0.2602	0.059	4.395	0.000	0.144	0.376
l9_acled_dummy_pr	0.2315	0.059	3.893	0.000	0.115	0.348
l10_acled_dummy_pr	0.1257	0.060	2.095	0.036	0.008	0.243
l11_acled_dummy_pr	0.4679	0.058	8.006	0.000	0.353	0.582
l12_acled_dummy_pr	0.3413	0.058	5.853	0.000	0.227	0.456
l1_ged_dummy_sb	0.0029	0.104	0.028	0.978	-0.201	0.207
l1_ged_dummy_ns	0.1983	0.125	1.590	0.112	-0.046	0.443
l1_ged_dummy_os	-0.0755	0.098	-0.768	0.442	-0.268	0.117
l1_acled_dummy_pr	0.7867	0.060	13.189	0.000	0.670	0.904
decay_12_cw_ged_dummy_sb_0	-0.0305	0.111	-0.274	0.784	-0.248	0.187
decay_12_cw_ged_dummy_ns_0	0.0757	0.119	0.637	0.524	-0.157	0.309
decay_12_cw_ged_dummy_os_0	0.1308	0.107	1.222	0.222	-0.079	0.341
decay_12_cw_acled_dummy_pr_0	0.6718	0.143	4.708	0.000	0.392	0.952
fvp_lngdpcap_nonoilrent	-0.1024	0.048	-2.139	0.032	-0.196	-0.009
fvp_lngdpcap_oilrent	-0.0042	0.012	-0.345	0.730	-0.028	0.020
fvp_grgdpcap_oilrent	-0.1494	0.071	-2.093	0.036	-0.289	-0.010
fvp_grgdpcap_nonoilrent	-0.1354	0.165	-0.821	0.412	-0.459	0.188
ln_fvp_timeindep	0.1237	0.073	1.705	0.088	-0.019	0.266
ln_fvp_timesincepreindepwar	-0.0603	0.060	-0.997	0.319	-0.179	0.058
ln_fvp_timesinceregimechange	-0.0132	0.033	-0.398	0.691	-0.078	0.052
fvp_demo	0.0726	0.097	0.751	0.453	-0.117	0.262
fvp_semi	-0.0088	0.087	-0.100	0.920	-0.180	0.163
fvp_prop_excluded	0.1018	0.118	0.861	0.389	-0.130	0.333
ln_fvp_population200	0.1673	0.024	6.991	0.000	0.120	0.214
ssp2_edu_sec_15_24_prop	0.8524	0.190	4.494	0.000	0.481	1.224
ssp2_urban_share_iiasa	0.0021	0.002	0.976	0.329	-0.002	0.006

2.7.5 sb_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable: ged_dummy_sb						
No. Observations: 11329						
Model: Logit						
Df Residuals: 11296						
Method: MLE						
Df Model: 32						
Date: Tue, 25 Sep 2018						
Pseudo R-squ.: 0.6584						
Time: 02:43:56						
Log-Likelihood: -1595.4						
converged: True						
LL-Null: -4670.5						
Intercept	-8.4844	1.010	-8.403	0.000	-10.463	-6.506
l2_ged_dummy_sb	0.5157	0.117	4.426	0.000	0.287	0.744
l3_ged_dummy_sb	0.6046	0.117	5.158	0.000	0.375	0.834
l4_ged_dummy_sb	0.2854	0.121	2.351	0.019	0.047	0.523
l5_ged_dummy_sb	0.0331	0.126	0.263	0.792	-0.213	0.280
l6_ged_dummy_sb	0.1902	0.126	1.506	0.132	-0.057	0.438
l7_ged_dummy_sb	0.2167	0.128	1.698	0.090	-0.033	0.467
l8_ged_dummy_sb	0.0675	0.131	0.516	0.606	-0.189	0.324
l9_ged_dummy_sb	0.0850	0.132	0.643	0.520	-0.174	0.344
l10_ged_dummy_sb	0.1046	0.132	0.791	0.429	-0.154	0.364
l11_ged_dummy_sb	0.1378	0.132	1.040	0.298	-0.122	0.397
l12_ged_dummy_sb	0.3945	0.126	3.120	0.002	0.147	0.642
l1_ged_dummy_sb	1.0017	0.117	8.531	0.000	0.772	1.232
l1_ged_dummy_ns	-0.0045	0.171	-0.027	0.979	-0.340	0.331
l1_ged_dummy_os	0.5392	0.133	4.045	0.000	0.278	0.801
l1_acled_dummy_pr	0.3396	0.130	2.617	0.009	0.085	0.594
decay_l2_cw_ged_dummy_sb_0	3.0168	0.246	12.269	0.000	2.535	3.499
decay_l2_cw_ged_dummy_ns_0	0.1591	0.190	0.838	0.402	-0.213	0.531
decay_l2_cw_ged_dummy_os_0	0.5380	0.202	2.668	0.008	0.143	0.933
decay_l2_cw_acled_dummy_pr_0	-0.2565	0.209	-1.230	0.219	-0.665	0.152
fvp_lngdpcap_nonoilrent	0.3197	0.116	2.749	0.006	0.092	0.548
fvp_lngdpcap_oilrent	0.0096	0.024	0.404	0.686	-0.037	0.056
fvp_grgdpcap_oilrent	-0.0749	0.110	-0.679	0.497	-0.291	0.141
fvp_grgdpcap_nonoilrent	-1.0718	0.371	-2.892	0.004	-1.798	-0.346
ln_fvp_timeindep	0.1843	0.140	1.319	0.187	-0.090	0.458
ln_fvp_timesincepreindepwar	-0.1509	0.118	-1.283	0.199	-0.381	0.080
ln_fvp_timesinceregimechange	-0.1480	0.066	-2.234	0.025	-0.278	-0.018
fvp_demo	-0.3830	0.169	-2.263	0.024	-0.715	-0.051
fvp_semi	-0.0870	0.146	-0.598	0.550	-0.372	0.198
fvp_prop_excluded	-0.0907	0.216	-0.420	0.675	-0.514	0.333
ln_fvp_population200	0.1973	0.061	3.239	0.001	0.078	0.317
ssp2_edu_sec_15_24_prop	-1.4983	0.451	-3.321	0.001	-2.383	-0.614
ssp2_urban_share_iiasa	-0.0004	0.004	-0.089	0.929	-0.009	0.008

2.7.6 ns_eval

Dep. Variable:		ged_dummy_ns	No. Observations:		11329	
Model:		Logit	Df Residuals:		11296	
Method:		MLE	Df Model:		32	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.5817	
Time:		02:43:56	Log-Likelihood:		-1289.8	
converged:		True	LL-Null:		-3083.6	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-9.2677	1.100	-8.424	0.000	-11.424	-7.112
l2_ged_dummy_ns	0.5241	0.119	4.416	0.000	0.291	0.757
l3_ged_dummy_ns	0.3135	0.119	2.632	0.008	0.080	0.547
l4_ged_dummy_ns	0.2008	0.121	1.665	0.096	-0.036	0.437
l5_ged_dummy_ns	0.0536	0.123	0.437	0.662	-0.187	0.294
l6_ged_dummy_ns	0.2804	0.123	2.288	0.022	0.040	0.521
l7_ged_dummy_ns	0.2460	0.124	1.991	0.047	0.004	0.488
l8_ged_dummy_ns	0.0413	0.126	0.329	0.742	-0.205	0.288
l9_ged_dummy_ns	0.1516	0.126	1.203	0.229	-0.095	0.399
l10_ged_dummy_ns	0.1286	0.127	1.013	0.311	-0.120	0.377
l11_ged_dummy_ns	0.2264	0.127	1.779	0.075	-0.023	0.476
l12_ged_dummy_ns	0.1477	0.126	1.169	0.242	-0.100	0.395
l1_ged_dummy_sb	0.1297	0.168	0.771	0.441	-0.200	0.459
l1_ged_dummy_ns	0.5564	0.123	4.521	0.000	0.315	0.798
l1_ged_dummy_os	-0.1214	0.150	-0.810	0.418	-0.415	0.172
l1_acled_dummy_pr	0.5923	0.146	4.068	0.000	0.307	0.878
decay_l2_cw_ged_dummy_sb_0	0.2252	0.223	1.009	0.313	-0.212	0.663
decay_l2_cw_ged_dummy_ns_0	3.5547	0.289	12.283	0.000	2.988	4.122
decay_l2_cw_ged_dummy_os_0	0.5716	0.231	2.471	0.013	0.118	1.025
decay_l2_cw_acled_dummy_pr_0	-0.8942	0.266	-3.363	0.001	-1.415	-0.373
fvp_lngdpcap_nonoilrent	0.1481	0.115	1.283	0.200	-0.078	0.374
fvp_lngdpcap_oilrent	-0.0098	0.029	-0.340	0.734	-0.067	0.047
fvp_grgdpcap_oilrent	-0.1528	0.142	-1.079	0.280	-0.430	0.125
fvp_grgdpcap_nonoilrent	-1.4320	0.394	-3.633	0.000	-2.205	-0.659
ln_fvp_timeindep	-0.0806	0.160	-0.503	0.615	-0.395	0.234
ln_fvp_timesincepreindepwar	0.0040	0.136	0.030	0.976	-0.262	0.270
ln_fvp_timesinceregimechange	-0.0333	0.074	-0.452	0.651	-0.178	0.111
fvp_demo	-0.0868	0.206	-0.422	0.673	-0.490	0.316
fvp_semi	-0.0737	0.186	-0.397	0.691	-0.437	0.290
fvp_prop_excluded	-0.2792	0.355	-0.787	0.431	-0.974	0.416
ln_fvp_population200	0.3722	0.083	4.511	0.000	0.210	0.534
ssp2_edu_sec_15_24_prop	-0.5627	0.432	-1.303	0.193	-1.409	0.284
ssp2_urban_share_iiasa	0.0017	0.005	0.338	0.735	-0.008	0.012

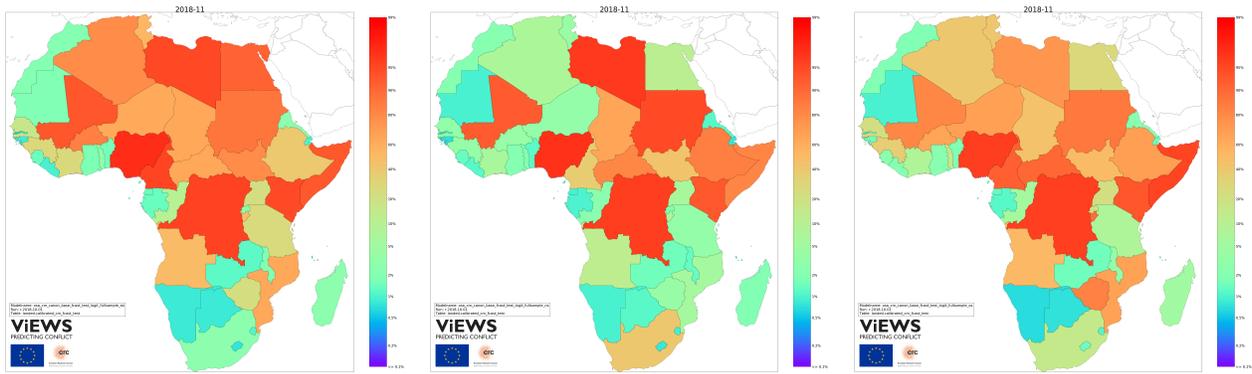
2.7.7 os_eval

Dep. Variable:		ged_dummy_os	No. Observations:		11329	
Model:		Logit	Df Residuals:		11296	
Method:		MLE	Df Model:		32	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.5764	
Time:		02:43:56	Log-Likelihood:		-1832.5	
converged:		True	LL-Null:		-4326.2	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-3.6530	0.913	-4.002	0.000	-5.442	-1.864
l2_ged_dummy_os	0.5215	0.107	4.870	0.000	0.312	0.731
l3_ged_dummy_os	0.3744	0.108	3.451	0.001	0.162	0.587
l4_ged_dummy_os	0.2587	0.111	2.337	0.019	0.042	0.476
l5_ged_dummy_os	0.2237	0.113	1.984	0.047	0.003	0.445
l6_ged_dummy_os	0.2638	0.114	2.323	0.020	0.041	0.486
l7_ged_dummy_os	-0.1609	0.118	-1.362	0.173	-0.392	0.071
l8_ged_dummy_os	0.1063	0.117	0.909	0.363	-0.123	0.335
l9_ged_dummy_os	0.2643	0.117	2.265	0.023	0.036	0.493
l10_ged_dummy_os	0.2359	0.117	2.011	0.044	0.006	0.466
l11_ged_dummy_os	-0.0968	0.119	-0.815	0.415	-0.330	0.136
l12_ged_dummy_os	0.1592	0.115	1.391	0.164	-0.065	0.384
l1_ged_dummy_sb	0.4605	0.131	3.521	0.000	0.204	0.717
l1_ged_dummy_ns	0.2495	0.150	1.669	0.095	-0.044	0.543
l1_ged_dummy_os	0.9197	0.109	8.461	0.000	0.707	1.133
l1_acled_dummy_pr	-0.0085	0.115	-0.074	0.941	-0.234	0.217
decay_12_cw_ged_dummy_sb_0	0.8605	0.184	4.679	0.000	0.500	1.221
decay_12_cw_ged_dummy_ns_0	0.1733	0.175	0.989	0.323	-0.170	0.517
decay_12_cw_ged_dummy_os_0	2.3346	0.228	10.229	0.000	1.887	2.782
decay_12_cw_acled_dummy_pr_0	0.2639	0.210	1.258	0.208	-0.147	0.675
fvp_lngdpcap_nonoilrent	-0.4179	0.105	-3.970	0.000	-0.624	-0.212
fvp_lngdpcap_oilrent	0.0370	0.023	1.623	0.105	-0.008	0.082
fvp_grgdpcap_oilrent	-0.0886	0.114	-0.780	0.435	-0.311	0.134
fvp_grgdpcap_nonoilrent	0.0263	0.327	0.081	0.936	-0.614	0.666
ln_fvp_timeindep	-0.4898	0.129	-3.802	0.000	-0.742	-0.237
ln_fvp_timesincepreindepwar	0.3901	0.112	3.476	0.001	0.170	0.610
ln_fvp_timesinceregimechange	-0.0067	0.062	-0.109	0.913	-0.128	0.115
fvp_demo	-0.4011	0.171	-2.352	0.019	-0.735	-0.067
fvp_semi	-0.0875	0.144	-0.609	0.542	-0.369	0.194
fvp_prop_excluded	-0.0046	0.193	-0.024	0.981	-0.383	0.374
ln_fvp_population200	0.1887	0.062	3.067	0.002	0.068	0.309
ssp2_edu_sec_15_24_prop	0.5210	0.383	1.360	0.174	-0.230	1.272
ssp2_urban_share_iiasa	0.0050	0.004	1.162	0.245	-0.003	0.013

2.7.8 pr_eval

Dep. Variable:		acled_dummy_pr	No. Observations:		11329	
Model:		Logit	Df Residuals:		11296	
Method:		MLE	Df Model:		32	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.3295	
Time:		02:43:56	Log-Likelihood:		-4744.5	
converged:		True	LL-Null:		-7076.5	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-4.2987	0.496	-8.672	0.000	-5.270	-3.327
l2_acled_dummy_pr	0.4607	0.062	7.473	0.000	0.340	0.582
l3_acled_dummy_pr	0.3487	0.062	5.666	0.000	0.228	0.469
l4_acled_dummy_pr	0.3550	0.062	5.771	0.000	0.234	0.476
l5_acled_dummy_pr	0.2382	0.062	3.834	0.000	0.116	0.360
l6_acled_dummy_pr	0.3220	0.062	5.197	0.000	0.201	0.443
l7_acled_dummy_pr	0.2510	0.062	4.022	0.000	0.129	0.373
l8_acled_dummy_pr	0.2330	0.063	3.710	0.000	0.110	0.356
l9_acled_dummy_pr	0.1691	0.063	2.674	0.007	0.045	0.293
l10_acled_dummy_pr	0.1130	0.064	1.777	0.076	-0.012	0.238
l11_acled_dummy_pr	0.4260	0.062	6.859	0.000	0.304	0.548
l12_acled_dummy_pr	0.3044	0.062	4.907	0.000	0.183	0.426
l1_ged_dummy_sb	-0.0136	0.113	-0.120	0.904	-0.235	0.208
l1_ged_dummy_ns	0.1850	0.131	1.412	0.158	-0.072	0.442
l1_ged_dummy_os	-0.1152	0.106	-1.089	0.276	-0.322	0.092
l1_acled_dummy_pr	0.7354	0.064	11.555	0.000	0.611	0.860
decay_12_cw_ged_dummy_sb_0	-0.0859	0.119	-0.725	0.469	-0.318	0.146
decay_12_cw_ged_dummy_ns_0	0.0615	0.127	0.486	0.627	-0.187	0.310
decay_12_cw_ged_dummy_os_0	0.2066	0.113	1.823	0.068	-0.015	0.429
decay_12_cw_acled_dummy_pr_0	0.7118	0.150	4.738	0.000	0.417	1.006
fvp_lngdpcap_nonoilrent	-0.0758	0.053	-1.438	0.150	-0.179	0.028
fvp_lngdpcap_oilrent	-0.0093	0.013	-0.706	0.480	-0.035	0.017
fvp_grgdpcap_oilrent	-0.0708	0.073	-0.974	0.330	-0.213	0.072
fvp_grgdpcap_nonoilrent	-0.1276	0.178	-0.718	0.473	-0.476	0.221
ln_fvp_timeindep	0.1095	0.077	1.426	0.154	-0.041	0.260
ln_fvp_timesincepreindepwar	-0.0777	0.064	-1.210	0.226	-0.204	0.048
ln_fvp_timesinceregimechange	0.0292	0.040	0.733	0.463	-0.049	0.107
fvp_demo	0.1098	0.104	1.055	0.292	-0.094	0.314
fvp_semi	-0.0047	0.094	-0.050	0.960	-0.189	0.179
fvp_prop_excluded	0.0784	0.125	0.626	0.531	-0.167	0.324
ln_fvp_population200	0.1835	0.027	6.920	0.000	0.131	0.235
ssp2_edu_sec_15_24_prop	0.6984	0.203	3.444	0.001	0.301	1.096
ssp2_urban_share_iiasa	0.0020	0.002	0.886	0.375	-0.002	0.006

2.8 osa_cm_canon_base_logit



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 8: Forecasts for October 2018

2.8.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	4146
Model:	Logit	Df Residuals:	4115
Method:	MLE	Df Model:	30
Date:	Wed, 26 Sep 2018	Pseudo R-squ.:	0.6474
Time:	12:17:12	Log-Likelihood:	-947.20
converged:	True	LL-Null:	-2686.1

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	0.1837	0.192	0.958	0.338	-0.192	0.560
l3_ged_dummy_sb	0.5957	0.196	3.046	0.002	0.212	0.979
l4_ged_dummy_sb	0.1416	0.198	0.717	0.473	-0.246	0.529
l5_ged_dummy_sb	0.5132	0.197	2.607	0.009	0.127	0.899
l6_ged_dummy_sb	0.3413	0.205	1.667	0.096	-0.060	0.743
l7_ged_dummy_sb	0.0633	0.207	0.306	0.760	-0.342	0.469
l8_ged_dummy_sb	0.0724	0.209	0.347	0.729	-0.337	0.481
l9_ged_dummy_sb	-0.0419	0.206	-0.204	0.839	-0.445	0.361
l10_ged_dummy_sb	0.1028	0.210	0.490	0.624	-0.308	0.514
l11_ged_dummy_sb	0.0725	0.208	0.348	0.728	-0.336	0.481
l12_ged_dummy_sb	0.2927	0.195	1.500	0.134	-0.090	0.675
l1_ged_dummy_sb	0.5844	0.195	2.990	0.003	0.201	0.968
l1_ged_dummy_ns	0.1851	0.257	0.719	0.472	-0.319	0.690
l1_ged_dummy_os	0.3458	0.199	1.737	0.082	-0.044	0.736
decay_l2_cw_ged_dummy_sb_0	2.9705	0.265	11.194	0.000	2.450	3.491
decay_l2_cw_ged_dummy_ns_0	0.2096	0.251	0.835	0.404	-0.282	0.701
decay_l2_cw_ged_dummy_os_0	0.7932	0.242	3.283	0.001	0.320	1.267
fvp_lngdpcap_nonoilrent	0.2292	0.134	1.715	0.086	-0.033	0.491
fvp_lngdpcap_oilrent	0.0898	0.030	2.969	0.003	0.031	0.149
fvp_grgdpcap_oilrent	-0.2793	0.168	-1.662	0.096	-0.609	0.050
fvp_grgdpcap_nonoilrent	-1.0806	0.557	-1.940	0.052	-2.173	0.011
ln_fvp_timeindep	0.3231	0.186	1.739	0.082	-0.041	0.687
ln_fvp_timesincepreindepwar	-0.3821	0.157	-2.434	0.015	-0.690	-0.074
ln_fvp_timesinceregimechange	-0.1567	0.078	-2.007	0.045	-0.310	-0.004
fvp_demo	-0.5027	0.205	-2.455	0.014	-0.904	-0.101
fvp_semi	-0.3395	0.181	-1.881	0.060	-0.693	0.014
fvp_prop_excluded	0.0343	0.286	0.120	0.904	-0.526	0.595
ln_fvp_population200	0.1708	0.064	2.672	0.008	0.046	0.296
ssp2_edu_sec_15_24_prop	-1.8217	0.537	-3.394	0.001	-2.874	-0.770
ssp2_urban_share_iiasa	-0.0125	0.006	-2.223	0.026	-0.024	-0.001
Intercept	-4.0350	1.160	-3.479	0.001	-6.308	-1.762

2.8.2 ns_fcast

Dep. Variable:		ged_dummy_ns	No. Observations:		3000	
Model:		Logit	Df Residuals:		2969	
Method:		MLE	Df Model:		30	
Date:		Wed, 26 Sep 2018	Pseudo R-squ.:		0.6309	
Time:		12:17:00	Log-Likelihood:		-765.80	
converged:		True	LL-Null:		-2075.0	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.8572	0.214	4.007	0.000	0.438	1.277
l3_ged_dummy_ns	-0.2148	0.211	-1.020	0.308	-0.628	0.198
l4_ged_dummy_ns	0.3265	0.209	1.563	0.118	-0.083	0.736
l5_ged_dummy_ns	0.5480	0.203	2.695	0.007	0.150	0.947
l6_ged_dummy_ns	0.3113	0.205	1.516	0.130	-0.091	0.714
l7_ged_dummy_ns	0.1673	0.208	0.804	0.421	-0.240	0.575
l8_ged_dummy_ns	0.1374	0.218	0.631	0.528	-0.290	0.564
l9_ged_dummy_ns	-0.1070	0.216	-0.496	0.620	-0.530	0.316
l10_ged_dummy_ns	0.2033	0.210	0.967	0.334	-0.209	0.615
l11_ged_dummy_ns	0.3688	0.220	1.677	0.094	-0.062	0.800
l12_ged_dummy_ns	0.2251	0.208	1.084	0.278	-0.182	0.632
l1_ged_dummy_sb	-0.2462	0.228	-1.080	0.280	-0.693	0.201
l1_ged_dummy_ns	0.2511	0.205	1.227	0.220	-0.150	0.652
l1_ged_dummy_os	0.4405	0.207	2.130	0.033	0.035	0.846
decay_l12_cw_ged_dummy_sb_0	0.2792	0.292	0.956	0.339	-0.293	0.851
decay_l12_cw_ged_dummy_ns_0	2.9769	0.291	10.228	0.000	2.406	3.547
decay_l12_cw_ged_dummy_os_0	0.7539	0.280	2.693	0.007	0.205	1.303
fvp_lngdpcap_nonoilrent	-0.0527	0.136	-0.386	0.699	-0.320	0.215
fvp_lngdpcap_oilrent	-0.0008	0.035	-0.023	0.982	-0.069	0.068
fvp_grgdpcap_oilrent	0.0056	0.191	0.029	0.977	-0.369	0.380
fvp_grgdpcap_nonoilrent	-0.8305	0.487	-1.706	0.088	-1.785	0.124
ln_fvp_timeindep	0.0302	0.182	0.166	0.868	-0.326	0.386
ln_fvp_timesincepreindepwar	-0.1274	0.165	-0.772	0.440	-0.451	0.196
ln_fvp_timesinceregimechange	-0.0604	0.085	-0.711	0.477	-0.227	0.106
fvp_demo	-0.5016	0.247	-2.028	0.043	-0.986	-0.017
fvp_semi	-0.3279	0.211	-1.551	0.121	-0.742	0.087
fvp_prop_excluded	-1.1609	0.356	-3.261	0.001	-1.859	-0.463
ln_fvp_population200	0.4000	0.071	5.641	0.000	0.261	0.539
ssp2_edu_sec_15_24_prop	-0.0956	0.538	-0.178	0.859	-1.150	0.959
ssp2_urban_share_iiasa	0.0047	0.006	0.726	0.468	-0.008	0.017
Intercept	-5.5866	1.147	-4.872	0.000	-7.834	-3.339

2.8.3 os_fcast

Dep. Variable:		ged_dummy_os	No. Observations:		3914	
Model:		Logit	Df Residuals:		3883	
Method:		MLE	Df Model:		30	
Date:		Wed, 26 Sep 2018	Pseudo R-squ.:		0.5630	
Time:		12:17:41	Log-Likelihood:		-1134.3	
converged:		True	LL-Null:		-2595.5	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	0.4156	0.169	2.454	0.014	0.084	0.747
l3_ged_dummy_os	0.2639	0.165	1.600	0.110	-0.059	0.587
l4_ged_dummy_os	0.4227	0.166	2.547	0.011	0.097	0.748
l5_ged_dummy_os	0.0271	0.167	0.162	0.871	-0.300	0.354
l6_ged_dummy_os	0.0154	0.167	0.092	0.926	-0.311	0.342
l7_ged_dummy_os	0.1055	0.166	0.636	0.525	-0.220	0.431
l8_ged_dummy_os	0.1498	0.168	0.890	0.374	-0.180	0.480
l9_ged_dummy_os	0.1599	0.167	0.960	0.337	-0.167	0.486
l10_ged_dummy_os	0.1506	0.172	0.877	0.381	-0.186	0.487
l11_ged_dummy_os	0.1853	0.167	1.111	0.267	-0.142	0.512
l12_ged_dummy_os	0.2707	0.166	1.633	0.102	-0.054	0.596
l1_ged_dummy_sb	0.2411	0.182	1.324	0.186	-0.116	0.598
l1_ged_dummy_ns	0.3645	0.219	1.661	0.097	-0.066	0.795
l1_ged_dummy_os	0.7333	0.170	4.304	0.000	0.399	1.067
decay_l2_cw_ged_dummy_sb_0	0.8655	0.214	4.036	0.000	0.445	1.286
decay_l2_cw_ged_dummy_ns_0	0.0749	0.215	0.348	0.728	-0.347	0.496
decay_l2_cw_ged_dummy_os_0	2.3829	0.244	9.765	0.000	1.905	2.861
fvp_lngdpcap_nonoilrent	-0.4473	0.111	-4.039	0.000	-0.664	-0.230
fvp_lngdpcap_oilrent	0.0462	0.027	1.733	0.083	-0.006	0.098
fvp_grgdpcap_oilrent	0.0328	0.155	0.212	0.832	-0.271	0.337
fvp_grgdpcap_nonoilrent	-0.4208	0.327	-1.288	0.198	-1.061	0.219
ln_fvp_timeindep	0.0316	0.152	0.208	0.835	-0.265	0.329
ln_fvp_timesincepreindepwar	0.0313	0.133	0.236	0.813	-0.228	0.291
ln_fvp_timesinceregimechange	0.0404	0.069	0.586	0.558	-0.095	0.175
fvp_demo	-0.2770	0.199	-1.394	0.163	-0.667	0.112
fvp_semi	-0.2091	0.173	-1.212	0.226	-0.547	0.129
fvp_prop_excluded	0.3226	0.239	1.351	0.177	-0.146	0.791
ln_fvp_population200	0.2186	0.059	3.736	0.000	0.104	0.333
ssp2_edu_sec_15_24_prop	0.3141	0.411	0.765	0.444	-0.491	1.119
ssp2_urban_share_iiasa	0.0070	0.005	1.395	0.163	-0.003	0.017
Intercept	-1.6501	0.946	-1.744	0.081	-3.504	0.204

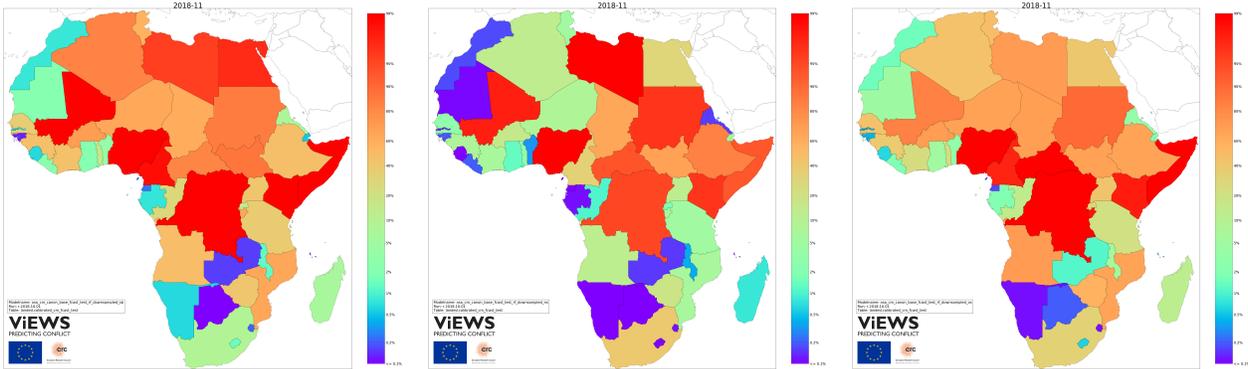
2.8.4 sb_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_sb					
Model:	Logit					
Method:	MLE					
Date:	Wed, 26 Sep 2018					
Time:	12:16:11					
converged:	True					
No. Observations:					3388	
Df Residuals:					3357	
Df Model:					30	
Pseudo R-squ.:					0.6511	
Log-Likelihood:					-782.75	
LL-Null:					-2243.7	
l2_ged_dummy_sb	0.4405	0.209	2.104	0.035	0.030	0.851
l3_ged_dummy_sb	0.5244	0.210	2.493	0.013	0.112	0.937
l4_ged_dummy_sb	0.0612	0.216	0.283	0.777	-0.363	0.485
l5_ged_dummy_sb	0.7016	0.222	3.153	0.002	0.265	1.138
l6_ged_dummy_sb	-0.1679	0.218	-0.769	0.442	-0.596	0.260
l7_ged_dummy_sb	0.1490	0.234	0.637	0.524	-0.309	0.607
l8_ged_dummy_sb	0.3588	0.223	1.607	0.108	-0.079	0.796
l9_ged_dummy_sb	-0.0365	0.220	-0.166	0.868	-0.468	0.395
l10_ged_dummy_sb	0.0376	0.220	0.171	0.864	-0.394	0.469
l11_ged_dummy_sb	0.2411	0.227	1.065	0.287	-0.203	0.685
l12_ged_dummy_sb	0.2465	0.209	1.180	0.238	-0.163	0.656
l1_ged_dummy_sb	0.5945	0.211	2.818	0.005	0.181	1.008
l1_ged_dummy_ns	0.1575	0.290	0.543	0.587	-0.411	0.726
l1_ged_dummy_os	0.1847	0.220	0.841	0.400	-0.246	0.615
decay_l2_cw_ged_dummy_sb_0	2.8817	0.290	9.952	0.000	2.314	3.449
decay_l2_cw_ged_dummy_ns_0	0.3264	0.280	1.166	0.244	-0.222	0.875
decay_l2_cw_ged_dummy_os_0	1.0491	0.267	3.934	0.000	0.526	1.572
fvp_lngdpcap_nonoilrent	0.4325	0.158	2.735	0.006	0.123	0.742
fvp_lngdpcap_oilrent	0.0256	0.033	0.778	0.437	-0.039	0.090
fvp_grgdpcap_oilrent	-0.0834	0.197	-0.424	0.671	-0.469	0.302
fvp_grgdpcap_nonoilrent	-1.3091	0.460	-2.847	0.004	-2.210	-0.408
ln_fvp_timeindep	0.2108	0.206	1.024	0.306	-0.193	0.615
ln_fvp_timesincepreindepwar	-0.4024	0.171	-2.348	0.019	-0.738	-0.067
ln_fvp_timesinceregimechange	-0.3027	0.096	-3.164	0.002	-0.490	-0.115
fvp_demo	-0.5578	0.224	-2.487	0.013	-0.997	-0.118
fvp_semi	-0.3815	0.197	-1.934	0.053	-0.768	0.005
fvp_prop_excluded	-0.1477	0.304	-0.486	0.627	-0.744	0.448
ln_fvp_population200	0.2945	0.074	3.965	0.000	0.149	0.440
ssp2_edu_sec_15_24_prop	-2.5657	0.640	-4.008	0.000	-3.820	-1.311
ssp2_urban_share_iiasa	-0.0120	0.006	-1.931	0.054	-0.024	0.000
Intercept	-5.7108	1.365	-4.184	0.000	-8.386	-3.035

2.8.5 ns_eval

Dep. Variable:		ged_dummy_ns	No. Observations:		2481	
Model:		Logit	Df Residuals:		2450	
Method:		MLE	Df Model:		30	
Date:		Wed, 26 Sep 2018	Pseudo R-squ.:		0.6258	
Time:		12:16:23	Log-Likelihood:		-637.99	
converged:		True	LL-Null:		-1705.1	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.8318	0.235	3.546	0.000	0.372	1.292
l3_ged_dummy_ns	-0.4624	0.227	-2.040	0.041	-0.907	-0.018
l4_ged_dummy_ns	0.5022	0.226	2.223	0.026	0.059	0.945
l5_ged_dummy_ns	0.1195	0.215	0.556	0.578	-0.302	0.540
l6_ged_dummy_ns	0.9104	0.232	3.931	0.000	0.457	1.364
l7_ged_dummy_ns	-0.0269	0.227	-0.119	0.905	-0.471	0.417
l8_ged_dummy_ns	0.1637	0.231	0.708	0.479	-0.289	0.617
l9_ged_dummy_ns	-0.0580	0.232	-0.250	0.803	-0.513	0.397
l10_ged_dummy_ns	0.2828	0.230	1.231	0.218	-0.167	0.733
l11_ged_dummy_ns	0.7480	0.240	3.123	0.002	0.279	1.217
l12_ged_dummy_ns	-0.1108	0.226	-0.490	0.624	-0.554	0.333
l1_ged_dummy_sb	-0.0384	0.251	-0.153	0.878	-0.530	0.453
l1_ged_dummy_ns	0.4940	0.227	2.173	0.030	0.049	0.939
l1_ged_dummy_os	0.5077	0.234	2.167	0.030	0.048	0.967
decay_l12_cw_ged_dummy_sb_0	0.0635	0.316	0.201	0.841	-0.557	0.684
decay_l12_cw_ged_dummy_ns_0	2.9581	0.331	8.938	0.000	2.309	3.607
decay_l12_cw_ged_dummy_os_0	0.6837	0.297	2.305	0.021	0.102	1.265
fvp_lngdpcap_nonoilrent	0.2179	0.158	1.383	0.167	-0.091	0.527
fvp_lngdpcap_oilrent	-0.0319	0.040	-0.802	0.423	-0.110	0.046
fvp_grgdpcap_oilrent	-0.6068	0.264	-2.295	0.022	-1.125	-0.089
fvp_grgdpcap_nonoilrent	-2.0045	0.581	-3.452	0.001	-3.142	-0.866
ln_fvp_timeindep	-0.0686	0.192	-0.358	0.720	-0.444	0.307
ln_fvp_timesincepreindepwar	-0.0426	0.183	-0.232	0.816	-0.402	0.317
ln_fvp_timesinceregimechange	-0.2018	0.106	-1.903	0.057	-0.410	0.006
fvp_demo	-0.1562	0.277	-0.563	0.574	-0.700	0.388
fvp_semi	0.1198	0.236	0.508	0.611	-0.342	0.582
fvp_prop_excluded	-0.9612	0.408	-2.356	0.018	-1.761	-0.162
ln_fvp_population200	0.4878	0.088	5.516	0.000	0.315	0.661
ssp2_edu_sec_15_24_prop	-0.9601	0.636	-1.510	0.131	-2.206	0.286
ssp2_urban_share_iiasa	0.0050	0.007	0.708	0.479	-0.009	0.019
Intercept	-8.1879	1.391	-5.888	0.000	-10.913	-5.463

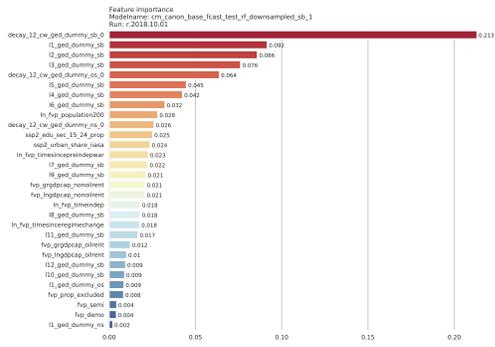
2.9 osa_cm_canon_base_rf



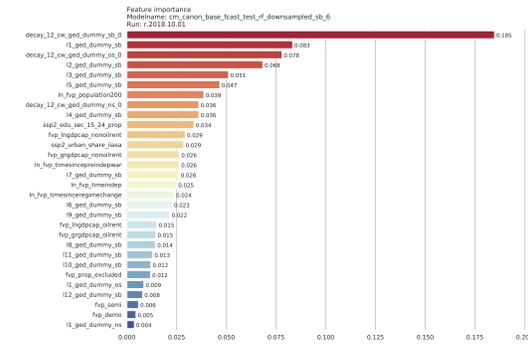
(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 9: Forecasts for October 2018

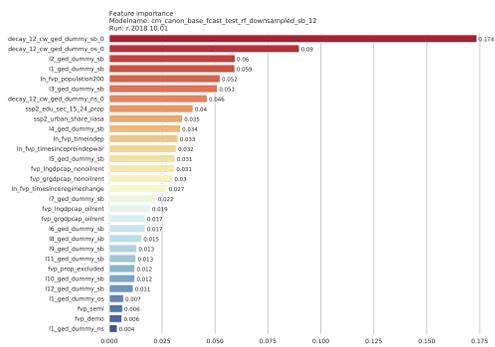
2.9.1 sb_fcast



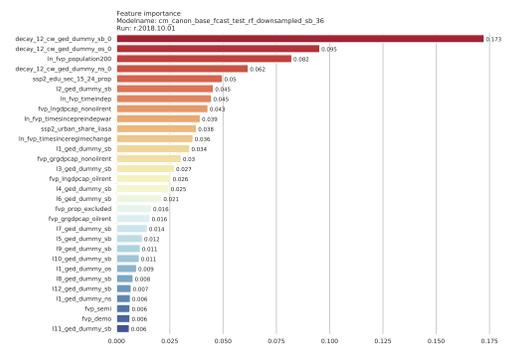
(a) 1 month



(b) 6 months

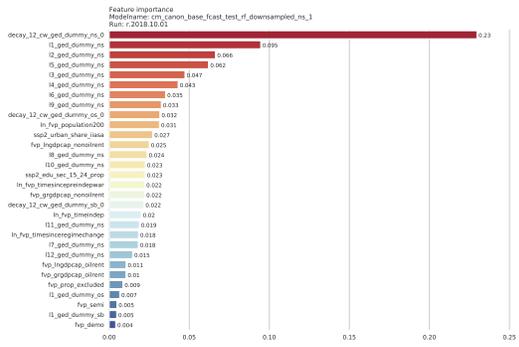


(c) 12 months

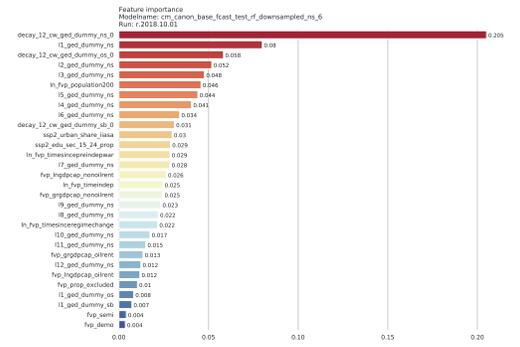


(d) 36 months

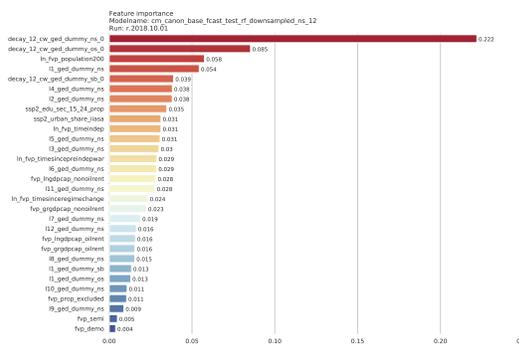
2.9.2 ns_fcst



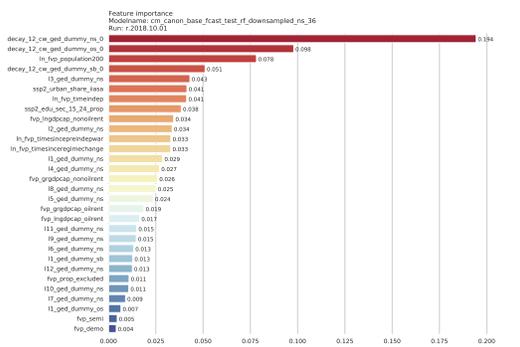
(a) 1 month



(b) 6 months

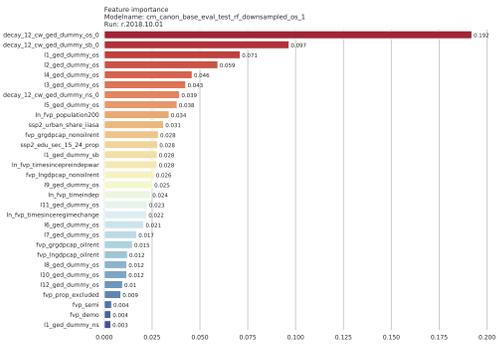


(c) 12 months

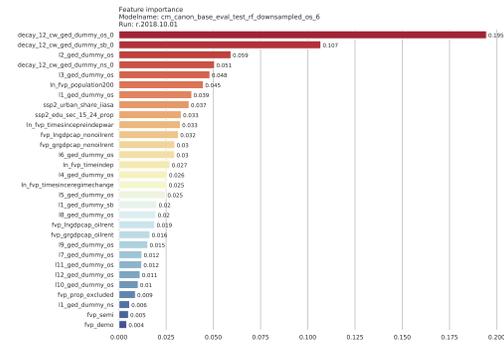


(d) 36 months

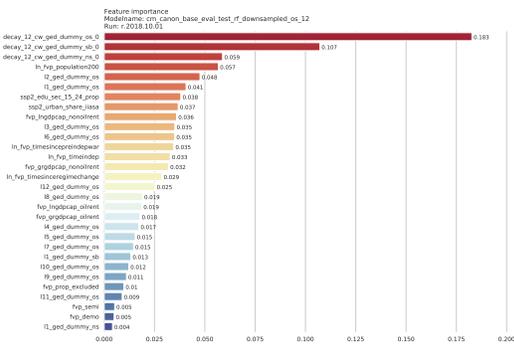
2.9.3 os_fcst



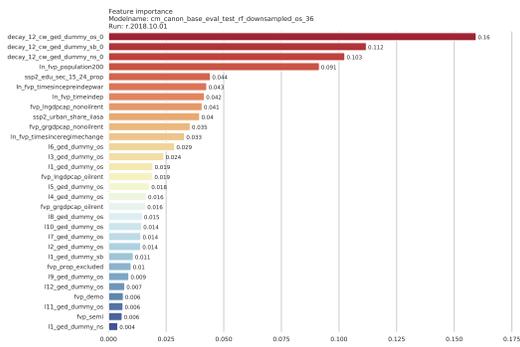
(a) 1 month



(b) 6 months

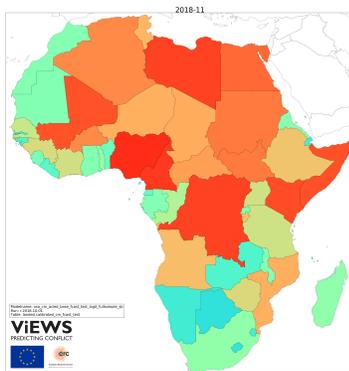


(c) 12 months

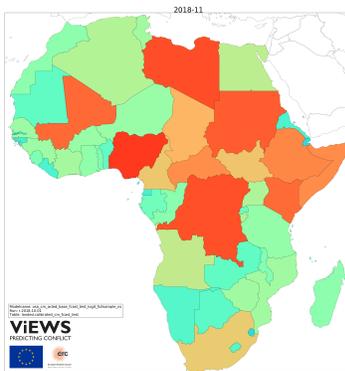


(d) 36 months

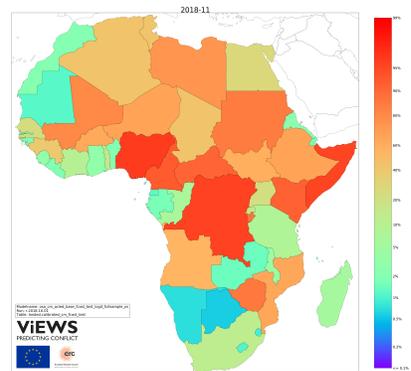
2.10 osa_cm_acled_base_logit



(a) State-based conflict (sb), October 2018



(b) Non-state conflict (ns), October 2018



(c) One-sided violence (os), October 2018

Figure 16: Forecasts for October 2018

2.10.1 sb_fcast

Dep. Variable:		ged_dummy_sb	No. Observations:		3347	
Model:		Logit	Df Residuals:		3314	
Method:		MLE	Df Model:		32	
Date:		Wed, 26 Sep 2018	Pseudo R-squ.:		0.6683	
Time:		12:16:59	Log-Likelihood:		-712.97	
converged:		True	LL-Null:		-2149.5	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	0.6226	0.227	2.741	0.006	0.177	1.068
l3_ged_dummy_sb	0.7496	0.232	3.232	0.001	0.295	1.204
l4_ged_dummy_sb	0.2343	0.226	1.036	0.300	-0.209	0.677
l5_ged_dummy_sb	0.5002	0.233	2.143	0.032	0.043	0.958
l6_ged_dummy_sb	0.1477	0.236	0.627	0.531	-0.314	0.609
l7_ged_dummy_sb	-0.1063	0.233	-0.455	0.649	-0.564	0.351
l8_ged_dummy_sb	0.0667	0.236	0.282	0.778	-0.397	0.530
l9_ged_dummy_sb	-0.0673	0.238	-0.282	0.778	-0.535	0.400
l10_ged_dummy_sb	-0.0906	0.246	-0.369	0.712	-0.572	0.391
l11_ged_dummy_sb	0.7537	0.236	3.188	0.001	0.290	1.217
l12_ged_dummy_sb	-0.0806	0.230	-0.350	0.726	-0.531	0.370
l1_ged_dummy_sb	0.4362	0.223	1.955	0.051	-0.001	0.873
l1_ged_dummy_ns	-0.0454	0.307	-0.148	0.882	-0.647	0.556
l1_ged_dummy_os	0.0737	0.234	0.315	0.753	-0.385	0.533
l1_acled_dummy_pr	0.1455	0.192	0.758	0.449	-0.231	0.522
decay_12_cw_ged_dummy_sb_0	2.5667	0.291	8.828	0.000	1.997	3.137
decay_12_cw_ged_dummy_ns_0	0.5504	0.303	1.819	0.069	-0.043	1.144
decay_12_cw_ged_dummy_os_0	1.1698	0.269	4.341	0.000	0.642	1.698
decay_12_cw_acled_dummy_pr_0	-0.0725	0.321	-0.226	0.821	-0.701	0.556
fvp_lngdpcap_nonoilrent	0.2056	0.157	1.310	0.190	-0.102	0.513
fvp_lngdpcap_oilrent	0.1032	0.034	3.050	0.002	0.037	0.169
fvp_grgdpcap_oilrent	-0.2663	0.177	-1.506	0.132	-0.613	0.080
fvp_grgdpcap_nonoilrent	-1.7364	0.576	-3.013	0.003	-2.866	-0.607
ln_fvp_timeindep	0.3173	0.240	1.323	0.186	-0.153	0.787
ln_fvp_timesincepreindepwar	-0.5802	0.196	-2.968	0.003	-0.963	-0.197
ln_fvp_timesinceregimechange	-0.1826	0.089	-2.051	0.040	-0.357	-0.008
fvp_demo	-0.5184	0.252	-2.053	0.040	-1.013	-0.024
fvp_semi	-0.4918	0.226	-2.180	0.029	-0.934	-0.050
fvp_prop_excluded	-0.3258	0.354	-0.920	0.357	-1.020	0.368
ln_fvp_population200	0.2427	0.078	3.129	0.002	0.091	0.395
ssp2_edu_sec_15_24_prop	-2.2235	0.632	-3.521	0.000	-3.461	-0.986
ssp2_urban_share_iiasa	-0.0098	0.006	-1.517	0.129	-0.023	0.003
Intercept	-3.4466	1.375	-2.506	0.012	-6.142	-0.751

2.10.2 ns_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_ns					
No. Observations:						2432
Model:	Logit					
Df Residuals:						2399
Method:	MLE					
Df Model:						32
Date:	Wed, 26 Sep 2018					
Pseudo R-squ.:						0.6646
Time:	12:17:56					
Log-Likelihood:						-565.10
converged:	True					
LL-Null:						-1685.0
l2_ged_dummy_ns	0.3471	0.241	1.437	0.151	-0.126	0.820
l3_ged_dummy_ns	0.1249	0.243	0.513	0.608	-0.352	0.602
l4_ged_dummy_ns	-0.1038	0.238	-0.436	0.663	-0.570	0.363
l5_ged_dummy_ns	0.2254	0.239	0.942	0.346	-0.244	0.694
l6_ged_dummy_ns	0.4263	0.239	1.783	0.075	-0.042	0.895
l7_ged_dummy_ns	-0.0805	0.247	-0.326	0.745	-0.565	0.404
l8_ged_dummy_ns	0.2805	0.247	1.136	0.256	-0.204	0.765
l9_ged_dummy_ns	-0.2232	0.255	-0.875	0.382	-0.723	0.277
l10_ged_dummy_ns	0.4217	0.244	1.726	0.084	-0.057	0.901
l11_ged_dummy_ns	0.5219	0.245	2.128	0.033	0.041	1.002
l12_ged_dummy_ns	0.3324	0.239	1.392	0.164	-0.136	0.801
l1_ged_dummy_sb	-0.0622	0.264	-0.236	0.814	-0.579	0.455
l1_ged_dummy_ns	0.9291	0.245	3.791	0.000	0.449	1.409
l1_ged_dummy_os	-0.1131	0.248	-0.456	0.649	-0.600	0.373
l1_acled_dummy_pr	0.6987	0.217	3.212	0.001	0.272	1.125
decay_12_cw_ged_dummy_sb_0	0.6026	0.344	1.752	0.080	-0.072	1.277
decay_12_cw_ged_dummy_ns_0	3.0682	0.354	8.677	0.000	2.375	3.761
decay_12_cw_ged_dummy_os_0	0.7971	0.339	2.349	0.019	0.132	1.462
decay_12_cw_acled_dummy_pr_0	-0.7202	0.398	-1.811	0.070	-1.500	0.059
fvp_lngdpcap_nonoilrent	-0.0116	0.170	-0.068	0.946	-0.346	0.322
fvp_lngdpcap_oilrent	-0.0151	0.042	-0.364	0.716	-0.097	0.066
fvp_grgdpcap_oilrent	-0.1239	0.237	-0.522	0.601	-0.588	0.341
fvp_grgdpcap_nonoilrent	-1.3402	0.544	-2.462	0.014	-2.407	-0.273
ln_fvp_timeindep	-0.1681	0.243	-0.692	0.489	-0.644	0.308
ln_fvp_timesincepreindepwar	0.0215	0.206	0.104	0.917	-0.381	0.424
ln_fvp_timesinceregimechange	-0.0409	0.099	-0.413	0.680	-0.235	0.153
fvp_demo	-0.1444	0.310	-0.466	0.641	-0.752	0.463
fvp_semi	-0.1534	0.278	-0.551	0.581	-0.699	0.392
fvp_prop_excluded	-0.4978	0.476	-1.045	0.296	-1.431	0.436
ln_fvp_population200	0.4379	0.084	5.214	0.000	0.273	0.602
ssp2_edu_sec_15_24_prop	-0.9001	0.641	-1.404	0.160	-2.157	0.357
ssp2_urban_share_iiasa	0.0087	0.008	1.148	0.251	-0.006	0.023
Intercept	-6.2808	1.387	-4.529	0.000	-8.999	-3.563

2.10.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	3104
Model:	Logit	Df Residuals:	3071
Method:	MLE	Df Model:	32
Date:	Wed, 26 Sep 2018	Pseudo R-squ.:	0.5841
Time:	12:17:09	Log-Likelihood:	-855.57
converged:	True	LL-Null:	-2057.0

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	0.5611	0.197	2.853	0.004	0.176	0.947
l3_ged_dummy_os	0.0510	0.192	0.266	0.790	-0.325	0.427
l4_ged_dummy_os	0.2539	0.191	1.331	0.183	-0.120	0.628
l5_ged_dummy_os	0.2555	0.195	1.311	0.190	-0.127	0.638
l6_ged_dummy_os	0.0606	0.200	0.302	0.762	-0.332	0.453
l7_ged_dummy_os	-0.2476	0.203	-1.222	0.222	-0.645	0.150
l8_ged_dummy_os	0.2438	0.203	1.201	0.230	-0.154	0.642
l9_ged_dummy_os	0.1436	0.196	0.734	0.463	-0.240	0.527
l10_ged_dummy_os	0.1604	0.202	0.792	0.428	-0.236	0.557
l11_ged_dummy_os	0.0771	0.199	0.387	0.699	-0.313	0.467
l12_ged_dummy_os	0.2473	0.200	1.237	0.216	-0.145	0.639
l1_ged_dummy_sb	0.1658	0.211	0.784	0.433	-0.249	0.580
l1_ged_dummy_ns	0.0846	0.252	0.336	0.737	-0.409	0.578
l1_ged_dummy_os	0.4897	0.196	2.501	0.012	0.106	0.873
l1_acled_dummy_pr	0.1973	0.170	1.159	0.246	-0.136	0.531
decay_12_cw_ged_dummy_sb_0	1.1528	0.244	4.733	0.000	0.675	1.630
decay_12_cw_ged_dummy_ns_0	0.2853	0.263	1.085	0.278	-0.230	0.801
decay_12_cw_ged_dummy_os_0	2.4084	0.267	9.035	0.000	1.886	2.931
decay_12_cw_acled_dummy_pr_0	0.1839	0.315	0.585	0.559	-0.433	0.801
fvp_lngdpcap_nonoilrent	-0.4887	0.132	-3.690	0.000	-0.748	-0.229
fvp_lngdpcap_oilrent	0.0704	0.031	2.255	0.024	0.009	0.132
fvp_grgdpcap_oilrent	-0.1752	0.167	-1.052	0.293	-0.502	0.151
fvp_grgdpcap_nonoilrent	0.1519	0.349	0.435	0.663	-0.532	0.836
ln_fvp_timeindep	-0.2722	0.196	-1.389	0.165	-0.656	0.112
ln_fvp_timesincepreindepwar	0.2597	0.165	1.578	0.115	-0.063	0.582
ln_fvp_timesinceregimechange	0.0188	0.079	0.237	0.812	-0.137	0.174
fvp_demo	-0.3537	0.252	-1.405	0.160	-0.847	0.140
fvp_semi	-0.1401	0.224	-0.626	0.531	-0.579	0.299
fvp_prop_excluded	-0.1893	0.284	-0.666	0.505	-0.746	0.368
ln_fvp_population200	0.2319	0.071	3.257	0.001	0.092	0.371
ssp2_edu_sec_15_24_prop	0.5199	0.485	1.072	0.284	-0.430	1.470
ssp2_urban_share_iiasa	-0.0026	0.006	-0.435	0.663	-0.014	0.009
Intercept	-1.1350	1.154	-0.983	0.326	-3.397	1.128

2.10.4 pr_fcast

Dep. Variable:		acled_dummy_pr	No. Observations:		6044	
Model:		Logit	Df Residuals:		6011	
Method:		MLE	Df Model:		32	
Date:		Wed, 26 Sep 2018	Pseudo R-squ.:		0.3369	
Time:		12:16:40	Log-Likelihood:		-1621.6	
converged:		True	LL-Null:		-2445.5	
	coef	std err	z	P> z	[0.025	0.975]
l2_acled_dummy_pr	0.4934	0.124	3.986	0.000	0.251	0.736
l3_acled_dummy_pr	0.2798	0.122	2.298	0.022	0.041	0.519
l4_acled_dummy_pr	0.3880	0.123	3.158	0.002	0.147	0.629
l5_acled_dummy_pr	0.4251	0.121	3.504	0.000	0.187	0.663
l6_acled_dummy_pr	0.2711	0.122	2.227	0.026	0.033	0.510
l7_acled_dummy_pr	0.2639	0.121	2.174	0.030	0.026	0.502
l8_acled_dummy_pr	0.3011	0.122	2.469	0.014	0.062	0.540
l9_acled_dummy_pr	0.1054	0.122	0.862	0.389	-0.134	0.345
l10_acled_dummy_pr	0.4307	0.119	3.633	0.000	0.198	0.663
l11_acled_dummy_pr	0.2220	0.119	1.859	0.063	-0.012	0.456
l12_acled_dummy_pr	0.3634	0.123	2.961	0.003	0.123	0.604
l1_ged_dummy_sb	0.1238	0.197	0.627	0.531	-0.263	0.511
l1_ged_dummy_ns	0.5445	0.266	2.048	0.041	0.023	1.066
l1_ged_dummy_os	-0.0940	0.196	-0.480	0.631	-0.478	0.290
l1_acled_dummy_pr	0.4288	0.125	3.438	0.001	0.184	0.673
decay_12_cw_ged_dummy_sb_0	-0.2341	0.207	-1.132	0.258	-0.639	0.171
decay_12_cw_ged_dummy_ns_0	-0.3790	0.231	-1.642	0.101	-0.831	0.073
decay_12_cw_ged_dummy_os_0	0.0852	0.208	0.410	0.682	-0.322	0.493
decay_12_cw_acled_dummy_pr_0	0.9822	0.214	4.581	0.000	0.562	1.402
fvp_lngdpcap_nonoilrent	-0.1471	0.091	-1.612	0.107	-0.326	0.032
fvp_lngdpcap_oilrent	0.0043	0.022	0.192	0.847	-0.039	0.048
fvp_grgdpcap_oilrent	-0.1143	0.102	-1.118	0.264	-0.315	0.086
fvp_grgdpcap_nonoilrent	-0.3201	0.310	-1.034	0.301	-0.927	0.287
ln_fvp_timeindep	0.0265	0.132	0.200	0.841	-0.233	0.286
ln_fvp_timesincepreindepwar	-0.0391	0.109	-0.358	0.721	-0.253	0.175
ln_fvp_timesinceregimechange	0.0309	0.064	0.484	0.628	-0.094	0.156
fvp_demo	0.0016	0.173	0.009	0.993	-0.337	0.340
fvp_semi	0.0019	0.154	0.012	0.990	-0.299	0.303
fvp_prop_excluded	-0.1931	0.203	-0.952	0.341	-0.591	0.205
ln_fvp_population200	0.2577	0.042	6.134	0.000	0.175	0.340
ssp2_edu_sec_15_24_prop	0.4480	0.372	1.204	0.229	-0.282	1.177
ssp2_urban_share_iiasa	0.0026	0.004	0.673	0.501	-0.005	0.010
Intercept	-1.8748	0.847	-2.214	0.027	-3.534	-0.215

2.10.5 sb_eval

Dep. Variable:		ged_dummy_sb	No. Observations:		2589	
Model:		Logit	Df Residuals:		2556	
Method:		MLE	Df Model:		32	
Date:		Wed, 26 Sep 2018	Pseudo R-squ.:		0.6909	
Time:		12:16:08	Log-Likelihood:		-528.53	
converged:		True	LL-Null:		-1709.8	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	0.4030	0.264	1.525	0.127	-0.115	0.921
l3_ged_dummy_sb	0.6723	0.265	2.534	0.011	0.152	1.192
l4_ged_dummy_sb	0.1683	0.268	0.627	0.531	-0.358	0.694
l5_ged_dummy_sb	0.0986	0.277	0.356	0.722	-0.444	0.641
l6_ged_dummy_sb	0.0300	0.276	0.109	0.913	-0.511	0.571
l7_ged_dummy_sb	-0.1634	0.284	-0.576	0.565	-0.720	0.393
l8_ged_dummy_sb	0.2186	0.280	0.781	0.435	-0.330	0.767
l9_ged_dummy_sb	-0.0891	0.285	-0.313	0.755	-0.648	0.470
l10_ged_dummy_sb	0.7893	0.288	2.744	0.006	0.225	1.353
l11_ged_dummy_sb	0.3372	0.276	1.224	0.221	-0.203	0.877
l12_ged_dummy_sb	0.0524	0.268	0.195	0.845	-0.473	0.578
l1_ged_dummy_sb	0.2984	0.268	1.115	0.265	-0.226	0.823
l1_ged_dummy_ns	0.3844	0.366	1.050	0.294	-0.333	1.102
l1_ged_dummy_os	0.7547	0.294	2.565	0.010	0.178	1.331
l1_acled_dummy_pr	-0.0633	0.230	-0.275	0.784	-0.515	0.388
decay_12_cw_ged_dummy_sb_0	2.9751	0.338	8.789	0.000	2.312	3.639
decay_12_cw_ged_dummy_ns_0	0.5605	0.353	1.587	0.112	-0.132	1.253
decay_12_cw_ged_dummy_os_0	1.2732	0.310	4.111	0.000	0.666	1.880
decay_12_cw_acled_dummy_pr_0	0.0394	0.355	0.111	0.912	-0.657	0.736
fvp_lngdpcap_nonoilrent	0.3076	0.202	1.526	0.127	-0.087	0.703
fvp_lngdpcap_oilrent	0.0288	0.039	0.746	0.456	-0.047	0.105
fvp_grgdpcap_oilrent	-0.0197	0.204	-0.097	0.923	-0.420	0.381
fvp_grgdpcap_nonoilrent	-1.4743	0.562	-2.622	0.009	-2.576	-0.372
ln_fvp_timeindep	0.1900	0.268	0.710	0.478	-0.334	0.715
ln_fvp_timesincepreindepwar	-0.3360	0.220	-1.529	0.126	-0.767	0.095
ln_fvp_timesinceregimechange	-0.1785	0.116	-1.539	0.124	-0.406	0.049
fvp_demo	-0.5922	0.290	-2.042	0.041	-1.161	-0.024
fvp_semi	-0.1909	0.261	-0.731	0.465	-0.703	0.321
fvp_prop_excluded	0.1452	0.405	0.359	0.720	-0.648	0.938
ln_fvp_population200	0.1398	0.093	1.505	0.132	-0.042	0.322
ssp2_edu_sec_15_24_prop	-2.1420	0.785	-2.728	0.006	-3.681	-0.603
ssp2_urban_share_iiasa	-0.0091	0.008	-1.184	0.236	-0.024	0.006
Intercept	-4.2572	1.700	-2.505	0.012	-7.589	-0.926

2.10.6 ns_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_ns					
No. Observations:						1914
Model:	Logit					
Df Residuals:						1881
Method:	MLE					
Df Model:						32
Date:	Wed, 26 Sep 2018					
Pseudo R-squ.:						0.6638
Time:	12:16:27					
Log-Likelihood:						-443.61
converged:	True					
						-1319.5
l2_ged_dummy_ns	0.4970	0.273	1.819	0.069	-0.039	1.033
l3_ged_dummy_ns	-0.1104	0.268	-0.412	0.681	-0.636	0.415
l4_ged_dummy_ns	0.2269	0.266	0.852	0.394	-0.295	0.749
l5_ged_dummy_ns	0.5260	0.275	1.914	0.056	-0.013	1.065
l6_ged_dummy_ns	0.4574	0.276	1.658	0.097	-0.083	0.998
l7_ged_dummy_ns	0.0133	0.270	0.049	0.961	-0.516	0.543
l8_ged_dummy_ns	0.2308	0.282	0.819	0.413	-0.322	0.783
l9_ged_dummy_ns	0.0902	0.296	0.305	0.760	-0.489	0.670
l10_ged_dummy_ns	0.3814	0.289	1.319	0.187	-0.185	0.948
l11_ged_dummy_ns	0.5362	0.285	1.880	0.060	-0.023	1.095
l12_ged_dummy_ns	-0.0450	0.278	-0.161	0.872	-0.591	0.501
l1_ged_dummy_sb	0.1638	0.305	0.536	0.592	-0.435	0.762
l1_ged_dummy_ns	0.5691	0.271	2.102	0.036	0.038	1.100
l1_ged_dummy_os	0.2760	0.293	0.942	0.346	-0.298	0.850
l1_acled_dummy_pr	0.5079	0.249	2.038	0.042	0.019	0.996
decay_l2_cw_ged_dummy_sb_0	0.2056	0.383	0.536	0.592	-0.545	0.957
decay_l2_cw_ged_dummy_ns_0	2.9025	0.393	7.382	0.000	2.132	3.673
decay_l2_cw_ged_dummy_os_0	0.5898	0.352	1.678	0.093	-0.099	1.279
decay_l2_cw_acled_dummy_pr_0	-0.6150	0.421	-1.462	0.144	-1.440	0.210
fvp_lngdpcap_nonoilrent	0.2153	0.204	1.053	0.292	-0.185	0.616
fvp_lngdpcap_oilrent	0.0252	0.049	0.510	0.610	-0.072	0.122
fvp_grgdpcap_oilrent	-0.3956	0.252	-1.572	0.116	-0.889	0.097
fvp_grgdpcap_nonoilrent	-3.5173	1.131	-3.110	0.002	-5.734	-1.301
ln_fvp_timeindep	-0.2013	0.298	-0.676	0.499	-0.785	0.382
ln_fvp_timesincepreindepwar	0.3200	0.259	1.238	0.216	-0.187	0.827
ln_fvp_timesinceregimechange	-0.1677	0.128	-1.312	0.189	-0.418	0.083
fvp_demo	0.2399	0.377	0.637	0.524	-0.498	0.978
fvp_semi	0.3566	0.350	1.020	0.308	-0.329	1.042
fvp_prop_excluded	-0.7616	0.574	-1.326	0.185	-1.887	0.364
ln_fvp_population200	0.6046	0.124	4.870	0.000	0.361	0.848
ssp2_edu_sec_15_24_prop	-1.1840	0.744	-1.591	0.112	-2.643	0.275
ssp2_urban_share_iiasa	0.0025	0.009	0.291	0.771	-0.015	0.020
Intercept	-10.4414	1.822	-5.729	0.000	-14.013	-6.869

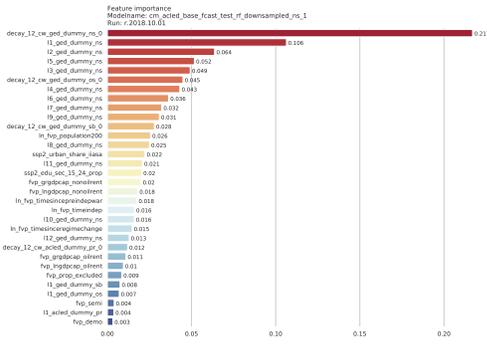
2.10.7 os_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_os					
No. Observations:						2420
Model:	Logit					
Df Residuals:						2387
Method:	MLE					
Df Model:						32
Date:	Wed, 26 Sep 2018					
Pseudo R-squ.:						0.6152
Time:	12:15:47					
Log-Likelihood:						-628.97
converged:	True					
LL-Null:						-1634.6
l2_ged_dummy_os	0.7985	0.232	3.446	0.001	0.344	1.253
l3_ged_dummy_os	0.4057	0.227	1.788	0.074	-0.039	0.850
l4_ged_dummy_os	0.3830	0.234	1.639	0.101	-0.075	0.841
l5_ged_dummy_os	0.4345	0.237	1.831	0.067	-0.030	0.899
l6_ged_dummy_os	0.0710	0.230	0.308	0.758	-0.380	0.522
l7_ged_dummy_os	-0.0960	0.228	-0.421	0.674	-0.542	0.350
l8_ged_dummy_os	0.1851	0.231	0.801	0.423	-0.268	0.638
l9_ged_dummy_os	0.1358	0.229	0.594	0.553	-0.312	0.584
l10_ged_dummy_os	0.3237	0.243	1.331	0.183	-0.153	0.800
l11_ged_dummy_os	0.1108	0.229	0.484	0.629	-0.338	0.560
l12_ged_dummy_os	-0.1035	0.236	-0.439	0.661	-0.566	0.359
l1_ged_dummy_sb	0.5524	0.254	2.171	0.030	0.054	1.051
l1_ged_dummy_ns	0.4283	0.300	1.426	0.154	-0.160	1.017
l1_ged_dummy_os	0.3450	0.230	1.500	0.134	-0.106	0.796
l1_acled_dummy_pr	0.0350	0.199	0.176	0.860	-0.355	0.425
decay_12_cw_ged_dummy_sb_0	0.9143	0.279	3.279	0.001	0.368	1.461
decay_12_cw_ged_dummy_ns_0	0.2203	0.299	0.737	0.461	-0.366	0.806
decay_12_cw_ged_dummy_os_0	2.3790	0.312	7.627	0.000	1.768	2.990
decay_12_cw_acled_dummy_pr_0	0.6305	0.356	1.773	0.076	-0.066	1.327
fvp_lngdpcap_nonoilrent	-0.2673	0.174	-1.538	0.124	-0.608	0.073
fvp_lngdpcap_oilrent	0.0138	0.037	0.368	0.713	-0.060	0.087
fvp_grgdpcap_oilrent	-0.0094	0.171	-0.055	0.956	-0.345	0.326
fvp_grgdpcap_nonoilrent	-0.1938	0.521	-0.372	0.710	-1.215	0.828
ln_fvp_timeindep	-0.4052	0.215	-1.882	0.060	-0.827	0.017
ln_fvp_timesincepreindepwar	0.3087	0.189	1.637	0.102	-0.061	0.678
ln_fvp_timesinceregimechange	-0.0514	0.111	-0.463	0.643	-0.269	0.166
fvp_demo	-0.4615	0.317	-1.457	0.145	-1.082	0.159
fvp_semi	-0.2210	0.275	-0.804	0.422	-0.760	0.318
fvp_prop_excluded	0.3732	0.332	1.126	0.260	-0.277	1.023
ln_fvp_population200	0.2173	0.091	2.388	0.017	0.039	0.396
ssp2_edu_sec_15_24_prop	-0.2379	0.635	-0.375	0.708	-1.482	1.006
ssp2_urban_share_iiasa	0.0089	0.007	1.306	0.192	-0.004	0.022
Intercept	-2.7418	1.522	-1.802	0.072	-5.724	0.241

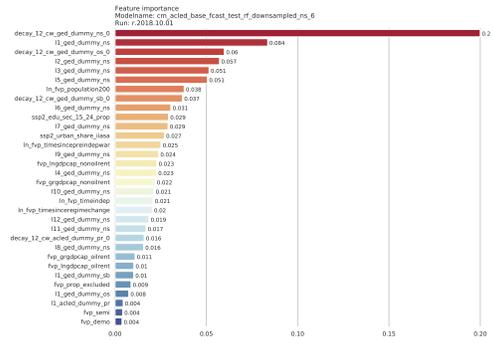
2.10.8 pr_eval

Dep. Variable:		acled_dummy_pr	No. Observations:		4349	
Model:		Logit	Df Residuals:		4316	
Method:		MLE	Df Model:		32	
Date:		Wed, 26 Sep 2018	Pseudo R-squ.:		0.2883	
Time:		12:16:01	Log-Likelihood:		-1443.9	
converged:		True	LL-Null:		-2029.0	
	coef	std err	z	P> z	[0.025	0.975]
l2_acled_dummy_pr	0.4874	0.129	3.784	0.000	0.235	0.740
l3_acled_dummy_pr	0.2009	0.124	1.623	0.105	-0.042	0.444
l4_acled_dummy_pr	0.3670	0.128	2.864	0.004	0.116	0.618
l5_acled_dummy_pr	0.2420	0.124	1.948	0.051	-0.001	0.486
l6_acled_dummy_pr	0.0592	0.124	0.477	0.634	-0.184	0.303
l7_acled_dummy_pr	0.3551	0.129	2.761	0.006	0.103	0.607
l8_acled_dummy_pr	0.3215	0.129	2.491	0.013	0.069	0.575
l9_acled_dummy_pr	0.1743	0.130	1.344	0.179	-0.080	0.428
l10_acled_dummy_pr	0.6137	0.129	4.759	0.000	0.361	0.866
l11_acled_dummy_pr	0.3123	0.127	2.464	0.014	0.064	0.561
l12_acled_dummy_pr	-0.0021	0.125	-0.017	0.987	-0.247	0.243
l1_ged_dummy_sb	0.0012	0.214	0.005	0.996	-0.418	0.421
l1_ged_dummy_ns	0.5984	0.290	2.060	0.039	0.029	1.168
l1_ged_dummy_os	0.2735	0.217	1.259	0.208	-0.152	0.699
l1_acled_dummy_pr	0.5852	0.132	4.443	0.000	0.327	0.843
decay_12_cw_ged_dummy_sb_0	-0.3376	0.219	-1.539	0.124	-0.768	0.092
decay_12_cw_ged_dummy_ns_0	-0.5472	0.241	-2.274	0.023	-1.019	-0.076
decay_12_cw_ged_dummy_os_0	0.4030	0.217	1.860	0.063	-0.022	0.828
decay_12_cw_acled_dummy_pr_0	0.8458	0.224	3.772	0.000	0.406	1.285
fvp_lngdpcap_nonoilrent	0.0212	0.098	0.216	0.829	-0.171	0.213
fvp_lngdpcap_oilrent	-0.0017	0.023	-0.074	0.941	-0.048	0.044
fvp_grgdpcap_oilrent	0.1013	0.127	0.799	0.425	-0.147	0.350
fvp_grgdpcap_nonoilrent	0.0667	0.298	0.224	0.823	-0.517	0.651
ln_fvp_timeindep	0.1154	0.139	0.829	0.407	-0.157	0.388
ln_fvp_timesincepreindepwar	-0.0557	0.113	-0.495	0.621	-0.276	0.165
ln_fvp_timesinceregimechange	-0.0725	0.075	-0.969	0.333	-0.219	0.074
fvp_demo	-0.0144	0.185	-0.078	0.938	-0.376	0.347
fvp_semi	0.2064	0.163	1.263	0.207	-0.114	0.527
fvp_prop_excluded	-0.3616	0.214	-1.693	0.090	-0.780	0.057
ln_fvp_population200	0.2475	0.046	5.368	0.000	0.157	0.338
ssp2_edu_sec_15_24_prop	0.4972	0.391	1.272	0.203	-0.269	1.263
ssp2_urban_share_iiasa	-0.0083	0.004	-2.057	0.040	-0.016	-0.000
Intercept	-2.6646	0.912	-2.921	0.003	-4.453	-0.876

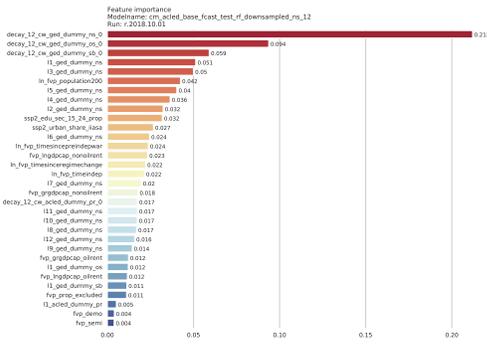
2.11.2 ns_fcst



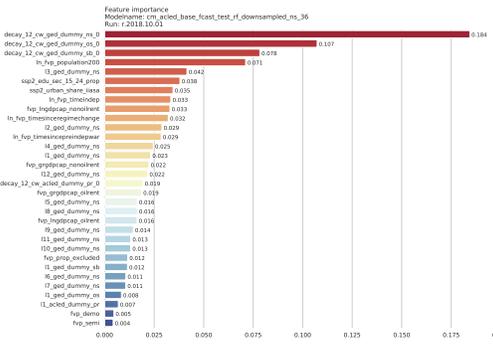
(a) 1 month



(b) 6 months

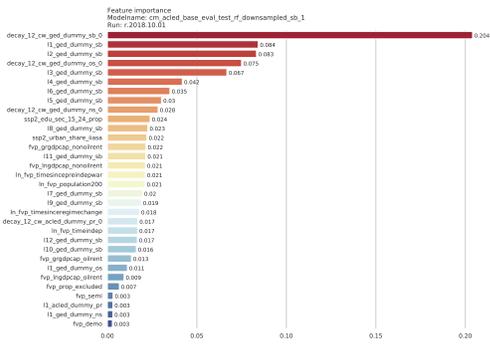


(c) 12 months

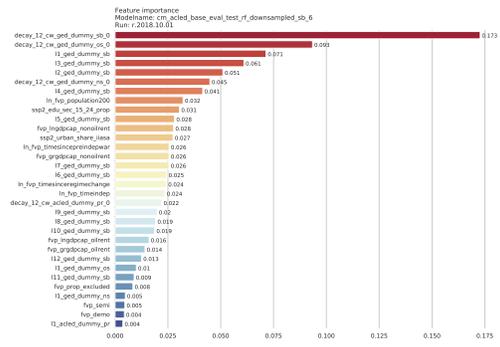


(d) 36 months

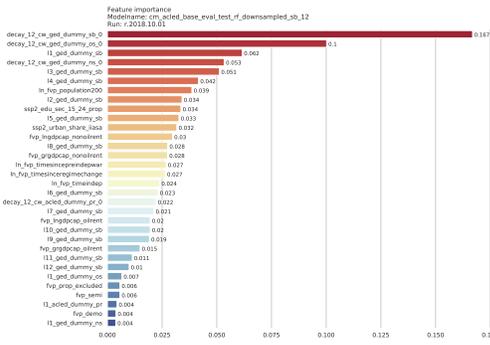
2.11.5 sb_eval



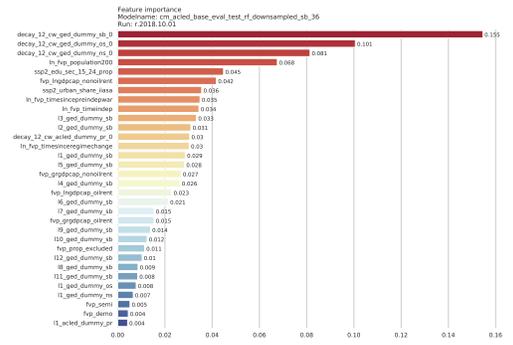
(a) 1 month



(b) 6 months

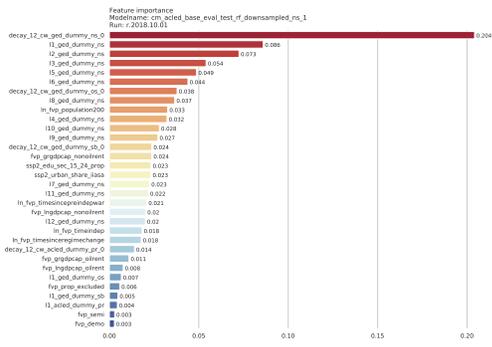


(c) 12 months

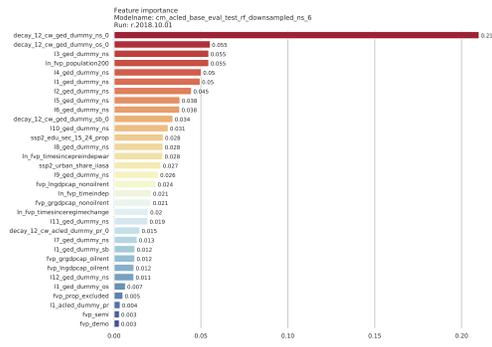


(d) 36 months

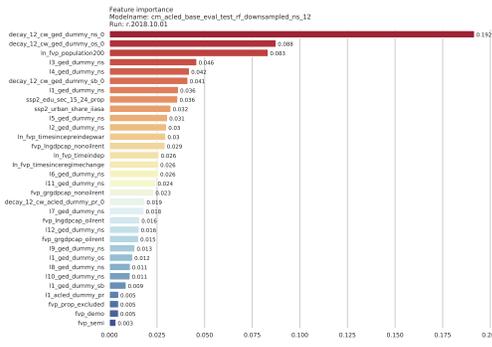
2.11.6 ns_eval



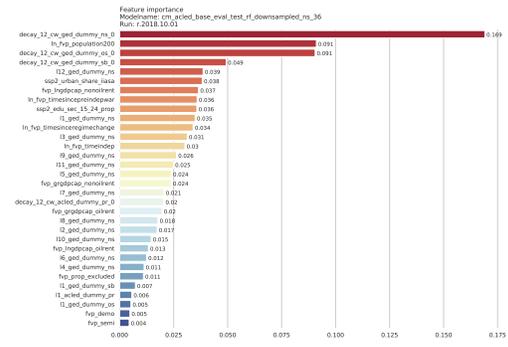
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months

3 Overview of pgm-level ensemble

Model name
ds_pgm_canon_nocm_eval_test_sb
ds_pgm_canon_wcm_eval_test_sb
ds_pgm_acled_nocm_eval_test_sb
cl_ds_pgm_canon_nocm_eval_test_sb
ds_pgm_acled_soc_eval_test_sb
ds_pgm_acled_nat_eval_test_sb
ds_pgm_acled_mean_eval_test_sb
ds_pgm_acled_histonly_eval_test_sb
ds_pgm_acled_protest_eval_test_sb
ds_pgm_acled_cm_eval_test_sb
osa_pgm_acled_nocm_eval_test_logit_fullsample_sb
osa_pgm_canon_nocm_eval_test_logit_fullsample_sb
osa_pgm_canon_wcm_eval_test_logit_fullsample_sb
cl_osa_pgm_canon_nocm_eval_test_logit_fullsample_sb
osa_pgm_acled_soc_eval_test_logit_fullsample_sb
osa_pgm_acled_nat_eval_test_logit_fullsample_sb
osa_pgm_acled_mean_eval_test_logit_fullsample_sb
osa_pgm_acled_histonly_eval_test_logit_fullsample_sb
osa_pgm_acled_protest_eval_test_logit_fullsample_sb
osa_pgm_acled_cm_eval_test_logit_fullsample_sb
osa_pgm_acled_nocm_eval_test_rf_downsampled_sb
osa_pgm_canon_nocm_eval_test_rf_downsampled_sb
osa_pgm_canon_wcm_eval_test_rf_downsampled_sb
cl_osa_pgm_canon_nocm_eval_test_rf_downsampled_sb
osa_pgm_acled_soc_eval_test_rf_downsampled_sb
osa_pgm_acled_nat_eval_test_rf_downsampled_sb
osa_pgm_acled_mean_eval_test_rf_downsampled_sb
osa_pgm_acled_histonly_eval_test_rf_downsampled_sb
osa_pgm_acled_protest_eval_test_rf_downsampled_sb
osa_pgm_acled_cm_eval_test_rf_downsampled_sb

Table 2: Models in pgm-level ensemble

Table 2 shows all the constituent models in the *pgm*-level ensemble. Models are named according the following convention:

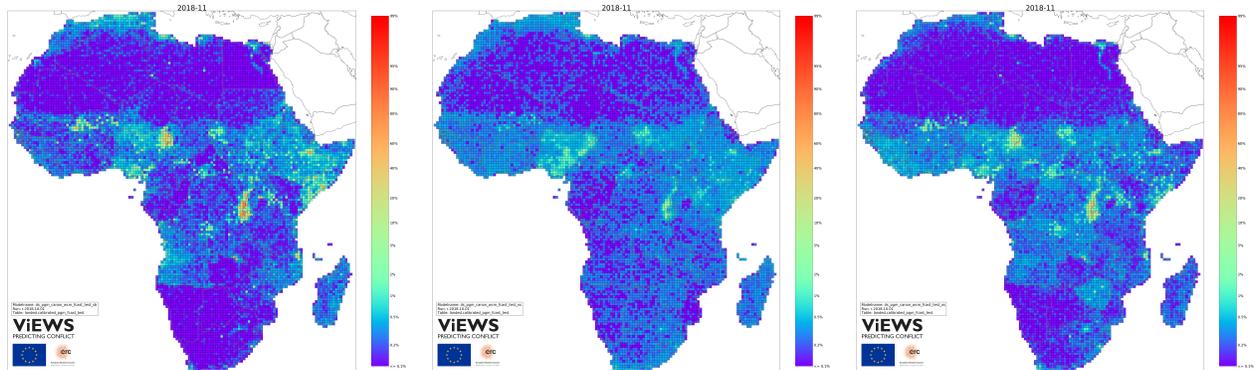
- ‘ds’ and ‘osa’ refers to the way the model handles dynamics (see methodology section in main paper).
- ‘pgm’ refers to the level of analysis.

- ‘acled’ or ‘canon’ denotes whether the models are trained on the period for which we have ACLED data (1997–) or the complete dataset (1990–) for all models except the thematic ones. The thematic models have acled in the name even though they are estimated on the complete dataset. This strictly a labelling issues due to a technicality in the database processing.
- ‘nocm’, ‘wcm’, ‘cl’, ‘mean’, ‘soc’, ‘nat’, ‘hisonly’, ‘cm’, ‘protest’ refers to a theme as listed in Table 3 in the main paper. ‘nocm’ refers to all themes without cm level predictors, ‘wcm’ and ‘cl’ refer to all themes including cm level predictors either in the pgm model specification or multiplied probabilities as explained in the methodology section of the main article, ‘mean’ to the baseline, ‘soc’ to social geography theme, ‘nat’ to natural geography theme, ‘hisonly’ to conflict history theme, ‘cm’ to cm theme, and ‘protest’ to protest theme.
- ‘logit_fullsample’ and ‘rf_downsampled’ refers to the logit and random forest specifications of ‘osa’.
- ‘sb’ refers to conflict type.
- The final line, ‘average_allwthematic’ is the ensemble of all the other models.

Note that results from the *cl* models are not included in this appendix. These models are the product of associated cm and pgm predicted probabilities, that is: cl_osa_pgm_canon_nocm_eval_test_logit_fullsample_sb is the product of osa_cm_canon_base_eval_test_logit_fullsample_sb and osa_pgm_canon_nocm_eval_test_logit_fullsample_sb.

4 PRIOGRID-level (pgm)

4.1 ds_pgm_canon_wcm



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 26: Forecasts for October 2018

4.1.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	3672888
Model:	Logit	Df Residuals:	3672835
Method:	MLE	Df Model:	52
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.4119
Time:	04:13:10	Log-Likelihood:	-46160.
converged:	True	LL-Null:	-78492.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-9.5841	0.338	-28.315	0.000	-10.247	-8.921
l2_ged_dummy_sb	0.1870	0.032	5.796	0.000	0.124	0.250
l3_ged_dummy_sb	0.2011	0.033	6.134	0.000	0.137	0.265
l4_ged_dummy_sb	0.2353	0.033	7.106	0.000	0.170	0.300
l5_ged_dummy_sb	0.2019	0.034	5.939	0.000	0.135	0.269
l6_ged_dummy_sb	0.0780	0.035	2.204	0.028	0.009	0.147
l7_ged_dummy_sb	0.2355	0.035	6.655	0.000	0.166	0.305
l8_ged_dummy_sb	0.2049	0.036	5.668	0.000	0.134	0.276
l9_ged_dummy_sb	0.2632	0.036	7.240	0.000	0.192	0.334
l10_ged_dummy_sb	0.2156	0.037	5.823	0.000	0.143	0.288
l11_ged_dummy_sb	0.2478	0.037	6.657	0.000	0.175	0.321
l12_ged_dummy_sb	0.2392	0.037	6.406	0.000	0.166	0.312
q.1.l.l2_ged_dummy_sb	0.1368	0.016	8.403	0.000	0.105	0.169
q.1.l.l3_ged_dummy_sb	0.0616	0.016	3.796	0.000	0.030	0.093
l1_ged_dummy_sb	0.2830	0.033	8.558	0.000	0.218	0.348
l1_ged_dummy_ns	0.5809	0.121	4.795	0.000	0.343	0.818
l1_ged_dummy_os	0.2142	0.049	4.370	0.000	0.118	0.310
decay_l2_cw_ged_dummy_sb_0	3.7272	0.046	81.069	0.000	3.637	3.817
decay_l2_cw_ged_dummy_ns_0	-0.2992	0.067	-4.488	0.000	-0.430	-0.169
decay_l2_cw_ged_dummy_os_0	0.8710	0.046	18.772	0.000	0.780	0.962
q.1.l.l1_ged_dummy_sb	0.2683	0.016	16.588	0.000	0.237	0.300
q.1.l.l1_ged_dummy_ns	-0.0053	0.050	-0.106	0.916	-0.103	0.092
q.1.l.l1_ged_dummy_os	0.1123	0.019	5.916	0.000	0.075	0.150
ln_dist_diamsec	0.3408	0.023	14.754	0.000	0.296	0.386
ln_dist_petroleum	0.0313	0.026	1.187	0.235	-0.020	0.083
agri_ih_li	-0.0027	0.001	-2.667	0.008	-0.005	-0.001
barren_ih_li	-0.0038	0.001	-4.328	0.000	-0.006	-0.002
forest_ih_li	-0.0012	0.001	-1.297	0.195	-0.003	0.001
mountains_mean	-0.0676	0.039	-1.717	0.086	-0.145	0.010
savanna_ih_li	9.445e-05	0.001	0.108	0.914	-0.002	0.002
shrub_ih_li	0.0105	0.001	10.089	0.000	0.008	0.013
pasture_ih_li	0.0018	0.001	2.497	0.013	0.000	0.003
urban_ih_li	0.0371	0.010	3.816	0.000	0.018	0.056
ln_bdist3	-0.1105	0.010	-11.244	0.000	-0.130	-0.091
ln_ttime	-0.1485	0.023	-6.563	0.000	-0.193	-0.104
ln_capdist	0.0532	0.016	3.282	0.001	0.021	0.085
ln_pop	0.2271	0.013	17.905	0.000	0.202	0.252
gcp_li_mer	0.0827	0.013	6.524	0.000	0.058	0.108
imr_mean	0.0007	4.49e-05	15.290	0.000	0.001	0.001
excluded_dummy_li	0.1375	0.024	5.669	0.000	0.090	0.185
fvp_lngdpcap_nonoilrent	-0.0937	0.025	-3.708	0.000	-0.143	-0.044
fvp_lngdpcap_oilrent	0.1106	0.006	17.877	0.000	0.098	0.123
fvp_grgdpcap_oilrent	-0.1342	0.029	-4.706	0.000	-0.190	-0.078
fvp_grgdpcap_nonoilrent	-0.4934	0.075	-6.573	0.000	-0.641	-0.346
ln_fvp_timeindep	0.2663	0.034	7.919	0.000	0.200	0.332
ln_fvp_timesincepreindepwar	-0.0764	0.030	-2.588	0.010	-0.134	-0.019
ln_fvp_timesinceregimechange	-0.1069	0.014	-7.657	0.000	-0.134	-0.080
fvp_demo	-0.6994	0.046	-15.356	0.000	-0.789	-0.610
fvp_semi	-0.3812	0.030	-12.678	0.000	-0.440	-0.322
fvp_prop_excluded	0.0193	0.046	0.423	0.672	-0.070	0.109
ln_fvp_population200	0.0168	0.017	0.978	0.328	-0.017	0.050
ssp2_edu_sec_15_24_prop	-0.1386	0.101	-1.374	0.169	-0.336	0.059
ssp2_urban_share_iiasa	-0.0016	0.001	-1.470	0.142	-0.004	0.001

4.1.2 ns_fcast

Dep. Variable:	ged_dummy_ns	No. Observations:	3672888
Model:	Logit	Df Residuals:	3672835
Method:	MLE	Df Model:	52
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3634
Time:	04:13:14	Log-Likelihood:	-20156.
converged:	True	LL-Null:	-31662.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-16.0133	0.580	-27.592	0.000	-17.151	-14.876
l2_ged_dummy_ns	0.3571	0.060	5.905	0.000	0.239	0.476
l3_ged_dummy_ns	0.3432	0.062	5.522	0.000	0.221	0.465
l4_ged_dummy_ns	0.2443	0.065	3.774	0.000	0.117	0.371
l5_ged_dummy_ns	0.3245	0.066	4.898	0.000	0.195	0.454
l6_ged_dummy_ns	0.0895	0.071	1.253	0.210	-0.050	0.230
l7_ged_dummy_ns	0.2274	0.072	3.139	0.002	0.085	0.369
l8_ged_dummy_ns	0.1472	0.075	1.950	0.051	-0.001	0.295
l9_ged_dummy_ns	0.3438	0.075	4.579	0.000	0.197	0.491
l10_ged_dummy_ns	0.2909	0.077	3.772	0.000	0.140	0.442
l11_ged_dummy_ns	0.1330	0.080	1.662	0.097	-0.024	0.290
l12_ged_dummy_ns	0.3852	0.077	4.972	0.000	0.233	0.537
q.1.1.l2_ged_dummy_ns	0.2353	0.035	6.709	0.000	0.167	0.304
q.1.1.l3_ged_dummy_ns	0.0869	0.036	2.415	0.016	0.016	0.157
l1_ged_dummy_sb	0.0501	0.122	0.410	0.682	-0.189	0.289
l1_ged_dummy_ns	0.5275	0.061	8.715	0.000	0.409	0.646
l1_ged_dummy_os	0.3768	0.101	3.731	0.000	0.179	0.575
decay_l2_cw_ged_dummy_sb_0	0.1317	0.097	1.351	0.177	-0.059	0.323
decay_l2_cw_ged_dummy_ns_0	3.8188	0.075	51.124	0.000	3.672	3.965
decay_l2_cw_ged_dummy_os_0	0.6351	0.090	7.072	0.000	0.459	0.811
q.1.1.l1_ged_dummy_sb	-0.1328	0.046	-2.875	0.004	-0.223	-0.042
q.1.1.l1_ged_dummy_ns	0.4424	0.034	12.932	0.000	0.375	0.509
q.1.1.l1_ged_dummy_os	0.1753	0.040	4.405	0.000	0.097	0.253
ln_dist_diamsec	0.3912	0.039	9.968	0.000	0.314	0.468
ln_dist_petroleum	0.8488	0.054	15.749	0.000	0.743	0.954
agri_ih_li	0.0088	0.002	5.147	0.000	0.005	0.012
barren_ih_li	-0.0043	0.002	-2.589	0.010	-0.008	-0.001
forest_ih_li	-0.0020	0.002	-1.238	0.216	-0.005	0.001
mountains_mean	-0.1765	0.068	-2.604	0.009	-0.309	-0.044
savanna_ih_li	0.0070	0.002	4.601	0.000	0.004	0.010
shrub_ih_li	0.0188	0.002	10.274	0.000	0.015	0.022
pasture_ih_li	0.0087	0.001	6.270	0.000	0.006	0.011
urban_ih_li	0.0373	0.013	2.820	0.005	0.011	0.063
ln_bdist3	-0.1349	0.016	-8.269	0.000	-0.167	-0.103
ln_ttime	0.0144	0.038	0.378	0.705	-0.060	0.089
ln_capdist	0.0512	0.027	1.913	0.056	-0.001	0.104
ln_pop	0.2733	0.021	13.244	0.000	0.233	0.314
gcp_li_mer	0.0193	0.023	0.830	0.406	-0.026	0.065
imr_mean	0.0001	7.77e-05	1.856	0.063	-8.1e-06	0.000
excluded_dummy_li	0.3859	0.040	9.529	0.000	0.307	0.465
fvp_lngdpcap_nonoilrent	-0.0634	0.041	-1.545	0.122	-0.144	0.017
fvp_lngdpcap_oilrent	0.0962	0.009	10.352	0.000	0.078	0.114
fvp_grgdpcap_oilrent	-0.2197	0.046	-4.744	0.000	-0.310	-0.129
fvp_grgdpcap_nonoilrent	-0.5230	0.124	-4.219	0.000	-0.766	-0.280
ln_fvp_timeindep	0.3639	0.054	6.705	0.000	0.258	0.470
ln_fvp_timesincepreindepwar	0.2507	0.055	4.535	0.000	0.142	0.359
ln_fvp_timesinceregimechange	-0.0808	0.021	-3.897	0.000	-0.122	-0.040
fvp_demo	-0.4667	0.071	-6.580	0.000	-0.606	-0.328
fvp_semi	-0.1785	0.055	-3.236	0.001	-0.287	-0.070
fvp_prop_excluded	-0.6996	0.079	-8.895	0.000	-0.854	-0.545
ln_fvp_population200	-0.0345	0.028	-1.247	0.212	-0.089	0.020
ssp2_edu_sec_15_24_prop	1.6876	0.153	11.038	0.000	1.388	1.987
ssp2_urban_share_iiasa	-0.0017	0.002	-0.899	0.369	-0.005	0.002

4.1.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	3672888
Model:	Logit	Df Residuals:	3672835
Method:	MLE	Df Model:	52
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3897
Time:	04:13:20	Log-Likelihood:	-34018.
converged:	True	LL-Null:	-55736.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-9.6530	0.401	-24.098	0.000	-10.438	-8.868
l2_ged_dummy_os	0.1699	0.041	4.116	0.000	0.089	0.251
l3_ged_dummy_os	0.2004	0.042	4.768	0.000	0.118	0.283
l4_ged_dummy_os	0.1372	0.043	3.194	0.001	0.053	0.221
l5_ged_dummy_os	0.1526	0.044	3.470	0.001	0.066	0.239
l6_ged_dummy_os	0.1737	0.045	3.871	0.000	0.086	0.262
l7_ged_dummy_os	0.1813	0.046	3.946	0.000	0.091	0.271
l8_ged_dummy_os	0.0947	0.048	1.990	0.047	0.001	0.188
l9_ged_dummy_os	0.1563	0.048	3.243	0.001	0.062	0.251
l10_ged_dummy_os	0.0573	0.050	1.152	0.249	-0.040	0.155
l11_ged_dummy_os	0.1022	0.050	2.042	0.041	0.004	0.200
l12_ged_dummy_os	0.3397	0.049	6.998	0.000	0.245	0.435
q_1_1_l2_ged_dummy_os	0.0885	0.020	4.405	0.000	0.049	0.128
q_1_1_l3_ged_dummy_os	0.0477	0.020	2.427	0.015	0.009	0.086
l1_ged_dummy_sb	0.1537	0.050	3.066	0.002	0.055	0.252
l1_ged_dummy_ns	0.6327	0.096	6.600	0.000	0.445	0.821
l1_ged_dummy_os	0.3908	0.043	9.151	0.000	0.307	0.475
decay_l2_cw_ged_dummy_sb_0	1.2153	0.054	22.346	0.000	1.109	1.322
decay_l2_cw_ged_dummy_ns_0	0.0664	0.065	1.022	0.307	-0.061	0.194
decay_l2_cw_ged_dummy_os_0	3.2872	0.060	55.193	0.000	3.170	3.404
q_1_1_l1_ged_dummy_sb	0.0480	0.019	2.493	0.013	0.010	0.086
q_1_1_l1_ged_dummy_ns	0.1040	0.035	2.970	0.003	0.035	0.173
q_1_1_l1_ged_dummy_os	0.3586	0.020	18.280	0.000	0.320	0.397
ln_dist_diamsec	-0.1309	0.026	-5.020	0.000	-0.182	-0.080
ln_dist_petroleum	0.4569	0.035	13.065	0.000	0.388	0.525
agri_ih_li	0.0011	0.001	0.959	0.338	-0.001	0.003
barren_ih_li	-0.0075	0.001	-5.990	0.000	-0.010	-0.005
forest_ih_li	-0.0004	0.001	-0.455	0.649	-0.002	0.001
mountains_mean	-0.1776	0.048	-3.699	0.000	-0.272	-0.083
savanna_ih_li	0.0050	0.001	5.380	0.000	0.003	0.007
shrub_ih_li	0.0019	0.002	1.161	0.246	-0.001	0.005
pasture_ih_li	0.0004	0.001	0.403	0.687	-0.001	0.002
urban_ih_li	0.0435	0.010	4.291	0.000	0.024	0.063
ln_bdist3	-0.0986	0.012	-8.354	0.000	-0.122	-0.075
ln_ttime	-0.1965	0.029	-6.814	0.000	-0.253	-0.140
ln_capdist	0.0966	0.018	5.266	0.000	0.061	0.133
ln_pop	0.2986	0.016	18.722	0.000	0.267	0.330
gcp_li_mer	0.1126	0.016	7.167	0.000	0.082	0.143
imr_mean	0.0003	5.39e-05	5.832	0.000	0.000	0.000
excluded_dummy_li	0.2634	0.030	8.915	0.000	0.206	0.321
fvp_lngdpcap_nonoilrent	-0.2312	0.029	-8.018	0.000	-0.288	-0.175
fvp_lngdpcap_oilrent	0.0826	0.007	11.864	0.000	0.069	0.096
fvp_grgdpcap_oilrent	-0.1865	0.035	-5.299	0.000	-0.256	-0.118
fvp_grgdpcap_nonoilrent	-0.4074	0.085	-4.802	0.000	-0.574	-0.241
ln_fvp_timeindep	0.3950	0.036	11.102	0.000	0.325	0.465
ln_fvp_timesincepreindepwar	-0.0618	0.035	-1.771	0.077	-0.130	0.007
ln_fvp_timesinceregimechange	-0.0830	0.016	-5.248	0.000	-0.114	-0.052
fvp_demo	-0.7026	0.052	-13.455	0.000	-0.805	-0.600
fvp_semi	-0.3025	0.037	-8.224	0.000	-0.375	-0.230
fvp_prop_excluded	0.0576	0.050	1.144	0.253	-0.041	0.156
ln_fvp_population200	-0.0438	0.020	-2.206	0.027	-0.083	-0.005
ssp2_edu_sec_15_24_prop	0.7646	0.113	6.792	0.000	0.544	0.985
ssp2_urban_share_iiasa	-0.0005	0.001	-0.346	0.729	-0.003	0.002

4.1.4 sb_eval

Dep. Variable:	ged_dummy_sb	No. Observations:	3203100
Model:	Logit	Df Residuals:	3203047
Method:	MLE	Df Model:	52
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.4121
Time:	04:06:39	Log-Likelihood:	-38325.
converged:	True	LL-Null:	-65194.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-10.1625	0.387	-26.242	0.000	-10.922	-9.403
l2_ged_dummy_sb	0.1852	0.036	5.162	0.000	0.115	0.256
l3_ged_dummy_sb	0.1894	0.036	5.192	0.000	0.118	0.261
l4_ged_dummy_sb	0.2358	0.037	6.401	0.000	0.164	0.308
l5_ged_dummy_sb	0.1781	0.038	4.700	0.000	0.104	0.252
l6_ged_dummy_sb	0.0732	0.039	1.861	0.063	-0.004	0.150
l7_ged_dummy_sb	0.2353	0.039	5.986	0.000	0.158	0.312
l8_ged_dummy_sb	0.2501	0.040	6.269	0.000	0.172	0.328
l9_ged_dummy_sb	0.2622	0.040	6.484	0.000	0.183	0.341
l10_ged_dummy_sb	0.2216	0.041	5.370	0.000	0.141	0.302
l11_ged_dummy_sb	0.2601	0.041	6.270	0.000	0.179	0.341
l12_ged_dummy_sb	0.2273	0.042	5.453	0.000	0.146	0.309
q_1_1_l2_ged_dummy_sb	0.1390	0.018	7.544	0.000	0.103	0.175
q_1_1_l3_ged_dummy_sb	0.0625	0.018	3.399	0.001	0.026	0.099
l1_ged_dummy_sb	0.3202	0.036	8.870	0.000	0.249	0.391
l1_ged_dummy_ns	0.5254	0.154	3.404	0.001	0.223	0.828
l1_ged_dummy_os	0.3327	0.057	5.872	0.000	0.222	0.444
decay_12_cw_ged_dummy_sb_0	3.7453	0.050	74.239	0.000	3.646	3.844
decay_12_cw_ged_dummy_ns_0	-0.4273	0.078	-5.456	0.000	-0.581	-0.274
decay_12_cw_ged_dummy_os_0	0.9200	0.052	17.613	0.000	0.818	1.022
q_1_1_l1_ged_dummy_sb	0.2628	0.018	14.584	0.000	0.227	0.298
q_1_1_l1_ged_dummy_ns	-0.1041	0.071	-1.462	0.144	-0.244	0.035
q_1_1_l1_ged_dummy_os	0.1298	0.022	6.022	0.000	0.088	0.172
ln_dist_diamsec	0.3132	0.026	12.070	0.000	0.262	0.364
ln_dist_petroleum	0.0354	0.029	1.202	0.229	-0.022	0.093
agri_ih_li	-0.0025	0.001	-2.136	0.033	-0.005	-0.000
barren_ih_li	-0.0035	0.001	-3.545	0.000	-0.005	-0.002
forest_ih_li	-0.0018	0.001	-1.818	0.069	-0.004	0.000
mountains_mean	-0.0466	0.043	-1.087	0.277	-0.131	0.037
savanna_ih_li	-0.0020	0.001	-1.991	0.046	-0.004	-3.06e-05
shrub_ih_li	0.0103	0.001	8.961	0.000	0.008	0.013
pasture_ih_li	0.0024	0.001	2.945	0.003	0.001	0.004
urban_ih_li	0.0409	0.012	3.494	0.000	0.018	0.064
ln_bdist3	-0.1148	0.011	-10.565	0.000	-0.136	-0.093
ln_ttime	-0.1311	0.025	-5.258	0.000	-0.180	-0.082
ln_capdist	0.0369	0.018	2.015	0.044	0.001	0.073
ln_pop	0.2260	0.014	16.031	0.000	0.198	0.254
gcp_li_mer	0.1046	0.015	7.075	0.000	0.076	0.134
imr_mean	0.0007	5.02e-05	14.662	0.000	0.001	0.001
excluded_dummy_li	0.1307	0.027	4.800	0.000	0.077	0.184
fvp_lngdpcap_nonoilrent	-0.0729	0.030	-2.452	0.014	-0.131	-0.015
fvp_lngdpcap_oilrent	0.1132	0.007	16.395	0.000	0.100	0.127
fvp_grgdpcap_oilrent	-0.1374	0.033	-4.153	0.000	-0.202	-0.073
fvp_grgdpcap_nonoilrent	-0.6455	0.083	-7.776	0.000	-0.808	-0.483
ln_fvp_timeindep	0.2769	0.037	7.487	0.000	0.204	0.349
ln_fvp_timesincepreindepwar	-0.1091	0.034	-3.255	0.001	-0.175	-0.043
ln_fvp_timesinceregimechange	-0.1359	0.017	-7.962	0.000	-0.169	-0.102
fvp_demo	-0.8028	0.052	-15.303	0.000	-0.906	-0.700
fvp_semi	-0.4300	0.033	-13.190	0.000	-0.494	-0.366
fvp_prop_excluded	-0.0491	0.049	-1.004	0.315	-0.145	0.047
ln_fvp_population200	0.0795	0.021	3.839	0.000	0.039	0.120
ssp2_edu_sec_15_24_prop	-0.2625	0.122	-2.158	0.031	-0.501	-0.024
ssp2_urban_share_iiasa	-0.0010	0.001	-0.884	0.376	-0.003	0.001

4.1.5 ns_eval

Dep. Variable:	ged_dummy_ns	No. Observations:	3203100
Model:	Logit	Df Residuals:	3203047
Method:	MLE	Df Model:	52
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3807
Time:	04:06:43	Log-Likelihood:	-15141.
converged:	True	LL-Null:	-24447.

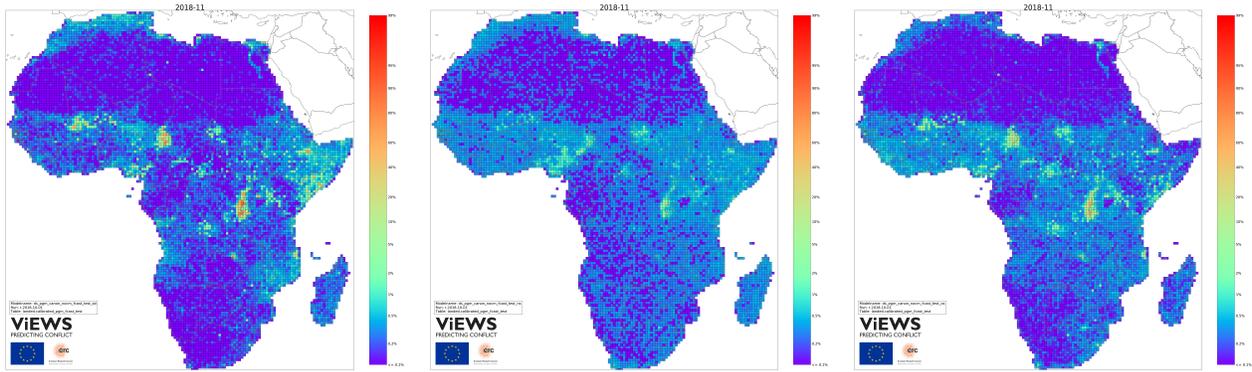
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-20.7672	0.728	-28.522	0.000	-22.194	-19.340
l2_ged_dummy_ns	0.3964	0.070	5.671	0.000	0.259	0.533
l3_ged_dummy_ns	0.3158	0.072	4.358	0.000	0.174	0.458
l4_ged_dummy_ns	0.2407	0.075	3.196	0.001	0.093	0.388
l5_ged_dummy_ns	0.3036	0.077	3.939	0.000	0.153	0.455
l6_ged_dummy_ns	0.1105	0.082	1.344	0.179	-0.051	0.272
l7_ged_dummy_ns	0.1709	0.084	2.029	0.042	0.006	0.336
l8_ged_dummy_ns	0.0828	0.087	0.949	0.343	-0.088	0.254
l9_ged_dummy_ns	0.3247	0.086	3.766	0.000	0.156	0.494
l10_ged_dummy_ns	0.2529	0.089	2.846	0.004	0.079	0.427
l11_ged_dummy_ns	0.1774	0.091	1.948	0.051	-0.001	0.356
l12_ged_dummy_ns	0.2779	0.090	3.071	0.002	0.101	0.455
q_1_1_l2_ged_dummy_ns	0.1585	0.043	3.656	0.000	0.074	0.244
q_1_1_l3_ged_dummy_ns	0.0622	0.044	1.407	0.159	-0.024	0.149
l1_ged_dummy_sb	0.1728	0.150	1.154	0.248	-0.121	0.466
l1_ged_dummy_ns	0.5151	0.070	7.360	0.000	0.378	0.652
l1_ged_dummy_os	0.4394	0.116	3.805	0.000	0.213	0.666
decay_l2_cw_ged_dummy_sb_0	-0.0262	0.116	-0.226	0.821	-0.254	0.201
decay_l2_cw_ged_dummy_ns_0	3.7663	0.085	44.100	0.000	3.599	3.934
decay_l2_cw_ged_dummy_os_0	0.5322	0.102	5.237	0.000	0.333	0.731
q_1_1_l1_ged_dummy_sb	-0.0787	0.059	-1.341	0.180	-0.194	0.036
q_1_1_l1_ged_dummy_ns	0.5149	0.041	12.426	0.000	0.434	0.596
q_1_1_l1_ged_dummy_os	0.1877	0.044	4.228	0.000	0.101	0.275
ln_dist_diamsec	0.3000	0.047	6.362	0.000	0.208	0.392
ln_dist_petroleum	1.1153	0.066	16.905	0.000	0.986	1.245
agri_ih_li	0.0121	0.002	6.013	0.000	0.008	0.016
barren_ih_li	0.0022	0.002	1.076	0.282	-0.002	0.006
forest_ih_li	0.0020	0.002	1.091	0.275	-0.002	0.006
mountains_mean	-0.1311	0.077	-1.694	0.090	-0.283	0.021
savanna_ih_li	0.0080	0.002	4.333	0.000	0.004	0.012
shrub_ih_li	0.0245	0.002	11.442	0.000	0.020	0.029
pasture_ih_li	0.0155	0.002	9.379	0.000	0.012	0.019
urban_ih_li	0.0302	0.015	2.046	0.041	0.001	0.059
ln_bdist3	-0.1899	0.019	-10.130	0.000	-0.227	-0.153
ln_ttime	0.1212	0.044	2.740	0.006	0.035	0.208
ln_capdist	-0.0531	0.031	-1.711	0.087	-0.114	0.008
ln_pop	0.3593	0.024	14.679	0.000	0.311	0.407
gcp_li_mer	0.0603	0.025	2.374	0.018	0.011	0.110
imr_mean	0.0004	9.38e-05	4.178	0.000	0.000	0.001
excluded_dummy_li	0.4770	0.048	9.981	0.000	0.383	0.571
fvp_lngdpcap_nonoilrent	0.1378	0.052	2.656	0.008	0.036	0.239
fvp_lngdpcap_oilrent	0.0547	0.012	4.719	0.000	0.032	0.077
fvp_grgdpcap_oilrent	-0.2153	0.060	-3.615	0.000	-0.332	-0.099
fvp_grgdpcap_nonoilrent	-1.2112	0.151	-8.031	0.000	-1.507	-0.916
ln_fvp_timeindep	0.3076	0.062	4.996	0.000	0.187	0.428
ln_fvp_timesincepreindepwar	0.0808	0.065	1.248	0.212	-0.046	0.208
ln_fvp_timesinceregimechange	-0.0182	0.027	-0.673	0.501	-0.071	0.035
fvp_demo	-0.5045	0.084	-5.991	0.000	-0.670	-0.339
fvp_semi	-0.2125	0.064	-3.342	0.001	-0.337	-0.088
fvp_prop_excluded	-0.6618	0.087	-7.629	0.000	-0.832	-0.492
ln_fvp_population200	0.1917	0.038	5.081	0.000	0.118	0.266
ssp2_edu_sec_15_24_prop	1.4639	0.193	7.597	0.000	1.086	1.842
ssp2_urban_share_iiasa	-0.0058	0.002	-2.806	0.005	-0.010	-0.002

4.1.6 os_eval

Dep. Variable:	ged_dummy_os	No. Observations:	3203100
Model:	Logit	Df Residuals:	3203047
Method:	MLE	Df Model:	52
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3859
Time:	04:06:41	Log-Likelihood:	-27497.
converged:	True	LL-Null:	-44777.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-10.0060	0.465	-21.540	0.000	-10.916	-9.096
l2_ged_dummy_os	0.1171	0.047	2.475	0.013	0.024	0.210
l3_ged_dummy_os	0.2315	0.048	4.853	0.000	0.138	0.325
l4_ged_dummy_os	0.1014	0.049	2.066	0.039	0.005	0.198
l5_ged_dummy_os	0.1048	0.050	2.082	0.037	0.006	0.203
l6_ged_dummy_os	0.1696	0.051	3.316	0.001	0.069	0.270
l7_ged_dummy_os	0.1581	0.052	3.014	0.003	0.055	0.261
l8_ged_dummy_os	0.0835	0.054	1.540	0.124	-0.023	0.190
l9_ged_dummy_os	0.1277	0.055	2.314	0.021	0.020	0.236
l10_ged_dummy_os	0.0424	0.057	0.745	0.456	-0.069	0.154
l11_ged_dummy_os	0.0822	0.057	1.436	0.151	-0.030	0.194
l12_ged_dummy_os	0.3696	0.055	6.716	0.000	0.262	0.477
q_1_1_l2_ged_dummy_os	0.0867	0.023	3.794	0.000	0.042	0.132
q_1_1_l3_ged_dummy_os	0.0518	0.022	2.321	0.020	0.008	0.096
l1_ged_dummy_sb	0.2553	0.057	4.470	0.000	0.143	0.367
l1_ged_dummy_ns	0.6234	0.113	5.532	0.000	0.403	0.844
l1_ged_dummy_os	0.4395	0.047	9.300	0.000	0.347	0.532
decay_l2_cw_ged_dummy_sb_0	1.2820	0.061	21.089	0.000	1.163	1.401
decay_l2_cw_ged_dummy_ns_0	-0.0086	0.076	-0.113	0.910	-0.158	0.141
decay_l2_cw_ged_dummy_os_0	3.3326	0.066	50.584	0.000	3.203	3.462
q_1_1_l1_ged_dummy_sb	0.0955	0.022	4.358	0.000	0.053	0.138
q_1_1_l1_ged_dummy_ns	0.1467	0.041	3.610	0.000	0.067	0.226
q_1_1_l1_ged_dummy_os	0.3695	0.022	17.120	0.000	0.327	0.412
ln_dist_diamsec	-0.1945	0.030	-6.579	0.000	-0.252	-0.137
ln_dist_petroleum	0.4312	0.040	10.813	0.000	0.353	0.509
agri_ih_li	0.0021	0.001	1.540	0.123	-0.001	0.005
barren_ih_li	-0.0071	0.001	-4.970	0.000	-0.010	-0.004
forest_ih_li	0.0009	0.001	0.843	0.399	-0.001	0.003
mountains_mean	-0.1717	0.053	-3.228	0.001	-0.276	-0.067
savanna_ih_li	0.0057	0.001	5.381	0.000	0.004	0.008
shrub_ih_li	0.0014	0.002	0.727	0.467	-0.002	0.005
pasture_ih_li	0.0012	0.001	1.178	0.239	-0.001	0.003
urban_ih_li	0.0468	0.012	4.015	0.000	0.024	0.070
ln_bdist3	-0.1082	0.013	-8.149	0.000	-0.134	-0.082
ln_ttime	-0.1918	0.032	-5.902	0.000	-0.255	-0.128
ln_capdist	0.0837	0.021	3.985	0.000	0.043	0.125
ln_pop	0.2965	0.018	16.464	0.000	0.261	0.332
gcp_li_mer	0.1261	0.017	7.267	0.000	0.092	0.160
imr_mean	0.0003	6.13e-05	5.239	0.000	0.000	0.000
excluded_dummy_li	0.2648	0.034	7.884	0.000	0.199	0.331
fvp_lngdpcap_nonoilrent	-0.2649	0.034	-7.803	0.000	-0.331	-0.198
fvp_lngdpcap_oilrent	0.0811	0.008	10.462	0.000	0.066	0.096
fvp_grgdpcap_oilrent	-0.0739	0.043	-1.717	0.086	-0.158	0.010
fvp_grgdpcap_nonoilrent	-0.5955	0.104	-5.709	0.000	-0.800	-0.391
ln_fvp_timeindep	0.3934	0.040	9.906	0.000	0.316	0.471
ln_fvp_timesincepreindepwar	-0.0485	0.041	-1.171	0.241	-0.130	0.033
ln_fvp_timesinceregimechange	-0.0613	0.020	-3.093	0.002	-0.100	-0.022
fvp_demo	-0.6415	0.060	-10.728	0.000	-0.759	-0.524
fvp_semi	-0.3169	0.041	-7.787	0.000	-0.397	-0.237
fvp_prop_excluded	0.0886	0.054	1.629	0.103	-0.018	0.195
ln_fvp_population200	0.0069	0.025	0.280	0.780	-0.041	0.055
ssp2_edu_sec_15_24_prop	0.8762	0.137	6.373	0.000	0.607	1.146
ssp2_urban_share_iiasa	0.0014	0.001	0.975	0.330	-0.001	0.004

4.2 ds_pgm_canon_nocm



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 27: Forecasts for October 2018

4.2.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	3672888
Model:	Logit	Df Residuals:	3672848
Method:	MLE	Df Model:	39
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.4055
Time:	03:58:48	Log-Likelihood:	-46665.
converged:	True	LL-Null:	-78492.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-9.3814	0.229	-41.030	0.000	-9.830	-8.933
l2_ged_dummy_sb	0.1726	0.032	5.372	0.000	0.110	0.236
l3_ged_dummy_sb	0.1944	0.033	5.949	0.000	0.130	0.258
l4_ged_dummy_sb	0.2373	0.033	7.187	0.000	0.173	0.302
l5_ged_dummy_sb	0.2067	0.034	6.093	0.000	0.140	0.273
l6_ged_dummy_sb	0.0851	0.035	2.408	0.016	0.016	0.154
l7_ged_dummy_sb	0.2414	0.035	6.826	0.000	0.172	0.311
l8_ged_dummy_sb	0.2128	0.036	5.888	0.000	0.142	0.284
l9_ged_dummy_sb	0.2707	0.036	7.440	0.000	0.199	0.342
l10_ged_dummy_sb	0.2224	0.037	6.002	0.000	0.150	0.295
l11_ged_dummy_sb	0.2560	0.037	6.870	0.000	0.183	0.329
l12_ged_dummy_sb	0.2459	0.037	6.578	0.000	0.173	0.319
q_1_1_l2_ged_dummy_sb	0.1440	0.016	8.823	0.000	0.112	0.176
q_1_1_l3_ged_dummy_sb	0.0679	0.016	4.173	0.000	0.036	0.100
l1_ged_dummy_sb	0.2479	0.033	7.527	0.000	0.183	0.312
l1_ged_dummy_ns	0.5868	0.121	4.852	0.000	0.350	0.824
l1_ged_dummy_os	0.2119	0.049	4.311	0.000	0.116	0.308
decay_l2_cw_ged_dummy_sb_0	4.0020	0.045	88.802	0.000	3.914	4.090
decay_l2_cw_ged_dummy_ns_0	-0.2961	0.066	-4.493	0.000	-0.425	-0.167
decay_l2_cw_ged_dummy_os_0	0.7753	0.046	16.729	0.000	0.684	0.866
q_1_1_l1_ged_dummy_sb	0.2797	0.016	17.202	0.000	0.248	0.312
q_1_1_l1_ged_dummy_ns	-0.0417	0.050	-0.841	0.400	-0.139	0.056
q_1_1_l1_ged_dummy_os	0.0817	0.019	4.283	0.000	0.044	0.119
ln_dist_diamsec	0.2810	0.020	13.892	0.000	0.241	0.321
ln_dist_petroleum	-0.2302	0.020	-11.689	0.000	-0.269	-0.192
agri_ih_li	-0.0024	0.001	-2.468	0.014	-0.004	-0.000
barren_ih_li	-0.0056	0.001	-6.641	0.000	-0.007	-0.004
forest_ih_li	-0.0023	0.001	-2.696	0.007	-0.004	-0.001
mountains_mean	0.0116	0.037	0.315	0.753	-0.061	0.084
savanna_ih_li	-0.0034	0.001	-4.090	0.000	-0.005	-0.002
shrub_ih_li	0.0073	0.001	7.455	0.000	0.005	0.009
pasture_ih_li	0.0024	0.001	3.484	0.000	0.001	0.004
urban_ih_li	0.0433	0.009	4.619	0.000	0.025	0.062
ln_bdist3	-0.0785	0.009	-8.519	0.000	-0.097	-0.060
ln_ttime	-0.1361	0.023	-6.043	0.000	-0.180	-0.092
ln_capdist	0.0910	0.013	6.799	0.000	0.065	0.117
ln_pop	0.2159	0.011	18.836	0.000	0.193	0.238
gcp_li_mer	0.0038	0.012	0.324	0.746	-0.019	0.027
imr_mean	0.0006	3.46e-05	17.993	0.000	0.001	0.001
excluded_dummy_li	0.2422	0.022	10.920	0.000	0.199	0.286

4.2.2 ns_fcast

Dep. Variable:		ged_dummy_ns	No. Observations:		3672888	
Model:		Logit	Df Residuals:		3672848	
Method:		MLE	Df Model:		39	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.3551	
Time:		03:58:51	Log-Likelihood:		-20418.	
converged:		True	LL-Null:		-31662.	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-15.1018	0.409	-36.949	0.000	-15.903	-14.301
l2_ged_dummy_ns	0.3590	0.061	5.906	0.000	0.240	0.478
l3_ged_dummy_ns	0.3562	0.063	5.696	0.000	0.234	0.479
l4_ged_dummy_ns	0.2467	0.065	3.777	0.000	0.119	0.375
l5_ged_dummy_ns	0.3319	0.067	4.957	0.000	0.201	0.463
l6_ged_dummy_ns	0.0913	0.072	1.262	0.207	-0.050	0.233
l7_ged_dummy_ns	0.2401	0.073	3.268	0.001	0.096	0.384
l8_ged_dummy_ns	0.1476	0.077	1.924	0.054	-0.003	0.298
l9_ged_dummy_ns	0.3439	0.076	4.504	0.000	0.194	0.493
l10_ged_dummy_ns	0.3036	0.078	3.878	0.000	0.150	0.457
l11_ged_dummy_ns	0.1467	0.081	1.804	0.071	-0.013	0.306
l12_ged_dummy_ns	0.3976	0.079	5.048	0.000	0.243	0.552
q_1_1_l2_ged_dummy_ns	0.2335	0.036	6.535	0.000	0.163	0.303
q_1_1_l3_ged_dummy_ns	0.0786	0.037	2.137	0.033	0.007	0.151
l1_ged_dummy_sb	0.1581	0.123	1.285	0.199	-0.083	0.399
l1_ged_dummy_ns	0.5121	0.061	8.429	0.000	0.393	0.631
l1_ged_dummy_os	0.4598	0.103	4.444	0.000	0.257	0.663
decay_l2_cw_ged_dummy_sb_0	0.1353	0.099	1.366	0.172	-0.059	0.329
decay_l2_cw_ged_dummy_ns_0	4.0479	0.074	54.573	0.000	3.903	4.193
decay_l2_cw_ged_dummy_os_0	0.4568	0.091	5.022	0.000	0.279	0.635
q_1_1_l1_ged_dummy_sb	-0.0436	0.046	-0.959	0.338	-0.133	0.046
q_1_1_l1_ged_dummy_ns	0.4450	0.035	12.805	0.000	0.377	0.513
q_1_1_l1_ged_dummy_os	0.1714	0.040	4.252	0.000	0.092	0.250
ln_dist_diamsec	0.3249	0.035	9.407	0.000	0.257	0.393
ln_dist_petroleum	0.5238	0.045	11.712	0.000	0.436	0.611
agri_ih_li	0.0108	0.002	6.792	0.000	0.008	0.014
barren_ih_li	-0.0034	0.002	-2.111	0.035	-0.007	-0.000
forest_ih_li	0.0010	0.002	0.666	0.506	-0.002	0.004
mountains_mean	-0.3303	0.064	-5.140	0.000	-0.456	-0.204
savanna_ih_li	0.0039	0.001	2.644	0.008	0.001	0.007
shrub_ih_li	0.0188	0.002	10.882	0.000	0.015	0.022
pasture_ih_li	0.0082	0.001	6.239	0.000	0.006	0.011
urban_ih_li	0.0446	0.013	3.385	0.001	0.019	0.070
ln_bdist3	-0.0917	0.015	-6.042	0.000	-0.121	-0.062
ln_ttime	0.0961	0.037	2.601	0.009	0.024	0.169
ln_capdist	0.1802	0.023	7.850	0.000	0.135	0.225
ln_pop	0.3532	0.020	18.024	0.000	0.315	0.392
gcp_li_mer	-0.0180	0.023	-0.795	0.427	-0.062	0.026
imr_mean	-0.0002	6.06e-05	-3.050	0.002	-0.000	-6.61e-05
excluded_dummy_li	0.2179	0.037	5.946	0.000	0.146	0.290

4.2.3 os_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_os					
No. Observations:						3672888
Model:	Logit					
Df Residuals:						3672848
Method:	MLE					
Df Model:						39
Date:	Tue, 25 Sep 2018					
Pseudo R-squ.:						0.3839
Time:	03:58:48					
Log-Likelihood:						-34338.
converged:	True					
LL-Null:						-55736.
Intercept	-10.8376	0.297	-36.466	0.000	-11.420	-10.255
l2_ged_dummy_os	0.1507	0.041	3.656	0.000	0.070	0.232
l3_ged_dummy_os	0.1900	0.042	4.527	0.000	0.108	0.272
l4_ged_dummy_os	0.1310	0.043	3.052	0.002	0.047	0.215
l5_ged_dummy_os	0.1530	0.044	3.480	0.001	0.067	0.239
l6_ged_dummy_os	0.1724	0.045	3.843	0.000	0.084	0.260
l7_ged_dummy_os	0.1800	0.046	3.916	0.000	0.090	0.270
l8_ged_dummy_os	0.0942	0.048	1.980	0.048	0.001	0.187
l9_ged_dummy_os	0.1573	0.048	3.260	0.001	0.063	0.252
l10_ged_dummy_os	0.0588	0.050	1.182	0.237	-0.039	0.156
l11_ged_dummy_os	0.0971	0.050	1.937	0.053	-0.001	0.195
l12_ged_dummy_os	0.3358	0.049	6.901	0.000	0.240	0.431
q_1_1_l2_ged_dummy_os	0.0886	0.020	4.384	0.000	0.049	0.128
q_1_1_l3_ged_dummy_os	0.0478	0.020	2.422	0.015	0.009	0.086
l1_ged_dummy_sb	0.1601	0.050	3.188	0.001	0.062	0.259
l1_ged_dummy_ns	0.6210	0.096	6.478	0.000	0.433	0.809
l1_ged_dummy_os	0.3586	0.043	8.395	0.000	0.275	0.442
decay_l2_cw_ged_dummy_sb_0	1.2347	0.055	22.537	0.000	1.127	1.342
decay_l2_cw_ged_dummy_ns_0	0.0725	0.064	1.124	0.261	-0.054	0.199
decay_l2_cw_ged_dummy_os_0	3.4894	0.060	58.461	0.000	3.372	3.606
q_1_1_l1_ged_dummy_sb	0.0386	0.019	1.996	0.046	0.001	0.077
q_1_1_l1_ged_dummy_ns	0.0863	0.035	2.500	0.012	0.019	0.154
q_1_1_l1_ged_dummy_os	0.3642	0.020	18.467	0.000	0.326	0.403
ln_dist_diamsec	-0.1375	0.024	-5.746	0.000	-0.184	-0.091
ln_dist_petroleum	0.2915	0.028	10.400	0.000	0.237	0.346
agri_ih_li	0.0003	0.001	0.285	0.776	-0.002	0.003
barren_ih_li	-0.0066	0.001	-5.309	0.000	-0.009	-0.004
forest_ih_li	0.0013	0.001	1.345	0.179	-0.001	0.003
mountains_mean	-0.1484	0.046	-3.253	0.001	-0.238	-0.059
savanna_ih_li	0.0038	0.001	4.271	0.000	0.002	0.006
shrub_ih_li	0.0032	0.002	1.997	0.046	5.9e-05	0.006
pasture_ih_li	0.0018	0.001	2.060	0.039	8.83e-05	0.004
urban_ih_li	0.0503	0.010	5.048	0.000	0.031	0.070
ln_bdist3	-0.0770	0.011	-6.991	0.000	-0.099	-0.055
ln_ttime	-0.1854	0.029	-6.504	0.000	-0.241	-0.130
ln_capdist	0.1196	0.014	8.698	0.000	0.093	0.147
ln_pop	0.3038	0.015	20.482	0.000	0.275	0.333
gcp_li_mer	0.0645	0.015	4.355	0.000	0.035	0.094
imr_mean	0.0004	4.45e-05	8.822	0.000	0.000	0.000
excluded_dummy_li	0.3295	0.026	12.443	0.000	0.278	0.381

4.2.4 sb_eval

Dep. Variable:		ged_dummy_sb	No. Observations:		3203100	
Model:		Logit	Df Residuals:		3203060	
Method:		MLE	Df Model:		39	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.4043	
Time:		03:55:23	Log-Likelihood:		-38835.	
converged:		True	LL-Null:		-65194.	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-9.6705	0.255	-37.944	0.000	-10.170	-9.171
l2_ged_dummy_sb	0.1704	0.036	4.773	0.000	0.100	0.240
l3_ged_dummy_sb	0.1839	0.036	5.060	0.000	0.113	0.255
l4_ged_dummy_sb	0.2400	0.037	6.541	0.000	0.168	0.312
l5_ged_dummy_sb	0.1848	0.038	4.890	0.000	0.111	0.259
l6_ged_dummy_sb	0.0825	0.039	2.100	0.036	0.005	0.159
l7_ged_dummy_sb	0.2410	0.039	6.134	0.000	0.164	0.318
l8_ged_dummy_sb	0.2589	0.040	6.491	0.000	0.181	0.337
l9_ged_dummy_sb	0.2696	0.040	6.664	0.000	0.190	0.349
l10_ged_dummy_sb	0.2283	0.041	5.534	0.000	0.147	0.309
l11_ged_dummy_sb	0.2668	0.041	6.430	0.000	0.185	0.348
l12_ged_dummy_sb	0.2307	0.042	5.534	0.000	0.149	0.312
q_1_1_l2_ged_dummy_sb	0.1504	0.018	8.131	0.000	0.114	0.187
q_1_1_l3_ged_dummy_sb	0.0717	0.018	3.887	0.000	0.036	0.108
l1_ged_dummy_sb	0.2847	0.036	7.930	0.000	0.214	0.355
l1_ged_dummy_ns	0.5576	0.154	3.623	0.000	0.256	0.859
l1_ged_dummy_os	0.3397	0.057	5.958	0.000	0.228	0.452
decay_l2_cw_ged_dummy_sb_0	4.0532	0.049	82.010	0.000	3.956	4.150
decay_l2_cw_ged_dummy_ns_0	-0.4102	0.077	-5.329	0.000	-0.561	-0.259
decay_l2_cw_ged_dummy_os_0	0.7991	0.052	15.340	0.000	0.697	0.901
q_1_1_l1_ged_dummy_sb	0.2802	0.018	15.486	0.000	0.245	0.316
q_1_1_l1_ged_dummy_ns	-0.1422	0.071	-1.997	0.046	-0.282	-0.003
q_1_1_l1_ged_dummy_os	0.0953	0.022	4.388	0.000	0.053	0.138
ln_dist_diamsec	0.2599	0.023	11.534	0.000	0.216	0.304
ln_dist_petroleum	-0.2610	0.021	-12.412	0.000	-0.302	-0.220
agri_ih_li	-0.0025	0.001	-2.330	0.020	-0.005	-0.000
barren_ih_li	-0.0064	0.001	-6.879	0.000	-0.008	-0.005
forest_ih_li	-0.0035	0.001	-3.778	0.000	-0.005	-0.002
mountains_mean	0.0212	0.040	0.525	0.600	-0.058	0.101
savanna_ih_li	-0.0063	0.001	-6.705	0.000	-0.008	-0.004
shrub_ih_li	0.0064	0.001	6.032	0.000	0.004	0.009
pasture_ih_li	0.0024	0.001	3.197	0.001	0.001	0.004
urban_ih_li	0.0493	0.011	4.419	0.000	0.027	0.071
ln_bdist3	-0.0684	0.010	-6.733	0.000	-0.088	-0.048
ln_ttime	-0.1106	0.025	-4.455	0.000	-0.159	-0.062
ln_capdist	0.1099	0.015	7.257	0.000	0.080	0.140
ln_pop	0.2239	0.013	17.637	0.000	0.199	0.249
gcp_li_mer	0.0112	0.014	0.812	0.417	-0.016	0.038
imr_mean	0.0006	3.8e-05	17.032	0.000	0.001	0.001
excluded_dummy_li	0.2415	0.025	9.775	0.000	0.193	0.290

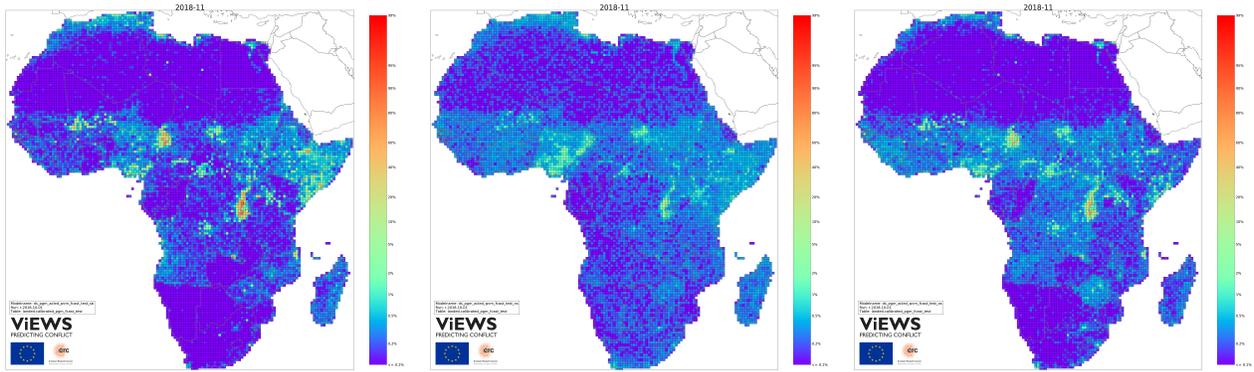
4.2.5 ns_eval

Dep. Variable:		ged_dummy_ns	No. Observations:		3203100	
Model:		Logit	Df Residuals:		3203060	
Method:		MLE	Df Model:		39	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.3721	
Time:		03:55:26	Log-Likelihood:		-15350.	
converged:		True	LL-Null:		-24447.	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-17.8982	0.495	-36.164	0.000	-18.868	-16.928
l2_ged_dummy_ns	0.3894	0.070	5.562	0.000	0.252	0.527
l3_ged_dummy_ns	0.3185	0.073	4.383	0.000	0.176	0.461
l4_ged_dummy_ns	0.2462	0.076	3.255	0.001	0.098	0.394
l5_ged_dummy_ns	0.3181	0.078	4.102	0.000	0.166	0.470
l6_ged_dummy_ns	0.1234	0.083	1.489	0.137	-0.039	0.286
l7_ged_dummy_ns	0.1885	0.085	2.215	0.027	0.022	0.355
l8_ged_dummy_ns	0.0958	0.088	1.083	0.279	-0.078	0.269
l9_ged_dummy_ns	0.3413	0.087	3.910	0.000	0.170	0.512
l10_ged_dummy_ns	0.2717	0.090	3.023	0.003	0.096	0.448
l11_ged_dummy_ns	0.1988	0.092	2.154	0.031	0.018	0.380
l12_ged_dummy_ns	0.3035	0.092	3.308	0.001	0.124	0.483
q_1_1_l2_ged_dummy_ns	0.1692	0.044	3.825	0.000	0.082	0.256
q_1_1_l3_ged_dummy_ns	0.0672	0.045	1.494	0.135	-0.021	0.155
l1_ged_dummy_sb	0.2928	0.149	1.963	0.050	0.000	0.585
l1_ged_dummy_ns	0.4920	0.070	7.025	0.000	0.355	0.629
l1_ged_dummy_os	0.5208	0.117	4.450	0.000	0.291	0.750
decay_l2_cw_ged_dummy_sb_0	-0.1014	0.117	-0.866	0.386	-0.331	0.128
decay_l2_cw_ged_dummy_ns_0	4.0490	0.084	48.018	0.000	3.884	4.214
decay_l2_cw_ged_dummy_os_0	0.3570	0.102	3.486	0.000	0.156	0.558
q_1_1_l1_ged_dummy_sb	-0.0110	0.058	-0.190	0.849	-0.125	0.103
q_1_1_l1_ged_dummy_ns	0.5423	0.042	12.886	0.000	0.460	0.625
q_1_1_l1_ged_dummy_os	0.1869	0.045	4.181	0.000	0.099	0.275
ln_dist_diamsec	0.3200	0.041	7.901	0.000	0.241	0.399
ln_dist_petroleum	0.8357	0.056	14.870	0.000	0.726	0.946
agri_ih_li	0.0128	0.002	6.893	0.000	0.009	0.016
barren_ih_li	0.0008	0.002	0.398	0.690	-0.003	0.005
forest_ih_li	0.0042	0.002	2.352	0.019	0.001	0.008
mountains_mean	-0.2067	0.073	-2.812	0.005	-0.351	-0.063
savanna_ih_li	0.0040	0.002	2.250	0.024	0.001	0.008
shrub_ih_li	0.0246	0.002	12.237	0.000	0.021	0.028
pasture_ih_li	0.0135	0.002	8.799	0.000	0.010	0.017
urban_ih_li	0.0401	0.015	2.727	0.006	0.011	0.069
ln_bdist3	-0.1149	0.017	-6.652	0.000	-0.149	-0.081
ln_ttime	0.1893	0.043	4.447	0.000	0.106	0.273
ln_capdist	0.1374	0.025	5.396	0.000	0.087	0.187
ln_pop	0.4510	0.024	19.064	0.000	0.405	0.497
gcp_li_mer	0.0624	0.025	2.531	0.011	0.014	0.111
imr_mean	1.373e-05	7.09e-05	0.194	0.847	-0.000	0.000
excluded_dummy_li	0.3324	0.043	7.804	0.000	0.249	0.416

4.2.6 os_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_os			No. Observations:	3203100	
Model:	Logit			Df Residuals:	3203060	
Method:	MLE			Df Model:	39	
Date:	Tue, 25 Sep 2018			Pseudo R-squ.:	0.3798	
Time:	03:55:14			Log-Likelihood:	-27770.	
converged:	True			LL-Null:	-44777.	
Intercept	-10.9831	0.336	-32.699	0.000	-11.641	-10.325
l2_ged_dummy_os	0.0983	0.047	2.080	0.038	0.006	0.191
l3_ged_dummy_os	0.2215	0.048	4.644	0.000	0.128	0.315
l4_ged_dummy_os	0.0929	0.049	1.892	0.058	-0.003	0.189
l5_ged_dummy_os	0.1033	0.050	2.051	0.040	0.005	0.202
l6_ged_dummy_os	0.1674	0.051	3.269	0.001	0.067	0.268
l7_ged_dummy_os	0.1565	0.053	2.977	0.003	0.053	0.260
l8_ged_dummy_os	0.0783	0.054	1.441	0.150	-0.028	0.185
l9_ged_dummy_os	0.1235	0.055	2.231	0.026	0.015	0.232
l10_ged_dummy_os	0.0399	0.057	0.701	0.484	-0.072	0.151
l11_ged_dummy_os	0.0722	0.057	1.258	0.208	-0.040	0.185
l12_ged_dummy_os	0.3604	0.055	6.527	0.000	0.252	0.469
q_1_1_l2_ged_dummy_os	0.0860	0.023	3.731	0.000	0.041	0.131
q_1_1_l3_ged_dummy_os	0.0500	0.022	2.227	0.026	0.006	0.094
l1_ged_dummy_sb	0.2815	0.057	4.912	0.000	0.169	0.394
l1_ged_dummy_ns	0.6031	0.112	5.366	0.000	0.383	0.823
l1_ged_dummy_os	0.4069	0.047	8.606	0.000	0.314	0.500
decay_l2_cw_ged_dummy_sb_0	1.2656	0.061	20.706	0.000	1.146	1.385
decay_l2_cw_ged_dummy_ns_0	0.0326	0.075	0.435	0.664	-0.114	0.180
decay_l2_cw_ged_dummy_os_0	3.5418	0.066	53.602	0.000	3.412	3.671
q_1_1_l1_ged_dummy_sb	0.0827	0.022	3.748	0.000	0.039	0.126
q_1_1_l1_ged_dummy_ns	0.1375	0.040	3.456	0.001	0.060	0.215
q_1_1_l1_ged_dummy_os	0.3734	0.022	17.177	0.000	0.331	0.416
ln_dist_diamsec	-0.1942	0.027	-7.211	0.000	-0.247	-0.141
ln_dist_petroleum	0.2568	0.030	8.493	0.000	0.198	0.316
agri_ih_li	0.0014	0.001	1.074	0.283	-0.001	0.004
barren_ih_li	-0.0072	0.001	-5.088	0.000	-0.010	-0.004
forest_ih_li	0.0022	0.001	2.137	0.033	0.000	0.004
mountains_mean	-0.1535	0.051	-3.013	0.003	-0.253	-0.054
savanna_ih_li	0.0035	0.001	3.447	0.001	0.002	0.006
shrub_ih_li	0.0027	0.002	1.481	0.139	-0.001	0.006
pasture_ih_li	0.0022	0.001	2.207	0.027	0.000	0.004
urban_ih_li	0.0558	0.011	4.918	0.000	0.034	0.078
ln_bdist3	-0.0738	0.012	-5.982	0.000	-0.098	-0.050
ln_ttime	-0.1846	0.032	-5.744	0.000	-0.248	-0.122
ln_capdist	0.1404	0.016	9.014	0.000	0.110	0.171
ln_pop	0.3100	0.017	18.542	0.000	0.277	0.343
gcp_li_mer	0.0768	0.016	4.728	0.000	0.045	0.109
imr_mean	0.0004	4.97e-05	7.995	0.000	0.000	0.000
excluded_dummy_li	0.3265	0.030	10.942	0.000	0.268	0.385

4.3 ds_pgm_acled_wcm



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 28: Forecasts for October 2018

4.3.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	2776020
Model:	Logit	Df Residuals:	2775964
Method:	MLE	Df Model:	55
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.4193
Time:	03:54:01	Log-Likelihood:	-36097.
converged:	True	LL-Null:	-62158.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-8.2013	0.388	-21.147	0.000	-8.961	-7.441
l2_ged_dummy_sb	0.1373	0.036	3.831	0.000	0.067	0.208
l3_ged_dummy_sb	0.1106	0.037	3.021	0.003	0.039	0.182
l4_ged_dummy_sb	0.1806	0.037	4.898	0.000	0.108	0.253
l5_ged_dummy_sb	0.1614	0.038	4.272	0.000	0.087	0.235
l6_ged_dummy_sb	0.0588	0.039	1.502	0.133	-0.018	0.136
l7_ged_dummy_sb	0.2074	0.039	5.295	0.000	0.131	0.284
l8_ged_dummy_sb	0.1819	0.040	4.549	0.000	0.104	0.260
l9_ged_dummy_sb	0.2263	0.040	5.619	0.000	0.147	0.305
l10_ged_dummy_sb	0.1725	0.041	4.199	0.000	0.092	0.253
l11_ged_dummy_sb	0.2407	0.041	5.860	0.000	0.160	0.321
l12_ged_dummy_sb	0.2136	0.041	5.180	0.000	0.133	0.294
q_1_1_l2_ged_dummy_sb	0.1464	0.018	8.259	0.000	0.112	0.181
q_1_1_l3_ged_dummy_sb	0.0670	0.018	3.778	0.000	0.032	0.102
l1_ged_dummy_sb	0.2494	0.037	6.765	0.000	0.177	0.322
l1_ged_dummy_ns	0.0376	0.126	0.298	0.766	-0.210	0.285
l1_ged_dummy_os	0.1167	0.052	2.225	0.026	0.014	0.219
l1_acled_dummy_pr	0.0408	0.070	0.586	0.558	-0.096	0.177
decay_12_cw_ged_dummy_sb_0	3.6207	0.050	72.576	0.000	3.523	3.718
decay_12_cw_ged_dummy_ns_0	0.4117	0.073	5.607	0.000	0.268	0.556
decay_12_cw_ged_dummy_os_0	1.0082	0.051	19.954	0.000	0.909	1.107
decay_12_cw_acled_dummy_pr_0	0.3702	0.053	6.992	0.000	0.266	0.474
q_1_1_l1_ged_dummy_sb	0.2532	0.018	14.213	0.000	0.218	0.288
q_1_1_l1_ged_dummy_ns	-0.0415	0.052	-0.797	0.425	-0.144	0.061
q_1_1_l1_ged_dummy_os	0.0890	0.021	4.254	0.000	0.048	0.130
q_1_1_l1_acled_dummy_pr	-0.0662	0.025	-2.604	0.009	-0.116	-0.016
ln_dist_diamsec	0.3705	0.026	14.027	0.000	0.319	0.422
ln_dist_petroleum	0.0248	0.031	0.802	0.423	-0.036	0.085
agri_ih_li	-0.0008	0.001	-0.708	0.479	-0.003	0.001
barren_ih_li	-0.0060	0.001	-5.828	0.000	-0.008	-0.004
forest_ih_li	-0.0005	0.001	-0.430	0.667	-0.003	0.002
mountains_mean	-0.0964	0.045	-2.123	0.034	-0.185	-0.007
savanna_ih_li	0.0017	0.001	1.677	0.094	-0.000	0.004
shrub_ih_li	0.0120	0.001	10.116	0.000	0.010	0.014
pasture_ih_li	0.0017	0.001	1.993	0.046	2.74e-05	0.003
urban_ih_li	0.0038	0.012	0.317	0.752	-0.020	0.027
ln_bdist3	-0.0963	0.011	-8.566	0.000	-0.118	-0.074
ln_ttime	-0.1670	0.026	-6.395	0.000	-0.218	-0.116
ln_capdist	0.0735	0.019	3.899	0.000	0.037	0.110
ln_pop	0.1662	0.014	11.503	0.000	0.138	0.195
gcp_li_mer	0.1025	0.013	7.674	0.000	0.076	0.129
imr_mean	0.0005	5.25e-05	9.424	0.000	0.000	0.001
excluded_dummy_li	0.1013	0.027	3.687	0.000	0.047	0.155
fvp_lngdpcap_nonoilrent	-0.1522	0.030	-5.123	0.000	-0.210	-0.094
fvp_lngdpcap_oilrent	0.0901	0.007	12.473	0.000	0.076	0.104
fvp_grgdpcap_oilrent	-0.1290	0.029	-4.439	0.000	-0.186	-0.072
fvp_grgdpcap_nonoilrent	-0.2816	0.086	-3.284	0.001	-0.450	-0.114
ln_fvp_timeindep	0.1093	0.045	2.425	0.015	0.021	0.198
ln_fvp_timesincepreindepwar	-0.0010	0.036	-0.027	0.978	-0.072	0.070
ln_fvp_timesinceregimechange	-0.0765	0.017	-4.515	0.000	-0.110	-0.043
fvp_demo	-0.7078	0.053	-13.450	0.000	-0.811	-0.605
fvp_semi	-0.2284	0.041	-5.585	0.000	-0.309	-0.148
fvp_prop_excluded	0.1925	0.055	3.522	0.000	0.085	0.300
ln_fvp_population200	0.0234	0.019	1.207	0.228	-0.015	0.061
ssp2_edu_sec_15_24_prop	-0.1931	0.110	-1.748	0.080	-0.410	0.023
ssp2_urban_share_iiasa	-0.0011	0.001	-0.843	0.399	-0.004	0.001

4.3.2 ns_fcast

Dep. Variable:	ged_dummy_ns	No. Observations:	2776020
Model:	Logit	Df Residuals:	2775964
Method:	MLE	Df Model:	55
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3229
Time:	03:54:27	Log-Likelihood:	-16247.
converged:	True	LL-Null:	-23993.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-13.6800	0.646	-21.167	0.000	-14.947	-12.413
l2_ged_dummy_ns	0.2227	0.069	3.219	0.001	0.087	0.358
l3_ged_dummy_ns	0.2786	0.070	3.959	0.000	0.141	0.417
l4_ged_dummy_ns	0.1782	0.073	2.434	0.015	0.035	0.322
l5_ged_dummy_ns	0.2053	0.076	2.704	0.007	0.056	0.354
l6_ged_dummy_ns	0.0492	0.081	0.604	0.546	-0.110	0.209
l7_ged_dummy_ns	0.1940	0.083	2.343	0.019	0.032	0.356
l8_ged_dummy_ns	0.0751	0.088	0.858	0.391	-0.096	0.247
l9_ged_dummy_ns	0.3923	0.085	4.619	0.000	0.226	0.559
l10_ged_dummy_ns	0.3323	0.087	3.799	0.000	0.161	0.504
l11_ged_dummy_ns	0.0494	0.094	0.527	0.598	-0.134	0.233
l12_ged_dummy_ns	0.4025	0.089	4.539	0.000	0.229	0.576
q_1_1_l2_ged_dummy_ns	0.2651	0.041	6.439	0.000	0.184	0.346
q_1_1_l3_ged_dummy_ns	0.1499	0.043	3.503	0.000	0.066	0.234
l1_ged_dummy_sb	-0.2613	0.127	-2.051	0.040	-0.511	-0.012
l1_ged_dummy_ns	0.4604	0.069	6.643	0.000	0.325	0.596
l1_ged_dummy_os	0.2278	0.115	1.985	0.047	0.003	0.453
l1_acled_dummy_pr	0.0847	0.089	0.953	0.341	-0.090	0.259
decay_l2_cw_ged_dummy_sb_0	0.4927	0.100	4.926	0.000	0.297	0.689
decay_l2_cw_ged_dummy_ns_0	3.7503	0.085	44.148	0.000	3.584	3.917
decay_l2_cw_ged_dummy_os_0	0.7636	0.098	7.795	0.000	0.572	0.956
decay_l2_cw_acled_dummy_pr_0	0.6813	0.080	8.469	0.000	0.524	0.839
q_1_1_l1_ged_dummy_sb	-0.1249	0.049	-2.524	0.012	-0.222	-0.028
q_1_1_l1_ged_dummy_ns	0.4960	0.040	12.511	0.000	0.418	0.574
q_1_1_l1_ged_dummy_os	0.1339	0.047	2.843	0.004	0.042	0.226
q_1_1_l1_acled_dummy_pr	0.0286	0.031	0.910	0.363	-0.033	0.090
ln_dist_diamsec	0.5217	0.047	11.113	0.000	0.430	0.614
ln_dist_petroleum	0.6814	0.062	11.051	0.000	0.561	0.802
agri_ih_li	0.0059	0.002	2.965	0.003	0.002	0.010
barren_ih_li	-0.0075	0.002	-4.066	0.000	-0.011	-0.004
forest_ih_li	-0.0039	0.002	-2.048	0.041	-0.008	-0.000
mountains_mean	-0.2150	0.080	-2.679	0.007	-0.372	-0.058
savanna_ih_li	0.0077	0.002	4.453	0.000	0.004	0.011
shrub_ih_li	0.0196	0.002	9.572	0.000	0.016	0.024
pasture_ih_li	0.0050	0.002	3.093	0.002	0.002	0.008
urban_ih_li	0.0359	0.015	2.384	0.017	0.006	0.065
ln_bdist3	-0.0863	0.018	-4.718	0.000	-0.122	-0.050
ln_ttime	0.0875	0.043	2.029	0.042	0.003	0.172
ln_capdist	0.0996	0.030	3.276	0.001	0.040	0.159
ln_pop	0.1911	0.023	8.202	0.000	0.145	0.237
gcp_li_mer	0.0542	0.027	2.025	0.043	0.002	0.107
imr_mean	-0.0002	8.7e-05	-1.978	0.048	-0.000	-1.61e-06
excluded_dummy_li	0.2156	0.044	4.912	0.000	0.130	0.302
fvp_lngdpcap_nonoilrent	-0.1284	0.046	-2.794	0.005	-0.218	-0.038
fvp_lngdpcap_oilrent	0.0943	0.011	8.431	0.000	0.072	0.116
fvp_grgdpcap_oilrent	-0.1986	0.047	-4.257	0.000	-0.290	-0.107
fvp_grgdpcap_nonoilrent	-0.2575	0.137	-1.884	0.060	-0.525	0.010
ln_fvp_timeindep	-0.2620	0.075	-3.494	0.000	-0.409	-0.115
ln_fvp_timesincepreindepwar	0.4738	0.064	7.405	0.000	0.348	0.599
ln_fvp_timesinceregimechange	-0.1315	0.025	-5.258	0.000	-0.180	-0.082
fvp_demo	-0.4585	0.076	-6.063	0.000	-0.607	-0.310
fvp_semi	-0.1670	0.068	-2.473	0.013	-0.299	-0.035
fvp_prop_excluded	-0.9824	0.112	-8.771	0.000	-1.202	-0.763
ln_fvp_population200	0.0485	0.031	1.559	0.119	-0.013	0.110
ssp2_edu_sec_15_24_prop	0.7642	0.162	4.710	0.000	0.446	1.082
ssp2_urban_share_iiasa	-0.0012	0.002	-0.571	0.568	-0.005	0.003

4.3.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	2776020
Model:	Logit	Df Residuals:	2775964
Method:	MLE	Df Model:	55
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.4002
Time:	03:54:42	Log-Likelihood:	-26138.
converged:	True	LL-Null:	-43575.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-8.1875	0.467	-17.519	0.000	-9.104	-7.272
l2_ged_dummy_os	0.1543	0.046	3.361	0.001	0.064	0.244
l3_ged_dummy_os	0.1636	0.047	3.500	0.000	0.072	0.255
l4_ged_dummy_os	0.1072	0.048	2.245	0.025	0.014	0.201
l5_ged_dummy_os	0.1033	0.049	2.109	0.035	0.007	0.199
l6_ged_dummy_os	0.1631	0.050	3.288	0.001	0.066	0.260
l7_ged_dummy_os	0.2084	0.050	4.134	0.000	0.110	0.307
l8_ged_dummy_os	0.0637	0.053	1.212	0.226	-0.039	0.167
l9_ged_dummy_os	0.1142	0.053	2.144	0.032	0.010	0.219
l10_ged_dummy_os	0.0519	0.055	0.950	0.342	-0.055	0.159
l11_ged_dummy_os	0.0861	0.055	1.564	0.118	-0.022	0.194
l12_ged_dummy_os	0.2983	0.054	5.563	0.000	0.193	0.403
q_1_1_l2_ged_dummy_os	0.1150	0.022	5.147	0.000	0.071	0.159
q_1_1_l3_ged_dummy_os	0.0615	0.022	2.805	0.005	0.019	0.104
l1_ged_dummy_sb	-0.0067	0.054	-0.125	0.901	-0.112	0.099
l1_ged_dummy_ns	0.2398	0.113	2.129	0.033	0.019	0.461
l1_ged_dummy_os	0.4159	0.048	8.678	0.000	0.322	0.510
l1_acled_dummy_pr	0.2081	0.070	2.957	0.003	0.070	0.346
decay_l2_cw_ged_dummy_sb_0	1.4387	0.059	24.336	0.000	1.323	1.555
decay_l2_cw_ged_dummy_ns_0	0.5314	0.074	7.205	0.000	0.387	0.676
decay_l2_cw_ged_dummy_os_0	3.0019	0.066	45.795	0.000	2.873	3.130
decay_l2_cw_acled_dummy_pr_0	0.6185	0.060	10.246	0.000	0.500	0.737
q_1_1_l1_ged_dummy_sb	0.0386	0.021	1.847	0.065	-0.002	0.079
q_1_1_l1_ged_dummy_ns	0.0166	0.048	0.347	0.729	-0.077	0.111
q_1_1_l1_ged_dummy_os	0.3508	0.022	15.713	0.000	0.307	0.395
q_1_1_l1_acled_dummy_pr	-0.0142	0.027	-0.531	0.596	-0.067	0.038
ln_dist_diamsec	-0.0192	0.031	-0.622	0.534	-0.080	0.041
ln_dist_petroleum	0.3798	0.040	9.404	0.000	0.301	0.459
agri_ih_li	0.0033	0.001	2.457	0.014	0.001	0.006
barren_ih_li	-0.0116	0.001	-7.981	0.000	-0.015	-0.009
forest_ih_li	0.0012	0.001	1.071	0.284	-0.001	0.003
mountains_mean	-0.2207	0.056	-3.918	0.000	-0.331	-0.110
savanna_ih_li	0.0074	0.001	6.982	0.000	0.005	0.009
shrub_ih_li	0.0047	0.002	2.452	0.014	0.001	0.008
pasture_ih_li	-0.0024	0.001	-2.317	0.021	-0.004	-0.000
urban_ih_li	0.0211	0.013	1.669	0.095	-0.004	0.046
ln_bdist3	-0.0750	0.013	-5.575	0.000	-0.101	-0.049
ln_ttime	-0.1765	0.033	-5.284	0.000	-0.242	-0.111
ln_capdist	0.1237	0.021	5.796	0.000	0.082	0.166
ln_pop	0.2111	0.018	11.437	0.000	0.175	0.247
gcp_li_mer	0.1502	0.017	8.661	0.000	0.116	0.184
imr_mean	0.0003	6.15e-05	4.427	0.000	0.000	0.000
excluded_dummy_li	0.1108	0.034	3.306	0.001	0.045	0.177
fvp_lngdpcap_nonoilrent	-0.2448	0.035	-7.028	0.000	-0.313	-0.177
fvp_lngdpcap_oilrent	0.0952	0.009	10.916	0.000	0.078	0.112
fvp_grgdpcap_oilrent	-0.2028	0.036	-5.699	0.000	-0.273	-0.133
fvp_grgdpcap_nonoilrent	-0.3385	0.100	-3.395	0.001	-0.534	-0.143
ln_fvp_timeindep	-0.0285	0.055	-0.517	0.605	-0.136	0.079
ln_fvp_timesincepreindepwar	0.1046	0.044	2.361	0.018	0.018	0.191
ln_fvp_timesinceregimechange	-0.0870	0.019	-4.472	0.000	-0.125	-0.049
fvp_demo	-0.9013	0.060	-15.105	0.000	-1.018	-0.784
fvp_semi	-0.3287	0.048	-6.907	0.000	-0.422	-0.235
fvp_prop_excluded	0.1088	0.062	1.744	0.081	-0.013	0.231
ln_fvp_population200	0.0119	0.023	0.515	0.607	-0.033	0.057
ssp2_edu_sec_15_24_prop	0.0814	0.128	0.636	0.525	-0.169	0.332
ssp2_urban_share_iiasa	-0.0003	0.002	-0.225	0.822	-0.003	0.003

4.3.4 pr_fcast

Dep. Variable:	acled_dummy_pr	No. Observations:	2776020
Model:	Logit	Df Residuals:	2775964
Method:	MLE	Df Model:	55
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.4681
Time:	03:54:33	Log-Likelihood:	-68804.
converged:	True	LL-Null:	-1.2936e+05

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-7.0945	0.246	-28.873	0.000	-7.576	-6.613
l2_acled_dummy_pr	0.1919	0.023	8.326	0.000	0.147	0.237
l3_acled_dummy_pr	0.1852	0.023	7.940	0.000	0.140	0.231
l4_acled_dummy_pr	0.2494	0.023	10.694	0.000	0.204	0.295
l5_acled_dummy_pr	0.2193	0.024	9.231	0.000	0.173	0.266
l6_acled_dummy_pr	0.2226	0.024	9.223	0.000	0.175	0.270
l7_acled_dummy_pr	0.2642	0.024	10.846	0.000	0.216	0.312
l8_acled_dummy_pr	0.3050	0.025	12.431	0.000	0.257	0.353
l9_acled_dummy_pr	0.2613	0.025	10.480	0.000	0.212	0.310
l10_acled_dummy_pr	0.2185	0.025	8.623	0.000	0.169	0.268
l11_acled_dummy_pr	0.3009	0.025	11.889	0.000	0.251	0.350
l12_acled_dummy_pr	0.4127	0.025	16.493	0.000	0.364	0.462
q_1_1_l12_acled_dummy_pr	-5.484e-07	0.012	-4.58e-05	1.000	-0.023	0.023
q_1_1_l13_acled_dummy_pr	0.0025	0.012	0.213	0.831	-0.020	0.025
l1_ged_dummy_sb	-0.2748	0.074	-3.719	0.000	-0.420	-0.130
l1_ged_dummy_ns	0.1880	0.095	1.977	0.048	0.002	0.374
l1_ged_dummy_os	0.0005	0.077	0.007	0.994	-0.150	0.151
l1_acled_dummy_pr	0.2880	0.023	12.469	0.000	0.243	0.333
decay_12_cw_ged_dummy_sb_0	0.4551	0.053	8.603	0.000	0.351	0.559
decay_12_cw_ged_dummy_ns_0	0.4305	0.057	7.510	0.000	0.318	0.543
decay_12_cw_ged_dummy_os_0	0.3130	0.053	5.885	0.000	0.209	0.417
decay_12_cw_acled_dummy_pr_0	3.1449	0.033	94.374	0.000	3.080	3.210
q_1_1_l1_ged_dummy_sb	-0.1406	0.030	-4.650	0.000	-0.200	-0.081
q_1_1_l1_ged_dummy_ns	-0.0634	0.040	-1.568	0.117	-0.143	0.016
q_1_1_l1_ged_dummy_os	0.0097	0.033	0.298	0.766	-0.054	0.074
q_1_1_l1_acled_dummy_pr	0.1880	0.011	16.713	0.000	0.166	0.210
ln_dist_diamsec	0.1463	0.016	8.972	0.000	0.114	0.178
ln_dist_petroleum	0.1423	0.021	6.864	0.000	0.102	0.183
agri_ih_li	-0.0010	0.001	-1.633	0.102	-0.002	0.000
barren_ih_li	0.0015	0.001	2.410	0.016	0.000	0.003
forest_ih_li	0.0005	0.001	0.699	0.485	-0.001	0.002
mountains_mean	0.0723	0.031	2.363	0.018	0.012	0.132
savanna_ih_li	0.0011	0.001	1.597	0.110	-0.000	0.002
shrub_ih_li	0.0068	0.001	7.365	0.000	0.005	0.009
pasture_ih_li	0.0032	0.001	5.767	0.000	0.002	0.004
urban_ih_li	0.0265	0.005	4.990	0.000	0.016	0.037
ln_bdist3	-0.0708	0.008	-9.182	0.000	-0.086	-0.056
ln_ttime	-0.4169	0.017	-24.357	0.000	-0.450	-0.383
ln_capdist	-0.0443	0.010	-4.371	0.000	-0.064	-0.024
ln_pop	0.2862	0.009	30.620	0.000	0.268	0.304
gcp_li_mer	-0.0889	0.008	-11.010	0.000	-0.105	-0.073
imr_mean	0.0002	3.57e-05	4.884	0.000	0.000	0.000
excluded_dummy_li	0.0144	0.020	0.716	0.474	-0.025	0.054
fvp_lngdpcap_nonoilrent	-0.1146	0.018	-6.410	0.000	-0.150	-0.080
fvp_lngdpcap_oilrent	-0.0066	0.004	-1.586	0.113	-0.015	0.002
fvp_grgdpcap_oilrent	-0.2929	0.020	-14.403	0.000	-0.333	-0.253
fvp_grgdpcap_nonoilrent	-0.0059	0.051	-0.115	0.908	-0.107	0.095
ln_fvp_timeindep	0.3832	0.029	13.010	0.000	0.325	0.441
ln_fvp_timesincepreindepwar	-0.0317	0.027	-1.190	0.234	-0.084	0.021
ln_fvp_timesinceregimechange	0.0303	0.010	3.104	0.002	0.011	0.049
fvp_demo	0.0599	0.034	1.774	0.076	-0.006	0.126
fvp_semi	-0.1285	0.030	-4.292	0.000	-0.187	-0.070
fvp_prop_excluded	0.3223	0.048	6.686	0.000	0.228	0.417
ln_fvp_population200	-0.1276	0.012	-11.043	0.000	-0.150	-0.105
ssp2_edu_sec_15_24_prop	1.4831	0.063	23.507	0.000	1.359	1.607
ssp2_urban_share_iiasa	0.0008	0.001	0.858	0.391	-0.001	0.003

4.3.5 sb_eval

Dep. Variable:	ged_dummy_sb	No. Observations:	2306232
Model:	Logit	Df Residuals:	2306176
Method:	MLE	Df Model:	55
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.4203
Time:	03:47:07	Log-Likelihood:	-28339.
converged:	True	LL-Null:	-48889.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-8.3989	0.464	-18.112	0.000	-9.308	-7.490
l2_ged_dummy_sb	0.1303	0.041	3.174	0.002	0.050	0.211
l3_ged_dummy_sb	0.0768	0.042	1.828	0.068	-0.006	0.159
l4_ged_dummy_sb	0.1749	0.042	4.140	0.000	0.092	0.258
l5_ged_dummy_sb	0.1233	0.043	2.840	0.005	0.038	0.208
l6_ged_dummy_sb	0.0512	0.045	1.143	0.253	-0.037	0.139
l7_ged_dummy_sb	0.1994	0.045	4.454	0.000	0.112	0.287
l8_ged_dummy_sb	0.2353	0.045	5.192	0.000	0.146	0.324
l9_ged_dummy_sb	0.2178	0.046	4.727	0.000	0.127	0.308
l10_ged_dummy_sb	0.1685	0.047	3.575	0.000	0.076	0.261
l11_ged_dummy_sb	0.2566	0.047	5.453	0.000	0.164	0.349
l12_ged_dummy_sb	0.1919	0.047	4.049	0.000	0.099	0.285
q_1_1_l2_ged_dummy_sb	0.1493	0.021	7.252	0.000	0.109	0.190
q_1_1_l3_ged_dummy_sb	0.0668	0.021	3.238	0.001	0.026	0.107
l1_ged_dummy_sb	0.2882	0.041	6.996	0.000	0.207	0.369
l1_ged_dummy_ns	-0.1612	0.169	-0.955	0.339	-0.492	0.169
l1_ged_dummy_os	0.2450	0.062	3.941	0.000	0.123	0.367
l1_acled_dummy_pr	-0.0096	0.095	-0.101	0.919	-0.196	0.177
decay_l2_cw_ged_dummy_sb_0	3.6452	0.056	65.359	0.000	3.536	3.755
decay_l2_cw_ged_dummy_ns_0	0.4660	0.090	5.197	0.000	0.290	0.642
decay_l2_cw_ged_dummy_os_0	1.1255	0.058	19.544	0.000	1.013	1.238
decay_l2_cw_acled_dummy_pr_0	0.3439	0.067	5.165	0.000	0.213	0.474
q_1_1_l1_ged_dummy_sb	0.2367	0.020	11.657	0.000	0.197	0.276
q_1_1_l1_ged_dummy_ns	-0.1391	0.079	-1.771	0.077	-0.293	0.015
q_1_1_l1_ged_dummy_os	0.0935	0.024	3.827	0.000	0.046	0.141
q_1_1_l1_acled_dummy_pr	-0.0202	0.039	-0.521	0.603	-0.096	0.056
ln_dist_diamsec	0.3399	0.031	11.126	0.000	0.280	0.400
ln_dist_petroleum	0.0243	0.035	0.694	0.488	-0.044	0.093
agri_ih_li	-7.914e-05	0.001	-0.059	0.953	-0.003	0.003
barren_ih_li	-0.0062	0.001	-5.225	0.000	-0.009	-0.004
forest_ih_li	-0.0013	0.001	-1.053	0.292	-0.004	0.001
mountains_mean	-0.0849	0.051	-1.679	0.093	-0.184	0.014
savanna_ih_li	-3.106e-05	0.001	-0.026	0.979	-0.002	0.002
shrub_ih_li	0.0121	0.001	8.912	0.000	0.009	0.015
pasture_ih_li	0.0021	0.001	2.229	0.026	0.000	0.004
urban_ih_li	-0.0003	0.015	-0.023	0.982	-0.030	0.030
ln_bdist3	-0.0974	0.013	-7.565	0.000	-0.123	-0.072
ln_ttime	-0.1426	0.030	-4.799	0.000	-0.201	-0.084
ln_capdist	0.0546	0.022	2.457	0.014	0.011	0.098
ln_pop	0.1607	0.017	9.692	0.000	0.128	0.193
gcp_li_mer	0.1260	0.016	7.904	0.000	0.095	0.157
imr_mean	0.0006	6.03e-05	9.123	0.000	0.000	0.001
excluded_dummy_li	0.0837	0.032	2.606	0.009	0.021	0.147
fvp_lngdpcap_nonoilrent	-0.1655	0.036	-4.540	0.000	-0.237	-0.094
fvp_lngdpcap_oilrent	0.0909	0.008	10.858	0.000	0.075	0.107
fvp_grgdpcap_oilrent	-0.1477	0.034	-4.318	0.000	-0.215	-0.081
fvp_grgdpcap_nonoilrent	-0.4447	0.097	-4.584	0.000	-0.635	-0.255
ln_fvp_timeindep	0.2020	0.052	3.915	0.000	0.101	0.303
ln_fvp_timesincepreindepwar	-0.0628	0.042	-1.480	0.139	-0.146	0.020
ln_fvp_timesinceregimechange	-0.1553	0.023	-6.697	0.000	-0.201	-0.110
fvp_demo	-0.8703	0.063	-13.789	0.000	-0.994	-0.747
fvp_semi	-0.3308	0.048	-6.932	0.000	-0.424	-0.237
fvp_prop_excluded	0.1473	0.060	2.475	0.013	0.031	0.264
ln_fvp_population200	0.0655	0.025	2.653	0.008	0.017	0.114
ssp2_edu_sec_15_24_prop	-0.0790	0.137	-0.575	0.565	-0.348	0.190
ssp2_urban_share_iiasa	2.046e-06	0.001	0.001	0.999	-0.003	0.003

4.3.6 ns_eval

Dep. Variable:	ged_dummy_ns	No. Observations:	2306232
Model:	Logit	Df Residuals:	2306176
Method:	MLE	Df Model:	55
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3235
Time:	03:47:09	Log-Likelihood:	-11344.
converged:	True	LL-Null:	-16767.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-19.0869	0.858	-22.234	0.000	-20.769	-17.404
l2_ged_dummy_ns	0.2495	0.085	2.925	0.003	0.082	0.417
l3_ged_dummy_ns	0.2555	0.087	2.927	0.003	0.084	0.427
l4_ged_dummy_ns	0.1820	0.091	2.006	0.045	0.004	0.360
l5_ged_dummy_ns	0.1526	0.095	1.608	0.108	-0.033	0.339
l6_ged_dummy_ns	0.0788	0.100	0.786	0.432	-0.118	0.275
l7_ged_dummy_ns	0.1073	0.104	1.033	0.302	-0.096	0.311
l8_ged_dummy_ns	-0.0529	0.110	-0.482	0.630	-0.268	0.162
l9_ged_dummy_ns	0.4000	0.103	3.868	0.000	0.197	0.603
l10_ged_dummy_ns	0.2982	0.107	2.774	0.006	0.088	0.509
l11_ged_dummy_ns	0.0714	0.114	0.624	0.532	-0.153	0.296
l12_ged_dummy_ns	0.2473	0.112	2.205	0.027	0.027	0.467
q_1_1_l2_ged_dummy_ns	0.1629	0.058	2.824	0.005	0.050	0.276
q_1_1_l3_ged_dummy_ns	0.1680	0.059	2.847	0.004	0.052	0.284
l1_ged_dummy_sb	-0.3424	0.160	-2.137	0.033	-0.656	-0.028
l1_ged_dummy_ns	0.4528	0.086	5.287	0.000	0.285	0.621
l1_ged_dummy_os	0.2062	0.138	1.489	0.136	-0.065	0.478
l1_acled_dummy_pr	0.2637	0.121	2.177	0.030	0.026	0.501
decay_12_cw_ged_dummy_sb_0	0.5540	0.119	4.663	0.000	0.321	0.787
decay_12_cw_ged_dummy_ns_0	3.6676	0.104	35.346	0.000	3.464	3.871
decay_12_cw_ged_dummy_os_0	0.7498	0.115	6.503	0.000	0.524	0.976
decay_12_cw_acled_dummy_pr_0	0.4977	0.104	4.777	0.000	0.294	0.702
q_1_1_l1_ged_dummy_sb	-0.1272	0.063	-2.004	0.045	-0.252	-0.003
q_1_1_l1_ged_dummy_ns	0.6471	0.052	12.498	0.000	0.546	0.749
q_1_1_l1_ged_dummy_os	0.1417	0.056	2.551	0.011	0.033	0.251
q_1_1_l1_acled_dummy_pr	0.0339	0.045	0.758	0.449	-0.054	0.122
ln_dist_diamsec	0.4787	0.061	7.899	0.000	0.360	0.597
ln_dist_petroleum	1.0223	0.081	12.672	0.000	0.864	1.180
agri_ih_li	0.0096	0.002	3.867	0.000	0.005	0.015
barren_ih_li	0.0006	0.002	0.258	0.797	-0.004	0.005
forest_ih_li	0.0009	0.002	0.382	0.702	-0.004	0.006
mountains_mean	-0.2131	0.096	-2.217	0.027	-0.402	-0.025
savanna_ih_li	0.0106	0.002	4.664	0.000	0.006	0.015
shrub_ih_li	0.0270	0.003	10.597	0.000	0.022	0.032
pasture_ih_li	0.0129	0.002	6.257	0.000	0.009	0.017
urban_ih_li	0.0309	0.017	1.795	0.073	-0.003	0.065
ln_bdist3	-0.1277	0.022	-5.829	0.000	-0.171	-0.085
ln_ttime	0.2175	0.052	4.145	0.000	0.115	0.320
ln_capdist	-0.0086	0.037	-0.231	0.817	-0.081	0.064
ln_pop	0.2961	0.029	10.115	0.000	0.239	0.354
gcp_li_mer	0.1379	0.030	4.569	0.000	0.079	0.197
imr_mean	9.733e-05	0.000	0.897	0.369	-0.000	0.000
excluded_dummy_li	0.3227	0.053	6.054	0.000	0.218	0.427
fvp_lngdpcap_nonoilrent	0.0100	0.060	0.166	0.868	-0.108	0.128
fvp_lngdpcap_oilrent	0.0568	0.015	3.819	0.000	0.028	0.086
fvp_grgdpcap_oilrent	-0.1438	0.058	-2.464	0.014	-0.258	-0.029
fvp_grgdpcap_nonoilrent	-0.7604	0.170	-4.477	0.000	-1.093	-0.428
ln_fvp_timeindep	-0.3542	0.089	-3.959	0.000	-0.530	-0.179
ln_fvp_timesincepreindepar	0.3338	0.077	4.335	0.000	0.183	0.485
ln_fvp_timesinceregimechange	-0.0353	0.036	-0.974	0.330	-0.106	0.036
fvp_demo	-0.4630	0.094	-4.919	0.000	-0.647	-0.279
fvp_semi	-0.1279	0.082	-1.559	0.119	-0.289	0.033
fvp_prop_excluded	-0.8211	0.127	-6.452	0.000	-1.071	-0.572
ln_fvp_population200	0.2869	0.046	6.203	0.000	0.196	0.378
ssp2_edu_sec_15_24_prop	0.6467	0.207	3.123	0.002	0.241	1.053
ssp2_urban_share_iiasa	-0.0049	0.002	-1.961	0.050	-0.010	-1.94e-06

4.3.7 os_eval

Dep. Variable:	ged_dummy_os	No. Observations:	2306232
Model:	Logit	Df Residuals:	2306176
Method:	MLE	Df Model:	55
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3963
Time:	03:47:09	Log-Likelihood:	-19702.
converged:	True	LL-Null:	-32635.

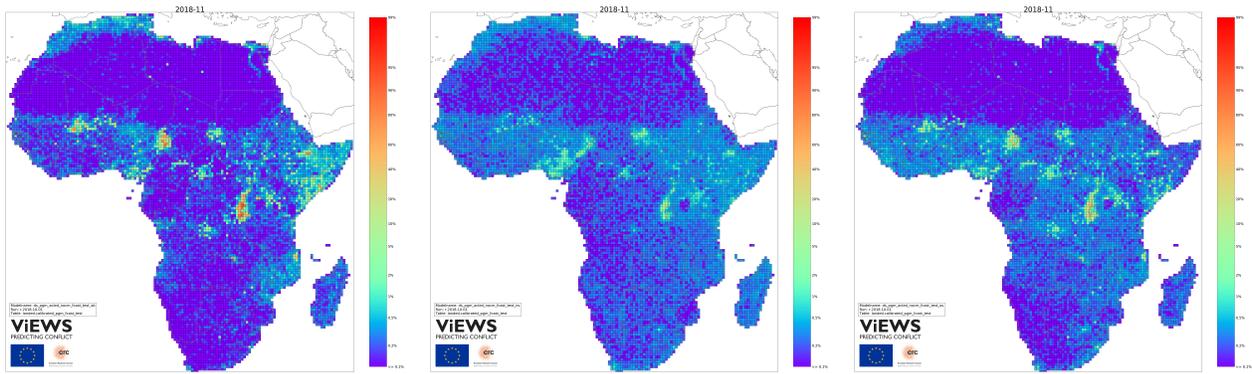
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-8.3040	0.579	-14.333	0.000	-9.440	-7.168
l2_ged_dummy_os	0.1031	0.055	1.890	0.059	-0.004	0.210
l3_ged_dummy_os	0.2140	0.055	3.896	0.000	0.106	0.322
l4_ged_dummy_os	0.0626	0.057	1.104	0.269	-0.048	0.174
l5_ged_dummy_os	0.0253	0.058	0.433	0.665	-0.089	0.140
l6_ged_dummy_os	0.1652	0.059	2.819	0.005	0.050	0.280
l7_ged_dummy_os	0.1882	0.060	3.158	0.002	0.071	0.305
l8_ged_dummy_os	0.0433	0.062	0.697	0.486	-0.078	0.165
l9_ged_dummy_os	0.0649	0.063	1.024	0.306	-0.059	0.189
l10_ged_dummy_os	0.0294	0.065	0.454	0.650	-0.098	0.156
l11_ged_dummy_os	0.0591	0.065	0.905	0.365	-0.069	0.187
l12_ged_dummy_os	0.3260	0.063	5.178	0.000	0.203	0.449
q_1_1_l2_ged_dummy_os	0.1146	0.026	4.366	0.000	0.063	0.166
q_1_1_l3_ged_dummy_os	0.0584	0.026	2.265	0.023	0.008	0.109
l1_ged_dummy_sb	0.0624	0.063	0.995	0.320	-0.061	0.185
l1_ged_dummy_ns	0.1793	0.144	1.249	0.212	-0.102	0.461
l1_ged_dummy_os	0.4795	0.054	8.798	0.000	0.373	0.586
l1_acled_dummy_pr	0.2112	0.095	2.218	0.027	0.025	0.398
decay_l2_cw_ged_dummy_sb_0	1.5807	0.067	23.646	0.000	1.450	1.712
decay_l2_cw_ged_dummy_ns_0	0.6073	0.092	6.619	0.000	0.427	0.787
decay_l2_cw_ged_dummy_os_0	3.0488	0.074	41.293	0.000	2.904	3.193
decay_l2_cw_acled_dummy_pr_0	0.5232	0.077	6.773	0.000	0.372	0.675
q_1_1_l1_ged_dummy_sb	0.0744	0.024	3.071	0.002	0.027	0.122
q_1_1_l1_ged_dummy_ns	0.1495	0.065	2.298	0.022	0.022	0.277
q_1_1_l1_ged_dummy_os	0.3508	0.025	13.873	0.000	0.301	0.400
q_1_1_l1_acled_dummy_pr	0.0147	0.042	0.352	0.725	-0.067	0.097
ln_dist_diamsec	-0.0878	0.037	-2.402	0.016	-0.160	-0.016
ln_dist_petroleum	0.3913	0.047	8.367	0.000	0.300	0.483
agri_ih_li	0.0052	0.002	3.272	0.001	0.002	0.008
barren_ih_li	-0.0123	0.002	-6.799	0.000	-0.016	-0.009
forest_ih_li	0.0038	0.001	2.929	0.003	0.001	0.006
mountains_mean	-0.2184	0.064	-3.387	0.001	-0.345	-0.092
savanna_ih_li	0.0094	0.001	7.556	0.000	0.007	0.012
shrub_ih_li	0.0055	0.002	2.374	0.018	0.001	0.010
pasture_ih_li	-0.0015	0.001	-1.246	0.213	-0.004	0.001
urban_ih_li	0.0347	0.015	2.305	0.021	0.005	0.064
ln_bdist3	-0.0811	0.016	-5.149	0.000	-0.112	-0.050
ln_ttime	-0.1684	0.039	-4.295	0.000	-0.245	-0.092
ln_capdist	0.0997	0.026	3.867	0.000	0.049	0.150
ln_pop	0.2098	0.022	9.644	0.000	0.167	0.252
gcp_li_mer	0.1816	0.020	9.188	0.000	0.143	0.220
imr_mean	0.0003	7.22e-05	3.505	0.000	0.000	0.000
excluded_dummy_li	0.0747	0.040	1.886	0.059	-0.003	0.152
fvp_lngdpcap_nonoilrent	-0.3034	0.043	-6.989	0.000	-0.388	-0.218
fvp_lngdpcap_oilrent	0.0989	0.010	9.667	0.000	0.079	0.119
fvp_grgdpcap_oilrent	-0.1109	0.044	-2.517	0.012	-0.197	-0.025
fvp_grgdpcap_nonoilrent	-0.5157	0.127	-4.052	0.000	-0.765	-0.266
ln_fvp_timeindep	-0.0064	0.065	-0.098	0.922	-0.134	0.122
ln_fvp_timesincepreindepwar	0.0816	0.054	1.522	0.128	-0.024	0.187
ln_fvp_timesinceregimechange	-0.0857	0.027	-3.120	0.002	-0.140	-0.032
fvp_demo	-0.9279	0.072	-12.948	0.000	-1.068	-0.787
fvp_semi	-0.3898	0.057	-6.789	0.000	-0.502	-0.277
fvp_prop_excluded	0.1786	0.069	2.583	0.010	0.043	0.314
ln_fvp_population200	0.0592	0.031	1.914	0.056	-0.001	0.120
ssp2_edu_sec_15_24_prop	0.2894	0.161	1.797	0.072	-0.026	0.605
ssp2_urban_share_iiasa	0.0017	0.002	1.019	0.308	-0.002	0.005

4.3.8 pr_eval

Dep. Variable:	acled_dummy_pr	No. Observations:	2306232
Model:	Logit	Df Residuals:	2306176
Method:	MLE	Df Model:	55
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.4443
Time:	03:47:06	Log-Likelihood:	-41249.
converged:	True	LL-Null:	-74234.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-7.1950	0.348	-20.661	0.000	-7.878	-6.512
l2_acled_dummy_pr	0.1530	0.033	4.670	0.000	0.089	0.217
l3_acled_dummy_pr	0.2112	0.033	6.387	0.000	0.146	0.276
l4_acled_dummy_pr	0.2112	0.033	6.337	0.000	0.146	0.277
l5_acled_dummy_pr	0.2312	0.034	6.819	0.000	0.165	0.298
l6_acled_dummy_pr	0.1748	0.035	5.008	0.000	0.106	0.243
l7_acled_dummy_pr	0.2489	0.035	7.074	0.000	0.180	0.318
l8_acled_dummy_pr	0.3353	0.035	9.494	0.000	0.266	0.405
l9_acled_dummy_pr	0.2636	0.036	7.292	0.000	0.193	0.334
l10_acled_dummy_pr	0.2908	0.036	7.970	0.000	0.219	0.362
l11_acled_dummy_pr	0.3321	0.037	9.052	0.000	0.260	0.404
l12_acled_dummy_pr	0.3619	0.037	9.865	0.000	0.290	0.434
q_1_1_l2_acled_dummy_pr	-0.0202	0.019	-1.043	0.297	-0.058	0.018
q_1_1_l3_acled_dummy_pr	0.0425	0.019	2.271	0.023	0.006	0.079
l1_ged_dummy_sb	-0.4326	0.095	-4.552	0.000	-0.619	-0.246
l1_ged_dummy_ns	0.0126	0.129	0.097	0.923	-0.241	0.266
l1_ged_dummy_os	-0.0921	0.100	-0.924	0.355	-0.287	0.103
l1_acled_dummy_pr	0.3353	0.032	10.320	0.000	0.272	0.399
decay_l2_cw_ged_dummy_sb_0	0.6459	0.069	9.424	0.000	0.512	0.780
decay_l2_cw_ged_dummy_ns_0	0.5314	0.075	7.087	0.000	0.384	0.678
decay_l2_cw_ged_dummy_os_0	0.3655	0.068	5.350	0.000	0.232	0.499
decay_l2_cw_acled_dummy_pr_0	3.0642	0.044	69.685	0.000	2.978	3.150
q_1_1_l1_ged_dummy_sb	-0.1724	0.040	-4.259	0.000	-0.252	-0.093
q_1_1_l1_ged_dummy_ns	-0.0415	0.062	-0.668	0.504	-0.163	0.080
q_1_1_l1_ged_dummy_os	-0.0370	0.046	-0.805	0.421	-0.127	0.053
q_1_1_l1_acled_dummy_pr	0.2394	0.018	13.614	0.000	0.205	0.274
ln_dist_diamsec	0.1366	0.021	6.372	0.000	0.095	0.179
ln_dist_petroleum	0.1541	0.027	5.644	0.000	0.101	0.208
agri_ih_li	-0.0006	0.001	-0.744	0.457	-0.002	0.001
barren_ih_li	0.0030	0.001	3.716	0.000	0.001	0.005
forest_ih_li	0.0007	0.001	0.746	0.456	-0.001	0.003
mountains_mean	0.0221	0.042	0.530	0.596	-0.060	0.104
savanna_ih_li	0.0011	0.001	1.213	0.225	-0.001	0.003
shrub_ih_li	0.0072	0.001	5.722	0.000	0.005	0.010
pasture_ih_li	0.0044	0.001	5.838	0.000	0.003	0.006
urban_ih_li	0.0118	0.006	1.845	0.065	-0.001	0.024
ln_bdist3	-0.0969	0.010	-9.378	0.000	-0.117	-0.077
ln_ttime	-0.4878	0.023	-21.131	0.000	-0.533	-0.443
ln_capdist	-0.0691	0.013	-5.293	0.000	-0.095	-0.044
ln_pop	0.3378	0.013	26.752	0.000	0.313	0.363
gcp_li_mer	-0.1056	0.011	-9.820	0.000	-0.127	-0.084
imr_mean	0.0003	4.79e-05	5.373	0.000	0.000	0.000
excluded_dummy_li	0.0241	0.027	0.878	0.380	-0.030	0.078
fvp_lngdpcap_nonoilrent	-0.1114	0.027	-4.061	0.000	-0.165	-0.058
fvp_lngdpcap_oilrent	-0.0183	0.006	-3.284	0.001	-0.029	-0.007
fvp_grgdpcap_oilrent	-0.2618	0.027	-9.861	0.000	-0.314	-0.210
fvp_grgdpcap_nonoilrent	-0.2108	0.099	-2.139	0.032	-0.404	-0.018
ln_fvp_timeindep	0.2587	0.040	6.414	0.000	0.180	0.338
ln_fvp_timesincepreindepar	-0.0390	0.036	-1.078	0.281	-0.110	0.032
ln_fvp_timesinceregimechange	0.0924	0.017	5.520	0.000	0.060	0.125
fvp_demo	0.0764	0.046	1.661	0.097	-0.014	0.167
fvp_semi	-0.2179	0.040	-5.466	0.000	-0.296	-0.140
fvp_prop_excluded	0.3595	0.062	5.757	0.000	0.237	0.482
ln_fvp_population200	-0.1115	0.016	-7.045	0.000	-0.142	-0.080
ssp2_edu_sec_15_24_prop	1.7890	0.088	20.310	0.000	1.616	1.962
ssp2_urban_share_iiasa	-0.0002	0.001	-0.134	0.893	-0.002	0.002

4.4 ds_pgm_acled_nocm



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 29: Forecasts for October 2018

4.4.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	2776020
Model:	Logit	Df Residuals:	2775977
Method:	MLE	Df Model:	42
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.4138
Time:	03:34:59	Log-Likelihood:	-36440.
converged:	True	LL-Null:	-62158.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-8.8879	0.268	-33.218	0.000	-9.412	-8.364
l2_ged_dummy_sb	0.1170	0.036	3.280	0.001	0.047	0.187
l3_ged_dummy_sb	0.0978	0.036	2.682	0.007	0.026	0.169
l4_ged_dummy_sb	0.1752	0.037	4.769	0.000	0.103	0.247
l5_ged_dummy_sb	0.1599	0.038	4.246	0.000	0.086	0.234
l6_ged_dummy_sb	0.0617	0.039	1.580	0.114	-0.015	0.138
l7_ged_dummy_sb	0.2085	0.039	5.330	0.000	0.132	0.285
l8_ged_dummy_sb	0.1858	0.040	4.650	0.000	0.107	0.264
l9_ged_dummy_sb	0.2300	0.040	5.711	0.000	0.151	0.309
l10_ged_dummy_sb	0.1763	0.041	4.291	0.000	0.096	0.257
l11_ged_dummy_sb	0.2454	0.041	5.971	0.000	0.165	0.326
l12_ged_dummy_sb	0.2181	0.041	5.285	0.000	0.137	0.299
q_1_1_l2_ged_dummy_sb	0.1454	0.018	8.189	0.000	0.111	0.180
q_1_1_l3_ged_dummy_sb	0.0658	0.018	3.713	0.000	0.031	0.101
l1_ged_dummy_sb	0.2104	0.037	5.725	0.000	0.138	0.282
l1_ged_dummy_ns	0.0446	0.127	0.352	0.725	-0.204	0.293
l1_ged_dummy_os	0.0921	0.052	1.758	0.079	-0.011	0.195
l1_acled_dummy_pr	0.0540	0.069	0.786	0.432	-0.081	0.189
decay_l2_cw_ged_dummy_sb_0	3.8685	0.049	78.979	0.000	3.773	3.965
decay_l2_cw_ged_dummy_ns_0	0.3684	0.073	5.029	0.000	0.225	0.512
decay_l2_cw_ged_dummy_os_0	1.0093	0.051	19.971	0.000	0.910	1.108
decay_l2_cw_acled_dummy_pr_0	0.3373	0.052	6.519	0.000	0.236	0.439
q_1_1_l1_ged_dummy_sb	0.2553	0.018	14.265	0.000	0.220	0.290
q_1_1_l1_ged_dummy_ns	-0.0824	0.052	-1.576	0.115	-0.185	0.020
q_1_1_l1_ged_dummy_os	0.0711	0.021	3.382	0.001	0.030	0.112
q_1_1_l1_acled_dummy_pr	-0.0738	0.025	-2.955	0.003	-0.123	-0.025
ln_dist_diamsec	0.3340	0.023	14.471	0.000	0.289	0.379
ln_dist_petroleum	-0.1274	0.024	-5.308	0.000	-0.174	-0.080
agri_ih_li	-0.0020	0.001	-1.804	0.071	-0.004	0.000
barren_ih_li	-0.0068	0.001	-6.795	0.000	-0.009	-0.005
forest_ih_li	-0.0016	0.001	-1.647	0.100	-0.004	0.000
mountains_mean	-0.0095	0.042	-0.224	0.823	-0.093	0.074
savanna_ih_li	-0.0014	0.001	-1.427	0.154	-0.003	0.001
shrub_ih_li	0.0088	0.001	7.929	0.000	0.007	0.011
pasture_ih_li	0.0026	0.001	3.263	0.001	0.001	0.004
urban_ih_li	0.0130	0.011	1.137	0.256	-0.009	0.035
ln_bdist3	-0.0753	0.010	-7.173	0.000	-0.096	-0.055
ln_ttime	-0.1521	0.026	-5.854	0.000	-0.203	-0.101
ln_capdist	0.0884	0.015	5.766	0.000	0.058	0.119
ln_pop	0.1660	0.013	12.438	0.000	0.140	0.192
gcp_li_mer	0.0288	0.012	2.322	0.020	0.004	0.053
imr_mean	0.0005	4.01e-05	11.752	0.000	0.000	0.001
excluded_dummy_li	0.2694	0.025	10.770	0.000	0.220	0.318

4.4.2 ns_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_ns			No. Observations:	2776020	
Model:	Logit			Df Residuals:	2775977	
Method:	MLE			Df Model:	42	
Date:	Tue, 25 Sep 2018			Pseudo R-squ.:	0.3169	
Time:	03:35:02			Log-Likelihood:	-16389.	
converged:	True			LL-Null:	-23993.	
Intercept	-14.4571	0.469	-30.807	0.000	-15.377	-13.537
l2_ged_dummy_ns	0.1977	0.069	2.869	0.004	0.063	0.333
l3_ged_dummy_ns	0.2689	0.070	3.838	0.000	0.132	0.406
l4_ged_dummy_ns	0.1705	0.073	2.338	0.019	0.028	0.313
l5_ged_dummy_ns	0.2015	0.076	2.663	0.008	0.053	0.350
l6_ged_dummy_ns	0.0485	0.081	0.598	0.550	-0.111	0.208
l7_ged_dummy_ns	0.2118	0.083	2.567	0.010	0.050	0.374
l8_ged_dummy_ns	0.0892	0.087	1.021	0.307	-0.082	0.261
l9_ged_dummy_ns	0.3975	0.085	4.678	0.000	0.231	0.564
l10_ged_dummy_ns	0.3424	0.087	3.917	0.000	0.171	0.514
l11_ged_dummy_ns	0.0685	0.093	0.734	0.463	-0.115	0.252
l12_ged_dummy_ns	0.4135	0.089	4.669	0.000	0.240	0.587
q_1_1_l2_ged_dummy_ns	0.2854	0.041	6.927	0.000	0.205	0.366
q_1_1_l3_ged_dummy_ns	0.1823	0.043	4.261	0.000	0.098	0.266
l1_ged_dummy_sb	-0.2744	0.128	-2.150	0.032	-0.525	-0.024
l1_ged_dummy_ns	0.4251	0.069	6.156	0.000	0.290	0.560
l1_ged_dummy_os	0.1895	0.115	1.650	0.099	-0.036	0.415
l1_acled_dummy_pr	0.0750	0.088	0.848	0.397	-0.098	0.248
decay_l2_cw_ged_dummy_sb_0	0.5498	0.099	5.561	0.000	0.356	0.744
decay_l2_cw_ged_dummy_ns_0	3.9348	0.084	46.843	0.000	3.770	4.099
decay_l2_cw_ged_dummy_os_0	0.8140	0.097	8.359	0.000	0.623	1.005
decay_l2_cw_acled_dummy_pr_0	0.6831	0.079	8.678	0.000	0.529	0.837
q_1_1_l1_ged_dummy_sb	-0.1216	0.050	-2.452	0.014	-0.219	-0.024
q_1_1_l1_ged_dummy_ns	0.5213	0.040	13.134	0.000	0.443	0.599
q_1_1_l1_ged_dummy_os	0.1260	0.047	2.667	0.008	0.033	0.219
q_1_1_l1_acled_dummy_pr	0.0404	0.031	1.310	0.190	-0.020	0.101
ln_dist_diamsec	0.4630	0.040	11.439	0.000	0.384	0.542
ln_dist_petroleum	0.5096	0.050	10.215	0.000	0.412	0.607
agri_ih_li	0.0088	0.002	4.702	0.000	0.005	0.012
barren_ih_li	-0.0066	0.002	-3.619	0.000	-0.010	-0.003
forest_ih_li	-0.0010	0.002	-0.538	0.591	-0.005	0.003
mountains_mean	-0.4243	0.077	-5.512	0.000	-0.575	-0.273
savanna_ih_li	0.0053	0.002	3.126	0.002	0.002	0.009
shrub_ih_li	0.0158	0.002	8.039	0.000	0.012	0.020
pasture_ih_li	0.0065	0.002	4.230	0.000	0.003	0.009
urban_ih_li	0.0305	0.015	2.064	0.039	0.002	0.059
ln_bdist3	-0.0562	0.017	-3.301	0.001	-0.090	-0.023
ln_ttime	0.1197	0.042	2.857	0.004	0.038	0.202
ln_capdist	0.2176	0.026	8.222	0.000	0.166	0.270
ln_pop	0.2512	0.022	11.537	0.000	0.208	0.294
gcp_li_mer	0.0071	0.025	0.281	0.779	-0.042	0.056
imr_mean	-0.0002	6.78e-05	-3.624	0.000	-0.000	-0.000
excluded_dummy_li	0.1891	0.041	4.597	0.000	0.108	0.270

4.4.3 os_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_os			No. Observations:	2776020	
Model:	Logit			Df Residuals:	2775977	
Method:	MLE			Df Model:	42	
Date:	Tue, 25 Sep 2018			Pseudo R-squ.:	0.3927	
Time:	03:35:03			Log-Likelihood:	-26465.	
converged:	True			LL-Null:	-43575.	
Intercept	-10.0310	0.342	-29.365	0.000	-10.700	-9.361
l2_ged_dummy_os	0.1210	0.046	2.651	0.008	0.032	0.210
l3_ged_dummy_os	0.1446	0.046	3.112	0.002	0.054	0.236
l4_ged_dummy_os	0.0979	0.048	2.060	0.039	0.005	0.191
l5_ged_dummy_os	0.1036	0.049	2.125	0.034	0.008	0.199
l6_ged_dummy_os	0.1627	0.049	3.292	0.001	0.066	0.260
l7_ged_dummy_os	0.2064	0.050	4.103	0.000	0.108	0.305
l8_ged_dummy_os	0.0619	0.052	1.181	0.238	-0.041	0.165
l9_ged_dummy_os	0.1186	0.053	2.228	0.026	0.014	0.223
l10_ged_dummy_os	0.0563	0.055	1.032	0.302	-0.051	0.163
l11_ged_dummy_os	0.0833	0.055	1.514	0.130	-0.024	0.191
l12_ged_dummy_os	0.2969	0.054	5.539	0.000	0.192	0.402
q_1_1_l2_ged_dummy_os	0.1114	0.022	4.970	0.000	0.067	0.155
q_1_1_l3_ged_dummy_os	0.0575	0.022	2.609	0.009	0.014	0.101
l1_ged_dummy_sb	-0.0164	0.054	-0.304	0.761	-0.122	0.089
l1_ged_dummy_ns	0.2583	0.113	2.286	0.022	0.037	0.480
l1_ged_dummy_os	0.3630	0.048	7.573	0.000	0.269	0.457
l1_acled_dummy_pr	0.2255	0.070	3.232	0.001	0.089	0.362
decay_l2_cw_ged_dummy_sb_0	1.5082	0.060	25.250	0.000	1.391	1.625
decay_l2_cw_ged_dummy_ns_0	0.4820	0.073	6.567	0.000	0.338	0.626
decay_l2_cw_ged_dummy_os_0	3.2637	0.066	49.437	0.000	3.134	3.393
decay_l2_cw_acled_dummy_pr_0	0.5860	0.059	9.865	0.000	0.470	0.702
q_1_1_l1_ged_dummy_sb	0.0236	0.021	1.126	0.260	-0.017	0.065
q_1_1_l1_ged_dummy_ns	-0.0103	0.048	-0.213	0.831	-0.105	0.084
q_1_1_l1_ged_dummy_os	0.3547	0.022	15.789	0.000	0.311	0.399
q_1_1_l1_acled_dummy_pr	-0.0243	0.026	-0.917	0.359	-0.076	0.028
ln_dist_diamsec	-0.0204	0.027	-0.742	0.458	-0.074	0.033
ln_dist_petroleum	0.2236	0.032	6.946	0.000	0.161	0.287
agri_ih_li	0.0007	0.001	0.540	0.589	-0.002	0.003
barren_ih_li	-0.0111	0.001	-7.624	0.000	-0.014	-0.008
forest_ih_li	0.0013	0.001	1.182	0.237	-0.001	0.003
mountains_mean	-0.1654	0.053	-3.133	0.002	-0.269	-0.062
savanna_ih_li	0.0053	0.001	5.266	0.000	0.003	0.007
shrub_ih_li	-0.0004	0.002	-0.242	0.808	-0.004	0.003
pasture_ih_li	0.0003	0.001	0.350	0.726	-0.002	0.002
urban_ih_li	0.0288	0.012	2.341	0.019	0.005	0.053
ln_bdist3	-0.0588	0.013	-4.670	0.000	-0.083	-0.034
ln_ttime	-0.1779	0.033	-5.421	0.000	-0.242	-0.114
ln_capdist	0.1538	0.016	9.618	0.000	0.122	0.185
ln_pop	0.2100	0.017	12.293	0.000	0.177	0.244
gcp_li_mer	0.0703	0.016	4.383	0.000	0.039	0.102
imr_mean	0.0004	5.16e-05	7.414	0.000	0.000	0.000
excluded_dummy_li	0.3117	0.030	10.296	0.000	0.252	0.371

4.4.4 pr_fcast

Dep. Variable:	acled_dummy_pr	No. Observations:	2776020			
Model:	Logit	Df Residuals:	2775977			
Method:	MLE	Df Model:	42			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.4639			
Time:	03:34:57	Log-Likelihood:	-69352.			
converged:	True	LL-Null:	-1.2936e+05			
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-6.3642	0.170	-37.505	0.000	-6.697	-6.032
l2_acled_dummy_pr	0.1756	0.023	7.653	0.000	0.131	0.221
l3_acled_dummy_pr	0.1766	0.023	7.600	0.000	0.131	0.222
l4_acled_dummy_pr	0.2522	0.023	10.850	0.000	0.207	0.298
l5_acled_dummy_pr	0.2262	0.024	9.544	0.000	0.180	0.273
l6_acled_dummy_pr	0.2364	0.024	9.819	0.000	0.189	0.284
l7_acled_dummy_pr	0.2769	0.024	11.396	0.000	0.229	0.325
l8_acled_dummy_pr	0.3209	0.024	13.104	0.000	0.273	0.369
l9_acled_dummy_pr	0.2773	0.025	11.145	0.000	0.229	0.326
l10_acled_dummy_pr	0.2322	0.025	9.182	0.000	0.183	0.282
l11_acled_dummy_pr	0.3167	0.025	12.541	0.000	0.267	0.366
l12_acled_dummy_pr	0.4285	0.025	17.170	0.000	0.380	0.477
q_1_1_l2_acled_dummy_pr	0.0265	0.012	2.213	0.027	0.003	0.050
q_1_1_l3_acled_dummy_pr	0.0285	0.012	2.449	0.014	0.006	0.051
l1_ged_dummy_sb	-0.2020	0.074	-2.748	0.006	-0.346	-0.058
l1_ged_dummy_ns	0.2045	0.095	2.143	0.032	0.018	0.391
l1_ged_dummy_os	0.0312	0.077	0.408	0.684	-0.119	0.181
l1_acled_dummy_pr	0.2575	0.023	11.204	0.000	0.212	0.302
decay_12_cw_ged_dummy_sb_0	0.4224	0.052	8.085	0.000	0.320	0.525
decay_12_cw_ged_dummy_ns_0	0.3599	0.057	6.351	0.000	0.249	0.471
decay_12_cw_ged_dummy_os_0	0.2500	0.053	4.739	0.000	0.147	0.353
decay_12_cw_acled_dummy_pr_0	3.3532	0.033	102.594	0.000	3.289	3.417
q_1_1_l1_ged_dummy_sb	-0.1318	0.030	-4.380	0.000	-0.191	-0.073
q_1_1_l1_ged_dummy_ns	-0.0697	0.041	-1.722	0.085	-0.149	0.010
q_1_1_l1_ged_dummy_os	-0.0067	0.033	-0.205	0.837	-0.071	0.057
q_1_1_l1_acled_dummy_pr	0.2180	0.011	19.360	0.000	0.196	0.240
ln_dist_diamsec	-0.0009	0.014	-0.060	0.952	-0.029	0.027
ln_dist_petroleum	0.0324	0.016	1.977	0.048	0.000	0.065
agri_ih_li	-6.09e-05	0.001	-0.098	0.922	-0.001	0.001
barren_ih_li	0.0025	0.001	4.097	0.000	0.001	0.004
forest_ih_li	0.0009	0.001	1.341	0.180	-0.000	0.002
mountains_mean	0.1863	0.029	6.460	0.000	0.130	0.243
savanna_ih_li	0.0020	0.001	3.162	0.002	0.001	0.003
shrub_ih_li	0.0101	0.001	11.234	0.000	0.008	0.012
pasture_ih_li	0.0043	0.001	7.845	0.000	0.003	0.005
urban_ih_li	0.0285	0.005	5.429	0.000	0.018	0.039
ln_bdist3	-0.0804	0.007	-11.540	0.000	-0.094	-0.067
ln_ttime	-0.4117	0.017	-24.494	0.000	-0.445	-0.379
ln_capdist	-0.0171	0.008	-2.062	0.039	-0.033	-0.001
ln_pop	0.2625	0.009	30.553	0.000	0.246	0.279
gcp_li_mer	-0.0812	0.008	-10.441	0.000	-0.096	-0.066
imr_mean	-0.0002	2.75e-05	-6.674	0.000	-0.000	-0.000
excluded_dummy_li	-0.0608	0.019	-3.174	0.002	-0.098	-0.023

4.4.5 sb_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_sb			No. Observations:	2306232	
Model:	Logit			Df Residuals:	2306189	
Method:	MLE			Df Model:	42	
Date:	Tue, 25 Sep 2018			Pseudo R-squ.:	0.4137	
Time:	03:33:44			Log-Likelihood:	-28663.	
converged:	True			LL-Null:	-48889.	
Intercept	-9.1573	0.308	-29.774	0.000	-9.760	-8.554
l2_ged_dummy_sb	0.1024	0.041	2.507	0.012	0.022	0.183
l3_ged_dummy_sb	0.0589	0.042	1.406	0.160	-0.023	0.141
l4_ged_dummy_sb	0.1642	0.042	3.902	0.000	0.082	0.247
l5_ged_dummy_sb	0.1182	0.043	2.730	0.006	0.033	0.203
l6_ged_dummy_sb	0.0502	0.045	1.123	0.261	-0.037	0.138
l7_ged_dummy_sb	0.1979	0.045	4.423	0.000	0.110	0.286
l8_ged_dummy_sb	0.2361	0.045	5.212	0.000	0.147	0.325
l9_ged_dummy_sb	0.2166	0.046	4.698	0.000	0.126	0.307
l10_ged_dummy_sb	0.1698	0.047	3.601	0.000	0.077	0.262
l11_ged_dummy_sb	0.2565	0.047	5.446	0.000	0.164	0.349
l12_ged_dummy_sb	0.1895	0.047	3.995	0.000	0.097	0.282
q_1_1_l2_ged_dummy_sb	0.1508	0.021	7.302	0.000	0.110	0.191
q_1_1_l3_ged_dummy_sb	0.0666	0.021	3.221	0.001	0.026	0.107
l1_ged_dummy_sb	0.2401	0.041	5.856	0.000	0.160	0.320
l1_ged_dummy_ns	-0.1797	0.169	-1.062	0.288	-0.511	0.152
l1_ged_dummy_os	0.2102	0.062	3.380	0.001	0.088	0.332
l1_acled_dummy_pr	0.0208	0.093	0.224	0.823	-0.162	0.203
decay_l2_cw_ged_dummy_sb_0	3.9411	0.055	72.231	0.000	3.834	4.048
decay_l2_cw_ged_dummy_ns_0	0.4686	0.089	5.239	0.000	0.293	0.644
decay_l2_cw_ged_dummy_os_0	1.1491	0.058	19.950	0.000	1.036	1.262
decay_l2_cw_acled_dummy_pr_0	0.3013	0.065	4.658	0.000	0.174	0.428
q_1_1_l1_ged_dummy_sb	0.2424	0.020	11.894	0.000	0.202	0.282
q_1_1_l1_ged_dummy_ns	-0.1838	0.079	-2.312	0.021	-0.340	-0.028
q_1_1_l1_ged_dummy_os	0.0751	0.025	3.064	0.002	0.027	0.123
q_1_1_l1_acled_dummy_pr	-0.0205	0.038	-0.537	0.591	-0.095	0.054
ln_dist_diamsec	0.3103	0.026	11.774	0.000	0.259	0.362
ln_dist_petroleum	-0.1640	0.026	-6.271	0.000	-0.215	-0.113
agri_ih_li	-0.0021	0.001	-1.652	0.099	-0.005	0.000
barren_ih_li	-0.0082	0.001	-7.138	0.000	-0.010	-0.006
forest_ih_li	-0.0033	0.001	-2.933	0.003	-0.005	-0.001
mountains_mean	-0.0117	0.048	-0.245	0.807	-0.105	0.082
savanna_ih_li	-0.0043	0.001	-3.832	0.000	-0.007	-0.002
shrub_ih_li	0.0080	0.001	6.433	0.000	0.006	0.011
pasture_ih_li	0.0023	0.001	2.611	0.009	0.001	0.004
urban_ih_li	0.0161	0.014	1.121	0.262	-0.012	0.044
ln_bdist3	-0.0605	0.012	-5.070	0.000	-0.084	-0.037
ln_ttime	-0.1182	0.030	-3.985	0.000	-0.176	-0.060
ln_capdist	0.1096	0.018	6.146	0.000	0.075	0.145
ln_pop	0.1716	0.015	11.222	0.000	0.142	0.202
gcp_li_mer	0.0376	0.015	2.529	0.011	0.008	0.067
imr_mean	0.0005	4.54e-05	10.236	0.000	0.000	0.001
excluded_dummy_li	0.2735	0.029	9.516	0.000	0.217	0.330

4.4.6 ns_eval

Dep. Variable:		ged_dummy_ns	No. Observations:		2306232	
Model:		Logit	Df Residuals:		2306189	
Method:		MLE	Df Model:		42	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.3174	
Time:		03:33:43	Log-Likelihood:		-11445.	
converged:		True	LL-Null:		-16767.	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-18.6082	0.609	-30.535	0.000	-19.803	-17.414
l2_ged_dummy_ns	0.2147	0.085	2.530	0.011	0.048	0.381
l3_ged_dummy_ns	0.2347	0.087	2.703	0.007	0.065	0.405
l4_ged_dummy_ns	0.1789	0.090	1.986	0.047	0.002	0.355
l5_ged_dummy_ns	0.1615	0.094	1.712	0.087	-0.023	0.346
l6_ged_dummy_ns	0.0927	0.100	0.930	0.352	-0.103	0.288
l7_ged_dummy_ns	0.1236	0.104	1.194	0.233	-0.079	0.327
l8_ged_dummy_ns	-0.0339	0.109	-0.310	0.757	-0.248	0.181
l9_ged_dummy_ns	0.4172	0.103	4.040	0.000	0.215	0.620
l10_ged_dummy_ns	0.3146	0.107	2.931	0.003	0.104	0.525
l11_ged_dummy_ns	0.0933	0.114	0.818	0.413	-0.130	0.317
l12_ged_dummy_ns	0.2685	0.112	2.398	0.016	0.049	0.488
q_1_1_l2_ged_dummy_ns	0.2023	0.058	3.502	0.000	0.089	0.315
q_1_1_l3_ged_dummy_ns	0.2047	0.059	3.466	0.001	0.089	0.320
l1_ged_dummy_sb	-0.3497	0.159	-2.205	0.027	-0.661	-0.039
l1_ged_dummy_ns	0.4056	0.085	4.757	0.000	0.238	0.573
l1_ged_dummy_os	0.1691	0.138	1.229	0.219	-0.101	0.439
l1_acled_dummy_pr	0.2897	0.119	2.426	0.015	0.056	0.524
decay_l2_cw_ged_dummy_sb_0	0.5893	0.117	5.035	0.000	0.360	0.819
decay_l2_cw_ged_dummy_ns_0	3.8993	0.102	38.127	0.000	3.699	4.100
decay_l2_cw_ged_dummy_os_0	0.8018	0.114	7.044	0.000	0.579	1.025
decay_l2_cw_acled_dummy_pr_0	0.4994	0.102	4.916	0.000	0.300	0.699
q_1_1_l1_ged_dummy_sb	-0.1043	0.063	-1.650	0.099	-0.228	0.020
q_1_1_l1_ged_dummy_ns	0.6947	0.052	13.387	0.000	0.593	0.796
q_1_1_l1_ged_dummy_os	0.1352	0.055	2.448	0.014	0.027	0.243
q_1_1_l1_acled_dummy_pr	0.0507	0.044	1.149	0.251	-0.036	0.137
ln_dist_diamsec	0.5249	0.050	10.456	0.000	0.426	0.623
ln_dist_petroleum	0.8950	0.067	13.320	0.000	0.763	1.027
agri_ih_li	0.0128	0.002	5.536	0.000	0.008	0.017
barren_ih_li	-0.0006	0.002	-0.257	0.797	-0.005	0.004
forest_ih_li	0.0035	0.002	1.559	0.119	-0.001	0.008
mountains_mean	-0.4191	0.092	-4.570	0.000	-0.599	-0.239
savanna_ih_li	0.0083	0.002	3.788	0.000	0.004	0.013
shrub_ih_li	0.0235	0.002	9.685	0.000	0.019	0.028
pasture_ih_li	0.0126	0.002	6.649	0.000	0.009	0.016
urban_ih_li	0.0324	0.017	1.912	0.056	-0.001	0.066
ln_bdist3	-0.0585	0.020	-2.905	0.004	-0.098	-0.019
ln_ttime	0.2733	0.050	5.413	0.000	0.174	0.372
ln_capdist	0.1863	0.031	6.084	0.000	0.126	0.246
ln_pop	0.3836	0.028	13.726	0.000	0.329	0.438
gcp_li_mer	0.0992	0.028	3.483	0.000	0.043	0.155
imr_mean	-3.403e-05	8.33e-05	-0.408	0.683	-0.000	0.000
excluded_dummy_li	0.2908	0.050	5.872	0.000	0.194	0.388

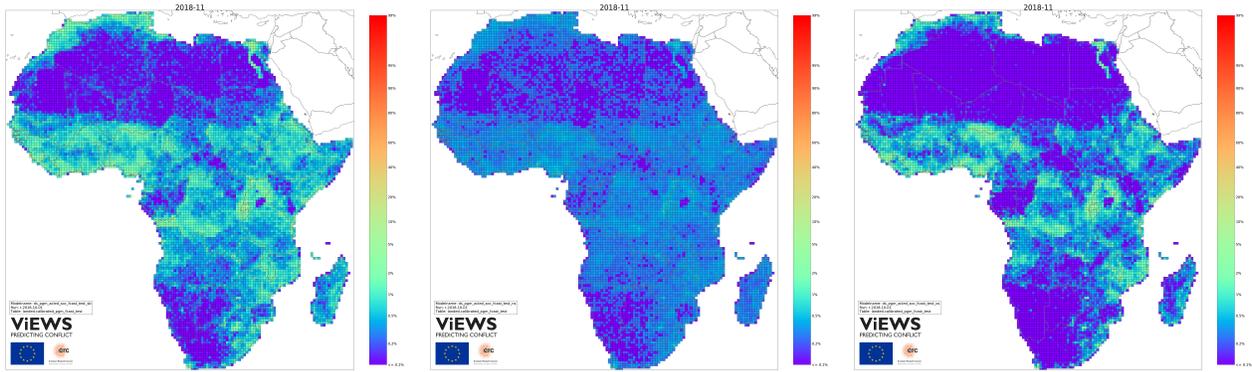
4.4.7 os_eval

Dep. Variable:	ged_dummy_os	No. Observations:	2306232			
Model:	Logit	Df Residuals:	2306189			
Method:	MLE	Df Model:	42			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3882			
Time:	03:33:43	Log-Likelihood:	-19966.			
converged:	True	LL-Null:	-32635.			
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-10.3013	0.402	-25.598	0.000	-11.090	-9.513
l2_ged_dummy_os	0.0573	0.054	1.054	0.292	-0.049	0.164
l3_ged_dummy_os	0.1829	0.055	3.344	0.001	0.076	0.290
l4_ged_dummy_os	0.0419	0.056	0.742	0.458	-0.069	0.152
l5_ged_dummy_os	0.0149	0.058	0.257	0.797	-0.099	0.129
l6_ged_dummy_os	0.1602	0.058	2.741	0.006	0.046	0.275
l7_ged_dummy_os	0.1862	0.059	3.131	0.002	0.070	0.303
l8_ged_dummy_os	0.0350	0.062	0.564	0.573	-0.087	0.157
l9_ged_dummy_os	0.0644	0.063	1.016	0.310	-0.060	0.188
l10_ged_dummy_os	0.0327	0.065	0.507	0.612	-0.094	0.159
l11_ged_dummy_os	0.0560	0.065	0.859	0.390	-0.072	0.184
l12_ged_dummy_os	0.3206	0.063	5.099	0.000	0.197	0.444
q_1_1_l2_ged_dummy_os	0.1127	0.026	4.261	0.000	0.061	0.165
q_1_1_l3_ged_dummy_os	0.0573	0.026	2.210	0.027	0.006	0.108
l1_ged_dummy_sb	0.0613	0.063	0.977	0.329	-0.062	0.184
l1_ged_dummy_ns	0.1650	0.143	1.153	0.249	-0.116	0.446
l1_ged_dummy_os	0.4129	0.054	7.591	0.000	0.306	0.519
l1_acled_dummy_pr	0.2483	0.094	2.642	0.008	0.064	0.432
decay_l2_cw_ged_dummy_sb_0	1.6916	0.068	25.057	0.000	1.559	1.824
decay_l2_cw_ged_dummy_ns_0	0.6415	0.091	7.066	0.000	0.464	0.819
decay_l2_cw_ged_dummy_os_0	3.3426	0.074	45.120	0.000	3.197	3.488
decay_l2_cw_acled_dummy_pr_0	0.5078	0.076	6.671	0.000	0.359	0.657
q_1_1_l1_ged_dummy_sb	0.0606	0.024	2.501	0.012	0.013	0.108
q_1_1_l1_ged_dummy_ns	0.1522	0.065	2.330	0.020	0.024	0.280
q_1_1_l1_ged_dummy_os	0.3538	0.025	13.885	0.000	0.304	0.404
q_1_1_l1_acled_dummy_pr	0.0165	0.042	0.395	0.693	-0.065	0.098
ln_dist_diamsec	-0.0775	0.032	-2.410	0.016	-0.141	-0.014
ln_dist_petroleum	0.1642	0.035	4.639	0.000	0.095	0.234
agri_ih_li	0.0023	0.002	1.488	0.137	-0.001	0.005
barren_ih_li	-0.0134	0.002	-7.471	0.000	-0.017	-0.010
forest_ih_li	0.0024	0.001	1.928	0.054	-3.93e-05	0.005
mountains_mean	-0.1820	0.061	-2.997	0.003	-0.301	-0.063
savanna_ih_li	0.0056	0.001	4.701	0.000	0.003	0.008
shrub_ih_li	-0.0012	0.002	-0.549	0.583	-0.005	0.003
pasture_ih_li	0.0002	0.001	0.212	0.832	-0.002	0.003
urban_ih_li	0.0461	0.014	3.181	0.001	0.018	0.074
ln_bdist3	-0.0414	0.015	-2.818	0.005	-0.070	-0.013
ln_ttime	-0.1598	0.039	-4.134	0.000	-0.236	-0.084
ln_capdist	0.1865	0.019	10.056	0.000	0.150	0.223
ln_pop	0.2149	0.020	10.712	0.000	0.176	0.254
gcp_li_mer	0.0863	0.018	4.790	0.000	0.051	0.122
imr_mean	0.0004	6.01e-05	6.120	0.000	0.000	0.000
excluded_dummy_li	0.2835	0.035	8.036	0.000	0.214	0.353

4.4.8 pr_eval

Dep. Variable:		acled_dummy_pr	No. Observations:		2306232	
Model:		Logit	Df Residuals:		2306189	
Method:		MLE	Df Model:		42	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.4390	
Time:		03:33:40	Log-Likelihood:		-41647.	
converged:		True	LL-Null:		-74234.	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-6.5856	0.229	-28.780	0.000	-7.034	-6.137
l2_acled_dummy_pr	0.1397	0.033	4.284	0.000	0.076	0.204
l3_acled_dummy_pr	0.2070	0.033	6.285	0.000	0.142	0.272
l4_acled_dummy_pr	0.2212	0.033	6.661	0.000	0.156	0.286
l5_acled_dummy_pr	0.2421	0.034	7.161	0.000	0.176	0.308
l6_acled_dummy_pr	0.1895	0.035	5.443	0.000	0.121	0.258
l7_acled_dummy_pr	0.2626	0.035	7.481	0.000	0.194	0.331
l8_acled_dummy_pr	0.3506	0.035	9.952	0.000	0.282	0.420
l9_acled_dummy_pr	0.2812	0.036	7.794	0.000	0.210	0.352
l10_acled_dummy_pr	0.3086	0.036	8.477	0.000	0.237	0.380
l11_acled_dummy_pr	0.3505	0.037	9.573	0.000	0.279	0.422
l12_acled_dummy_pr	0.3817	0.037	10.422	0.000	0.310	0.453
q_1_1_l2_acled_dummy_pr	0.0084	0.020	0.433	0.665	-0.030	0.047
q_1_1_l3_acled_dummy_pr	0.0775	0.019	4.133	0.000	0.041	0.114
l1_ged_dummy_sb	-0.3255	0.094	-3.456	0.001	-0.510	-0.141
l1_ged_dummy_ns	0.0111	0.130	0.085	0.932	-0.243	0.265
l1_ged_dummy_os	-0.0391	0.099	-0.395	0.693	-0.233	0.155
l1_acled_dummy_pr	0.3086	0.032	9.541	0.000	0.245	0.372
decay_l2_cw_ged_dummy_sb_0	0.5734	0.067	8.504	0.000	0.441	0.706
decay_l2_cw_ged_dummy_ns_0	0.5066	0.074	6.833	0.000	0.361	0.652
decay_l2_cw_ged_dummy_os_0	0.2793	0.067	4.147	0.000	0.147	0.411
decay_l2_cw_acled_dummy_pr_0	3.2732	0.043	75.502	0.000	3.188	3.358
q_1_1_l1_ged_dummy_sb	-0.1704	0.040	-4.267	0.000	-0.249	-0.092
q_1_1_l1_ged_dummy_ns	-0.0722	0.063	-1.150	0.250	-0.195	0.051
q_1_1_l1_ged_dummy_os	-0.0456	0.046	-0.994	0.320	-0.135	0.044
q_1_1_l1_acled_dummy_pr	0.2808	0.018	15.935	0.000	0.246	0.315
ln_dist_diamsec	-0.0417	0.019	-2.230	0.026	-0.078	-0.005
ln_dist_petroleum	0.0507	0.022	2.341	0.019	0.008	0.093
agri_ih_li	0.0008	0.001	1.015	0.310	-0.001	0.002
barren_ih_li	0.0041	0.001	5.166	0.000	0.003	0.006
forest_ih_li	0.0008	0.001	0.877	0.380	-0.001	0.003
mountains_mean	0.1620	0.039	4.109	0.000	0.085	0.239
savanna_ih_li	0.0023	0.001	2.710	0.007	0.001	0.004
shrub_ih_li	0.0112	0.001	9.300	0.000	0.009	0.014
pasture_ih_li	0.0056	0.001	7.619	0.000	0.004	0.007
urban_ih_li	0.0154	0.006	2.445	0.015	0.003	0.028
ln_bdist3	-0.1063	0.009	-11.362	0.000	-0.125	-0.088
ln_ttime	-0.4816	0.023	-21.272	0.000	-0.526	-0.437
ln_capdist	-0.0309	0.010	-2.973	0.003	-0.051	-0.011
ln_pop	0.3111	0.012	26.758	0.000	0.288	0.334
gcp_li_mer	-0.0915	0.010	-8.881	0.000	-0.112	-0.071
imr_mean	-0.0002	3.65e-05	-4.999	0.000	-0.000	-0.000
excluded_dummy_li	-0.0571	0.026	-2.222	0.026	-0.107	-0.007

4.5 ds_pgm_acled_soc



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 30: Forecasts for October 2018

4.5.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	2776020			
Model:	Logit	Df Residuals:	2776012			
Method:	MLE	Df Model:	7			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1083			
Time:	03:14:11	Log-Likelihood:	-55424.			
converged:	True	LL-Null:	-62158.			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-9.4591	0.213	-44.435	0.000	-9.876	-9.042
ln_bdist3	-0.2748	0.008	-33.926	0.000	-0.291	-0.259
ln_ttime	-0.1746	0.021	-8.301	0.000	-0.216	-0.133
ln_capdist	-0.0366	0.012	-2.934	0.003	-0.061	-0.012
ln_pop	0.4948	0.009	53.620	0.000	0.477	0.513
gcp_li_mer	0.1500	0.008	18.187	0.000	0.134	0.166
imr_mean	0.0004	3.09e-05	14.257	0.000	0.000	0.001
excluded_dummy_li	0.8320	0.022	38.674	0.000	0.790	0.874

4.5.2 ns_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_ns			No. Observations:	2776020	
Model:	Logit			Df Residuals:	2776012	
Method:	MLE			Df Model:	7	
Date:	Tue, 25 Sep 2018			Pseudo R-squ.:	0.08481	
Time:	03:14:12			Log-Likelihood:	-21958.	
converged:	True			LL-Null:	-23993.	
Intercept	-16.5961	0.390	-42.527	0.000	-17.361	-15.831
ln_bdist3	-0.1194	0.015	-8.087	0.000	-0.148	-0.090
ln_ttime	0.0744	0.036	2.049	0.040	0.003	0.145
ln_capdist	0.3888	0.025	15.858	0.000	0.341	0.437
ln_pop	0.6893	0.016	42.203	0.000	0.657	0.721
gcp_li_mer	0.0706	0.018	3.973	0.000	0.036	0.105
imr_mean	-0.0002	5.47e-05	-3.573	0.000	-0.000	-8.82e-05
excluded_dummy_li	0.5800	0.037	15.569	0.000	0.507	0.653

4.5.3 os_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_os			No. Observations:	2776020	
Model:	Logit			Df Residuals:	2776012	
Method:	MLE			Df Model:	7	
Date:	Tue, 25 Sep 2018			Pseudo R-squ.:	0.1268	
Time:	03:14:08			Log-Likelihood:	-38048.	
converged:	True			LL-Null:	-43575.	
Intercept	-13.2148	0.275	-47.982	0.000	-13.755	-12.675
ln_bdist3	-0.2503	0.010	-24.830	0.000	-0.270	-0.231
ln_ttime	-0.3025	0.027	-11.372	0.000	-0.355	-0.250
ln_capdist	0.2215	0.016	14.181	0.000	0.191	0.252
ln_pop	0.6556	0.012	54.686	0.000	0.632	0.679
gcp_li_mer	0.0337	0.015	2.197	0.028	0.004	0.064
imr_mean	0.0011	4.01e-05	26.491	0.000	0.001	0.001
excluded_dummy_li	0.7218	0.026	27.365	0.000	0.670	0.774

4.5.4 pr_fcast

Dep. Variable:	acled_dummy_pr	No. Observations:	2776020			
Model:	Logit	Df Residuals:	2776012			
Method:	MLE	Df Model:	7			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.2639			
Time:	03:14:11	Log-Likelihood:	-95222.			
converged:	True	LL-Null:	-1.2936e+05			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-7.0150	0.142	-49.270	0.000	-7.294	-6.736
ln_bdist3	-0.1498	0.006	-26.704	0.000	-0.161	-0.139
ln_ttime	-0.7661	0.015	-51.277	0.000	-0.795	-0.737
ln_capdist	-0.0670	0.008	-8.716	0.000	-0.082	-0.052
ln_pop	0.7035	0.007	107.416	0.000	0.691	0.716
gcp_li_mer	0.0666	0.005	12.283	0.000	0.056	0.077
imr_mean	-0.0005	2.17e-05	-23.569	0.000	-0.001	-0.000
excluded_dummy_li	-0.0911	0.017	-5.502	0.000	-0.124	-0.059

4.5.5 sb_eval

Dep. Variable:	ged_dummy_sb	No. Observations:	2306232
Model:	Logit	Df Residuals:	2306224
Method:	MLE	Df Model:	7
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1139
Time:	03:13:50	Log-Likelihood:	-43319.
converged:	True	LL-Null:	-48889.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-9.0154	0.240	-37.608	0.000	-9.485	-8.546
ln_bdist3	-0.2711	0.009	-29.644	0.000	-0.289	-0.253
ln_ttime	-0.1509	0.024	-6.331	0.000	-0.198	-0.104
ln_capdist	-0.1153	0.014	-8.264	0.000	-0.143	-0.088
ln_pop	0.4868	0.010	46.647	0.000	0.466	0.507
gcp_li_mer	0.1650	0.009	17.865	0.000	0.147	0.183
imr_mean	0.0003	3.47e-05	7.591	0.000	0.000	0.000
excluded_dummy_li	0.9598	0.025	39.090	0.000	0.912	1.008

4.5.6 ns_eval

Dep. Variable:	ged_dummy_ns	No. Observations:	2306232			
Model:	Logit	Df Residuals:	2306224			
Method:	MLE	Df Model:	7			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.09413			
Time:	03:13:52	Log-Likelihood:	-15189.			
converged:	True	LL-Null:	-16767.			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-18.1588	0.473	-38.428	0.000	-19.085	-17.233
ln_bdist3	-0.1588	0.017	-9.092	0.000	-0.193	-0.125
ln_ttime	0.2869	0.044	6.573	0.000	0.201	0.372
ln_capdist	0.2679	0.029	9.329	0.000	0.212	0.324
ln_pop	0.7504	0.020	37.560	0.000	0.711	0.790
gcp_li_mer	0.1506	0.018	8.361	0.000	0.115	0.186
imr_mean	6.772e-05	6.73e-05	1.006	0.315	-6.43e-05	0.000
excluded_dummy_li	0.7059	0.045	15.647	0.000	0.617	0.794

4.5.7 os_eval

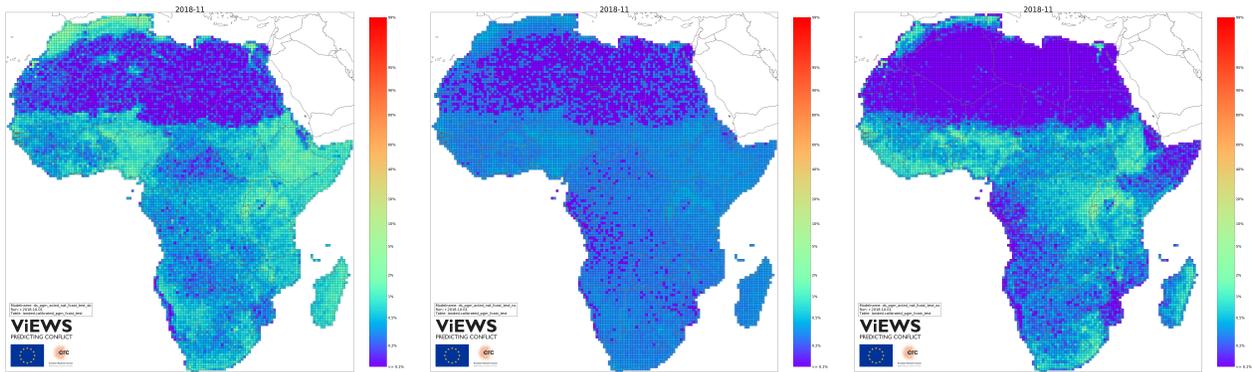
	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_os			No. Observations:	2306232	
Model:	Logit			Df Residuals:	2306224	
Method:	MLE			Df Model:	7	
Date:	Tue, 25 Sep 2018			Pseudo R-squ.:	0.1316	
Time:	03:13:51			Log-Likelihood:	-28340.	
converged:	True			LL-Null:	-32635.	
Intercept	-12.7295	0.319	-39.854	0.000	-13.356	-12.103
ln_bdist3	-0.2691	0.012	-23.129	0.000	-0.292	-0.246
ln_ttime	-0.3029	0.031	-9.786	0.000	-0.364	-0.242
ln_capdist	0.1237	0.018	7.031	0.000	0.089	0.158
ln_pop	0.6415	0.014	45.882	0.000	0.614	0.669
gcp_li_mer	0.0919	0.015	5.941	0.000	0.062	0.122
imr_mean	0.0012	4.64e-05	26.214	0.000	0.001	0.001
excluded_dummy_li	0.8138	0.031	26.390	0.000	0.753	0.874

4.5.8 pr_eval

Dep. Variable:	acled_dummy_pr	No. Observations:	2306232
Model:	Logit	Df Residuals:	2306224
Method:	MLE	Df Model:	7
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.2678
Time:	03:13:47	Log-Likelihood:	-54356.
converged:	True	LL-Null:	-74234.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-6.3999	0.191	-33.533	0.000	-6.774	-6.026
ln_bdist3	-0.1535	0.008	-20.398	0.000	-0.168	-0.139
ln_ttime	-0.8738	0.020	-43.124	0.000	-0.913	-0.834
ln_capdist	-0.1273	0.010	-12.618	0.000	-0.147	-0.108
ln_pop	0.6791	0.009	76.533	0.000	0.662	0.697
gcp_li_mer	0.0672	0.007	9.747	0.000	0.054	0.081
imr_mean	-0.0004	2.94e-05	-12.346	0.000	-0.000	-0.000
excluded_dummy_li	-0.1006	0.023	-4.427	0.000	-0.145	-0.056

4.6 ds_pgm_acled_nat



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 31: Forecasts for October 2018

4.6.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	2776020			
Model:	Logit	Df Residuals:	2776009			
Method:	MLE	Df Model:	10			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.09051			
Time:	03:12:19	Log-Likelihood:	-56532.			
converged:	True	LL-Null:	-62158.			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-7.0609	0.090	-78.739	0.000	-7.237	-6.885
ln_dist_diamsec	0.6851	0.018	37.551	0.000	0.649	0.721
ln_dist_petroleum	0.1572	0.022	7.198	0.000	0.114	0.200
agri_ih_li	0.0121	0.001	17.022	0.000	0.011	0.013
barren_ih_li	-0.0314	0.001	-38.812	0.000	-0.033	-0.030
forest_ih_li	-0.0034	0.001	-4.449	0.000	-0.005	-0.002
mountains_mean	0.6589	0.033	20.033	0.000	0.594	0.723
savanna_ih_li	-0.0118	0.001	-14.853	0.000	-0.013	-0.010
shrub_ih_li	0.0052	0.001	6.371	0.000	0.004	0.007
pasture_ih_li	-0.0066	0.001	-10.527	0.000	-0.008	-0.005
urban_ih_li	0.1610	0.005	33.910	0.000	0.152	0.170

4.6.2 ns_fcast

Dep. Variable:	ged_dummy_ns	No. Observations:	2776020
Model:	Logit	Df Residuals:	2776009
Method:	MLE	Df Model:	10
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.08015
Time:	03:12:21	Log-Likelihood:	-22070.
converged:	True	LL-Null:	-23993.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-10.2463	0.181	-56.482	0.000	-10.602	-9.891
ln_dist_diamsec	0.4659	0.032	14.716	0.000	0.404	0.528
ln_dist_petroleum	0.6993	0.043	16.168	0.000	0.615	0.784
agri_ih_li	0.0326	0.001	22.645	0.000	0.030	0.035
barren_ih_li	-0.0158	0.002	-9.728	0.000	-0.019	-0.013
forest_ih_li	0.0072	0.002	4.568	0.000	0.004	0.010
mountains_mean	0.0615	0.064	0.959	0.338	-0.064	0.187
savanna_ih_li	0.0022	0.002	1.412	0.158	-0.001	0.005
shrub_ih_li	0.0186	0.002	11.029	0.000	0.015	0.022
pasture_ih_li	0.0070	0.001	5.195	0.000	0.004	0.010
urban_ih_li	0.1944	0.007	27.397	0.000	0.180	0.208

4.6.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	2776020			
Model:	Logit	Df Residuals:	2776009			
Method:	MLE	Df Model:	10			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.09246			
Time:	03:12:21	Log-Likelihood:	-39546.			
converged:	True	LL-Null:	-43575.			
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-8.9639	0.119	-75.573	0.000	-9.196	-8.731
ln_dist_diamsec	-0.0214	0.022	-0.990	0.322	-0.064	0.021
ln_dist_petroleum	1.0736	0.033	32.578	0.000	1.009	1.138
agri_ih_li	0.0238	0.001	25.467	0.000	0.022	0.026
barren_ih_li	-0.0244	0.001	-18.900	0.000	-0.027	-0.022
forest_ih_li	0.0071	0.001	8.046	0.000	0.005	0.009
mountains_mean	1.1019	0.040	27.504	0.000	1.023	1.180
savanna_ih_li	0.0007	0.001	0.821	0.412	-0.001	0.002
shrub_ih_li	-0.0140	0.002	-8.463	0.000	-0.017	-0.011
pasture_ih_li	-0.0042	0.001	-4.827	0.000	-0.006	-0.002
urban_ih_li	0.1991	0.006	34.133	0.000	0.188	0.210

4.6.4 pr_fcast

Dep. Variable:		acled_dummy_pr	No. Observations:		2776020	
Model:		Logit	Df Residuals:		2776009	
Method:		MLE	Df Model:		10	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.1742	
Time:		03:12:18	Log-Likelihood:		-1.0683e+05	
converged:		True	LL-Null:		-1.2936e+05	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-5.0636	0.059	-86.462	0.000	-5.178	-4.949
ln_dist_diamsec	0.0634	0.012	5.470	0.000	0.041	0.086
ln_dist_petroleum	0.0370	0.014	2.581	0.010	0.009	0.065
agri_ih_li	0.0296	0.000	64.537	0.000	0.029	0.031
barren_ih_li	-0.0185	0.001	-36.865	0.000	-0.020	-0.018
forest_ih_li	-0.0084	0.001	-14.608	0.000	-0.009	-0.007
mountains_mean	0.7916	0.023	34.182	0.000	0.746	0.837
savanna_ih_li	-0.0127	0.001	-23.361	0.000	-0.014	-0.012
shrub_ih_li	-0.0032	0.001	-4.452	0.000	-0.005	-0.002
pasture_ih_li	-0.0069	0.000	-15.162	0.000	-0.008	-0.006
urban_ih_li	0.3497	0.003	124.136	0.000	0.344	0.355

4.6.5 sb_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_sb					
Model:	Logit					
Method:	MLE					
Date:	Tue, 25 Sep 2018					
Time:	03:00:59					
converged:	True					
No. Observations:						2306232
Df Residuals:						2306221
Df Model:						10
Pseudo R-squ.:						0.1001
Log-Likelihood:						-43994.
LL-Null:						-48889.
Intercept	-6.7861	0.099	-68.267	0.000	-6.981	-6.591
ln_dist_diamsec	0.7275	0.021	34.998	0.000	0.687	0.768
ln_dist_petroleum	0.0322	0.024	1.327	0.185	-0.015	0.080
agri_ih_li	0.0096	0.001	12.197	0.000	0.008	0.011
barren_ih_li	-0.0348	0.001	-37.786	0.000	-0.037	-0.033
forest_ih_li	-0.0044	0.001	-5.134	0.000	-0.006	-0.003
mountains_mean	0.7900	0.037	21.545	0.000	0.718	0.862
savanna_ih_li	-0.0137	0.001	-15.309	0.000	-0.015	-0.012
shrub_ih_li	0.0047	0.001	5.360	0.000	0.003	0.006
pasture_ih_li	-0.0092	0.001	-13.250	0.000	-0.011	-0.008
urban_ih_li	0.1759	0.005	32.234	0.000	0.165	0.187

4.6.6 ns_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_ns			No. Observations:	2306232	
Model:	Logit			Df Residuals:	2306221	
Method:	MLE			Df Model:	10	
Date:	Tue, 25 Sep 2018			Pseudo R-squ.:	0.09743	
Time:	03:01:01			Log-Likelihood:	-15134.	
converged:	True			LL-Null:	-16767.	
Intercept	-12.6834	0.232	-54.673	0.000	-13.138	-12.229
ln_dist_diamsec	0.7429	0.040	18.631	0.000	0.665	0.821
ln_dist_petroleum	1.2090	0.058	20.885	0.000	1.096	1.322
agri_ih_li	0.0346	0.002	19.546	0.000	0.031	0.038
barren_ih_li	-0.0154	0.002	-7.513	0.000	-0.019	-0.011
forest_ih_li	0.0129	0.002	6.816	0.000	0.009	0.017
mountains_mean	0.1380	0.076	1.813	0.070	-0.011	0.287
savanna_ih_li	0.0033	0.002	1.685	0.092	-0.001	0.007
shrub_ih_li	0.0252	0.002	12.755	0.000	0.021	0.029
pasture_ih_li	0.0108	0.002	6.733	0.000	0.008	0.014
urban_ih_li	0.2251	0.009	26.328	0.000	0.208	0.242

4.6.7 os_eval

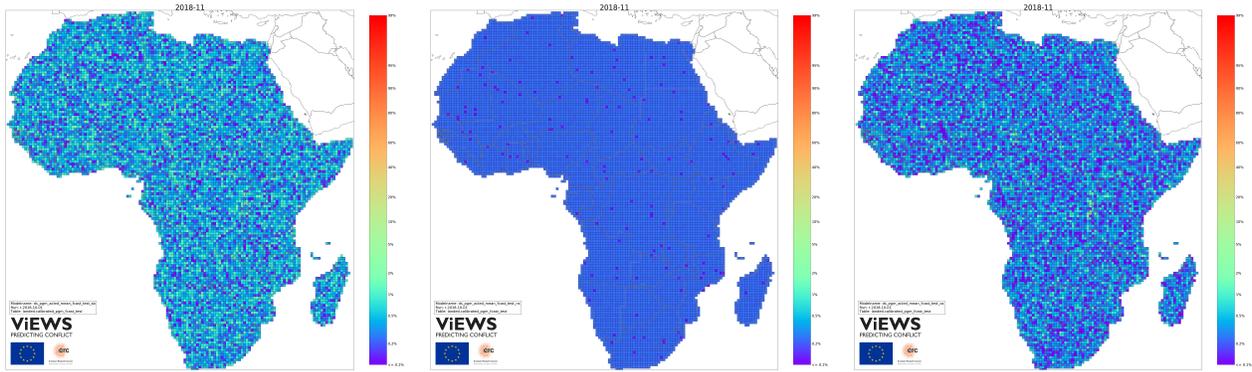
<hr/>						
Dep. Variable:	ged_dummy_os	No. Observations:	2306232			
Model:	Logit	Df Residuals:	2306221			
Method:	MLE	Df Model:	10			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.09404			
Time:	03:01:01	Log-Likelihood:	-29566.			
converged:	True	LL-Null:	-32635.			
<hr/>						
	coef	std err	z	P> z	[0.025	0.975]
<hr/>						
Intercept	-8.9502	0.135	-66.123	0.000	-9.216	-8.685
ln_dist_diamsec	0.0075	0.025	0.298	0.766	-0.042	0.057
ln_dist_petroleum	1.0377	0.038	27.341	0.000	0.963	1.112
agri_ih_li	0.0214	0.001	19.803	0.000	0.019	0.024
barren_ih_li	-0.0283	0.002	-17.634	0.000	-0.031	-0.025
forest_ih_li	0.0082	0.001	8.374	0.000	0.006	0.010
mountains_mean	1.1468	0.046	24.694	0.000	1.056	1.238
savanna_ih_li	0.0004	0.001	0.403	0.687	-0.002	0.002
shrub_ih_li	-0.0155	0.002	-7.980	0.000	-0.019	-0.012
pasture_ih_li	-0.0062	0.001	-6.225	0.000	-0.008	-0.004
urban_ih_li	0.2212	0.007	32.830	0.000	0.208	0.234
<hr/>						

4.6.8 pr_eval

Dep. Variable:	acled_dummy_pr	No. Observations:	2306232
Model:	Logit	Df Residuals:	2306221
Method:	MLE	Df Model:	10
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1677
Time:	03:00:59	Log-Likelihood:	-61788.
converged:	True	LL-Null:	-74234.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-5.3343	0.078	-68.181	0.000	-5.488	-5.181
ln_dist_diamsec	-0.0295	0.016	-1.890	0.059	-0.060	0.001
ln_dist_petroleum	0.1318	0.020	6.607	0.000	0.093	0.171
agri_ih_li	0.0278	0.001	46.349	0.000	0.027	0.029
barren_ih_li	-0.0192	0.001	-28.961	0.000	-0.021	-0.018
forest_ih_li	-0.0116	0.001	-14.999	0.000	-0.013	-0.010
mountains_mean	0.6617	0.032	20.468	0.000	0.598	0.725
savanna_ih_li	-0.0142	0.001	-19.851	0.000	-0.016	-0.013
shrub_ih_li	-0.0028	0.001	-2.998	0.003	-0.005	-0.001
pasture_ih_li	-0.0099	0.001	-16.318	0.000	-0.011	-0.009
urban_ih_li	0.3493	0.003	106.208	0.000	0.343	0.356

4.7 ds_pgm_acled_mean



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 32: Forecasts for October 2018

4.7.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	2776020			
Model:	Logit	Df Residuals:	2776018			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1840			
Time:	02:53:50	Log-Likelihood:	-50719.			
converged:	True	LL-Null:	-62158.			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-6.0678	0.012	-493.855	0.000	-6.092	-6.044
mean_ged_dummy_sb	24.2130	0.214	113.249	0.000	23.794	24.632

4.7.2 ns_fcast

Dep. Variable:	ged_dummy_ns	No. Observations:	2776020			
Model:	Logit	Df Residuals:	2776018			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1067			
Time:	02:53:50	Log-Likelihood:	-21433.			
converged:	True	LL-Null:	-23993.			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-7.0465	0.020	-351.298	0.000	-7.086	-7.007
mean_ged_dummy_ns	38.9126	0.376	103.436	0.000	38.175	39.650

4.7.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	2776020			
Model:	Logit	Df Residuals:	2776018			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1661			
Time:	02:53:50	Log-Likelihood:	-36335.			
converged:	True	LL-Null:	-43575.			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-6.4716	0.015	-432.940	0.000	-6.501	-6.442
mean_ged_dummy_os	33.6611	0.265	126.946	0.000	33.141	34.181

4.7.4 pr_fcast

Dep. Variable:	acled_dummy_pr	No. Observations:	2776020			
Model:	Logit	Df Residuals:	2776018			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.2708			
Time:	02:53:48	Log-Likelihood:	-94334.			
converged:	True	LL-Null:	-1.2936e+05			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-5.4444	0.009	-611.626	0.000	-5.462	-5.427
mean_acled_dummy_pr	22.2095	0.088	253.224	0.000	22.038	22.381

4.7.5 sb_eval

Dep. Variable:	ged_dummy_sb	No. Observations:	2306232			
Model:	Logit	Df Residuals:	2306230			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1980			
Time:	02:51:30	Log-Likelihood:	-39211.			
converged:	True	LL-Null:	-48889.			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-6.1459	0.014	-438.994	0.000	-6.173	-6.119
mean_ged_dummy_sb	26.9408	0.254	106.251	0.000	26.444	27.438

4.7.6 ns_eval

Dep. Variable:	ged_dummy_ns	No. Observations:	2306232			
Model:	Logit	Df Residuals:	2306230			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.09179			
Time:	02:51:29	Log-Likelihood:	-15228.			
converged:	True	LL-Null:	-16767.			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-7.2031	0.024	-301.674	0.000	-7.250	-7.156
mean_ged_dummy_ns	38.1481	0.461	82.724	0.000	37.244	39.052

4.7.7 os_eval

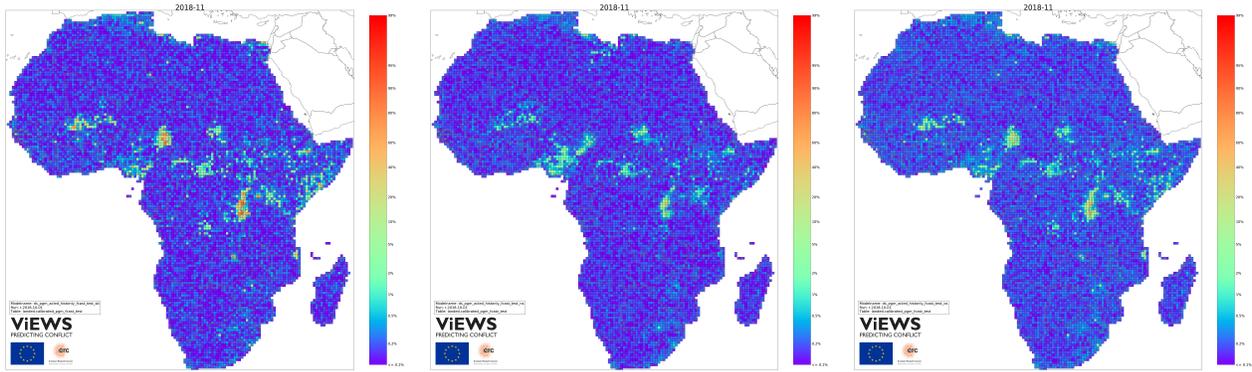
Dep. Variable:	ged_dummy_os	No. Observations:	2306232			
Model:	Logit	Df Residuals:	2306230			
Method:	MLE	Df Model:	1			
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.1693			
Time:	02:51:29	Log-Likelihood:	-27108.			
converged:	True	LL-Null:	-32635.			
	coef	std err	z	P> z 	[0.025	0.975]
Intercept	-6.6029	0.018	-376.913	0.000	-6.637	-6.569
mean_ged_dummy_os	39.9877	0.335	119.538	0.000	39.332	40.643

4.7.8 pr_eval

Dep. Variable:	acled_dummy_pr	No. Observations:	2306232
Model:	Logit	Df Residuals:	2306230
Method:	MLE	Df Model:	1
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.2642
Time:	02:51:28	Log-Likelihood:	-54620.
converged:	True	LL-Null:	-74234.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-5.8271	0.012	-490.334	0.000	-5.850	-5.804
mean_acled_dummy_pr	29.2485	0.149	195.825	0.000	28.956	29.541

4.8 ds_pgm_acled_histonly



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 33: Forecasts for October 2018

4.8.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	2776020
Model:	Logit	Df Residuals:	2775994
Method:	MLE	Df Model:	25
Date:	Tue, 25 Sep 2018	Pseudo R-squ.:	0.3981
Time:	03:08:41	Log-Likelihood:	-37410.
converged:	True	LL-Null:	-62158.

	coef	std err	z	P> z	[0.025	0.975]
Intercept	-6.9864	0.019	-360.978	0.000	-7.024	-6.948
l2_ged_dummy_sb	0.0882	0.035	2.499	0.012	0.019	0.157
l3_ged_dummy_sb	0.0947	0.036	2.624	0.009	0.024	0.166
l4_ged_dummy_sb	0.1913	0.036	5.251	0.000	0.120	0.263
l5_ged_dummy_sb	0.1894	0.037	5.056	0.000	0.116	0.263
l6_ged_dummy_sb	0.0952	0.039	2.443	0.015	0.019	0.172
l7_ged_dummy_sb	0.2496	0.039	6.382	0.000	0.173	0.326
l8_ged_dummy_sb	0.2344	0.040	5.859	0.000	0.156	0.313
l9_ged_dummy_sb	0.2842	0.040	7.038	0.000	0.205	0.363
l10_ged_dummy_sb	0.2320	0.041	5.628	0.000	0.151	0.313
l11_ged_dummy_sb	0.3073	0.041	7.448	0.000	0.226	0.388
l12_ged_dummy_sb	0.2976	0.041	7.188	0.000	0.216	0.379
q_1_1_l2_ged_dummy_sb	0.1665	0.018	9.232	0.000	0.131	0.202
q_1_1_l3_ged_dummy_sb	0.0796	0.018	4.421	0.000	0.044	0.115
l1_ged_dummy_sb	0.1409	0.036	3.867	0.000	0.069	0.212
l1_ged_dummy_ns	0.0037	0.127	0.029	0.977	-0.246	0.253
l1_ged_dummy_os	0.1067	0.053	2.030	0.042	0.004	0.210
l1_acled_dummy_pr	0.0075	0.068	0.111	0.912	-0.126	0.141
decay_l2_cw_ged_dummy_sb_0	4.5450	0.046	98.010	0.000	4.454	4.636
decay_l2_cw_ged_dummy_ns_0	0.4477	0.073	6.103	0.000	0.304	0.591
decay_l2_cw_ged_dummy_os_0	0.7526	0.048	15.546	0.000	0.658	0.848
decay_l2_cw_acled_dummy_pr_0	0.7049	0.050	14.164	0.000	0.607	0.802
q_1_1_l1_ged_dummy_sb	0.2987	0.018	16.387	0.000	0.263	0.334
q_1_1_l1_ged_dummy_ns	-0.1551	0.053	-2.930	0.003	-0.259	-0.051
q_1_1_l1_ged_dummy_os	-0.0056	0.021	-0.267	0.789	-0.047	0.035
q_1_1_l1_acled_dummy_pr	-0.0008	0.025	-0.031	0.975	-0.049	0.047

4.8.2 ns_fcast

Dep. Variable:		ged_dummy_ns	No. Observations:		2776020	
Model:		Logit	Df Residuals:		2775994	
Method:		MLE	Df Model:		25	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.2912	
Time:		03:08:43	Log-Likelihood:		-17006.	
converged:		True	LL-Null:		-23993.	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-7.6981	0.027	-281.664	0.000	-7.752	-7.645
l2_ged_dummy_ns	0.0616	0.069	0.898	0.369	-0.073	0.196
l3_ged_dummy_ns	0.1652	0.070	2.368	0.018	0.028	0.302
l4_ged_dummy_ns	0.1010	0.073	1.389	0.165	-0.042	0.244
l5_ged_dummy_ns	0.1476	0.076	1.953	0.051	-0.001	0.296
l6_ged_dummy_ns	0.0183	0.081	0.224	0.823	-0.141	0.178
l7_ged_dummy_ns	0.1953	0.083	2.354	0.019	0.033	0.358
l8_ged_dummy_ns	0.0846	0.088	0.958	0.338	-0.089	0.258
l9_ged_dummy_ns	0.4005	0.086	4.650	0.000	0.232	0.569
l10_ged_dummy_ns	0.3666	0.089	4.135	0.000	0.193	0.540
l11_ged_dummy_ns	0.1013	0.095	1.065	0.287	-0.085	0.288
l12_ged_dummy_ns	0.4644	0.090	5.163	0.000	0.288	0.641
q_1_1_l2_ged_dummy_ns	0.2827	0.042	6.783	0.000	0.201	0.364
q_1_1_l3_ged_dummy_ns	0.1655	0.043	3.824	0.000	0.081	0.250
l1_ged_dummy_sb	-0.3009	0.131	-2.299	0.022	-0.557	-0.044
l1_ged_dummy_ns	0.2192	0.069	3.192	0.001	0.085	0.354
l1_ged_dummy_os	0.1679	0.118	1.425	0.154	-0.063	0.399
l1_acled_dummy_pr	0.0361	0.088	0.411	0.681	-0.136	0.209
decay_l2_cw_ged_dummy_sb_0	0.6277	0.102	6.128	0.000	0.427	0.828
decay_l2_cw_ged_dummy_ns_0	4.8417	0.081	59.509	0.000	4.682	5.001
decay_l2_cw_ged_dummy_os_0	0.6699	0.099	6.779	0.000	0.476	0.864
decay_l2_cw_acled_dummy_pr_0	1.0279	0.076	13.447	0.000	0.878	1.178
q_1_1_l1_ged_dummy_sb	-0.0490	0.051	-0.955	0.340	-0.150	0.052
q_1_1_l1_ged_dummy_ns	0.5263	0.040	13.038	0.000	0.447	0.605
q_1_1_l1_ged_dummy_os	0.0534	0.049	1.095	0.273	-0.042	0.149
q_1_1_l1_acled_dummy_pr	0.1351	0.029	4.637	0.000	0.078	0.192

4.8.3 os_fcast

Dep. Variable:		ged_dummy_os	No. Observations:		2776020	
Model:		Logit	Df Residuals:		2775994	
Method:		MLE	Df Model:		25	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.3734	
Time:		03:08:40	Log-Likelihood:		-27306.	
converged:		True	LL-Null:		-43575.	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-7.2779	0.022	-329.961	0.000	-7.321	-7.235
l2_ged_dummy_os	0.0577	0.045	1.272	0.203	-0.031	0.147
l3_ged_dummy_os	0.1083	0.046	2.345	0.019	0.018	0.199
l4_ged_dummy_os	0.0889	0.047	1.882	0.060	-0.004	0.182
l5_ged_dummy_os	0.1055	0.049	2.172	0.030	0.010	0.201
l6_ged_dummy_os	0.1752	0.049	3.548	0.000	0.078	0.272
l7_ged_dummy_os	0.2337	0.050	4.647	0.000	0.135	0.332
l8_ged_dummy_os	0.0967	0.053	1.841	0.066	-0.006	0.200
l9_ged_dummy_os	0.1584	0.053	2.965	0.003	0.054	0.263
l10_ged_dummy_os	0.1040	0.055	1.898	0.058	-0.003	0.211
l11_ged_dummy_os	0.1369	0.055	2.473	0.013	0.028	0.245
l12_ged_dummy_os	0.3675	0.054	6.809	0.000	0.262	0.473
q_1_1_l2_ged_dummy_os	0.1398	0.023	6.185	0.000	0.095	0.184
q_1_1_l3_ged_dummy_os	0.0907	0.022	4.110	0.000	0.047	0.134
l1_ged_dummy_sb	-0.0428	0.054	-0.799	0.424	-0.148	0.062
l1_ged_dummy_ns	0.2335	0.113	2.059	0.040	0.011	0.456
l1_ged_dummy_os	0.2585	0.048	5.411	0.000	0.165	0.352
l1_acled_dummy_pr	0.1932	0.070	2.772	0.006	0.057	0.330
decay_l2_cw_ged_dummy_sb_0	1.5221	0.060	25.213	0.000	1.404	1.640
decay_l2_cw_ged_dummy_ns_0	0.6077	0.074	8.220	0.000	0.463	0.753
decay_l2_cw_ged_dummy_os_0	3.9051	0.066	59.368	0.000	3.776	4.034
decay_l2_cw_acled_dummy_pr_0	0.9247	0.057	16.245	0.000	0.813	1.036
q_1_1_l1_ged_dummy_sb	0.0320	0.021	1.537	0.124	-0.009	0.073
q_1_1_l1_ged_dummy_ns	0.0008	0.049	0.017	0.986	-0.095	0.096
q_1_1_l1_ged_dummy_os	0.3910	0.023	17.306	0.000	0.347	0.435
q_1_1_l1_acled_dummy_pr	0.0174	0.026	0.669	0.503	-0.034	0.068

4.8.4 pr_fcast

Dep. Variable:		acled_dummy_pr	No. Observations:		2776020	
Model:		Logit	Df Residuals:		2775994	
Method:		MLE	Df Model:		25	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.4421	
Time:		03:08:39	Log-Likelihood:		-72172.	
converged:		True	LL-Null:		-1.2936e+05	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-6.3744	0.014	-440.095	0.000	-6.403	-6.346
l2_acled_dummy_pr	0.1426	0.022	6.365	0.000	0.099	0.186
l3_acled_dummy_pr	0.1808	0.023	7.957	0.000	0.136	0.225
l4_acled_dummy_pr	0.2805	0.023	12.313	0.000	0.236	0.325
l5_acled_dummy_pr	0.2741	0.023	11.773	0.000	0.228	0.320
l6_acled_dummy_pr	0.2944	0.024	12.411	0.000	0.248	0.341
l7_acled_dummy_pr	0.3417	0.024	14.234	0.000	0.295	0.389
l8_acled_dummy_pr	0.3913	0.024	16.142	0.000	0.344	0.439
l9_acled_dummy_pr	0.3508	0.025	14.217	0.000	0.302	0.399
l10_acled_dummy_pr	0.3108	0.025	12.388	0.000	0.262	0.360
l11_acled_dummy_pr	0.4014	0.025	16.026	0.000	0.352	0.451
l12_acled_dummy_pr	0.5285	0.025	21.363	0.000	0.480	0.577
q.1.1.l2_acled_dummy_pr	0.0409	0.012	3.417	0.001	0.017	0.064
q.1.1.l3_acled_dummy_pr	0.0410	0.012	3.530	0.000	0.018	0.064
l1_ged_dummy_sb	-0.1128	0.073	-1.540	0.124	-0.256	0.031
l1_ged_dummy_ns	0.1747	0.094	1.851	0.064	-0.010	0.360
l1_ged_dummy_os	0.0021	0.076	0.028	0.978	-0.147	0.152
l1_acled_dummy_pr	0.1607	0.022	7.173	0.000	0.117	0.205
decay_l2_cw_ged_dummy_sb_0	0.3736	0.052	7.234	0.000	0.272	0.475
decay_l2_cw_ged_dummy_ns_0	0.3773	0.055	6.813	0.000	0.269	0.486
decay_l2_cw_ged_dummy_os_0	0.3150	0.052	6.074	0.000	0.213	0.417
decay_l2_cw_acled_dummy_pr_0	4.3623	0.030	146.966	0.000	4.304	4.420
q.1.1.l1_ged_dummy_sb	-0.0210	0.030	-0.696	0.486	-0.080	0.038
q.1.1.l1_ged_dummy_ns	-0.0697	0.040	-1.721	0.085	-0.149	0.010
q.1.1.l1_ged_dummy_os	-0.0322	0.033	-0.971	0.332	-0.097	0.033
q.1.1.l1_acled_dummy_pr	0.2425	0.011	21.587	0.000	0.220	0.264

4.8.5 sb_eval

Dep. Variable:		ged_dummy_sb	No. Observations:		2306232	
Model:		Logit	Df Residuals:		2306206	
Method:		MLE	Df Model:		25	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.3975	
Time:		03:10:31	Log-Likelihood:		-29454.	
converged:		True	LL-Null:		-48889.	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-7.0326	0.022	-323.860	0.000	-7.075	-6.990
l2_ged_dummy_sb	0.0716	0.040	1.772	0.076	-0.008	0.151
l3_ged_dummy_sb	0.0562	0.041	1.357	0.175	-0.025	0.137
l4_ged_dummy_sb	0.1817	0.042	4.353	0.000	0.100	0.264
l5_ged_dummy_sb	0.1489	0.043	3.459	0.001	0.065	0.233
l6_ged_dummy_sb	0.0855	0.045	1.916	0.055	-0.002	0.173
l7_ged_dummy_sb	0.2386	0.045	5.329	0.000	0.151	0.326
l8_ged_dummy_sb	0.2814	0.045	6.200	0.000	0.192	0.370
l9_ged_dummy_sb	0.2685	0.046	5.802	0.000	0.178	0.359
l10_ged_dummy_sb	0.2239	0.047	4.726	0.000	0.131	0.317
l11_ged_dummy_sb	0.3114	0.047	6.570	0.000	0.218	0.404
l12_ged_dummy_sb	0.2649	0.048	5.552	0.000	0.171	0.358
q_1_1_l2_ged_dummy_sb	0.1772	0.021	8.409	0.000	0.136	0.219
q_1_1_l3_ged_dummy_sb	0.0825	0.021	3.914	0.000	0.041	0.124
l1_ged_dummy_sb	0.1659	0.040	4.099	0.000	0.087	0.245
l1_ged_dummy_ns	-0.2529	0.171	-1.480	0.139	-0.588	0.082
l1_ged_dummy_os	0.2492	0.062	3.990	0.000	0.127	0.372
l1_acled_dummy_pr	-0.0828	0.092	-0.897	0.370	-0.264	0.098
decay_l2_cw_ged_dummy_sb_0	4.6253	0.051	89.932	0.000	4.524	4.726
decay_l2_cw_ged_dummy_ns_0	0.7100	0.089	7.990	0.000	0.536	0.884
decay_l2_cw_ged_dummy_os_0	0.8965	0.055	16.226	0.000	0.788	1.005
decay_l2_cw_acled_dummy_pr_0	0.6964	0.061	11.373	0.000	0.576	0.816
q_1_1_l1_ged_dummy_sb	0.2842	0.021	13.678	0.000	0.243	0.325
q_1_1_l1_ged_dummy_ns	-0.1891	0.082	-2.298	0.022	-0.350	-0.028
q_1_1_l1_ged_dummy_os	-0.0075	0.024	-0.306	0.760	-0.055	0.040
q_1_1_l1_acled_dummy_pr	0.0889	0.038	2.366	0.018	0.015	0.162

4.8.6 ns_eval

Dep. Variable:		ged_dummy_ns	No. Observations:		2306232	
Model:		Logit	Df Residuals:		2306206	
Method:		MLE	Df Model:		25	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.2786	
Time:		03:10:27	Log-Likelihood:		-12096.	
converged:		True	LL-Null:		-16767.	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-7.8448	0.032	-242.858	0.000	-7.908	-7.782
l2_ged_dummy_ns	0.0620	0.085	0.732	0.464	-0.104	0.228
l3_ged_dummy_ns	0.1367	0.086	1.582	0.114	-0.033	0.306
l4_ged_dummy_ns	0.1248	0.090	1.394	0.163	-0.051	0.300
l5_ged_dummy_ns	0.1315	0.094	1.398	0.162	-0.053	0.316
l6_ged_dummy_ns	0.1050	0.100	1.055	0.292	-0.090	0.300
l7_ged_dummy_ns	0.1376	0.104	1.323	0.186	-0.066	0.341
l8_ged_dummy_ns	0.0065	0.110	0.059	0.953	-0.210	0.223
l9_ged_dummy_ns	0.4638	0.105	4.437	0.000	0.259	0.669
l10_ged_dummy_ns	0.3857	0.109	3.546	0.000	0.173	0.599
l11_ged_dummy_ns	0.1668	0.117	1.431	0.152	-0.062	0.395
l12_ged_dummy_ns	0.3683	0.114	3.222	0.001	0.144	0.592
q_1_1_l2_ged_dummy_ns	0.2129	0.059	3.614	0.000	0.097	0.328
q_1_1_l3_ged_dummy_ns	0.1948	0.060	3.233	0.001	0.077	0.313
l1_ged_dummy_sb	-0.5038	0.159	-3.167	0.002	-0.816	-0.192
l1_ged_dummy_ns	0.1665	0.085	1.948	0.051	-0.001	0.334
l1_ged_dummy_os	0.0578	0.140	0.412	0.680	-0.217	0.332
l1_acled_dummy_pr	0.1825	0.120	1.518	0.129	-0.053	0.418
decay_l2_cw_ged_dummy_sb_0	0.8772	0.118	7.408	0.000	0.645	1.109
decay_l2_cw_ged_dummy_ns_0	5.0823	0.101	50.252	0.000	4.884	5.281
decay_l2_cw_ged_dummy_os_0	0.7485	0.113	6.623	0.000	0.527	0.970
decay_l2_cw_acled_dummy_pr_0	0.8973	0.098	9.171	0.000	0.706	1.089
q_1_1_l1_ged_dummy_sb	-0.0034	0.065	-0.053	0.958	-0.130	0.123
q_1_1_l1_ged_dummy_ns	0.7386	0.054	13.728	0.000	0.633	0.844
q_1_1_l1_ged_dummy_os	0.0242	0.057	0.427	0.670	-0.087	0.135
q_1_1_l1_acled_dummy_pr	0.1471	0.042	3.519	0.000	0.065	0.229

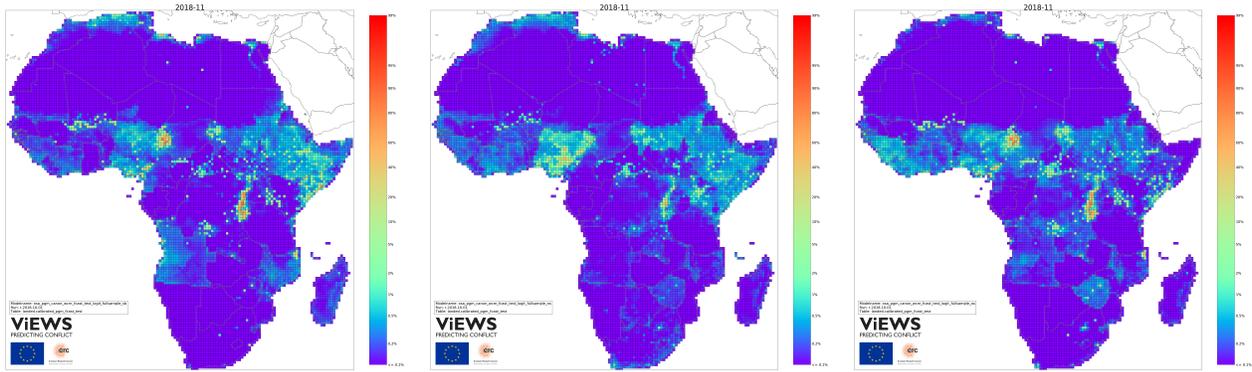
4.8.7 os_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_os			No. Observations:	2306232	
Model:	Logit			Df Residuals:	2306206	
Method:	MLE			Df Model:	25	
Date:	Tue, 25 Sep 2018			Pseudo R-squ.:	0.3670	
Time:	03:10:22			Log-Likelihood:	-20658.	
converged:	True			LL-Null:	-32635.	
Intercept	-7.3692	0.025	-290.926	0.000	-7.419	-7.320
l2_ged_dummy_os	-0.0115	0.054	-0.213	0.831	-0.117	0.094
l3_ged_dummy_os	0.1412	0.054	2.597	0.009	0.035	0.248
l4_ged_dummy_os	0.0319	0.056	0.568	0.570	-0.078	0.142
l5_ged_dummy_os	0.0163	0.058	0.280	0.779	-0.097	0.130
l6_ged_dummy_os	0.1715	0.058	2.938	0.003	0.057	0.286
l7_ged_dummy_os	0.2104	0.059	3.536	0.000	0.094	0.327
l8_ged_dummy_os	0.0749	0.062	1.204	0.229	-0.047	0.197
l9_ged_dummy_os	0.1104	0.064	1.736	0.082	-0.014	0.235
l10_ged_dummy_os	0.0862	0.065	1.325	0.185	-0.041	0.214
l11_ged_dummy_os	0.1208	0.066	1.840	0.066	-0.008	0.250
l12_ged_dummy_os	0.4135	0.063	6.540	0.000	0.290	0.537
q_1_1_l2_ged_dummy_os	0.1457	0.027	5.467	0.000	0.093	0.198
q_1_1_l3_ged_dummy_os	0.0971	0.026	3.749	0.000	0.046	0.148
l1_ged_dummy_sb	0.0023	0.062	0.038	0.970	-0.119	0.124
l1_ged_dummy_ns	0.1666	0.145	1.147	0.251	-0.118	0.451
l1_ged_dummy_os	0.3003	0.054	5.551	0.000	0.194	0.406
l1_acled_dummy_pr	0.1869	0.095	1.975	0.048	0.001	0.372
decay_l2_cw_ged_dummy_sb_0	1.7154	0.068	25.327	0.000	1.583	1.848
decay_l2_cw_ged_dummy_ns_0	0.7964	0.091	8.719	0.000	0.617	0.975
decay_l2_cw_ged_dummy_os_0	4.0301	0.074	54.776	0.000	3.886	4.174
decay_l2_cw_acled_dummy_pr_0	0.8879	0.072	12.384	0.000	0.747	1.028
q_1_1_l1_ged_dummy_sb	0.0489	0.024	2.057	0.040	0.002	0.096
q_1_1_l1_ged_dummy_ns	0.1598	0.067	2.386	0.017	0.029	0.291
q_1_1_l1_ged_dummy_os	0.3987	0.026	15.600	0.000	0.349	0.449
q_1_1_l1_acled_dummy_pr	0.0925	0.042	2.217	0.027	0.011	0.174

4.8.8 pr_eval

Dep. Variable:		acled_dummy_pr	No. Observations:		2306232	
Model:		Logit	Df Residuals:		2306206	
Method:		MLE	Df Model:		25	
Date:		Tue, 25 Sep 2018	Pseudo R-squ.:		0.4095	
Time:		03:10:28	Log-Likelihood:		-43835.	
converged:		True	LL-Null:		-74234.	
	coef	std err	z	P> z	[0.025	0.975]
Intercept	-6.6026	0.018	-372.654	0.000	-6.637	-6.568
l2_acled_dummy_pr	0.0928	0.032	2.926	0.003	0.031	0.155
l3_acled_dummy_pr	0.2078	0.032	6.479	0.000	0.145	0.271
l4_acled_dummy_pr	0.2575	0.032	7.945	0.000	0.194	0.321
l5_acled_dummy_pr	0.3074	0.033	9.294	0.000	0.243	0.372
l6_acled_dummy_pr	0.2720	0.034	7.949	0.000	0.205	0.339
l7_acled_dummy_pr	0.3525	0.035	10.178	0.000	0.285	0.420
l8_acled_dummy_pr	0.4485	0.035	12.858	0.000	0.380	0.517
l9_acled_dummy_pr	0.3820	0.036	10.663	0.000	0.312	0.452
l10_acled_dummy_pr	0.4194	0.036	11.589	0.000	0.348	0.490
l11_acled_dummy_pr	0.4661	0.036	12.792	0.000	0.395	0.538
l12_acled_dummy_pr	0.5234	0.036	14.370	0.000	0.452	0.595
q_1_1_l2_acled_dummy_pr	0.0304	0.019	1.565	0.118	-0.008	0.068
q_1_1_l3_acled_dummy_pr	0.1001	0.019	5.390	0.000	0.064	0.136
l1_ged_dummy_sb	-0.2620	0.094	-2.802	0.005	-0.445	-0.079
l1_ged_dummy_ns	-0.0245	0.130	-0.189	0.850	-0.279	0.229
l1_ged_dummy_os	-0.1009	0.098	-1.027	0.305	-0.293	0.092
l1_acled_dummy_pr	0.1723	0.031	5.480	0.000	0.111	0.234
decay_12_cw_ged_dummy_sb_0	0.5319	0.066	8.012	0.000	0.402	0.662
decay_12_cw_ged_dummy_ns_0	0.5178	0.072	7.151	0.000	0.376	0.660
decay_12_cw_ged_dummy_os_0	0.4702	0.065	7.206	0.000	0.342	0.598
decay_12_cw_acled_dummy_pr_0	4.5039	0.039	114.875	0.000	4.427	4.581
q_1_1_l1_ged_dummy_sb	-0.0614	0.039	-1.559	0.119	-0.139	0.016
q_1_1_l1_ged_dummy_ns	-0.0815	0.063	-1.294	0.196	-0.205	0.042
q_1_1_l1_ged_dummy_os	-0.0161	0.046	-0.349	0.727	-0.106	0.074
q_1_1_l1_acled_dummy_pr	0.3140	0.018	17.937	0.000	0.280	0.348

4.9 osa_pgm_canon_wcm_logit



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 34: Forecasts for October 2018

4.9.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	376638
Model:	Logit	Df Residuals:	376585
Method:	MLE	Df Model:	52
Date:	Fri, 05 Oct 2018	Pseudo R-squ.:	0.4944
Time:	01:09:14	Log-Likelihood:	-26143.
converged:	True	LL-Null:	-51704.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	0.0564	0.056	1.003	0.316	-0.054	0.167
l3_ged_dummy_sb	0.1014	0.056	1.800	0.072	-0.009	0.212
l4_ged_dummy_sb	0.1845	0.056	3.283	0.001	0.074	0.295
l5_ged_dummy_sb	0.0775	0.057	1.349	0.177	-0.035	0.190
l6_ged_dummy_sb	0.2613	0.058	4.524	0.000	0.148	0.374
l7_ged_dummy_sb	0.1136	0.058	1.962	0.050	0.000	0.227
l8_ged_dummy_sb	0.2736	0.059	4.672	0.000	0.159	0.388
l9_ged_dummy_sb	0.2610	0.059	4.423	0.000	0.145	0.377
l10_ged_dummy_sb	0.1892	0.059	3.192	0.001	0.073	0.305
l11_ged_dummy_sb	0.3177	0.061	5.223	0.000	0.198	0.437
l12_ged_dummy_sb	0.2602	0.061	4.256	0.000	0.140	0.380
q_1_1_l2_ged_dummy_sb	0.2449	0.027	8.969	0.000	0.191	0.298
q_1_1_l3_ged_dummy_sb	0.2200	0.026	8.303	0.000	0.168	0.272
l1_ged_dummy_sb	0.1309	0.058	2.262	0.024	0.017	0.244
l1_ged_dummy_ns	0.8192	0.181	4.529	0.000	0.465	1.174
l1_ged_dummy_os	0.0969	0.088	1.104	0.270	-0.075	0.269
decay_l2_cw_ged_dummy_sb_0	3.4998	0.060	58.128	0.000	3.382	3.618
decay_l2_cw_ged_dummy_ns_0	-0.6492	0.093	-6.983	0.000	-0.831	-0.467
decay_l2_cw_ged_dummy_os_0	1.1248	0.064	17.470	0.000	0.999	1.251
q_1_1_l1_ged_dummy_sb	0.3678	0.027	13.734	0.000	0.315	0.420
q_1_1_l1_ged_dummy_ns	0.2967	0.068	4.391	0.000	0.164	0.429
q_1_1_l1_ged_dummy_os	0.2601	0.032	8.121	0.000	0.197	0.323
ln_dist_diamsec	0.3670	0.027	13.400	0.000	0.313	0.421
ln_dist_petroleum	0.0446	0.031	1.462	0.144	-0.015	0.104
agri_ih_li	-0.0061	0.001	-4.742	0.000	-0.009	-0.004
barren_ih_li	-0.0054	0.001	-5.295	0.000	-0.007	-0.003
forest_ih_li	-0.0025	0.001	-2.373	0.018	-0.005	-0.000
mountains_mean	-0.0547	0.049	-1.125	0.261	-0.150	0.041
savanna_ih_li	-0.0009	0.001	-0.928	0.354	-0.003	0.001
shrub_ih_li	0.0102	0.001	8.266	0.000	0.008	0.013
pasture_ih_li	0.0006	0.001	0.707	0.480	-0.001	0.002
urban_ih_li	0.0820	0.013	6.244	0.000	0.056	0.108
ln_bdist3	-0.1308	0.012	-11.189	0.000	-0.154	-0.108
ln_ttime	-0.1567	0.027	-5.880	0.000	-0.209	-0.104
ln_capdist	0.0538	0.020	2.662	0.008	0.014	0.093
ln_pop	0.2479	0.015	16.866	0.000	0.219	0.277
gcp_li_mer	0.0544	0.019	2.894	0.004	0.018	0.091
imr_mean	0.0007	5.24e-05	13.113	0.000	0.001	0.001
excluded_dummy_li	0.1988	0.030	6.730	0.000	0.141	0.257
fvp_lngdpcap_nonoilrent	-0.1166	0.030	-3.895	0.000	-0.175	-0.058
fvp_lngdpcap_oilrent	0.1347	0.007	19.187	0.000	0.121	0.148
fvp_grgdpcap_oilrent	-0.1536	0.033	-4.637	0.000	-0.219	-0.089
fvp_grgdpcap_nonoilrent	-0.5955	0.089	-6.706	0.000	-0.770	-0.421
ln_fvp_timeindep	0.3532	0.039	8.958	0.000	0.276	0.431
ln_fvp_timesincepreindepwar	-0.1532	0.034	-4.493	0.000	-0.220	-0.086
ln_fvp_timesinceregimechange	-0.1476	0.017	-8.661	0.000	-0.181	-0.114
fvp_demo	-0.7530	0.053	-14.212	0.000	-0.857	-0.649
fvp_semi	-0.4777	0.037	-12.978	0.000	-0.550	-0.406
fvp_prop_excluded	0.0264	0.054	0.488	0.626	-0.080	0.132
ln_fvp_population200	0.0340	0.020	1.679	0.093	-0.006	0.074
ssp2_edu_sec_15_24_prop	-0.0602	0.118	-0.511	0.609	-0.291	0.170
ssp2_urban_share_iiasa	-0.0041	0.001	-3.149	0.002	-0.007	-0.002
Intercept	-7.1859	0.400	-17.949	0.000	-7.971	-6.401

4.9.2 ns_fcast

Dep. Variable:	ged_dummy_ns	No. Observations:	369863
Model:	Logit	Df Residuals:	369810
Method:	MLE	Df Model:	52
Date:	Fri, 05 Oct 2018	Pseudo R-squ.:	0.4285
Time:	01:08:59	Log-Likelihood:	-12744.
converged:	True	LL-Null:	-22298.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.3090	0.099	3.109	0.002	0.114	0.504
l3_ged_dummy_ns	0.1476	0.101	1.458	0.145	-0.051	0.346
l4_ged_dummy_ns	0.5954	0.105	5.694	0.000	0.390	0.800
l5_ged_dummy_ns	0.1247	0.110	1.134	0.257	-0.091	0.340
l6_ged_dummy_ns	0.2931	0.110	2.660	0.008	0.077	0.509
l7_ged_dummy_ns	0.2284	0.115	1.994	0.046	0.004	0.453
l8_ged_dummy_ns	0.3743	0.115	3.249	0.001	0.148	0.600
l9_ged_dummy_ns	0.4239	0.113	3.749	0.000	0.202	0.646
l10_ged_dummy_ns	-0.0747	0.122	-0.614	0.539	-0.313	0.164
l11_ged_dummy_ns	0.5711	0.118	4.829	0.000	0.339	0.803
l12_ged_dummy_ns	0.3371	0.121	2.789	0.005	0.100	0.574
q_1_1_l2_ged_dummy_ns	0.4107	0.057	7.208	0.000	0.299	0.522
q_1_1_l3_ged_dummy_ns	0.2212	0.057	3.885	0.000	0.110	0.333
l1_ged_dummy_sb	0.1324	0.160	0.827	0.408	-0.181	0.446
l1_ged_dummy_ns	0.4099	0.101	4.069	0.000	0.212	0.607
l1_ged_dummy_os	0.6246	0.146	4.274	0.000	0.338	0.911
decay_l2_cw_ged_dummy_sb_0	0.1322	0.118	1.117	0.264	-0.100	0.364
decay_l2_cw_ged_dummy_ns_0	3.4976	0.096	36.576	0.000	3.310	3.685
decay_l2_cw_ged_dummy_os_0	0.7966	0.114	7.015	0.000	0.574	1.019
q_1_1_l1_ged_dummy_sb	-0.1534	0.058	-2.635	0.008	-0.268	-0.039
q_1_1_l1_ged_dummy_ns	0.6732	0.053	12.729	0.000	0.570	0.777
q_1_1_l1_ged_dummy_os	0.2644	0.055	4.834	0.000	0.157	0.372
ln_dist_diamsec	0.4262	0.043	9.870	0.000	0.342	0.511
ln_dist_petroleum	1.0023	0.059	16.954	0.000	0.886	1.118
agri_ih_li	0.0107	0.002	5.540	0.000	0.007	0.014
barren_ih_li	-0.0011	0.002	-0.630	0.529	-0.005	0.002
forest_ih_li	-0.0007	0.002	-0.393	0.694	-0.004	0.003
mountains_mean	-0.1101	0.077	-1.439	0.150	-0.260	0.040
savanna_ih_li	0.0072	0.002	4.252	0.000	0.004	0.011
shrub_ih_li	0.0228	0.002	11.363	0.000	0.019	0.027
pasture_ih_li	0.0105	0.002	6.806	0.000	0.008	0.014
urban_ih_li	0.0443	0.018	2.429	0.015	0.009	0.080
ln_bdist3	-0.1316	0.018	-7.227	0.000	-0.167	-0.096
ln_ttime	0.0414	0.042	0.981	0.326	-0.041	0.124
ln_capdist	0.0972	0.031	3.117	0.002	0.036	0.158
ln_pop	0.3108	0.023	13.627	0.000	0.266	0.356
gcp_li_mer	0.0646	0.030	2.177	0.029	0.006	0.123
imr_mean	0.0003	8.43e-05	3.150	0.002	0.000	0.000
excluded_dummy_li	0.3396	0.045	7.513	0.000	0.251	0.428
fvp_lngdpcap_nonoilrent	-0.1112	0.046	-2.429	0.015	-0.201	-0.021
fvp_lngdpcap_oilrent	0.0968	0.010	9.388	0.000	0.077	0.117
fvp_grgdpcap_oilrent	-0.2421	0.051	-4.732	0.000	-0.342	-0.142
fvp_grgdpcap_nonoilrent	-0.5365	0.135	-3.975	0.000	-0.801	-0.272
ln_fvp_timeindep	0.2693	0.059	4.544	0.000	0.153	0.385
ln_fvp_timesincepreindepwar	0.2966	0.059	5.041	0.000	0.181	0.412
ln_fvp_timesinceregimechange	-0.1718	0.024	-7.223	0.000	-0.218	-0.125
fvp_demo	-0.5825	0.078	-7.499	0.000	-0.735	-0.430
fvp_semi	-0.3001	0.060	-4.961	0.000	-0.419	-0.182
fvp_prop_excluded	-0.8061	0.087	-9.230	0.000	-0.977	-0.635
ln_fvp_population200	0.0190	0.030	0.623	0.533	-0.041	0.079
ssp2_edu_sec_15_24_prop	1.8665	0.167	11.200	0.000	1.540	2.193
ssp2_urban_share_iiasa	0.0013	0.002	0.650	0.516	-0.003	0.005
Intercept	-15.1450	0.643	-23.546	0.000	-16.406	-13.884

4.9.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	373215
Model:	Logit	Df Residuals:	373162
Method:	MLE	Df Model:	52
Date:	Fri, 05 Oct 2018	Pseudo R-squ.:	0.4685
Time:	01:09:09	Log-Likelihood:	-20079.
converged:	True	LL-Null:	-37777.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	0.2360	0.071	3.327	0.001	0.097	0.375
l3_ged_dummy_os	0.1149	0.072	1.598	0.110	-0.026	0.256
l4_ged_dummy_os	0.0959	0.072	1.332	0.183	-0.045	0.237
l5_ged_dummy_os	0.1423	0.073	1.957	0.050	-0.000	0.285
l6_ged_dummy_os	0.1400	0.074	1.903	0.057	-0.004	0.284
l7_ged_dummy_os	0.1802	0.076	2.376	0.017	0.032	0.329
l8_ged_dummy_os	0.1878	0.076	2.467	0.014	0.039	0.337
l9_ged_dummy_os	0.1484	0.078	1.897	0.058	-0.005	0.302
l10_ged_dummy_os	0.1446	0.080	1.804	0.071	-0.013	0.302
l11_ged_dummy_os	0.2823	0.079	3.579	0.000	0.128	0.437
l12_ged_dummy_os	0.1315	0.081	1.616	0.106	-0.028	0.291
q_1_1_l2_ged_dummy_os	0.2088	0.034	6.183	0.000	0.143	0.275
q_1_1_l3_ged_dummy_os	0.2315	0.033	7.030	0.000	0.167	0.296
l1_ged_dummy_sb	0.2915	0.081	3.587	0.000	0.132	0.451
l1_ged_dummy_ns	0.7148	0.155	4.620	0.000	0.412	1.018
l1_ged_dummy_os	0.1709	0.073	2.331	0.020	0.027	0.315
decay_l2_cw_ged_dummy_sb_0	1.3978	0.068	20.670	0.000	1.265	1.530
decay_l2_cw_ged_dummy_ns_0	0.1575	0.089	1.762	0.078	-0.018	0.333
decay_l2_cw_ged_dummy_os_0	2.9280	0.077	38.162	0.000	2.778	3.078
q_1_1_l1_ged_dummy_sb	0.1009	0.031	3.256	0.001	0.040	0.162
q_1_1_l1_ged_dummy_ns	0.2197	0.054	4.083	0.000	0.114	0.325
q_1_1_l1_ged_dummy_os	0.4327	0.034	12.744	0.000	0.366	0.499
ln_dist_diamsec	-0.1793	0.030	-6.015	0.000	-0.238	-0.121
ln_dist_petroleum	0.5455	0.039	14.035	0.000	0.469	0.622
agri_ih_li	0.0033	0.001	2.356	0.018	0.001	0.006
barren_ih_li	-0.0059	0.001	-4.314	0.000	-0.009	-0.003
forest_ih_li	-2.294e-05	0.001	-0.021	0.983	-0.002	0.002
mountains_mean	-0.0750	0.058	-1.300	0.194	-0.188	0.038
savanna_ih_li	0.0065	0.001	6.192	0.000	0.004	0.009
shrub_ih_li	0.0046	0.002	2.505	0.012	0.001	0.008
pasture_ih_li	0.0002	0.001	0.200	0.841	-0.002	0.002
urban_ih_li	0.0727	0.013	5.510	0.000	0.047	0.099
ln_bdist3	-0.1127	0.014	-8.215	0.000	-0.140	-0.086
ln_ttime	-0.2198	0.033	-6.693	0.000	-0.284	-0.155
ln_capdist	0.1154	0.022	5.191	0.000	0.072	0.159
ln_pop	0.3099	0.018	16.957	0.000	0.274	0.346
gcp_li_mer	0.1117	0.021	5.251	0.000	0.070	0.153
imr_mean	0.0004	6.17e-05	6.480	0.000	0.000	0.001
excluded_dummy_li	0.3000	0.035	8.676	0.000	0.232	0.368
fvp_lngdpcap_nonoilrent	-0.2949	0.033	-8.876	0.000	-0.360	-0.230
fvp_lngdpcap_oilrent	0.0928	0.008	11.807	0.000	0.077	0.108
fvp_grgdpcap_oilrent	-0.1521	0.040	-3.824	0.000	-0.230	-0.074
fvp_grgdpcap_nonoilrent	-0.4855	0.096	-5.083	0.000	-0.673	-0.298
ln_fvp_timeindep	0.4177	0.042	10.000	0.000	0.336	0.500
ln_fvp_timesincepreindepwar	-0.0205	0.039	-0.520	0.603	-0.098	0.057
ln_fvp_timesinceregimechange	-0.1400	0.019	-7.461	0.000	-0.177	-0.103
fvp_demo	-0.8885	0.060	-14.764	0.000	-1.006	-0.771
fvp_semi	-0.4442	0.043	-10.372	0.000	-0.528	-0.360
fvp_prop_excluded	0.0750	0.059	1.282	0.200	-0.040	0.190
ln_fvp_population200	-0.0714	0.023	-3.127	0.002	-0.116	-0.027
ssp2_edu_sec_15_24_prop	1.0823	0.130	8.345	0.000	0.828	1.336
ssp2_urban_share_iiasa	0.0006	0.002	0.386	0.700	-0.002	0.004
Intercept	-7.1539	0.461	-15.512	0.000	-8.058	-6.250

4.9.4 sb_eval

Dep. Variable:	ged_dummy_sb	No. Observations:	327814
Model:	Logit	Df Residuals:	327761
Method:	MLE	Df Model:	52
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.4920
Time:	01:54:51	Log-Likelihood:	-21889.
converged:	True	LL-Null:	-43090.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	-0.0045	0.061	-0.074	0.941	-0.124	0.115
l3_ged_dummy_sb	0.0868	0.061	1.418	0.156	-0.033	0.207
l4_ged_dummy_sb	0.2227	0.062	3.584	0.000	0.101	0.344
l5_ged_dummy_sb	0.0065	0.063	0.103	0.918	-0.118	0.131
l6_ged_dummy_sb	0.2566	0.064	4.016	0.000	0.131	0.382
l7_ged_dummy_sb	0.2491	0.064	3.866	0.000	0.123	0.375
l8_ged_dummy_sb	0.3037	0.065	4.691	0.000	0.177	0.431
l9_ged_dummy_sb	0.3192	0.066	4.837	0.000	0.190	0.448
l10_ged_dummy_sb	0.3490	0.066	5.262	0.000	0.219	0.479
l11_ged_dummy_sb	0.2996	0.066	4.525	0.000	0.170	0.429
l12_ged_dummy_sb	0.2572	0.068	3.789	0.000	0.124	0.390
q_1_1_l2_ged_dummy_sb	0.1939	0.030	6.493	0.000	0.135	0.252
q_1_1_l3_ged_dummy_sb	0.2421	0.029	8.265	0.000	0.185	0.300
l1_ged_dummy_sb	0.0735	0.062	1.181	0.238	-0.048	0.196
l1_ged_dummy_ns	0.9673	0.234	4.132	0.000	0.508	1.426
l1_ged_dummy_os	0.1182	0.099	1.192	0.233	-0.076	0.312
decay_l2_cw_ged_dummy_sb_0	3.4790	0.066	52.577	0.000	3.349	3.609
decay_l2_cw_ged_dummy_ns_0	-0.8341	0.104	-7.990	0.000	-1.039	-0.629
decay_l2_cw_ged_dummy_os_0	1.1954	0.072	16.645	0.000	1.055	1.336
q_1_1_l1_ged_dummy_sb	0.3532	0.029	12.069	0.000	0.296	0.411
q_1_1_l1_ged_dummy_ns	0.1098	0.089	1.231	0.218	-0.065	0.285
q_1_1_l1_ged_dummy_os	0.3390	0.036	9.387	0.000	0.268	0.410
ln_dist_diamsec	0.3313	0.030	10.936	0.000	0.272	0.391
ln_dist_petroleum	0.0522	0.034	1.536	0.124	-0.014	0.119
agri_ih_li	-0.0048	0.001	-3.372	0.001	-0.008	-0.002
barren_ih_li	-0.0036	0.001	-3.242	0.001	-0.006	-0.001
forest_ih_li	-0.0022	0.001	-1.897	0.058	-0.004	7.37e-05
mountains_mean	-0.0594	0.053	-1.121	0.262	-0.163	0.044
savanna_ih_li	-0.0034	0.001	-2.989	0.003	-0.006	-0.001
shrub_ih_li	0.0106	0.001	7.855	0.000	0.008	0.013
pasture_ih_li	0.0019	0.001	2.007	0.045	4.47e-05	0.004
urban_ih_li	0.0914	0.015	6.140	0.000	0.062	0.121
ln_bdist3	-0.1271	0.013	-9.930	0.000	-0.152	-0.102
ln_ttime	-0.1540	0.029	-5.281	0.000	-0.211	-0.097
ln_capdist	0.0127	0.022	0.569	0.569	-0.031	0.056
ln_pop	0.2428	0.016	15.061	0.000	0.211	0.274
gcp_li_mer	0.0895	0.023	3.959	0.000	0.045	0.134
imr_mean	0.0007	5.79e-05	12.688	0.000	0.001	0.001
excluded_dummy_li	0.2262	0.033	6.863	0.000	0.162	0.291
fvp_lngdpcap_nonoilrent	-0.0903	0.035	-2.581	0.010	-0.159	-0.022
fvp_lngdpcap_oilrent	0.1338	0.008	17.295	0.000	0.119	0.149
fvp_grgdpcap_oilrent	-0.1352	0.037	-3.610	0.000	-0.209	-0.062
fvp_grgdpcap_nonoilrent	-0.9018	0.097	-9.252	0.000	-1.093	-0.711
ln_fvp_timeindep	0.3381	0.043	7.854	0.000	0.254	0.422
ln_fvp_timesincepreindepwar	-0.2070	0.038	-5.421	0.000	-0.282	-0.132
ln_fvp_timesinceregimechange	-0.1606	0.020	-7.845	0.000	-0.201	-0.120
fvp_demo	-0.8385	0.061	-13.814	0.000	-0.958	-0.720
fvp_semi	-0.4845	0.040	-12.128	0.000	-0.563	-0.406
fvp_prop_excluded	-0.0648	0.057	-1.129	0.259	-0.177	0.048
ln_fvp_population200	0.0950	0.024	3.999	0.000	0.048	0.142
ssp2_edu_sec_15_24_prop	-0.2476	0.141	-1.760	0.078	-0.523	0.028
ssp2_urban_share_iiasa	-0.0035	0.001	-2.458	0.014	-0.006	-0.001
Intercept	-7.4572	0.455	-16.390	0.000	-8.349	-6.565

4.9.5 ns_eval

Dep. Variable:	ged_dummy_ns	No. Observations:	322003
Model:	Logit	Df Residuals:	321950
Method:	MLE	Df Model:	52
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.4487
Time:	02:17:44	Log-Likelihood:	-9553.9
converged:	True	LL-Null:	-17330.

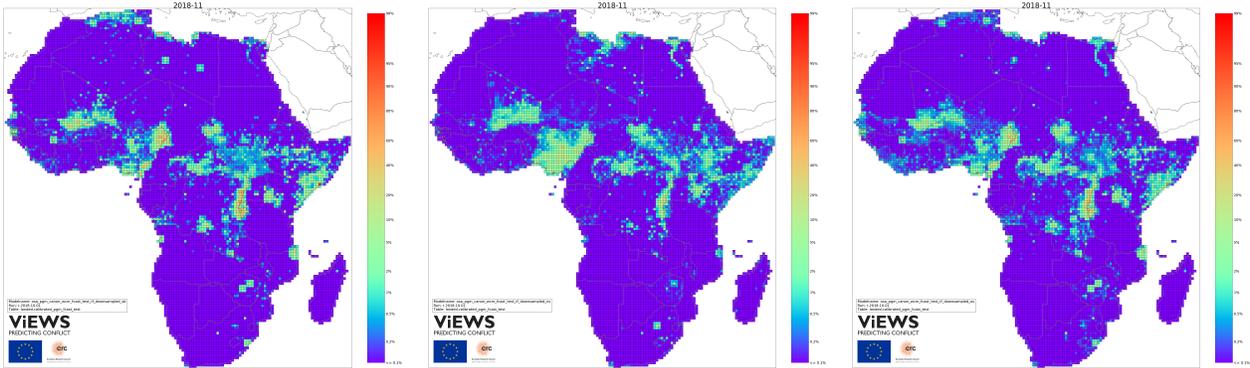
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.3949	0.118	3.339	0.001	0.163	0.627
l3_ged_dummy_ns	0.1079	0.120	0.903	0.367	-0.126	0.342
l4_ged_dummy_ns	0.4378	0.122	3.583	0.000	0.198	0.677
l5_ged_dummy_ns	0.0942	0.127	0.740	0.459	-0.155	0.344
l6_ged_dummy_ns	0.2024	0.130	1.561	0.119	-0.052	0.457
l7_ged_dummy_ns	0.0815	0.136	0.597	0.550	-0.186	0.349
l8_ged_dummy_ns	0.3499	0.135	2.596	0.009	0.086	0.614
l9_ged_dummy_ns	0.4054	0.134	3.025	0.002	0.143	0.668
l10_ged_dummy_ns	0.2399	0.143	1.679	0.093	-0.040	0.520
l11_ged_dummy_ns	0.3326	0.139	2.400	0.016	0.061	0.604
l12_ged_dummy_ns	0.4738	0.144	3.297	0.001	0.192	0.755
q_1_1_l2_ged_dummy_ns	0.3463	0.070	4.955	0.000	0.209	0.483
q_1_1_l3_ged_dummy_ns	0.4271	0.070	6.095	0.000	0.290	0.564
l1_ged_dummy_sb	0.3083	0.191	1.614	0.107	-0.066	0.683
l1_ged_dummy_ns	0.3950	0.118	3.336	0.001	0.163	0.627
l1_ged_dummy_os	0.8200	0.170	4.824	0.000	0.487	1.153
decay_l2_cw_ged_dummy_sb_0	0.0403	0.140	0.287	0.774	-0.235	0.315
decay_l2_cw_ged_dummy_ns_0	3.4445	0.113	30.465	0.000	3.223	3.666
decay_l2_cw_ged_dummy_os_0	0.6991	0.131	5.349	0.000	0.443	0.955
q_1_1_l1_ged_dummy_sb	-0.1283	0.072	-1.789	0.074	-0.269	0.012
q_1_1_l1_ged_dummy_ns	0.6317	0.065	9.645	0.000	0.503	0.760
q_1_1_l1_ged_dummy_os	0.2153	0.062	3.462	0.001	0.093	0.337
ln_dist_diamsec	0.3678	0.051	7.152	0.000	0.267	0.469
ln_dist_petroleum	1.3132	0.072	18.237	0.000	1.172	1.454
agri_ih_li	0.0129	0.002	5.562	0.000	0.008	0.017
barren_ih_li	0.0042	0.002	1.879	0.060	-0.000	0.009
forest_ih_li	0.0031	0.002	1.452	0.146	-0.001	0.007
mountains_mean	-0.0962	0.087	-1.101	0.271	-0.267	0.075
savanna_ih_li	0.0091	0.002	4.382	0.000	0.005	0.013
shrub_ih_li	0.0281	0.002	11.750	0.000	0.023	0.033
pasture_ih_li	0.0174	0.002	9.261	0.000	0.014	0.021
urban_ih_li	0.0382	0.020	1.892	0.058	-0.001	0.078
ln_bdist3	-0.1937	0.021	-9.297	0.000	-0.235	-0.153
ln_ttime	0.1425	0.049	2.889	0.004	0.046	0.239
ln_capdist	-0.0107	0.036	-0.297	0.767	-0.081	0.060
ln_pop	0.3977	0.027	14.645	0.000	0.344	0.451
gcp_li_mer	0.1259	0.033	3.841	0.000	0.062	0.190
imr_mean	0.0005	0.000	4.847	0.000	0.000	0.001
excluded_dummy_li	0.4498	0.053	8.470	0.000	0.346	0.554
fvp_lngdpcap_nonoilrent	0.0629	0.057	1.098	0.272	-0.049	0.175
fvp_lngdpcap_oilrent	0.0655	0.013	5.215	0.000	0.041	0.090
fvp_grgdpcap_oilrent	-0.2506	0.064	-3.939	0.000	-0.375	-0.126
fvp_grgdpcap_nonoilrent	-1.4086	0.169	-8.338	0.000	-1.740	-1.077
ln_fvp_timeindep	0.1912	0.067	2.865	0.004	0.060	0.322
ln_fvp_timesincepreindepwar	0.1306	0.069	1.904	0.057	-0.004	0.265
ln_fvp_timesinceregimechange	-0.0454	0.031	-1.454	0.146	-0.107	0.016
fvp_demo	-0.6070	0.093	-6.509	0.000	-0.790	-0.424
fvp_semi	-0.3093	0.070	-4.411	0.000	-0.447	-0.172
fvp_prop_excluded	-0.8432	0.097	-8.721	0.000	-1.033	-0.654
ln_fvp_population200	0.2316	0.041	5.679	0.000	0.152	0.312
ssp2_edu_sec_15_24_prop	1.7513	0.209	8.366	0.000	1.341	2.162
ssp2_urban_share_iiasa	-0.0039	0.002	-1.667	0.096	-0.008	0.001
Intercept	-19.7484	0.795	-24.835	0.000	-21.307	-18.190

4.9.6 os_eval

Dep. Variable:	ged_dummy_os	No. Observations:	324783
Model:	Logit	Df Residuals:	324730
Method:	MLE	Df Model:	52
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.4686
Time:	02:28:06	Log-Likelihood:	-16216.
converged:	True	LL-Null:	-30514.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	0.2892	0.081	3.550	0.000	0.130	0.449
l3_ged_dummy_os	0.0605	0.082	0.735	0.462	-0.101	0.222
l4_ged_dummy_os	0.0954	0.083	1.155	0.248	-0.067	0.257
l5_ged_dummy_os	0.1266	0.082	1.545	0.122	-0.034	0.287
l6_ged_dummy_os	0.2389	0.085	2.820	0.005	0.073	0.405
l7_ged_dummy_os	0.0843	0.087	0.966	0.334	-0.087	0.255
l8_ged_dummy_os	0.1544	0.089	1.728	0.084	-0.021	0.329
l9_ged_dummy_os	0.0799	0.090	0.888	0.375	-0.096	0.256
l10_ged_dummy_os	-0.0585	0.091	-0.645	0.519	-0.236	0.119
l11_ged_dummy_os	0.5608	0.090	6.254	0.000	0.385	0.737
l12_ged_dummy_os	0.2403	0.091	2.653	0.008	0.063	0.418
q_1_1_l2_ged_dummy_os	0.2229	0.039	5.756	0.000	0.147	0.299
q_1_1_l3_ged_dummy_os	0.1941	0.038	5.161	0.000	0.120	0.268
l1_ged_dummy_sb	0.2560	0.092	2.793	0.005	0.076	0.436
l1_ged_dummy_ns	0.9659	0.177	5.458	0.000	0.619	1.313
l1_ged_dummy_os	0.1828	0.083	2.206	0.027	0.020	0.345
decay_l2_cw_ged_dummy_sb_0	1.5250	0.076	20.071	0.000	1.376	1.674
decay_l2_cw_ged_dummy_ns_0	0.0102	0.103	0.099	0.921	-0.192	0.212
decay_l2_cw_ged_dummy_os_0	2.9600	0.085	34.887	0.000	2.794	3.126
q_1_1_l1_ged_dummy_sb	0.1930	0.035	5.458	0.000	0.124	0.262
q_1_1_l1_ged_dummy_ns	0.2472	0.062	3.960	0.000	0.125	0.370
q_1_1_l1_ged_dummy_os	0.4771	0.038	12.668	0.000	0.403	0.551
ln_dist_diamsec	-0.2563	0.034	-7.648	0.000	-0.322	-0.191
ln_dist_petroleum	0.5501	0.044	12.417	0.000	0.463	0.637
agri_ih_li	0.0038	0.002	2.369	0.018	0.001	0.007
barren_ih_li	-0.0056	0.002	-3.524	0.000	-0.009	-0.002
forest_ih_li	0.0011	0.001	0.936	0.349	-0.001	0.004
mountains_mean	-0.0950	0.064	-1.483	0.138	-0.221	0.031
savanna_ih_li	0.0063	0.001	5.274	0.000	0.004	0.009
shrub_ih_li	0.0043	0.002	2.005	0.045	9.66e-05	0.008
pasture_ih_li	0.0018	0.001	1.522	0.128	-0.001	0.004
urban_ih_li	0.0768	0.014	5.339	0.000	0.049	0.105
ln_bdist3	-0.1480	0.015	-9.603	0.000	-0.178	-0.118
ln_ttime	-0.2458	0.037	-6.655	0.000	-0.318	-0.173
ln_capdist	0.0660	0.025	2.631	0.009	0.017	0.115
ln_pop	0.3017	0.020	14.777	0.000	0.262	0.342
gcp_li_mer	0.0883	0.023	3.875	0.000	0.044	0.133
imr_mean	0.0004	6.97e-05	5.671	0.000	0.000	0.001
excluded_dummy_li	0.3650	0.039	9.336	0.000	0.288	0.442
fvp_lngdpcap_nonoilrent	-0.3264	0.039	-8.383	0.000	-0.403	-0.250
fvp_lngdpcap_oilrent	0.0967	0.009	11.132	0.000	0.080	0.114
fvp_grgdpcap_oilrent	-0.0779	0.046	-1.681	0.093	-0.169	0.013
fvp_grgdpcap_nonoilrent	-0.8445	0.119	-7.068	0.000	-1.079	-0.610
ln_fvp_timeindep	0.3808	0.047	8.162	0.000	0.289	0.472
ln_fvp_timesincepreindepwar	-0.0146	0.046	-0.317	0.752	-0.105	0.076
ln_fvp_timesinceregimechange	-0.0880	0.023	-3.806	0.000	-0.133	-0.043
fvp_demo	-0.8273	0.069	-11.982	0.000	-0.963	-0.692
fvp_semi	-0.4104	0.048	-8.639	0.000	-0.504	-0.317
fvp_prop_excluded	0.1019	0.063	1.615	0.106	-0.022	0.226
ln_fvp_population200	-0.0090	0.027	-0.328	0.743	-0.063	0.045
ssp2_edu_sec_15_24_prop	1.2960	0.156	8.307	0.000	0.990	1.602
ssp2_urban_share_iiasa	0.0013	0.002	0.771	0.440	-0.002	0.004
Intercept	-7.0576	0.528	-13.363	0.000	-8.093	-6.023

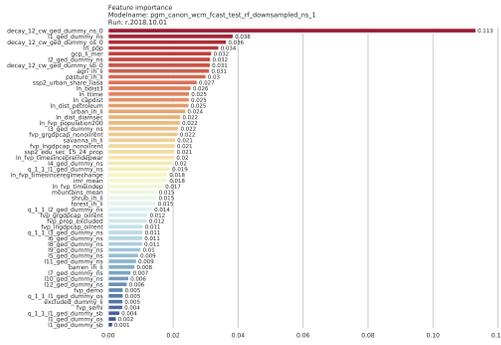
4.10 osa_pgm_canon_wcm_rf



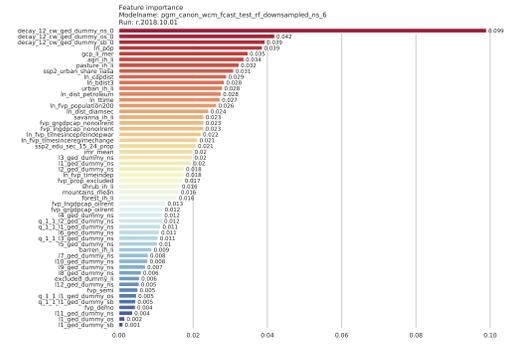
(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 35: Forecasts for October 2018

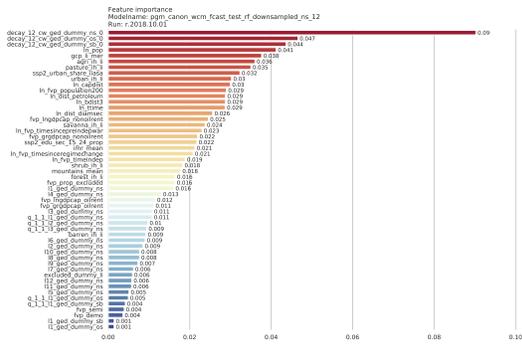
4.10.1 sb_fcast



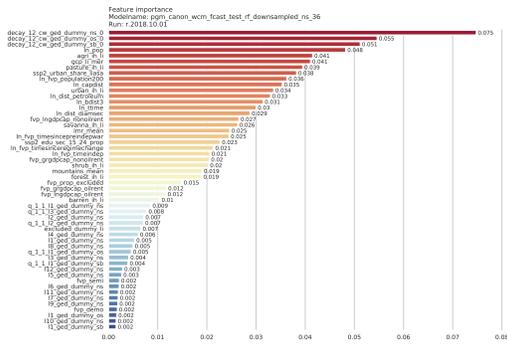
(a) 1 month



(b) 6 months

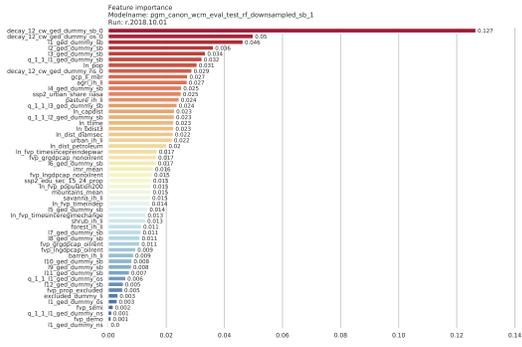


(c) 12 months

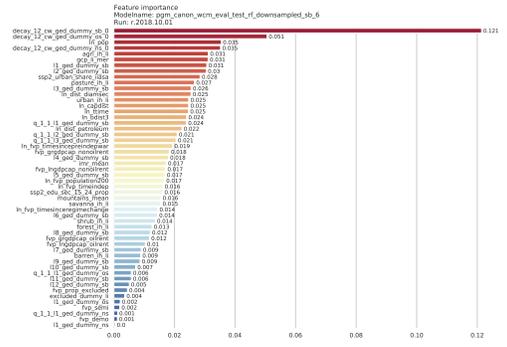


(d) 36 months

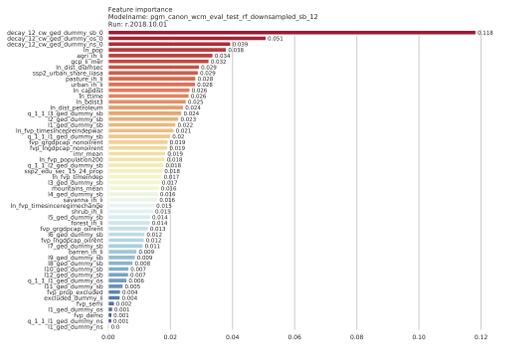
4.10.3 os_fcst



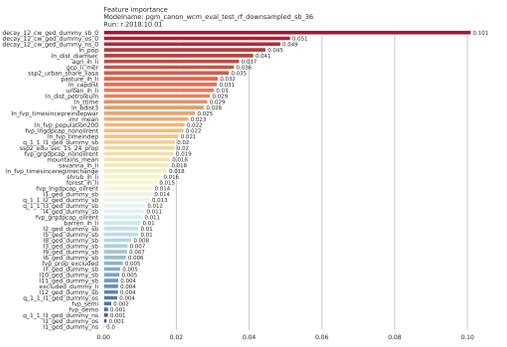
(a) 1 month



(b) 6 months

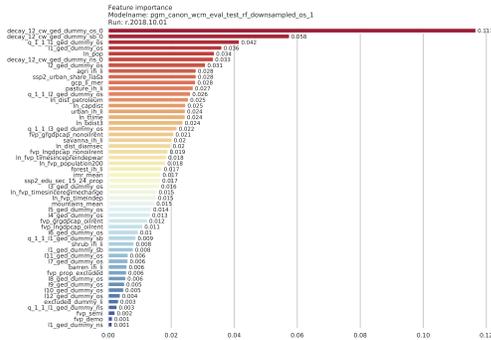


(c) 12 months

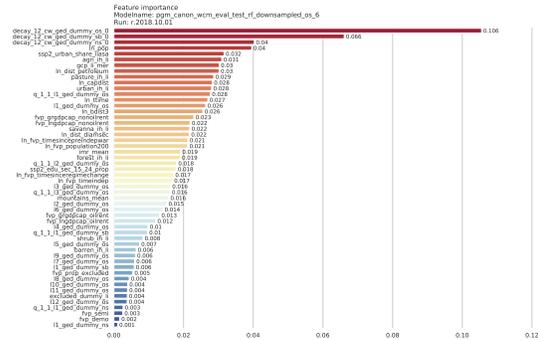


(d) 36 months

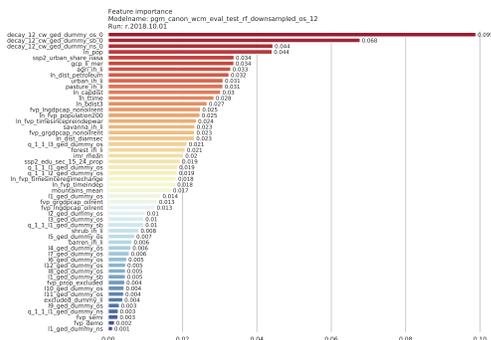
4.10.5 ns_eval



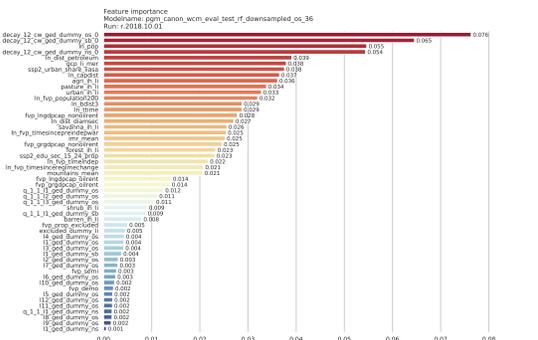
(a) 1 month



(b) 6 months

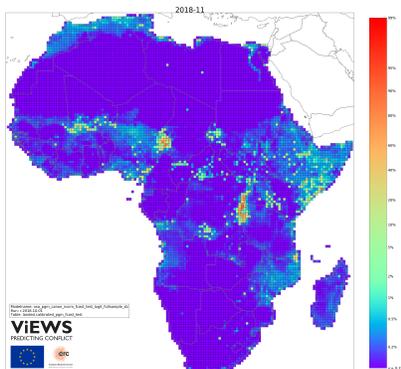


(c) 12 months

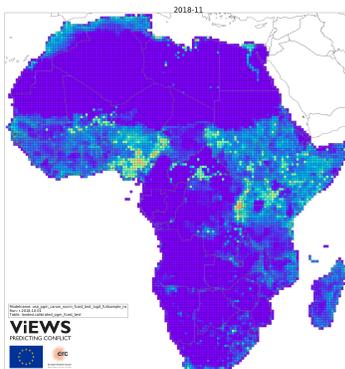


(d) 36 months

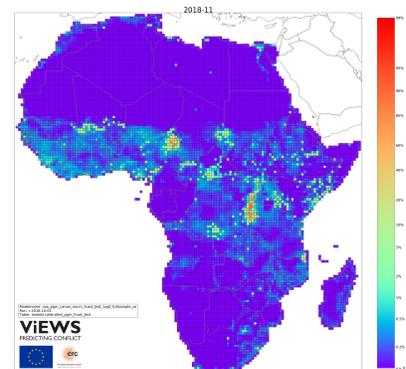
4.11 osa_pgm_canon_nocm_logit



(a) State-based conflict (sb), October 2018



(b) Non-state conflict (ns), October 2018



(c) One-sided violence (os), October 2018

Figure 42: Forecasts for October 2018

4.11.1 sb_fcast

Dep. Variable:		ged_dummy_sb	No. Observations:		376638	
Model:		Logit	Df Residuals:		376598	
Method:		MLE	Df Model:		39	
Date:		Fri, 05 Oct 2018	Pseudo R-squ.:		0.4833	
Time:		01:07:15	Log-Likelihood:		-26718.	
converged:		True	LL-Null:		-51704.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	0.1521	0.057	2.688	0.007	0.041	0.263
l3_ged_dummy_sb	0.1064	0.056	1.894	0.058	-0.004	0.217
l4_ged_dummy_sb	0.1518	0.056	2.699	0.007	0.042	0.262
l5_ged_dummy_sb	0.0775	0.057	1.349	0.177	-0.035	0.190
l6_ged_dummy_sb	0.2018	0.057	3.531	0.000	0.090	0.314
l7_ged_dummy_sb	0.1458	0.058	2.510	0.012	0.032	0.260
l8_ged_dummy_sb	0.3120	0.058	5.355	0.000	0.198	0.426
l9_ged_dummy_sb	0.2181	0.059	3.684	0.000	0.102	0.334
l10_ged_dummy_sb	0.2708	0.060	4.524	0.000	0.153	0.388
l11_ged_dummy_sb	0.2987	0.061	4.893	0.000	0.179	0.418
l12_ged_dummy_sb	0.3841	0.062	6.212	0.000	0.263	0.505
q_1_1_l2_ged_dummy_sb	0.2380	0.027	8.658	0.000	0.184	0.292
q_1_1_l3_ged_dummy_sb	0.2812	0.027	10.485	0.000	0.229	0.334
l1_ged_dummy_sb	-0.0079	0.057	-0.139	0.889	-0.120	0.104
l1_ged_dummy_ns	0.7576	0.183	4.131	0.000	0.398	1.117
l1_ged_dummy_os	0.2084	0.090	2.311	0.021	0.032	0.385
decay_l2_cw_ged_dummy_sb_0	3.7114	0.060	61.961	0.000	3.594	3.829
decay_l2_cw_ged_dummy_ns_0	-0.5627	0.091	-6.164	0.000	-0.742	-0.384
decay_l2_cw_ged_dummy_os_0	1.0716	0.065	16.545	0.000	0.945	1.199
q_1_1_l1_ged_dummy_sb	0.3836	0.027	14.163	0.000	0.330	0.437
q_1_1_l1_ged_dummy_ns	0.1546	0.066	2.327	0.020	0.024	0.285
q_1_1_l1_ged_dummy_os	0.2251	0.033	6.920	0.000	0.161	0.289
ln_dist_diamsec	0.2928	0.024	12.288	0.000	0.246	0.340
ln_dist_petroleum	-0.2520	0.023	-10.825	0.000	-0.298	-0.206
agri_ih_li	-0.0033	0.001	-2.765	0.006	-0.006	-0.001
barren_ih_li	-0.0058	0.001	-5.930	0.000	-0.008	-0.004
forest_ih_li	-0.0036	0.001	-3.537	0.000	-0.006	-0.002
mountains_mean	0.0286	0.046	0.623	0.533	-0.061	0.119
savanna_ih_li	-0.0049	0.001	-5.028	0.000	-0.007	-0.003
shrub_ih_li	0.0071	0.001	6.146	0.000	0.005	0.009
pasture_ih_li	0.0027	0.001	3.224	0.001	0.001	0.004
urban_ih_li	0.0931	0.012	7.630	0.000	0.069	0.117
ln_bdist3	-0.0783	0.011	-7.099	0.000	-0.100	-0.057
ln_ttime	-0.1164	0.027	-4.389	0.000	-0.168	-0.064
ln_capdist	0.1110	0.017	6.437	0.000	0.077	0.145
ln_pop	0.2425	0.013	18.266	0.000	0.216	0.268
gcp_li_mer	-0.0158	0.019	-0.835	0.403	-0.053	0.021
imr_mean	0.0007	4.01e-05	16.996	0.000	0.001	0.001
excluded_dummy_li	0.3115	0.027	11.540	0.000	0.259	0.364
Intercept	-7.6219	0.275	-27.754	0.000	-8.160	-7.084

4.11.2 ns_fcast

Dep. Variable:		ged_dummy_ns	No. Observations:		369863	
Model:		Logit	Df Residuals:		369823	
Method:		MLE	Df Model:		39	
Date:		Fri, 05 Oct 2018	Pseudo R-squ.:		0.4164	
Time:		01:06:19	Log-Likelihood:		-13013.	
converged:		True	LL-Null:		-22298.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.4727	0.101	4.681	0.000	0.275	0.671
l3_ged_dummy_ns	0.2947	0.103	2.858	0.004	0.093	0.497
l4_ged_dummy_ns	0.3918	0.104	3.756	0.000	0.187	0.596
l5_ged_dummy_ns	0.0451	0.110	0.410	0.682	-0.170	0.260
l6_ged_dummy_ns	0.1759	0.112	1.574	0.115	-0.043	0.395
l7_ged_dummy_ns	0.1975	0.118	1.680	0.093	-0.033	0.428
l8_ged_dummy_ns	0.3185	0.115	2.759	0.006	0.092	0.545
l9_ged_dummy_ns	0.3500	0.115	3.032	0.002	0.124	0.576
l10_ged_dummy_ns	0.3729	0.125	2.990	0.003	0.128	0.617
l11_ged_dummy_ns	0.6337	0.119	5.345	0.000	0.401	0.866
l12_ged_dummy_ns	0.4784	0.122	3.908	0.000	0.238	0.718
q_1_1_l2_ged_dummy_ns	0.3832	0.058	6.615	0.000	0.270	0.497
q_1_1_l3_ged_dummy_ns	0.2505	0.059	4.261	0.000	0.135	0.366
l1_ged_dummy_sb	0.0691	0.165	0.419	0.675	-0.254	0.392
l1_ged_dummy_ns	0.2320	0.100	2.325	0.020	0.036	0.428
l1_ged_dummy_os	0.7113	0.150	4.732	0.000	0.417	1.006
decay_l2_cw_ged_dummy_sb_0	0.0967	0.122	0.791	0.429	-0.143	0.336
decay_l2_cw_ged_dummy_ns_0	3.7369	0.097	38.666	0.000	3.547	3.926
decay_l2_cw_ged_dummy_os_0	0.5623	0.118	4.784	0.000	0.332	0.793
q_1_1_l1_ged_dummy_sb	-0.0054	0.059	-0.092	0.927	-0.121	0.110
q_1_1_l1_ged_dummy_ns	0.7586	0.055	13.866	0.000	0.651	0.866
q_1_1_l1_ged_dummy_os	0.2909	0.054	5.382	0.000	0.185	0.397
ln_dist_diamsec	0.3410	0.038	9.008	0.000	0.267	0.415
ln_dist_petroleum	0.6556	0.049	13.307	0.000	0.559	0.752
agri_ih_li	0.0130	0.002	7.201	0.000	0.009	0.017
barren_ih_li	-0.0010	0.002	-0.579	0.563	-0.004	0.002
forest_ih_li	0.0024	0.002	1.379	0.168	-0.001	0.006
mountains_mean	-0.3462	0.073	-4.740	0.000	-0.489	-0.203
savanna_ih_li	0.0041	0.002	2.465	0.014	0.001	0.007
shrub_ih_li	0.0215	0.002	11.249	0.000	0.018	0.025
pasture_ih_li	0.0099	0.001	6.729	0.000	0.007	0.013
urban_ih_li	0.0473	0.017	2.740	0.006	0.013	0.081
ln_bdist3	-0.0878	0.017	-5.226	0.000	-0.121	-0.055
ln_ttime	0.1188	0.041	2.906	0.004	0.039	0.199
ln_capdist	0.2807	0.027	10.415	0.000	0.228	0.333
ln_pop	0.4051	0.022	18.811	0.000	0.363	0.447
gcp_li_mer	0.0214	0.030	0.723	0.469	-0.037	0.079
imr_mean	-0.0001	6.54e-05	-1.844	0.065	-0.000	7.55e-06
excluded_dummy_li	0.1923	0.041	4.693	0.000	0.112	0.273
Intercept	-14.6654	0.456	-32.144	0.000	-15.560	-13.771

4.11.3 os_fcast

Dep. Variable:		ged_dummy_os	No. Observations:		373215	
Model:		Logit	Df Residuals:		373175	
Method:		MLE	Df Model:		39	
Date:		Fri, 05 Oct 2018	Pseudo R-squ.:		0.4606	
Time:		01:06:58	Log-Likelihood:		-20376.	
converged:		True	LL-Null:		-37777.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	0.1604	0.071	2.267	0.023	0.022	0.299
l3_ged_dummy_os	0.0600	0.072	0.836	0.403	-0.081	0.201
l4_ged_dummy_os	0.0734	0.072	1.021	0.307	-0.068	0.214
l5_ged_dummy_os	0.2346	0.073	3.210	0.001	0.091	0.378
l6_ged_dummy_os	0.1891	0.075	2.536	0.011	0.043	0.335
l7_ged_dummy_os	-0.0222	0.076	-0.293	0.769	-0.171	0.126
l8_ged_dummy_os	0.1754	0.077	2.268	0.023	0.024	0.327
l9_ged_dummy_os	0.1376	0.079	1.730	0.084	-0.018	0.293
l10_ged_dummy_os	0.0658	0.080	0.825	0.409	-0.090	0.222
l11_ged_dummy_os	0.3902	0.080	4.888	0.000	0.234	0.547
l12_ged_dummy_os	0.1887	0.081	2.316	0.021	0.029	0.348
q_1_1_l2_ged_dummy_os	0.2609	0.034	7.573	0.000	0.193	0.328
q_1_1_l3_ged_dummy_os	0.2037	0.033	6.105	0.000	0.138	0.269
l1_ged_dummy_sb	0.1869	0.082	2.266	0.023	0.025	0.349
l1_ged_dummy_ns	1.1316	0.154	7.348	0.000	0.830	1.433
l1_ged_dummy_os	0.0687	0.073	0.943	0.346	-0.074	0.211
decay_l2_cw_ged_dummy_sb_0	1.5030	0.068	22.055	0.000	1.369	1.637
decay_l2_cw_ged_dummy_ns_0	0.0397	0.088	0.449	0.653	-0.134	0.213
decay_l2_cw_ged_dummy_os_0	3.1156	0.076	40.977	0.000	2.967	3.265
q_1_1_l1_ged_dummy_sb	0.1592	0.032	4.992	0.000	0.097	0.222
q_1_1_l1_ged_dummy_ns	0.2819	0.055	5.130	0.000	0.174	0.390
q_1_1_l1_ged_dummy_os	0.4356	0.034	12.704	0.000	0.368	0.503
ln_dist_diamsec	-0.1813	0.027	-6.643	0.000	-0.235	-0.128
ln_dist_petroleum	0.3640	0.032	11.530	0.000	0.302	0.426
agri_ih_li	0.0016	0.001	1.152	0.249	-0.001	0.004
barren_ih_li	-0.0053	0.001	-3.975	0.000	-0.008	-0.003
forest_ih_li	0.0011	0.001	1.006	0.314	-0.001	0.003
mountains_mean	-0.0642	0.055	-1.164	0.245	-0.172	0.044
savanna_ih_li	0.0040	0.001	3.986	0.000	0.002	0.006
shrub_ih_li	0.0027	0.002	1.538	0.124	-0.001	0.006
pasture_ih_li	0.0014	0.001	1.430	0.153	-0.001	0.003
urban_ih_li	0.0999	0.012	8.130	0.000	0.076	0.124
ln_bdist3	-0.0889	0.013	-6.953	0.000	-0.114	-0.064
ln_ttime	-0.1914	0.032	-5.947	0.000	-0.254	-0.128
ln_capdist	0.1334	0.017	7.662	0.000	0.099	0.167
ln_pop	0.3196	0.017	19.197	0.000	0.287	0.352
gcp_li_mer	0.0413	0.020	2.050	0.040	0.002	0.081
imr_mean	0.0005	5.01e-05	10.007	0.000	0.000	0.001
excluded_dummy_li	0.4363	0.031	13.924	0.000	0.375	0.498
Intercept	-8.9989	0.338	-26.649	0.000	-9.661	-8.337

4.11.4 sb_eval

Dep. Variable:		ged_dummy_sb	No. Observations:		327814	
Model:		Logit	Df Residuals:		327774	
Method:		MLE	Df Model:		39	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.4817	
Time:		01:54:24	Log-Likelihood:		-22333.	
converged:		True	LL-Null:		-43090.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	-0.0672	0.061	-1.099	0.272	-0.187	0.053
l3_ged_dummy_sb	0.1546	0.062	2.493	0.013	0.033	0.276
l4_ged_dummy_sb	0.1141	0.062	1.849	0.064	-0.007	0.235
l5_ged_dummy_sb	0.0407	0.063	0.644	0.520	-0.083	0.164
l6_ged_dummy_sb	0.2104	0.063	3.319	0.001	0.086	0.335
l7_ged_dummy_sb	0.2560	0.064	3.994	0.000	0.130	0.382
l8_ged_dummy_sb	0.2869	0.065	4.419	0.000	0.160	0.414
l9_ged_dummy_sb	0.2100	0.065	3.227	0.001	0.082	0.338
l10_ged_dummy_sb	0.2147	0.066	3.274	0.001	0.086	0.343
l11_ged_dummy_sb	0.3425	0.067	5.095	0.000	0.211	0.474
l12_ged_dummy_sb	0.3025	0.068	4.445	0.000	0.169	0.436
q_1_1_l2_ged_dummy_sb	0.2057	0.030	6.746	0.000	0.146	0.265
q_1_1_l3_ged_dummy_sb	0.3030	0.030	10.071	0.000	0.244	0.362
l1_ged_dummy_sb	0.1376	0.063	2.173	0.030	0.013	0.262
l1_ged_dummy_ns	0.7408	0.227	3.265	0.001	0.296	1.186
l1_ged_dummy_os	0.1631	0.103	1.581	0.114	-0.039	0.365
decay_l2_cw_ged_dummy_sb_0	3.8280	0.065	58.592	0.000	3.700	3.956
decay_l2_cw_ged_dummy_ns_0	-0.8297	0.103	-8.049	0.000	-1.032	-0.628
decay_l2_cw_ged_dummy_os_0	1.0947	0.073	15.043	0.000	0.952	1.237
q_1_1_l1_ged_dummy_sb	0.4114	0.030	13.692	0.000	0.353	0.470
q_1_1_l1_ged_dummy_ns	0.0100	0.090	0.111	0.912	-0.167	0.186
q_1_1_l1_ged_dummy_os	0.3003	0.037	8.041	0.000	0.227	0.373
ln_dist_diamsec	0.2539	0.026	9.698	0.000	0.203	0.305
ln_dist_petroleum	-0.2995	0.025	-11.975	0.000	-0.349	-0.251
agri_ih_li	-0.0027	0.001	-2.062	0.039	-0.005	-0.000
barren_ih_li	-0.0056	0.001	-5.187	0.000	-0.008	-0.003
forest_ih_li	-0.0040	0.001	-3.566	0.000	-0.006	-0.002
mountains_mean	0.0962	0.050	1.917	0.055	-0.002	0.195
savanna_ih_li	-0.0078	0.001	-7.126	0.000	-0.010	-0.006
shrub_ih_li	0.0070	0.001	5.524	0.000	0.005	0.010
pasture_ih_li	0.0032	0.001	3.584	0.000	0.001	0.005
urban_ih_li	0.0906	0.014	6.576	0.000	0.064	0.118
ln_bdist3	-0.0716	0.012	-5.929	0.000	-0.095	-0.048
ln_ttime	-0.0968	0.029	-3.311	0.001	-0.154	-0.039
ln_capdist	0.1351	0.019	7.065	0.000	0.098	0.173
ln_pop	0.2550	0.015	17.406	0.000	0.226	0.284
gcp_li_mer	-0.0140	0.022	-0.647	0.517	-0.057	0.028
imr_mean	0.0007	4.37e-05	15.820	0.000	0.001	0.001
excluded_dummy_li	0.3450	0.030	11.538	0.000	0.286	0.404
Intercept	-7.9270	0.304	-26.039	0.000	-8.524	-7.330

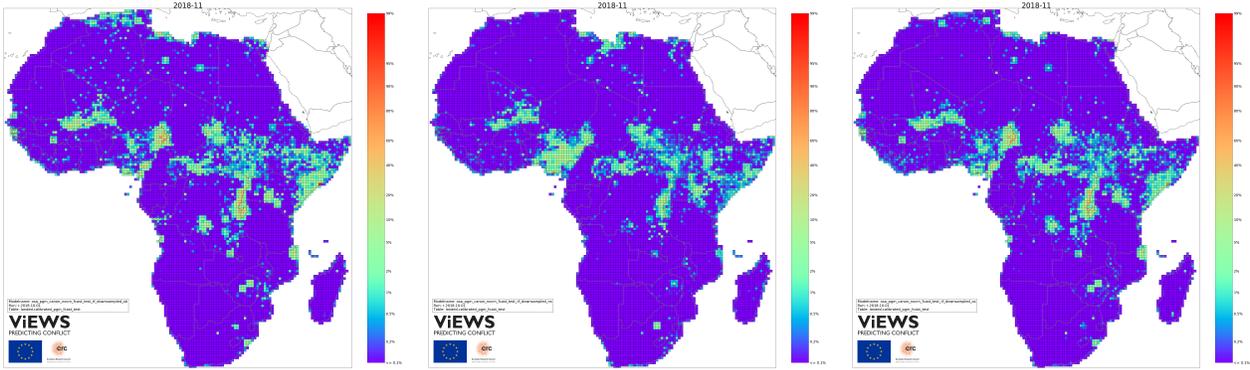
4.11.5 ns_eval

Dep. Variable:		ged_dummy_ns	No. Observations:		322003	
Model:		Logit	Df Residuals:		321963	
Method:		MLE	Df Model:		39	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.4358	
Time:		02:24:06	Log-Likelihood:		-9778.5	
converged:		True	LL-Null:		-17330.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.4337	0.119	3.640	0.000	0.200	0.667
l3_ged_dummy_ns	0.3804	0.124	3.065	0.002	0.137	0.624
l4_ged_dummy_ns	0.4117	0.124	3.324	0.001	0.169	0.655
l5_ged_dummy_ns	-0.0758	0.128	-0.593	0.553	-0.326	0.175
l6_ged_dummy_ns	0.1542	0.130	1.185	0.236	-0.101	0.409
l7_ged_dummy_ns	0.2974	0.135	2.202	0.028	0.033	0.562
l8_ged_dummy_ns	0.5670	0.136	4.181	0.000	0.301	0.833
l9_ged_dummy_ns	0.2753	0.135	2.045	0.041	0.011	0.539
l10_ged_dummy_ns	0.3749	0.145	2.578	0.010	0.090	0.660
l11_ged_dummy_ns	0.3099	0.139	2.233	0.026	0.038	0.582
l12_ged_dummy_ns	0.4098	0.146	2.816	0.005	0.125	0.695
q_1_1_l2_ged_dummy_ns	0.3934	0.071	5.518	0.000	0.254	0.533
q_1_1_l3_ged_dummy_ns	0.3568	0.070	5.101	0.000	0.220	0.494
l1_ged_dummy_sb	0.4031	0.192	2.096	0.036	0.026	0.780
l1_ged_dummy_ns	0.5585	0.122	4.577	0.000	0.319	0.798
l1_ged_dummy_os	0.7548	0.174	4.345	0.000	0.414	1.095
decay_l2_cw_ged_dummy_sb_0	-0.1790	0.143	-1.252	0.210	-0.459	0.101
decay_l2_cw_ged_dummy_ns_0	3.6315	0.116	31.229	0.000	3.404	3.859
decay_l2_cw_ged_dummy_os_0	0.5973	0.133	4.486	0.000	0.336	0.858
q_1_1_l1_ged_dummy_sb	-0.0198	0.072	-0.277	0.782	-0.160	0.121
q_1_1_l1_ged_dummy_ns	0.6263	0.066	9.540	0.000	0.498	0.755
q_1_1_l1_ged_dummy_os	0.2116	0.066	3.222	0.001	0.083	0.340
ln_dist_diamsec	0.3988	0.044	8.981	0.000	0.312	0.486
ln_dist_petroleum	0.9880	0.062	15.916	0.000	0.866	1.110
agri_ih_li	0.0127	0.002	5.940	0.000	0.008	0.017
barren_ih_li	0.0006	0.002	0.299	0.765	-0.004	0.005
forest_ih_li	0.0051	0.002	2.538	0.011	0.001	0.009
mountains_mean	-0.2340	0.083	-2.824	0.005	-0.396	-0.072
savanna_ih_li	0.0039	0.002	1.951	0.051	-1.82e-05	0.008
shrub_ih_li	0.0266	0.002	12.057	0.000	0.022	0.031
pasture_ih_li	0.0138	0.002	8.081	0.000	0.010	0.017
urban_ih_li	0.0712	0.020	3.523	0.000	0.032	0.111
ln_bdist3	-0.1176	0.019	-6.106	0.000	-0.155	-0.080
ln_ttime	0.2415	0.047	5.090	0.000	0.149	0.335
ln_capdist	0.2427	0.030	8.111	0.000	0.184	0.301
ln_pop	0.5116	0.026	19.623	0.000	0.460	0.563
gcp_li_mer	0.1126	0.033	3.439	0.001	0.048	0.177
imr_mean	5.171e-05	7.69e-05	0.672	0.502	-9.91e-05	0.000
excluded_dummy_li	0.3060	0.048	6.417	0.000	0.213	0.399
Intercept	-17.7682	0.548	-32.403	0.000	-18.843	-16.693

4.11.6 os_eval

Dep. Variable:		ged_dummy_os	No. Observations:		324783	
Model:		Logit	Df Residuals:		324743	
Method:		MLE	Df Model:		39	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.4555	
Time:		02:21:26	Log-Likelihood:		-16614.	
converged:		True	LL-Null:		-30514.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	0.1483	0.080	1.862	0.063	-0.008	0.304
l3_ged_dummy_os	-0.0219	0.081	-0.270	0.787	-0.181	0.137
l4_ged_dummy_os	0.0938	0.081	1.152	0.249	-0.066	0.253
l5_ged_dummy_os	0.1207	0.082	1.471	0.141	-0.040	0.282
l6_ged_dummy_os	0.1825	0.083	2.196	0.028	0.020	0.345
l7_ged_dummy_os	0.1237	0.087	1.423	0.155	-0.047	0.294
l8_ged_dummy_os	0.0992	0.088	1.129	0.259	-0.073	0.271
l9_ged_dummy_os	0.1111	0.088	1.256	0.209	-0.062	0.284
l10_ged_dummy_os	0.0413	0.090	0.459	0.646	-0.135	0.218
l11_ged_dummy_os	0.4004	0.088	4.551	0.000	0.228	0.573
l12_ged_dummy_os	0.1880	0.091	2.069	0.039	0.010	0.366
q_1_1_l2_ged_dummy_os	0.2285	0.039	5.841	0.000	0.152	0.305
q_1_1_l3_ged_dummy_os	0.1772	0.038	4.682	0.000	0.103	0.251
l1_ged_dummy_sb	0.3721	0.093	4.001	0.000	0.190	0.554
l1_ged_dummy_ns	0.9892	0.175	5.669	0.000	0.647	1.331
l1_ged_dummy_os	0.1566	0.082	1.907	0.057	-0.004	0.318
decay_l2_cw_ged_dummy_sb_0	1.4797	0.077	19.263	0.000	1.329	1.630
decay_l2_cw_ged_dummy_ns_0	-0.1616	0.101	-1.605	0.108	-0.359	0.036
decay_l2_cw_ged_dummy_os_0	3.2420	0.084	38.489	0.000	3.077	3.407
q_1_1_l1_ged_dummy_sb	0.2325	0.036	6.401	0.000	0.161	0.304
q_1_1_l1_ged_dummy_ns	0.2490	0.062	4.036	0.000	0.128	0.370
q_1_1_l1_ged_dummy_os	0.5068	0.038	13.402	0.000	0.433	0.581
ln_dist_diamsec	-0.2472	0.030	-8.116	0.000	-0.307	-0.187
ln_dist_petroleum	0.3350	0.034	9.811	0.000	0.268	0.402
agri_ih_li	0.0025	0.002	1.617	0.106	-0.001	0.005
barren_ih_li	-0.0066	0.002	-4.225	0.000	-0.010	-0.004
forest_ih_li	0.0021	0.001	1.747	0.081	-0.000	0.004
mountains_mean	-0.0252	0.061	-0.410	0.682	-0.146	0.095
savanna_ih_li	0.0037	0.001	3.201	0.001	0.001	0.006
shrub_ih_li	0.0025	0.002	1.286	0.199	-0.001	0.006
pasture_ih_li	0.0021	0.001	1.906	0.057	-5.95e-05	0.004
urban_ih_li	0.0941	0.014	6.638	0.000	0.066	0.122
ln_bdist3	-0.0756	0.014	-5.300	0.000	-0.104	-0.048
ln_ttime	-0.2358	0.036	-6.500	0.000	-0.307	-0.165
ln_capdist	0.1569	0.019	8.164	0.000	0.119	0.195
ln_pop	0.3032	0.019	16.299	0.000	0.267	0.340
gcp_li_mer	0.0679	0.023	2.902	0.004	0.022	0.114
imr_mean	0.0005	5.6e-05	8.801	0.000	0.000	0.001
excluded_dummy_li	0.4627	0.035	13.249	0.000	0.394	0.531
Intercept	-8.6992	0.380	-22.870	0.000	-9.445	-7.954

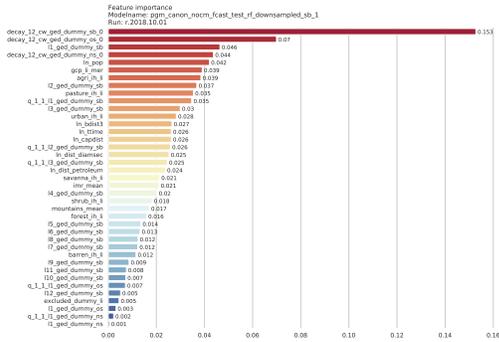
4.12 osa_pgm_canon_nocm_rf



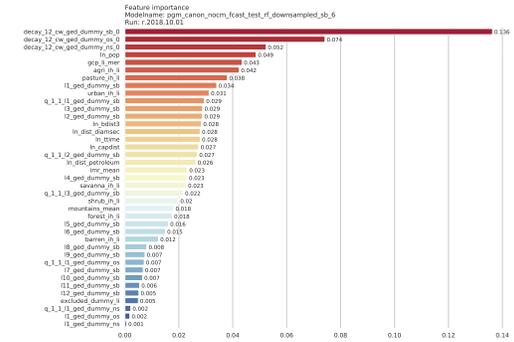
(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 43: Forecasts for October 2018

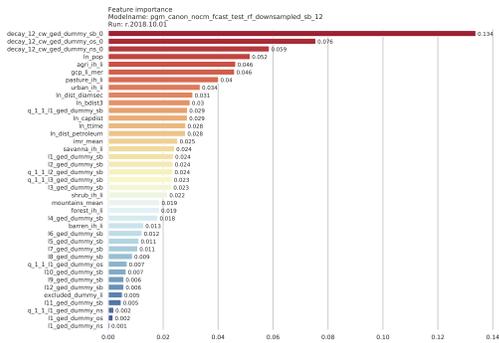
4.12.1 sb_fcast



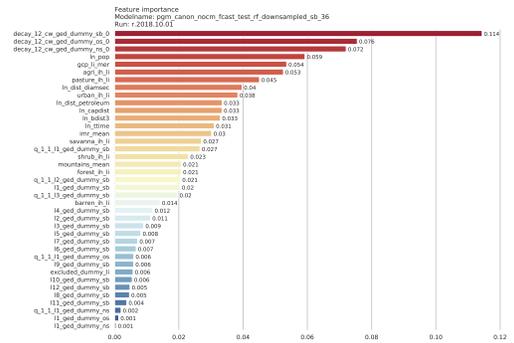
(a) 1 month



(b) 6 months

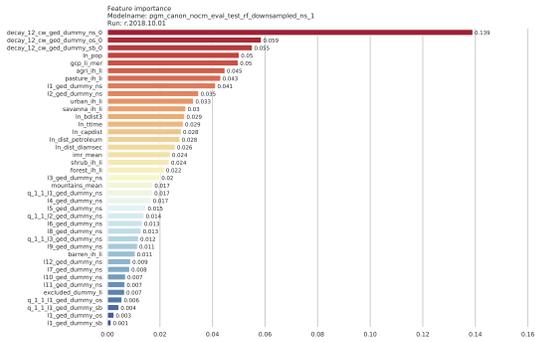


(c) 12 months

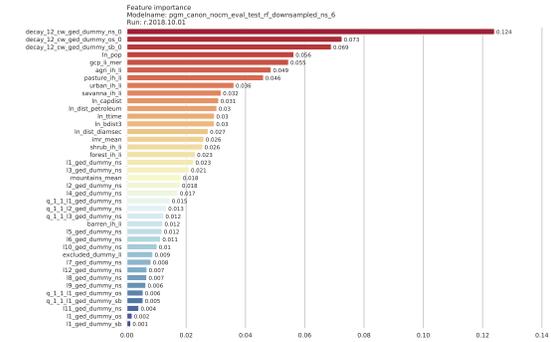


(d) 36 months

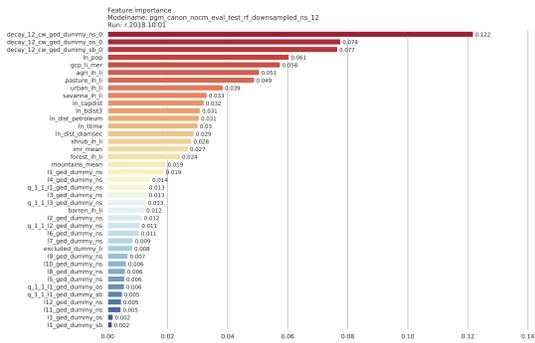
4.12.2 ns_fcst



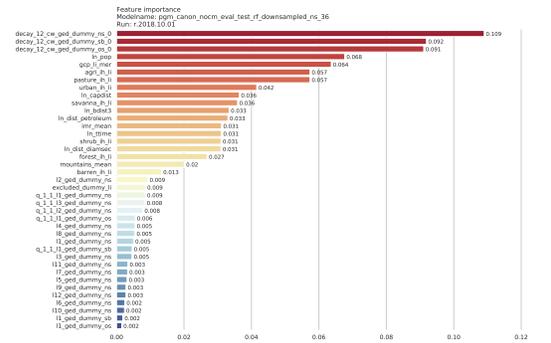
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months

4.12.6 os_eval

4.13.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	284857
Model:	Logit	Df Residuals:	284801
Method:	MLE	Df Model:	55
Date:	Fri, 05 Oct 2018	Pseudo R-squ.:	0.5032
Time:	01:09:02	Log-Likelihood:	-20268.
converged:	True	LL-Null:	-40794.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	-0.0137	0.063	-0.218	0.828	-0.137	0.110
l3_ged_dummy_sb	0.0367	0.063	0.582	0.560	-0.087	0.160
l4_ged_dummy_sb	0.0714	0.063	1.140	0.254	-0.051	0.194
l5_ged_dummy_sb	0.0208	0.065	0.322	0.747	-0.106	0.147
l6_ged_dummy_sb	0.1119	0.064	1.752	0.080	-0.013	0.237
l7_ged_dummy_sb	0.1367	0.065	2.102	0.036	0.009	0.264
l8_ged_dummy_sb	0.1830	0.065	2.827	0.005	0.056	0.310
l9_ged_dummy_sb	0.1638	0.065	2.502	0.012	0.035	0.292
l10_ged_dummy_sb	0.2051	0.066	3.101	0.002	0.075	0.335
l11_ged_dummy_sb	0.2280	0.067	3.409	0.001	0.097	0.359
l12_ged_dummy_sb	0.1153	0.068	1.702	0.089	-0.017	0.248
q_1_1_l2_ged_dummy_sb	0.2057	0.030	6.918	0.000	0.147	0.264
q_1_1_l3_ged_dummy_sb	0.2077	0.029	7.126	0.000	0.151	0.265
l1_ged_dummy_sb	-0.0590	0.064	-0.924	0.356	-0.184	0.066
l1_ged_dummy_ns	0.0586	0.197	0.297	0.766	-0.328	0.445
l1_ged_dummy_os	0.0615	0.095	0.646	0.518	-0.125	0.248
l1_acled_dummy_pr	-0.0898	0.100	-0.895	0.371	-0.287	0.107
decay_l2_cw_ged_dummy_sb_0	3.4858	0.065	53.895	0.000	3.359	3.613
decay_l2_cw_ged_dummy_ns_0	0.5903	0.107	5.519	0.000	0.381	0.800
decay_l2_cw_ged_dummy_os_0	1.2828	0.069	18.492	0.000	1.147	1.419
decay_l2_cw_acled_dummy_pr_0	0.6794	0.072	9.391	0.000	0.538	0.821
q_1_1_l1_ged_dummy_sb	0.3959	0.030	13.377	0.000	0.338	0.454
q_1_1_l1_ged_dummy_ns	0.1396	0.076	1.837	0.066	-0.009	0.288
q_1_1_l1_ged_dummy_os	0.2130	0.036	5.986	0.000	0.143	0.283
q_1_1_l1_acled_dummy_pr	-0.0986	0.035	-2.793	0.005	-0.168	-0.029
ln_dist_diamsec	0.3898	0.031	12.400	0.000	0.328	0.451
ln_dist_petroleum	0.0469	0.035	1.323	0.186	-0.023	0.116
agri_ih_li	-0.0018	0.001	-1.227	0.220	-0.005	0.001
barren_ih_li	-0.0070	0.001	-5.887	0.000	-0.009	-0.005
forest_ih_li	-0.0013	0.001	-1.090	0.276	-0.004	0.001
mountains_mean	0.0148	0.056	0.264	0.792	-0.095	0.124
savanna_ih_li	0.0005	0.001	0.461	0.645	-0.002	0.003
shrub_ih_li	0.0126	0.001	8.996	0.000	0.010	0.015
pasture_ih_li	0.0005	0.001	0.520	0.603	-0.001	0.002
urban_ih_li	0.0289	0.016	1.851	0.064	-0.002	0.060
ln_bdist3	-0.1187	0.013	-8.844	0.000	-0.145	-0.092
ln_ttime	-0.1523	0.030	-4.995	0.000	-0.212	-0.093
ln_capdist	0.0745	0.023	3.193	0.001	0.029	0.120
ln_pop	0.1636	0.017	9.754	0.000	0.131	0.196
gcp_li_mer	0.1109	0.020	5.461	0.000	0.071	0.151
imr_mean	0.0005	6.07e-05	8.472	0.000	0.000	0.001
excluded_dummy_li	0.1198	0.034	3.569	0.000	0.054	0.186
fvp_lngdpcap_nonoilrent	-0.2338	0.035	-6.601	0.000	-0.303	-0.164
fvp_lngdpcap_oilrent	0.1051	0.008	12.733	0.000	0.089	0.121
fvp_grgdpcap_oilrent	-0.1180	0.034	-3.510	0.000	-0.184	-0.052
fvp_grgdpcap_nonoilrent	-0.3036	0.101	-3.006	0.003	-0.502	-0.106
ln_fvp_timeindep	0.1827	0.052	3.513	0.000	0.081	0.285
ln_fvp_timesincepreindepwar	-0.0400	0.042	-0.956	0.339	-0.122	0.042
ln_fvp_timesinceregimechange	-0.1104	0.020	-5.388	0.000	-0.151	-0.070
fvp_demo	-0.8117	0.061	-13.325	0.000	-0.931	-0.692
fvp_semi	-0.3084	0.048	-6.416	0.000	-0.403	-0.214
fvp_prop_excluded	0.3049	0.066	4.633	0.000	0.176	0.434
ln_fvp_population200	0.0175	0.022	0.784	0.433	-0.026	0.061
ssp2_edu_sec_15_24_prop	-0.0613	0.130	-0.473	0.636	-0.315	0.193
ssp2_urban_share_iiasa	-0.0010	0.002	-0.632	0.528	-0.004	0.002
Intercept	-5.3484	0.458	-11.666	0.000	-6.247	-4.450

4.13.2 ns_fcast

Dep. Variable:	ged_dummy_ns	No. Observations:	279297
Model:	Logit	Df Residuals:	279241
Method:	MLE	Df Model:	55
Date:	Fri, 05 Oct 2018	Pseudo R-squ.:	0.3917
Time:	01:02:42	Log-Likelihood:	-10281.
converged:	True	LL-Null:	-16901.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.2396	0.111	2.162	0.031	0.022	0.457
l3_ged_dummy_ns	0.0881	0.112	0.785	0.432	-0.132	0.308
l4_ged_dummy_ns	0.1662	0.113	1.477	0.140	-0.054	0.387
l5_ged_dummy_ns	0.1476	0.118	1.246	0.213	-0.085	0.380
l6_ged_dummy_ns	0.1032	0.120	0.857	0.392	-0.133	0.339
l7_ged_dummy_ns	0.2076	0.124	1.679	0.093	-0.035	0.450
l8_ged_dummy_ns	0.2200	0.124	1.772	0.076	-0.023	0.463
l9_ged_dummy_ns	0.3621	0.124	2.910	0.004	0.118	0.606
l10_ged_dummy_ns	0.1408	0.134	1.047	0.295	-0.123	0.404
l11_ged_dummy_ns	0.4103	0.128	3.198	0.001	0.159	0.662
l12_ged_dummy_ns	0.4642	0.132	3.509	0.000	0.205	0.723
q_1_1_l2_ged_dummy_ns	0.4017	0.062	6.475	0.000	0.280	0.523
q_1_1_l3_ged_dummy_ns	0.2663	0.065	4.071	0.000	0.138	0.394
l1_ged_dummy_sb	-0.0545	0.165	-0.329	0.742	-0.379	0.270
l1_ged_dummy_ns	0.1996	0.112	1.780	0.075	-0.020	0.419
l1_ged_dummy_os	0.1740	0.157	1.106	0.269	-0.134	0.482
l1_aced_dummy_pr	-0.1539	0.117	-1.311	0.190	-0.384	0.076
decay_12_cw_ged_dummy_sb_0	0.4651	0.123	3.766	0.000	0.223	0.707
decay_12_cw_ged_dummy_ns_0	3.6539	0.107	34.133	0.000	3.444	3.864
decay_12_cw_ged_dummy_os_0	0.9603	0.121	7.926	0.000	0.723	1.198
decay_12_cw_aced_dummy_pr_0	0.9128	0.094	9.705	0.000	0.728	1.097
q_1_1_l1_ged_dummy_sb	-0.1693	0.062	-2.725	0.006	-0.291	-0.048
q_1_1_l1_ged_dummy_ns	0.7299	0.059	12.415	0.000	0.615	0.845
q_1_1_l1_ged_dummy_os	0.1501	0.062	2.436	0.015	0.029	0.271
q_1_1_l1_aced_dummy_pr	0.0760	0.039	1.950	0.051	-0.000	0.152
ln_dist_diamsec	0.5296	0.051	10.457	0.000	0.430	0.629
ln_dist_petroleum	0.7351	0.067	11.031	0.000	0.604	0.866
agri_ih_li	0.0088	0.002	4.001	0.000	0.004	0.013
barren_ih_li	-0.0042	0.002	-2.088	0.037	-0.008	-0.000
forest_ih_li	-0.0019	0.002	-0.926	0.354	-0.006	0.002
mountains_mean	-0.1960	0.088	-2.227	0.026	-0.369	-0.024
savanna_ih_li	0.0098	0.002	5.143	0.000	0.006	0.014
shrub_ih_li	0.0246	0.002	11.030	0.000	0.020	0.029
pasture_ih_li	0.0071	0.002	4.008	0.000	0.004	0.011
urban_ih_li	0.0542	0.020	2.740	0.006	0.015	0.093
ln_bdist3	-0.0834	0.020	-4.147	0.000	-0.123	-0.044
ln_ttime	0.0968	0.047	2.044	0.041	0.004	0.190
ln_capdist	0.1051	0.035	3.018	0.003	0.037	0.173
ln_pop	0.2053	0.025	8.075	0.000	0.155	0.255
gcp_li_mer	0.0567	0.032	1.789	0.074	-0.005	0.119
imr_mean	-1.8e-07	9.51e-05	-0.002	0.998	-0.000	0.000
excluded_dummy_li	0.2159	0.049	4.388	0.000	0.119	0.312
fvp_lngdpcap_nonoilrent	-0.1628	0.051	-3.201	0.001	-0.262	-0.063
fvp_lngdpcap_oilrent	0.0930	0.012	7.572	0.000	0.069	0.117
fvp_grgdpcap_oilrent	-0.2186	0.052	-4.222	0.000	-0.320	-0.117
fvp_grgdpcap_nonoilrent	-0.2294	0.149	-1.537	0.124	-0.522	0.063
ln_fvp_timeindep	-0.3790	0.082	-4.628	0.000	-0.539	-0.218
ln_fvp_timesincepreindepwar	0.5700	0.069	8.205	0.000	0.434	0.706
ln_fvp_timesinceregimechange	-0.2110	0.028	-7.470	0.000	-0.266	-0.156
fvp_demo	-0.5820	0.084	-6.962	0.000	-0.746	-0.418
fvp_semi	-0.2725	0.074	-3.673	0.000	-0.418	-0.127
fvp_prop_excluded	-0.9281	0.118	-7.871	0.000	-1.159	-0.697
ln_fvp_population200	0.1107	0.035	3.200	0.001	0.043	0.179
ssp2_edu_sec_15_24_prop	0.8801	0.175	5.017	0.000	0.536	1.224
ssp2_urban_share_iiasa	0.0016	0.002	0.690	0.490	-0.003	0.006
Intercept	-12.4170	0.711	-17.461	0.000	-13.811	-11.023

4.13.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	282023
Model:	Logit	Df Residuals:	281967
Method:	MLE	Df Model:	55
Date:	Fri, 05 Oct 2018	Pseudo R-squ.:	0.4855
Time:	00:59:59	Log-Likelihood:	-15135.
converged:	True	LL-Null:	-29415.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	0.2306	0.080	2.899	0.004	0.075	0.387
l3_ged_dummy_os	-0.0931	0.079	-1.180	0.238	-0.248	0.062
l4_ged_dummy_os	-0.0192	0.079	-0.242	0.808	-0.175	0.136
l5_ged_dummy_os	0.0327	0.079	0.413	0.679	-0.122	0.188
l6_ged_dummy_os	0.1953	0.081	2.425	0.015	0.037	0.353
l7_ged_dummy_os	0.0295	0.084	0.351	0.726	-0.135	0.194
l8_ged_dummy_os	0.0253	0.084	0.302	0.762	-0.139	0.189
l9_ged_dummy_os	0.1346	0.086	1.569	0.117	-0.034	0.303
l10_ged_dummy_os	0.1767	0.087	2.029	0.042	0.006	0.347
l11_ged_dummy_os	0.1206	0.084	1.435	0.151	-0.044	0.285
l12_ged_dummy_os	0.0244	0.088	0.277	0.782	-0.149	0.197
q_1_1_l2_ged_dummy_os	0.2226	0.037	6.034	0.000	0.150	0.295
q_1_1_l3_ged_dummy_os	0.1812	0.036	5.027	0.000	0.111	0.252
l1_ged_dummy_sb	0.0294	0.087	0.339	0.735	-0.141	0.200
l1_ged_dummy_ns	0.1676	0.180	0.929	0.353	-0.186	0.521
l1_ged_dummy_os	0.0743	0.081	0.920	0.358	-0.084	0.233
l1_acled_dummy_pr	-0.0228	0.099	-0.231	0.817	-0.216	0.170
decay_l2_cw_ged_dummy_sb_0	1.7176	0.072	23.707	0.000	1.576	1.860
decay_l2_cw_ged_dummy_ns_0	0.8739	0.105	8.339	0.000	0.668	1.079
decay_l2_cw_ged_dummy_os_0	2.8727	0.081	35.270	0.000	2.713	3.032
decay_l2_cw_acled_dummy_pr_0	1.0081	0.077	13.100	0.000	0.857	1.159
q_1_1_l1_ged_dummy_sb	0.0826	0.034	2.451	0.014	0.017	0.149
q_1_1_l1_ged_dummy_ns	0.2312	0.070	3.284	0.001	0.093	0.369
q_1_1_l1_ged_dummy_os	0.4234	0.037	11.451	0.000	0.351	0.496
q_1_1_l1_acled_dummy_pr	-0.0168	0.035	-0.475	0.635	-0.086	0.052
ln_dist_diamsec	-0.0373	0.036	-1.030	0.303	-0.108	0.034
ln_dist_petroleum	0.4236	0.045	9.426	0.000	0.336	0.512
agri_ih_li	0.0048	0.002	2.943	0.003	0.002	0.008
barren_ih_li	-0.0095	0.002	-5.965	0.000	-0.013	-0.006
forest_ih_li	0.0017	0.001	1.372	0.170	-0.001	0.004
mountains_mean	-0.1864	0.069	-2.703	0.007	-0.322	-0.051
savanna_ih_li	0.0100	0.001	8.271	0.000	0.008	0.012
shrub_ih_li	0.0051	0.002	2.372	0.018	0.001	0.009
pasture_ih_li	-0.0022	0.001	-1.856	0.063	-0.005	0.000
urban_ih_li	0.0313	0.016	1.907	0.057	-0.001	0.064
ln_bdist3	-0.1057	0.016	-6.657	0.000	-0.137	-0.075
ln_ttime	-0.1793	0.038	-4.690	0.000	-0.254	-0.104
ln_capdist	0.1151	0.026	4.424	0.000	0.064	0.166
ln_pop	0.2136	0.021	10.027	0.000	0.172	0.255
gcp_li_mer	0.1611	0.023	7.124	0.000	0.117	0.205
imr_mean	0.0003	7.16e-05	4.370	0.000	0.000	0.000
excluded_dummy_li	0.1463	0.040	3.694	0.000	0.069	0.224
fvp_lngdpcap_nonoilrent	-0.3645	0.041	-8.907	0.000	-0.445	-0.284
fvp_lngdpcap_oilrent	0.1012	0.010	10.110	0.000	0.082	0.121
fvp_grgdpcap_oilrent	-0.1352	0.040	-3.343	0.001	-0.214	-0.056
fvp_grgdpcap_nonoilrent	-0.2568	0.107	-2.390	0.017	-0.467	-0.046
ln_fvp_timeindep	-0.0674	0.062	-1.078	0.281	-0.190	0.055
ln_fvp_timesincepreindepwar	0.1336	0.050	2.661	0.008	0.035	0.232
ln_fvp_timesinceregimechange	-0.1599	0.023	-6.893	0.000	-0.205	-0.114
fvp_demo	-1.1584	0.069	-16.726	0.000	-1.294	-1.023
fvp_semi	-0.5028	0.056	-8.992	0.000	-0.612	-0.393
fvp_prop_excluded	0.0639	0.074	0.861	0.389	-0.082	0.209
ln_fvp_population200	0.0362	0.027	1.322	0.186	-0.017	0.090
ssp2_edu_sec_15_24_prop	0.3434	0.149	2.304	0.021	0.051	0.636
ssp2_urban_share_iiasa	0.0004	0.002	0.212	0.832	-0.003	0.004
Intercept	-5.1157	0.544	-9.412	0.000	-6.181	-4.050

4.13.4 pr_fcast

Dep. Variable:	acled_dummy_pr	No. Observations:	296508
Model:	Logit	Df Residuals:	296452
Method:	MLE	Df Model:	55
Date:	Fri, 05 Oct 2018	Pseudo R-squ.:	0.5621
Time:	01:01:48	Log-Likelihood:	-34543.
converged:	True	LL-Null:	-78874.

	coef	std err	z	P> z	[0.025	0.975]
l2_acled_dummy_pr	-0.0327	0.041	-0.800	0.424	-0.113	0.047
l3_acled_dummy_pr	0.1820	0.041	4.397	0.000	0.101	0.263
l4_acled_dummy_pr	0.1174	0.041	2.841	0.004	0.036	0.198
l5_acled_dummy_pr	0.1569	0.041	3.795	0.000	0.076	0.238
l6_acled_dummy_pr	0.2102	0.041	5.086	0.000	0.129	0.291
l7_acled_dummy_pr	0.2826	0.042	6.787	0.000	0.201	0.364
l8_acled_dummy_pr	0.3156	0.042	7.433	0.000	0.232	0.399
l9_acled_dummy_pr	0.2732	0.043	6.355	0.000	0.189	0.357
l10_acled_dummy_pr	0.2823	0.043	6.612	0.000	0.199	0.366
l11_acled_dummy_pr	0.4719	0.043	10.919	0.000	0.387	0.557
l12_acled_dummy_pr	0.3018	0.044	6.896	0.000	0.216	0.388
q_1_1_l2_acled_dummy_pr	0.0852	0.020	4.291	0.000	0.046	0.124
q_1_1_l3_acled_dummy_pr	0.0359	0.020	1.839	0.066	-0.002	0.074
l1_ged_dummy_sb	-0.2161	0.108	-2.005	0.045	-0.427	-0.005
l1_ged_dummy_ns	-0.1405	0.157	-0.896	0.370	-0.448	0.167
l1_ged_dummy_os	0.0689	0.124	0.555	0.579	-0.174	0.312
l1_acled_dummy_pr	0.0160	0.041	0.387	0.699	-0.065	0.097
decay_l2_cw_ged_dummy_sb_0	0.6510	0.074	8.801	0.000	0.506	0.796
decay_l2_cw_ged_dummy_ns_0	0.7334	0.087	8.391	0.000	0.562	0.905
decay_l2_cw_ged_dummy_os_0	0.3441	0.079	4.381	0.000	0.190	0.498
decay_l2_cw_acled_dummy_pr_0	3.1407	0.044	72.115	0.000	3.055	3.226
q_1_1_l1_ged_dummy_sb	-0.2137	0.041	-5.233	0.000	-0.294	-0.134
q_1_1_l1_ged_dummy_ns	-0.0192	0.059	-0.323	0.747	-0.136	0.097
q_1_1_l1_ged_dummy_os	0.0033	0.044	0.074	0.941	-0.083	0.090
q_1_1_l1_acled_dummy_pr	0.1661	0.019	8.723	0.000	0.129	0.203
ln_dist_diamsec	0.1736	0.021	8.347	0.000	0.133	0.214
ln_dist_petroleum	0.1525	0.026	5.821	0.000	0.101	0.204
agri_ih_li	0.0007	0.001	0.756	0.450	-0.001	0.002
barren_ih_li	0.0012	0.001	1.439	0.150	-0.000	0.003
forest_ih_li	0.0009	0.001	0.950	0.342	-0.001	0.003
mountains_mean	0.0590	0.040	1.484	0.138	-0.019	0.137
savanna_ih_li	0.0013	0.001	1.485	0.137	-0.000	0.003
shrub_ih_li	0.0058	0.001	4.862	0.000	0.003	0.008
pasture_ih_li	0.0030	0.001	4.054	0.000	0.002	0.004
urban_ih_li	0.0778	0.009	8.579	0.000	0.060	0.096
ln_bdist3	-0.0915	0.010	-9.245	0.000	-0.111	-0.072
ln_ttime	-0.5005	0.022	-23.200	0.000	-0.543	-0.458
ln_capdist	-0.0486	0.014	-3.391	0.001	-0.077	-0.021
ln_pop	0.3155	0.011	27.732	0.000	0.293	0.338
gcp_li_mer	-0.1167	0.013	-9.265	0.000	-0.141	-0.092
imr_mean	0.0003	4.63e-05	6.797	0.000	0.000	0.000
excluded_dummy_li	0.0009	0.026	0.034	0.973	-0.050	0.052
fvp_lngdpcap_nonoilrent	-0.1078	0.024	-4.573	0.000	-0.154	-0.062
fvp_lngdpcap_oilrent	-0.0151	0.005	-2.790	0.005	-0.026	-0.004
fvp_grgdpcap_oilrent	-0.3366	0.027	-12.620	0.000	-0.389	-0.284
fvp_grgdpcap_nonoilrent	-0.1303	0.070	-1.869	0.062	-0.267	0.006
ln_fvp_timeindep	0.5406	0.037	14.646	0.000	0.468	0.613
ln_fvp_timesincepreindepwar	-0.1456	0.033	-4.471	0.000	-0.209	-0.082
ln_fvp_timesinceregimechange	0.0030	0.013	0.226	0.821	-0.023	0.029
fvp_demo	0.0172	0.044	0.393	0.694	-0.069	0.103
fvp_semi	-0.2176	0.038	-5.660	0.000	-0.293	-0.142
fvp_prop_excluded	0.4950	0.060	8.245	0.000	0.377	0.613
ln_fvp_population200	-0.1623	0.014	-11.211	0.000	-0.191	-0.134
ssp2_edu_sec_15_24_prop	2.0330	0.083	24.627	0.000	1.871	2.195
ssp2_urban_share_iiasa	-0.0018	0.001	-1.534	0.125	-0.004	0.000
Intercept	-4.5789	0.312	-14.693	0.000	-5.190	-3.968

4.13.5 sb_eval

Dep. Variable:	ged_dummy_sb	No. Observations:	236033
Model:	Logit	Df Residuals:	235977
Method:	MLE	Df Model:	55
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.5036
Time:	02:13:08	Log-Likelihood:	-15990.
converged:	True	LL-Null:	-32209.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	-0.0264	0.072	-0.369	0.712	-0.167	0.114
l3_ged_dummy_sb	0.0284	0.072	0.396	0.692	-0.112	0.169
l4_ged_dummy_sb	0.0077	0.071	0.109	0.913	-0.132	0.147
l5_ged_dummy_sb	0.0199	0.074	0.271	0.786	-0.124	0.164
l6_ged_dummy_sb	0.1211	0.073	1.670	0.095	-0.021	0.263
l7_ged_dummy_sb	0.1569	0.073	2.153	0.031	0.014	0.300
l8_ged_dummy_sb	0.2617	0.074	3.519	0.000	0.116	0.407
l9_ged_dummy_sb	0.1190	0.075	1.592	0.111	-0.027	0.266
l10_ged_dummy_sb	0.2999	0.075	3.993	0.000	0.153	0.447
l11_ged_dummy_sb	0.1408	0.077	1.837	0.066	-0.009	0.291
l12_ged_dummy_sb	0.1247	0.078	1.608	0.108	-0.027	0.277
q_1_1_l2_ged_dummy_sb	0.1898	0.034	5.594	0.000	0.123	0.256
q_1_1_l3_ged_dummy_sb	0.2012	0.033	6.092	0.000	0.136	0.266
l1_ged_dummy_sb	0.0489	0.072	0.675	0.499	-0.093	0.191
l1_ged_dummy_ns	-0.3319	0.258	-1.285	0.199	-0.838	0.174
l1_ged_dummy_os	-0.3152	0.110	-2.858	0.004	-0.531	-0.099
l1_acled_dummy_pr	-0.0104	0.139	-0.075	0.940	-0.283	0.262
decay_l2_cw_ged_dummy_sb_0	3.4986	0.072	48.278	0.000	3.357	3.641
decay_l2_cw_ged_dummy_ns_0	0.8154	0.125	6.497	0.000	0.569	1.061
decay_l2_cw_ged_dummy_os_0	1.6689	0.079	21.112	0.000	1.514	1.824
decay_l2_cw_acled_dummy_pr_0	0.5675	0.093	6.126	0.000	0.386	0.749
q_1_1_l1_ged_dummy_sb	0.3548	0.033	10.705	0.000	0.290	0.420
q_1_1_l1_ged_dummy_ns	-0.0562	0.103	-0.546	0.585	-0.258	0.146
q_1_1_l1_ged_dummy_os	0.2991	0.041	7.268	0.000	0.218	0.380
q_1_1_l1_acled_dummy_pr	-0.0996	0.055	-1.795	0.073	-0.208	0.009
ln_dist_diamsec	0.3544	0.036	9.845	0.000	0.284	0.425
ln_dist_petroleum	0.0398	0.041	0.977	0.329	-0.040	0.120
agri_ih_li	-0.0015	0.002	-0.906	0.365	-0.005	0.002
barren_ih_li	-0.0066	0.001	-4.834	0.000	-0.009	-0.004
forest_ih_li	-0.0016	0.001	-1.125	0.260	-0.004	0.001
mountains_mean	-0.1083	0.062	-1.733	0.083	-0.231	0.014
savanna_ih_li	-0.0008	0.001	-0.598	0.550	-0.004	0.002
shrub_ih_li	0.0135	0.002	8.351	0.000	0.010	0.017
pasture_ih_li	0.0018	0.001	1.566	0.117	-0.000	0.004
urban_ih_li	0.0431	0.020	2.205	0.027	0.005	0.081
ln_bdist3	-0.1087	0.015	-7.092	0.000	-0.139	-0.079
ln_ttime	-0.1389	0.035	-4.018	0.000	-0.207	-0.071
ln_capdist	0.0955	0.027	3.506	0.000	0.042	0.149
ln_pop	0.1737	0.019	9.057	0.000	0.136	0.211
gcp_li_mer	0.1009	0.023	4.300	0.000	0.055	0.147
imr_mean	0.0005	7.01e-05	6.519	0.000	0.000	0.001
excluded_dummy_li	0.1036	0.039	2.673	0.008	0.028	0.180
fvp_lngdpcap_nonoilrent	-0.1867	0.044	-4.251	0.000	-0.273	-0.101
fvp_lngdpcap_oilrent	0.1061	0.009	11.179	0.000	0.088	0.125
fvp_grgdpcap_oilrent	-0.1251	0.039	-3.224	0.001	-0.201	-0.049
fvp_grgdpcap_nonoilrent	-0.4998	0.119	-4.189	0.000	-0.734	-0.266
ln_fvp_timeindep	0.2665	0.059	4.499	0.000	0.150	0.383
ln_fvp_timesincepreindepwar	-0.1732	0.049	-3.568	0.000	-0.268	-0.078
ln_fvp_timesinceregimechange	-0.1814	0.027	-6.630	0.000	-0.235	-0.128
fvp_demo	-0.9607	0.073	-13.173	0.000	-1.104	-0.818
fvp_semi	-0.3949	0.056	-7.033	0.000	-0.505	-0.285
fvp_prop_excluded	0.1271	0.071	1.778	0.075	-0.013	0.267
ln_fvp_population200	0.0773	0.028	2.721	0.007	0.022	0.133
ssp2_edu_sec_15_24_prop	-0.2293	0.161	-1.429	0.153	-0.544	0.085
ssp2_urban_share_iiasa	0.0005	0.002	0.312	0.755	-0.003	0.004
Intercept	-6.0755	0.550	-11.047	0.000	-7.153	-4.998

4.13.6 ns_eval

Dep. Variable:	ged_dummy_ns	No. Observations:	231437
Model:	Logit	Df Residuals:	231381
Method:	MLE	Df Model:	55
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.3905
Time:	01:57:17	Log-Likelihood:	-7266.9
converged:	True	LL-Null:	-11923.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.3723	0.136	2.732	0.006	0.105	0.639
l3_ged_dummy_ns	0.0258	0.135	0.192	0.848	-0.238	0.290
l4_ged_dummy_ns	0.1942	0.137	1.421	0.155	-0.074	0.462
l5_ged_dummy_ns	-0.0371	0.139	-0.266	0.790	-0.310	0.236
l6_ged_dummy_ns	0.1321	0.148	0.894	0.371	-0.158	0.422
l7_ged_dummy_ns	0.1263	0.153	0.825	0.409	-0.174	0.426
l8_ged_dummy_ns	0.1349	0.147	0.920	0.357	-0.152	0.422
l9_ged_dummy_ns	0.4688	0.152	3.076	0.002	0.170	0.768
l10_ged_dummy_ns	0.1421	0.165	0.860	0.390	-0.182	0.466
l11_ged_dummy_ns	0.5460	0.160	3.411	0.001	0.232	0.860
l12_ged_dummy_ns	0.3387	0.157	2.158	0.031	0.031	0.646
q_1_1_l2_ged_dummy_ns	0.3999	0.083	4.835	0.000	0.238	0.562
q_1_1_l3_ged_dummy_ns	0.2234	0.083	2.677	0.007	0.060	0.387
l1_ged_dummy_sb	-0.2806	0.199	-1.410	0.159	-0.671	0.110
l1_ged_dummy_ns	0.3252	0.138	2.357	0.018	0.055	0.596
l1_ged_dummy_os	0.3669	0.187	1.966	0.049	0.001	0.733
l1_acled_dummy_pr	0.0191	0.157	0.122	0.903	-0.289	0.327
decay_l2_cw_ged_dummy_sb_0	0.7490	0.143	5.239	0.000	0.469	1.029
decay_l2_cw_ged_dummy_ns_0	3.4450	0.135	25.555	0.000	3.181	3.709
decay_l2_cw_ged_dummy_os_0	0.8998	0.142	6.355	0.000	0.622	1.177
decay_l2_cw_acled_dummy_pr_0	0.7803	0.122	6.388	0.000	0.541	1.020
q_1_1_l1_ged_dummy_sb	-0.2684	0.083	-3.234	0.001	-0.431	-0.106
q_1_1_l1_ged_dummy_ns	0.6626	0.077	8.644	0.000	0.512	0.813
q_1_1_l1_ged_dummy_os	0.1072	0.074	1.448	0.148	-0.038	0.252
q_1_1_l1_acled_dummy_pr	0.0953	0.056	1.707	0.088	-0.014	0.205
ln_dist_diamsec	0.5111	0.065	7.909	0.000	0.384	0.638
ln_dist_petroleum	1.1248	0.086	13.062	0.000	0.956	1.294
agri_ih_li	0.0139	0.003	5.115	0.000	0.009	0.019
barren_ih_li	0.0014	0.003	0.523	0.601	-0.004	0.006
forest_ih_li	0.0002	0.003	0.089	0.929	-0.005	0.005
mountains_mean	-0.1277	0.105	-1.214	0.225	-0.334	0.078
savanna_ih_li	0.0120	0.002	4.898	0.000	0.007	0.017
shrub_ih_li	0.0307	0.003	11.066	0.000	0.025	0.036
pasture_ih_li	0.0144	0.002	6.408	0.000	0.010	0.019
urban_ih_li	0.0412	0.023	1.784	0.074	-0.004	0.086
ln_bdist3	-0.1383	0.024	-5.724	0.000	-0.186	-0.091
ln_ttime	0.2805	0.057	4.897	0.000	0.168	0.393
ln_capdist	-0.0018	0.042	-0.043	0.966	-0.084	0.081
ln_pop	0.2938	0.032	9.232	0.000	0.231	0.356
gcp_li_mer	0.1632	0.036	4.559	0.000	0.093	0.233
imr_mean	0.0002	0.000	1.585	0.113	-4.38e-05	0.000
excluded_dummy_li	0.2389	0.059	4.026	0.000	0.123	0.355
fvp_lngdpcap_nonoilrent	-0.0210	0.068	-0.312	0.755	-0.153	0.111
fvp_lngdpcap_oilrent	0.0549	0.016	3.441	0.001	0.024	0.086
fvp_grgdpcap_oilrent	-0.1274	0.063	-2.010	0.044	-0.252	-0.003
fvp_grgdpcap_nonoilrent	-1.0438	0.198	-5.264	0.000	-1.432	-0.655
ln_fvp_timeindep	-0.5808	0.098	-5.943	0.000	-0.772	-0.389
ln_fvp_timesincepreindepwar	0.4969	0.084	5.936	0.000	0.333	0.661
ln_fvp_timesinceregimechange	-0.0718	0.041	-1.771	0.077	-0.151	0.008
fvp_demo	-0.6287	0.105	-6.004	0.000	-0.834	-0.423
fvp_semi	-0.1289	0.091	-1.413	0.158	-0.308	0.050
fvp_prop_excluded	-0.8739	0.136	-6.444	0.000	-1.140	-0.608
ln_fvp_population200	0.3614	0.050	7.243	0.000	0.264	0.459
ssp2_edu_sec_15_24_prop	0.8033	0.225	3.568	0.000	0.362	1.245
ssp2_urban_share_iiasa	-0.0044	0.003	-1.599	0.110	-0.010	0.001
Intercept	-17.9544	0.934	-19.229	0.000	-19.784	-16.124

4.13.7 os_eval

Dep. Variable:	ged_dummy_os	No. Observations:	233592
Model:	Logit	Df Residuals:	233536
Method:	MLE	Df Model:	55
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.4806
Time:	02:04:34	Log-Likelihood:	-11516.
converged:	True	LL-Null:	-22170.

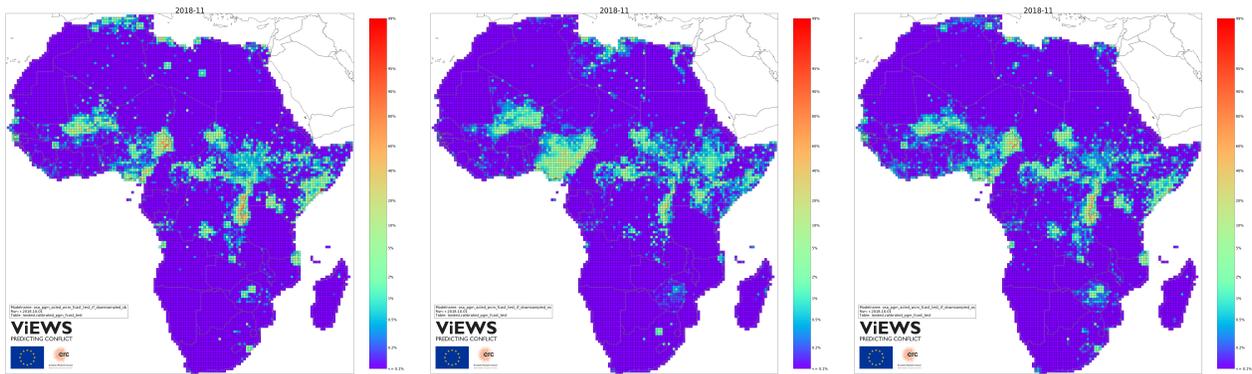
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	0.1394	0.092	1.519	0.129	-0.040	0.319
l3_ged_dummy_os	-0.0994	0.092	-1.080	0.280	-0.280	0.081
l4_ged_dummy_os	-0.1163	0.093	-1.251	0.211	-0.299	0.066
l5_ged_dummy_os	0.0374	0.094	0.400	0.689	-0.146	0.221
l6_ged_dummy_os	0.2260	0.094	2.402	0.016	0.042	0.410
l7_ged_dummy_os	0.1044	0.098	1.066	0.286	-0.088	0.296
l8_ged_dummy_os	-0.0025	0.100	-0.025	0.980	-0.199	0.194
l9_ged_dummy_os	0.1499	0.101	1.486	0.137	-0.048	0.348
l10_ged_dummy_os	0.1333	0.103	1.289	0.197	-0.069	0.336
l11_ged_dummy_os	0.4061	0.101	4.010	0.000	0.208	0.605
l12_ged_dummy_os	-0.1197	0.103	-1.157	0.247	-0.322	0.083
q_1_1_l2_ged_dummy_os	0.2099	0.043	4.858	0.000	0.125	0.295
q_1_1_l3_ged_dummy_os	0.1441	0.042	3.414	0.001	0.061	0.227
l1_ged_dummy_sb	0.1106	0.100	1.107	0.268	-0.085	0.306
l1_ged_dummy_ns	0.1362	0.224	0.608	0.543	-0.303	0.575
l1_ged_dummy_os	0.0773	0.093	0.827	0.408	-0.106	0.260
l1_acled_dummy_pr	-0.2691	0.134	-2.016	0.044	-0.531	-0.007
decay_l2_cw_ged_dummy_sb_0	1.7804	0.083	21.412	0.000	1.617	1.943
decay_l2_cw_ged_dummy_ns_0	1.0992	0.127	8.675	0.000	0.851	1.348
decay_l2_cw_ged_dummy_os_0	2.8992	0.092	31.399	0.000	2.718	3.080
decay_l2_cw_acled_dummy_pr_0	0.8471	0.099	8.577	0.000	0.654	1.041
q_1_1_l1_ged_dummy_sb	0.1347	0.039	3.482	0.000	0.059	0.211
q_1_1_l1_ged_dummy_ns	0.3227	0.096	3.374	0.001	0.135	0.510
q_1_1_l1_ged_dummy_os	0.5342	0.043	12.474	0.000	0.450	0.618
q_1_1_l1_acled_dummy_pr	-0.0293	0.055	-0.533	0.594	-0.137	0.079
ln_dist_diamsec	-0.0929	0.042	-2.189	0.029	-0.176	-0.010
ln_dist_petroleum	0.4110	0.052	7.846	0.000	0.308	0.514
agri_ih_li	0.0082	0.002	4.305	0.000	0.004	0.012
barren_ih_li	-0.0109	0.002	-5.500	0.000	-0.015	-0.007
forest_ih_li	0.0040	0.001	2.762	0.006	0.001	0.007
mountains_mean	-0.1468	0.079	-1.866	0.062	-0.301	0.007
savanna_ih_li	0.0120	0.001	8.483	0.000	0.009	0.015
shrub_ih_li	0.0067	0.003	2.577	0.010	0.002	0.012
pasture_ih_li	-0.0013	0.001	-0.910	0.363	-0.004	0.001
urban_ih_li	0.0787	0.019	4.048	0.000	0.041	0.117
ln_bdist3	-0.0829	0.018	-4.480	0.000	-0.119	-0.047
ln_ttime	-0.1669	0.045	-3.727	0.000	-0.255	-0.079
ln_capdist	0.1110	0.031	3.623	0.000	0.051	0.171
ln_pop	0.2052	0.025	8.218	0.000	0.156	0.254
gcp_li_mer	0.1908	0.026	7.217	0.000	0.139	0.243
imr_mean	0.0003	8.41e-05	3.282	0.001	0.000	0.000
excluded_dummy_li	0.1181	0.046	2.549	0.011	0.027	0.209
fvp_lngdpcap_nonoilrent	-0.3996	0.051	-7.809	0.000	-0.500	-0.299
fvp_lngdpcap_oilrent	0.1010	0.012	8.746	0.000	0.078	0.124
fvp_grgdpcap_oilrent	-0.0803	0.047	-1.692	0.091	-0.173	0.013
fvp_grgdpcap_nonoilrent	-0.6819	0.138	-4.956	0.000	-0.952	-0.412
ln_fvp_timeindep	-0.1648	0.073	-2.247	0.025	-0.309	-0.021
ln_fvp_timesincepreindepwar	0.1815	0.060	3.036	0.002	0.064	0.299
ln_fvp_timesinceregimechange	-0.1417	0.032	-4.479	0.000	-0.204	-0.080
fvp_demo	-1.1635	0.083	-14.061	0.000	-1.326	-1.001
fvp_semi	-0.4673	0.067	-6.992	0.000	-0.598	-0.336
fvp_prop_excluded	0.2076	0.082	2.540	0.011	0.047	0.368
ln_fvp_population200	0.0608	0.035	1.729	0.084	-0.008	0.130
ssp2_edu_sec_15_24_prop	0.4617	0.186	2.487	0.013	0.098	0.826
ssp2_urban_share_iiasa	0.0030	0.002	1.522	0.128	-0.001	0.007
Intercept	-5.2747	0.674	-7.822	0.000	-6.596	-3.953

4.13.8 pr_eval

Dep. Variable:	acled_dummy_pr	No. Observations:	240197
Model:	Logit	Df Residuals:	240141
Method:	MLE	Df Model:	55
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.5348
Time:	02:28:57	Log-Likelihood:	-21928.
converged:	True	LL-Null:	-47134.

	coef	std err	z	P> z	[0.025	0.975]
l2_acled_dummy_pr	0.0730	0.057	1.282	0.200	-0.039	0.185
l3_acled_dummy_pr	0.0549	0.057	0.963	0.336	-0.057	0.167
l4_acled_dummy_pr	0.1656	0.057	2.892	0.004	0.053	0.278
l5_acled_dummy_pr	0.1209	0.058	2.086	0.037	0.007	0.235
l6_acled_dummy_pr	0.1536	0.058	2.650	0.008	0.040	0.267
l7_acled_dummy_pr	0.2520	0.058	4.313	0.000	0.137	0.367
l8_acled_dummy_pr	0.3440	0.060	5.691	0.000	0.226	0.463
l9_acled_dummy_pr	0.3087	0.061	5.092	0.000	0.190	0.427
l10_acled_dummy_pr	0.4691	0.062	7.577	0.000	0.348	0.590
l11_acled_dummy_pr	0.3571	0.063	5.709	0.000	0.234	0.480
l12_acled_dummy_pr	0.3449	0.063	5.471	0.000	0.221	0.468
q_1_1_l2_acled_dummy_pr	0.1149	0.030	3.800	0.000	0.056	0.174
q_1_1_l3_acled_dummy_pr	0.0801	0.030	2.715	0.007	0.022	0.138
l1_ged_dummy_sb	-0.2596	0.134	-1.944	0.052	-0.521	0.002
l1_ged_dummy_ns	-0.3749	0.205	-1.831	0.067	-0.776	0.026
l1_ged_dummy_os	-0.1614	0.154	-1.048	0.295	-0.463	0.140
l1_acled_dummy_pr	-0.0900	0.057	-1.585	0.113	-0.201	0.021
decay_l2_cw_ged_dummy_sb_0	0.8099	0.092	8.843	0.000	0.630	0.989
decay_l2_cw_ged_dummy_ns_0	0.7091	0.109	6.479	0.000	0.495	0.924
decay_l2_cw_ged_dummy_os_0	0.4307	0.098	4.377	0.000	0.238	0.624
decay_l2_cw_acled_dummy_pr_0	3.0869	0.057	53.801	0.000	2.974	3.199
q_1_1_l1_ged_dummy_sb	-0.1900	0.051	-3.713	0.000	-0.290	-0.090
q_1_1_l1_ged_dummy_ns	0.1425	0.084	1.697	0.090	-0.022	0.307
q_1_1_l1_ged_dummy_os	0.0399	0.058	0.682	0.495	-0.075	0.155
q_1_1_l1_acled_dummy_pr	0.1802	0.029	6.324	0.000	0.124	0.236
ln_dist_diamsec	0.1507	0.027	5.667	0.000	0.099	0.203
ln_dist_petroleum	0.1954	0.033	5.877	0.000	0.130	0.261
agri_ih_li	0.0007	0.001	0.596	0.551	-0.001	0.003
barren_ih_li	0.0035	0.001	3.482	0.000	0.002	0.006
forest_ih_li	0.0011	0.001	0.942	0.346	-0.001	0.003
mountains_mean	0.0243	0.051	0.475	0.635	-0.076	0.125
savanna_ih_li	0.0015	0.001	1.419	0.156	-0.001	0.004
shrub_ih_li	0.0077	0.002	5.073	0.000	0.005	0.011
pasture_ih_li	0.0047	0.001	5.074	0.000	0.003	0.007
urban_ih_li	0.0833	0.011	7.525	0.000	0.062	0.105
ln_bdist3	-0.1276	0.013	-10.038	0.000	-0.152	-0.103
ln_ttime	-0.5610	0.028	-19.959	0.000	-0.616	-0.506
ln_capdist	-0.0791	0.018	-4.457	0.000	-0.114	-0.044
ln_pop	0.3648	0.015	24.388	0.000	0.335	0.394
gcp_li_mer	-0.1336	0.016	-8.267	0.000	-0.165	-0.102
imr_mean	0.0003	6e-05	5.684	0.000	0.000	0.000
excluded_dummy_li	0.0526	0.033	1.575	0.115	-0.013	0.118
fvp_lngdpcap_nonoilrent	-0.1062	0.034	-3.134	0.002	-0.173	-0.040
fvp_lngdpcap_oilrent	-0.0198	0.007	-2.871	0.004	-0.033	-0.006
fvp_grgdpcap_oilrent	-0.3528	0.033	-10.655	0.000	-0.418	-0.288
fvp_grgdpcap_nonoilrent	-0.3263	0.118	-2.754	0.006	-0.559	-0.094
ln_fvp_timeindep	0.3542	0.048	7.424	0.000	0.261	0.448
ln_fvp_timesincepreindepwar	-0.1359	0.043	-3.198	0.001	-0.219	-0.053
ln_fvp_timesinceregimechange	0.0791	0.021	3.689	0.000	0.037	0.121
fvp_demo	0.0245	0.057	0.429	0.668	-0.087	0.136
fvp_semi	-0.2995	0.049	-6.140	0.000	-0.395	-0.204
fvp_prop_excluded	0.3554	0.075	4.714	0.000	0.208	0.503
ln_fvp_population200	-0.1136	0.019	-5.975	0.000	-0.151	-0.076
ssp2_edu_sec_15_24_prop	2.1570	0.110	19.575	0.000	1.941	2.373
ssp2_urban_share_iiasa	-0.0020	0.001	-1.402	0.161	-0.005	0.001
Intercept	-4.8291	0.422	-11.439	0.000	-5.656	-4.002

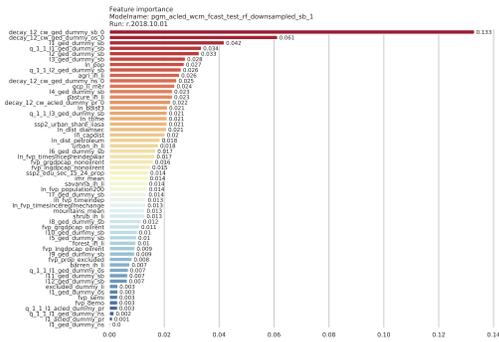
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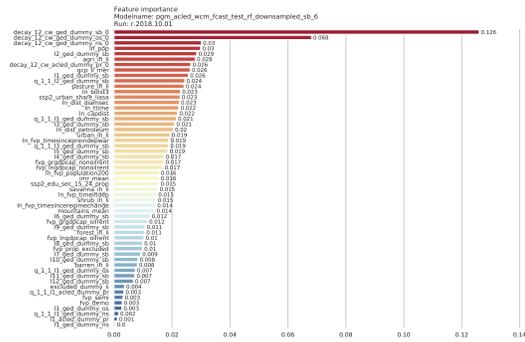
(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 51: Forecasts for October 2018

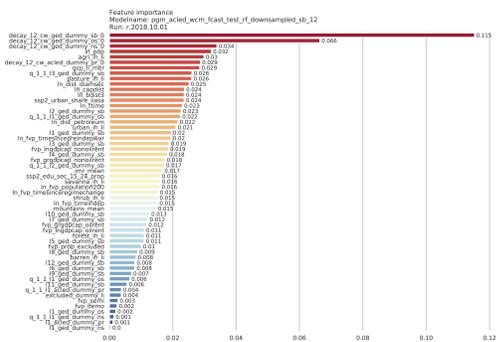
4.14.1 sb_fcst



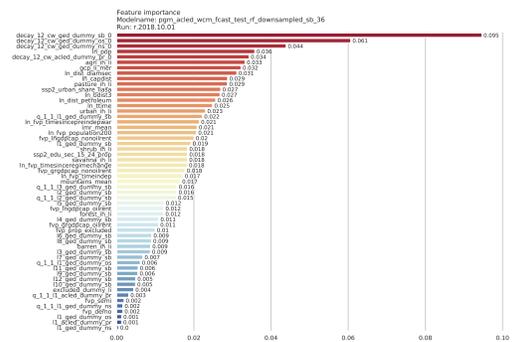
(a) 1 month



(b) 6 months

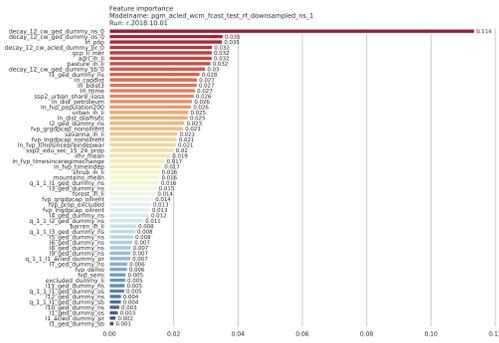


(c) 12 months

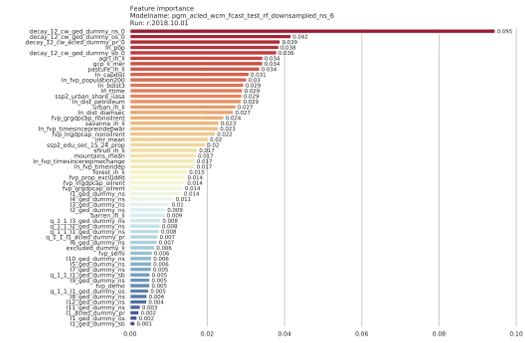


(d) 36 months

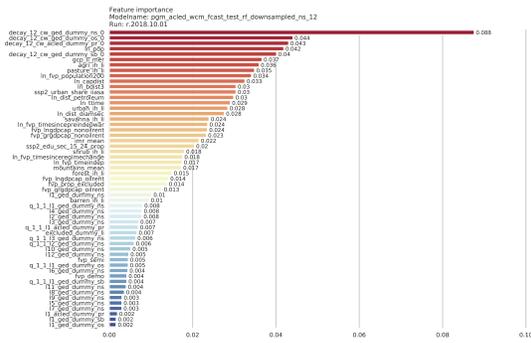
4.14.2 ns_fcst



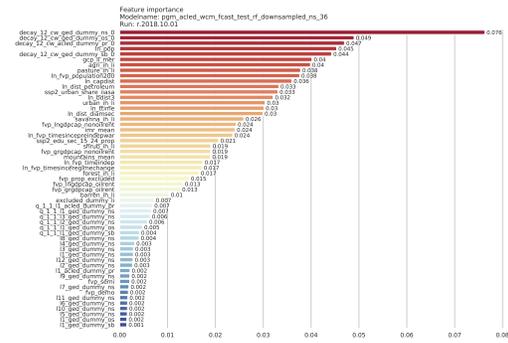
(a) 1 month



(b) 6 months

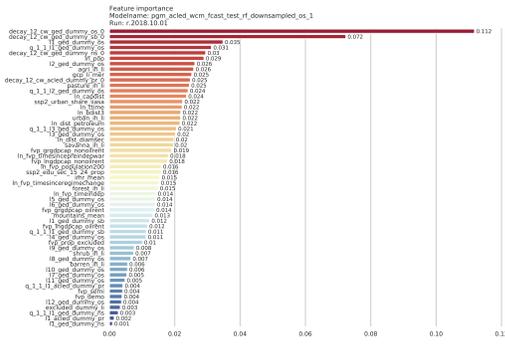


(c) 12 months

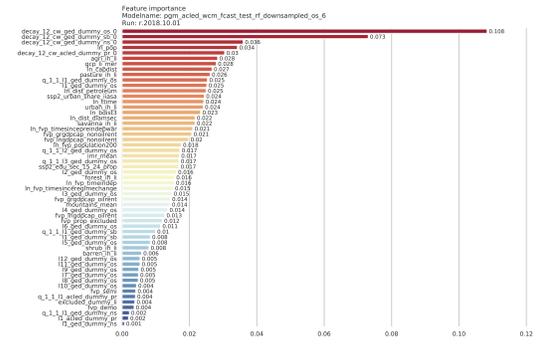


(d) 36 months

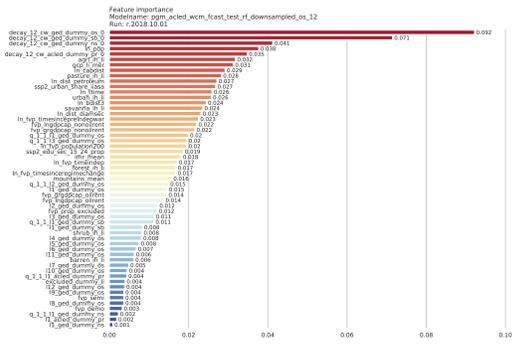
4.14.3 os_fcst



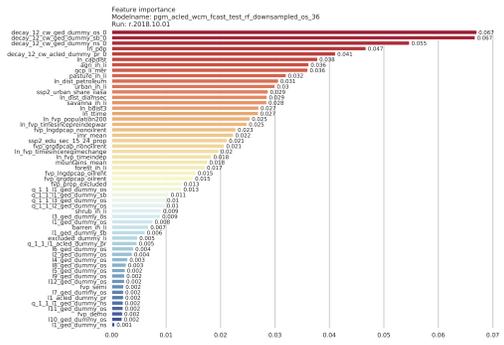
(a) 1 month



(b) 6 months

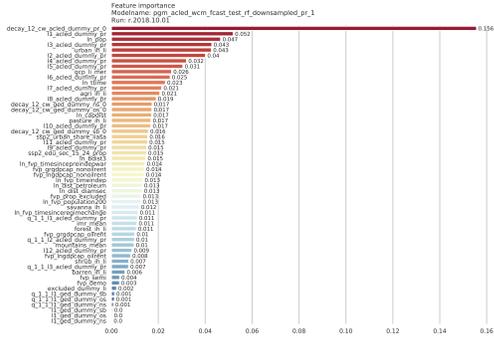


(c) 12 months

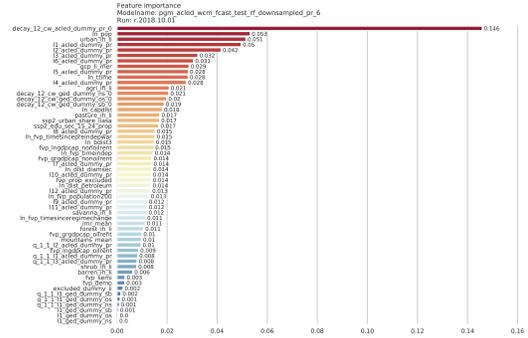


(d) 36 months

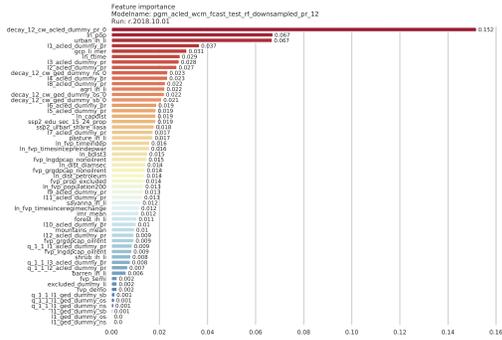
4.14.4 pr_fcst



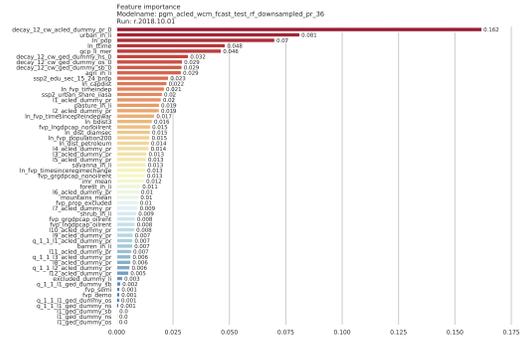
(a) 1 month



(b) 6 months

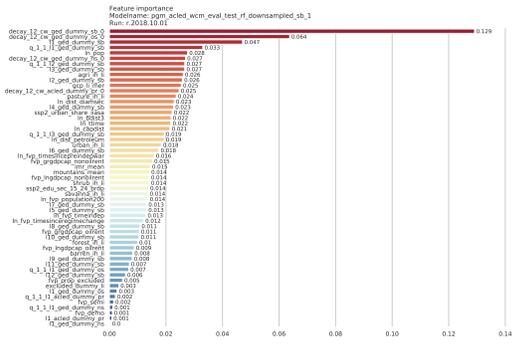


(c) 12 months

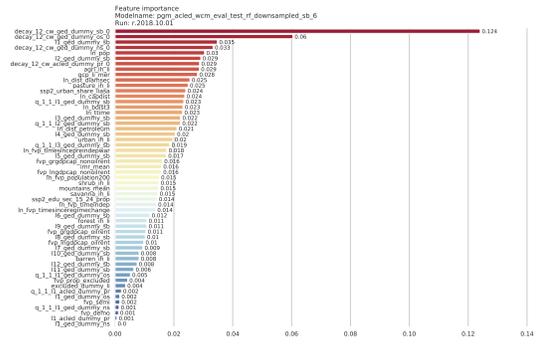


(d) 36 months

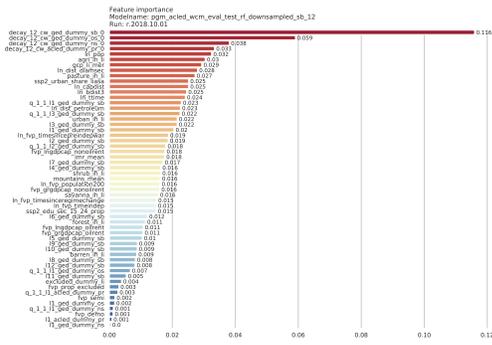
4.14.5 sb_eval



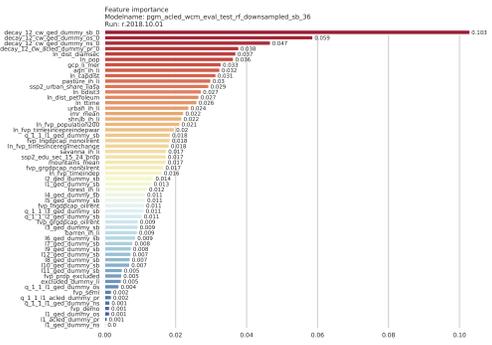
(a) 1 month



(b) 6 months

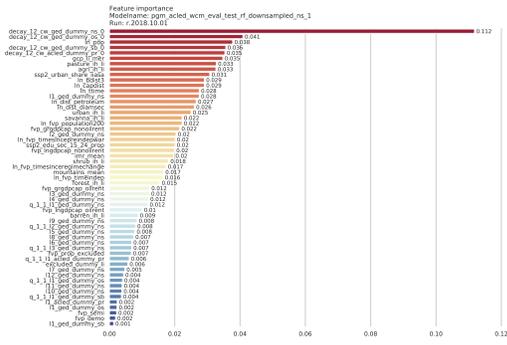


(c) 12 months

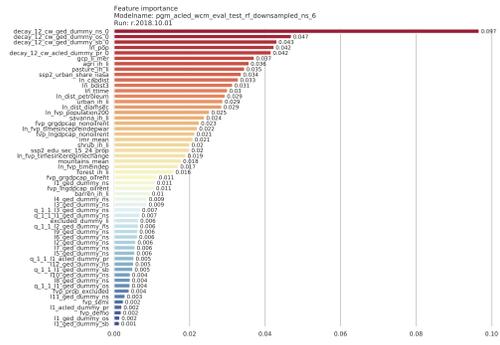


(d) 36 months

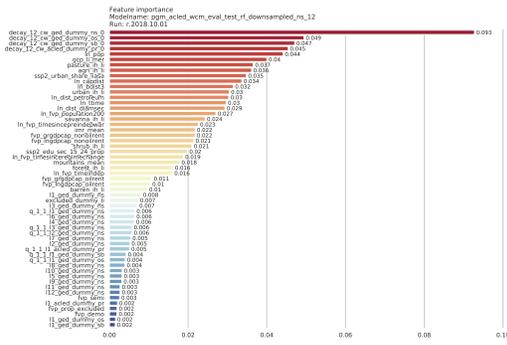
4.14.6 ns_eval



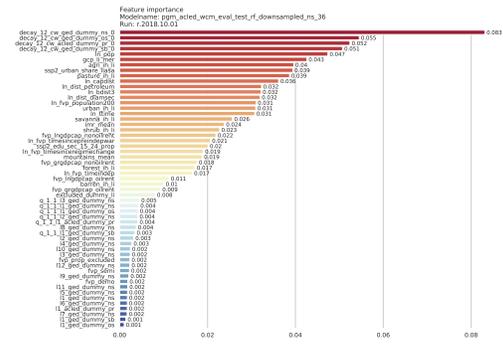
(a) 1 month



(b) 6 months

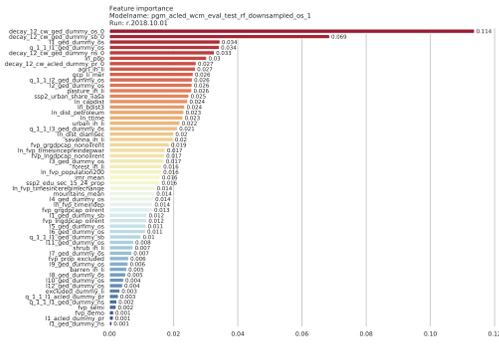


(c) 12 months

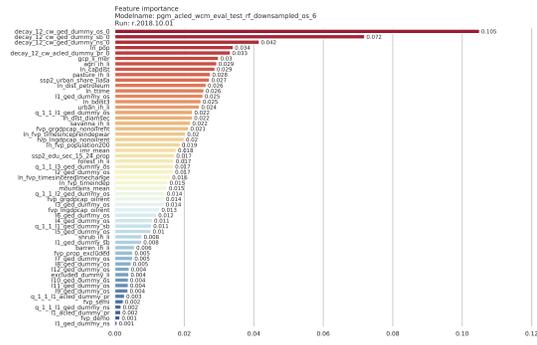


(d) 36 months

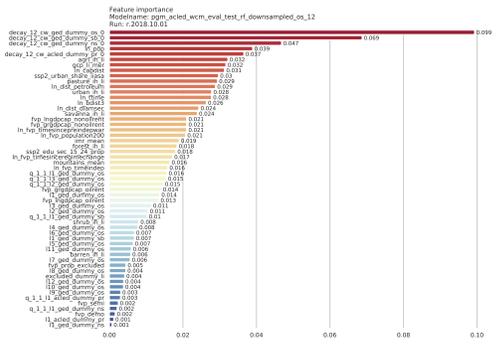
4.14.7 os_eval



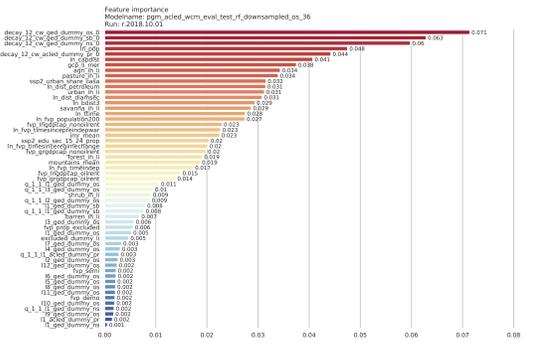
(a) 1 month



(b) 6 months

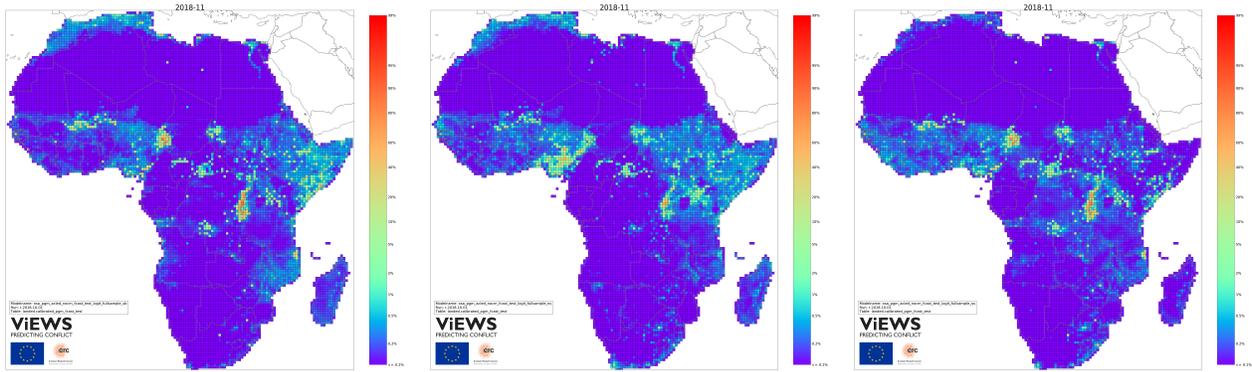


(c) 12 months



(d) 36 months

4.15 osa_pgm_acled_nocm_logit



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 60: Forecasts for October 2018

4.15.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	284857
Model:	Logit	Df Residuals:	284814
Method:	MLE	Df Model:	42
Date:	Fri, 05 Oct 2018	Pseudo R-squ.:	0.4929
Time:	00:38:03	Log-Likelihood:	-20688.
converged:	True	LL-Null:	-40794.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	-0.0939	0.062	-1.515	0.130	-0.215	0.028
l3_ged_dummy_sb	-0.0542	0.062	-0.880	0.379	-0.175	0.066
l4_ged_dummy_sb	0.1098	0.062	1.763	0.078	-0.012	0.232
l5_ged_dummy_sb	-0.0999	0.063	-1.587	0.113	-0.223	0.023
l6_ged_dummy_sb	0.1596	0.063	2.538	0.011	0.036	0.283
l7_ged_dummy_sb	0.0533	0.064	0.836	0.403	-0.072	0.178
l8_ged_dummy_sb	0.2028	0.064	3.173	0.002	0.078	0.328
l9_ged_dummy_sb	0.1976	0.066	3.007	0.003	0.069	0.326
l10_ged_dummy_sb	0.1264	0.065	1.939	0.053	-0.001	0.254
l11_ged_dummy_sb	0.3147	0.067	4.708	0.000	0.184	0.446
l12_ged_dummy_sb	0.0916	0.067	1.368	0.171	-0.040	0.223
q_1_1_l2_ged_dummy_sb	0.2340	0.030	7.838	0.000	0.176	0.293
q_1_1_l3_ged_dummy_sb	0.1831	0.029	6.332	0.000	0.126	0.240
l1_ged_dummy_sb	-0.1066	0.063	-1.691	0.091	-0.230	0.017
l1_ged_dummy_ns	-0.1178	0.197	-0.597	0.550	-0.504	0.269
l1_ged_dummy_os	-0.0237	0.095	-0.250	0.803	-0.209	0.162
l1_acled_dummy_pr	0.1174	0.099	1.183	0.237	-0.077	0.312
decay_l2_cw_ged_dummy_sb_0	3.8106	0.063	60.440	0.000	3.687	3.934
decay_l2_cw_ged_dummy_ns_0	0.5814	0.106	5.474	0.000	0.373	0.790
decay_l2_cw_ged_dummy_os_0	1.2928	0.070	18.592	0.000	1.157	1.429
decay_l2_cw_acled_dummy_pr_0	0.5998	0.071	8.468	0.000	0.461	0.739
q_1_1_l1_ged_dummy_sb	0.4073	0.029	13.873	0.000	0.350	0.465
q_1_1_l1_ged_dummy_ns	0.2425	0.076	3.200	0.001	0.094	0.391
q_1_1_l1_ged_dummy_os	0.2116	0.036	5.959	0.000	0.142	0.281
q_1_1_l1_acled_dummy_pr	-0.1623	0.035	-4.623	0.000	-0.231	-0.094
ln_dist_diamsec	0.3655	0.028	13.264	0.000	0.311	0.420
ln_dist_petroleum	-0.1253	0.028	-4.503	0.000	-0.180	-0.071
agri_ih_li	-0.0032	0.001	-2.312	0.021	-0.006	-0.000
barren_ih_li	-0.0078	0.001	-6.778	0.000	-0.010	-0.006
forest_ih_li	-0.0030	0.001	-2.574	0.010	-0.005	-0.001
mountains_mean	-0.0173	0.053	-0.328	0.743	-0.121	0.086
savanna_ih_li	-0.0023	0.001	-2.074	0.038	-0.005	-0.000
shrub_ih_li	0.0088	0.001	6.671	0.000	0.006	0.011
pasture_ih_li	0.0015	0.001	1.546	0.122	-0.000	0.003
urban_ih_li	0.0340	0.015	2.256	0.024	0.004	0.064
ln_bdist3	-0.0667	0.013	-5.267	0.000	-0.091	-0.042
ln_ttime	-0.1492	0.030	-4.925	0.000	-0.209	-0.090
ln_capdist	0.1469	0.020	7.414	0.000	0.108	0.186
ln_pop	0.1844	0.015	12.072	0.000	0.154	0.214
gcp_li_mer	0.0241	0.020	1.236	0.217	-0.014	0.062
imr_mean	0.0005	4.66e-05	10.430	0.000	0.000	0.001
excluded_dummy_li	0.3448	0.031	11.288	0.000	0.285	0.405
Intercept	-7.2476	0.316	-22.916	0.000	-7.867	-6.628

4.15.2 ns_fcst

Dep. Variable:		ged_dummy_ns	No. Observations:		279297	
Model:		Logit	Df Residuals:		279254	
Method:		MLE	Df Model:		42	
Date:		Fri, 05 Oct 2018	Pseudo R-squ.:		0.3812	
Time:		00:38:33	Log-Likelihood:		-10458.	
converged:		True	LL-Null:		-16901.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.1686	0.108	1.556	0.120	-0.044	0.381
l3_ged_dummy_ns	0.0975	0.110	0.883	0.377	-0.119	0.314
l4_ged_dummy_ns	0.1792	0.112	1.593	0.111	-0.041	0.400
l5_ged_dummy_ns	-0.0598	0.116	-0.515	0.607	-0.288	0.168
l6_ged_dummy_ns	0.0558	0.119	0.468	0.640	-0.178	0.290
l7_ged_dummy_ns	0.1708	0.123	1.384	0.166	-0.071	0.413
l8_ged_dummy_ns	0.1915	0.121	1.576	0.115	-0.047	0.430
l9_ged_dummy_ns	0.4053	0.122	3.326	0.001	0.167	0.644
l10_ged_dummy_ns	0.2073	0.131	1.585	0.113	-0.049	0.464
l11_ged_dummy_ns	0.3021	0.125	2.408	0.016	0.056	0.548
l12_ged_dummy_ns	0.3291	0.130	2.527	0.012	0.074	0.584
q_1_1_l2_ged_dummy_ns	0.5164	0.064	8.109	0.000	0.392	0.641
q_1_1_l3_ged_dummy_ns	0.1889	0.065	2.888	0.004	0.061	0.317
l1_ged_dummy_sb	-0.0857	0.168	-0.511	0.609	-0.414	0.243
l1_ged_dummy_ns	0.1035	0.110	0.943	0.346	-0.112	0.319
l1_ged_dummy_os	0.0424	0.157	0.270	0.787	-0.266	0.350
l1_acled_dummy_pr	-0.0675	0.116	-0.582	0.561	-0.295	0.160
decay_l2_cw_ged_dummy_sb_0	0.6019	0.122	4.933	0.000	0.363	0.841
decay_l2_cw_ged_dummy_ns_0	3.9347	0.105	37.604	0.000	3.730	4.140
decay_l2_cw_ged_dummy_os_0	1.0799	0.121	8.909	0.000	0.842	1.318
decay_l2_cw_acled_dummy_pr_0	0.8461	0.092	9.175	0.000	0.665	1.027
q_1_1_l1_ged_dummy_sb	-0.2507	0.065	-3.860	0.000	-0.378	-0.123
q_1_1_l1_ged_dummy_ns	0.7779	0.060	12.961	0.000	0.660	0.896
q_1_1_l1_ged_dummy_os	0.2479	0.063	3.964	0.000	0.125	0.370
q_1_1_l1_acled_dummy_pr	0.0777	0.037	2.075	0.038	0.004	0.151
ln_dist_diamsec	0.4849	0.044	11.018	0.000	0.399	0.571
ln_dist_petroleum	0.5894	0.054	10.891	0.000	0.483	0.696
agri_ih_li	0.0125	0.002	6.030	0.000	0.008	0.017
barren_ih_li	-0.0034	0.002	-1.733	0.083	-0.007	0.000
forest_ih_li	0.0009	0.002	0.439	0.661	-0.003	0.005
mountains_mean	-0.4210	0.085	-4.966	0.000	-0.587	-0.255
savanna_ih_li	0.0071	0.002	3.848	0.000	0.004	0.011
shrub_ih_li	0.0186	0.002	8.605	0.000	0.014	0.023
pasture_ih_li	0.0092	0.002	5.494	0.000	0.006	0.012
urban_ih_li	0.0288	0.019	1.526	0.127	-0.008	0.066
ln_bdist3	-0.0436	0.019	-2.290	0.022	-0.081	-0.006
ln_ttime	0.1385	0.046	3.006	0.003	0.048	0.229
ln_capdist	0.2916	0.031	9.531	0.000	0.232	0.352
ln_pop	0.2878	0.024	12.142	0.000	0.241	0.334
gcp_li_mer	0.0225	0.031	0.718	0.473	-0.039	0.084
imr_mean	-0.0002	7.32e-05	-2.538	0.011	-0.000	-4.23e-05
excluded_dummy_li	0.1756	0.046	3.824	0.000	0.086	0.266
Intercept	-13.7241	0.517	-26.523	0.000	-14.738	-12.710

4.15.3 os_fcast

Dep. Variable:		ged_dummy_os	No. Observations:		282023	
Model:		Logit	Df Residuals:		281980	
Method:		MLE	Df Model:		42	
Date:		Fri, 05 Oct 2018	Pseudo R-squ.:		0.4715	
Time:		00:36:07	Log-Likelihood:		-15546.	
converged:		True	LL-Null:		-29415.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	0.0248	0.078	0.317	0.752	-0.129	0.178
l3_ged_dummy_os	0.0011	0.080	0.014	0.989	-0.156	0.158
l4_ged_dummy_os	-0.1451	0.080	-1.820	0.069	-0.301	0.011
l5_ged_dummy_os	0.1080	0.080	1.347	0.178	-0.049	0.265
l6_ged_dummy_os	0.1420	0.081	1.750	0.080	-0.017	0.301
l7_ged_dummy_os	0.0122	0.084	0.144	0.885	-0.153	0.178
l8_ged_dummy_os	0.0703	0.085	0.823	0.410	-0.097	0.238
l9_ged_dummy_os	0.1456	0.087	1.676	0.094	-0.025	0.316
l10_ged_dummy_os	0.1643	0.089	1.854	0.064	-0.009	0.338
l11_ged_dummy_os	0.1449	0.087	1.674	0.094	-0.025	0.315
l12_ged_dummy_os	-0.0534	0.089	-0.601	0.548	-0.228	0.121
q_1_1.l2_ged_dummy_os	0.2689	0.037	7.223	0.000	0.196	0.342
q_1_1.l3_ged_dummy_os	0.1818	0.037	4.935	0.000	0.110	0.254
l1_ged_dummy_sb	-0.1051	0.087	-1.209	0.227	-0.276	0.065
l1_ged_dummy_ns	0.2026	0.184	1.100	0.271	-0.158	0.563
l1_ged_dummy_os	0.1021	0.081	1.262	0.207	-0.056	0.261
l1_acled_dummy_pr	-0.0911	0.097	-0.941	0.347	-0.281	0.099
decay_l2_cw_ged_dummy_sb_0	1.8759	0.074	25.494	0.000	1.732	2.020
decay_l2_cw_ged_dummy_ns_0	0.7910	0.107	7.427	0.000	0.582	1.000
decay_l2_cw_ged_dummy_os_0	3.0926	0.082	37.771	0.000	2.932	3.253
decay_l2_cw_acled_dummy_pr_0	0.9525	0.075	12.702	0.000	0.806	1.100
q_1_1.l1_ged_dummy_sb	0.1122	0.035	3.250	0.001	0.045	0.180
q_1_1.l1_ged_dummy_ns	0.1626	0.071	2.282	0.023	0.023	0.302
q_1_1.l1_ged_dummy_os	0.4216	0.038	11.136	0.000	0.347	0.496
q_1_1.l1_acled_dummy_pr	-0.0245	0.035	-0.699	0.484	-0.093	0.044
ln_dist_diamsec	-0.0449	0.032	-1.407	0.159	-0.108	0.018
ln_dist_petroleum	0.2453	0.036	6.785	0.000	0.174	0.316
agri_ih_li	0.0014	0.002	0.910	0.363	-0.002	0.004
barren_ih_li	-0.0103	0.002	-6.524	0.000	-0.013	-0.007
forest_ih_li	0.0020	0.001	1.589	0.112	-0.000	0.004
mountains_mean	-0.1336	0.065	-2.068	0.039	-0.260	-0.007
savanna_ih_li	0.0067	0.001	5.812	0.000	0.004	0.009
shrub_ih_li	-0.0012	0.002	-0.585	0.558	-0.005	0.003
pasture_ih_li	7.952e-05	0.001	0.070	0.944	-0.002	0.002
urban_ih_li	0.0395	0.015	2.645	0.008	0.010	0.069
ln_bdist3	-0.0659	0.015	-4.479	0.000	-0.095	-0.037
ln_ttime	-0.1871	0.037	-5.018	0.000	-0.260	-0.114
ln_capdist	0.1932	0.020	9.433	0.000	0.153	0.233
ln_pop	0.2187	0.020	11.190	0.000	0.180	0.257
gcp_li_mer	0.0737	0.022	3.351	0.001	0.031	0.117
imr_mean	0.0005	5.89e-05	7.841	0.000	0.000	0.001
excluded_dummy_li	0.4226	0.036	11.718	0.000	0.352	0.493
Intercept	-8.2152	0.396	-20.733	0.000	-8.992	-7.439

4.15.4 pr_fcast

Dep. Variable:		acled_dummy_pr	No. Observations:		296508	
Model:		Logit	Df Residuals:		296465	
Method:		MLE	Df Model:		42	
Date:		Fri, 05 Oct 2018	Pseudo R-squ.:		0.5567	
Time:		00:40:12	Log-Likelihood:		-34963.	
converged:		True	LL-Null:		-78874.	
	coef	std err	z	P> z	[0.025	0.975]
l2_acled_dummy_pr	-0.0361	0.041	-0.884	0.377	-0.116	0.044
l3_acled_dummy_pr	0.1203	0.041	2.933	0.003	0.040	0.201
l4_acled_dummy_pr	0.1063	0.041	2.604	0.009	0.026	0.186
l5_acled_dummy_pr	0.1471	0.041	3.580	0.000	0.067	0.228
l6_acled_dummy_pr	0.2238	0.041	5.435	0.000	0.143	0.305
l7_acled_dummy_pr	0.3066	0.042	7.356	0.000	0.225	0.388
l8_acled_dummy_pr	0.2924	0.042	6.910	0.000	0.209	0.375
l9_acled_dummy_pr	0.3487	0.043	8.099	0.000	0.264	0.433
l10_acled_dummy_pr	0.2907	0.043	6.817	0.000	0.207	0.374
l11_acled_dummy_pr	0.4600	0.043	10.646	0.000	0.375	0.545
l12_acled_dummy_pr	0.2793	0.043	6.463	0.000	0.195	0.364
q_1_1_l2_acled_dummy_pr	0.1686	0.020	8.385	0.000	0.129	0.208
q_1_1_l3_acled_dummy_pr	0.0403	0.019	2.068	0.039	0.002	0.078
l1_ged_dummy_sb	-0.0534	0.107	-0.497	0.619	-0.264	0.157
l1_ged_dummy_ns	-0.0431	0.163	-0.265	0.791	-0.362	0.276
l1_ged_dummy_os	-0.2765	0.124	-2.237	0.025	-0.519	-0.034
l1_acled_dummy_pr	-0.0528	0.041	-1.282	0.200	-0.133	0.028
decay_l2_cw_ged_dummy_sb_0	0.6084	0.074	8.263	0.000	0.464	0.753
decay_l2_cw_ged_dummy_ns_0	0.7212	0.088	8.229	0.000	0.549	0.893
decay_l2_cw_ged_dummy_os_0	0.5070	0.079	6.391	0.000	0.351	0.662
decay_l2_cw_acled_dummy_pr_0	3.3590	0.043	78.376	0.000	3.275	3.443
q_1_1_l1_ged_dummy_sb	-0.2105	0.041	-5.175	0.000	-0.290	-0.131
q_1_1_l1_ged_dummy_ns	0.0050	0.061	0.082	0.934	-0.114	0.124
q_1_1_l1_ged_dummy_os	-0.0033	0.046	-0.071	0.944	-0.093	0.087
q_1_1_l1_acled_dummy_pr	0.2064	0.019	10.785	0.000	0.169	0.244
ln_dist_diamsec	-0.0087	0.018	-0.476	0.634	-0.045	0.027
ln_dist_petroleum	0.0288	0.021	1.375	0.169	-0.012	0.070
agri_ih_li	0.0013	0.001	1.508	0.132	-0.000	0.003
barren_ih_li	0.0027	0.001	3.456	0.001	0.001	0.004
forest_ih_li	0.0011	0.001	1.183	0.237	-0.001	0.003
mountains_mean	0.2577	0.037	6.929	0.000	0.185	0.331
savanna_ih_li	0.0020	0.001	2.459	0.014	0.000	0.004
shrub_ih_li	0.0112	0.001	9.848	0.000	0.009	0.013
pasture_ih_li	0.0040	0.001	5.586	0.000	0.003	0.005
urban_ih_li	0.0959	0.009	10.614	0.000	0.078	0.114
ln_bdist3	-0.0997	0.009	-11.012	0.000	-0.117	-0.082
ln_ttime	-0.4718	0.021	-22.245	0.000	-0.513	-0.430
ln_capdist	-0.0118	0.012	-0.975	0.329	-0.035	0.012
ln_pop	0.3044	0.011	28.463	0.000	0.283	0.325
gcp_li_mer	-0.0874	0.013	-6.935	0.000	-0.112	-0.063
imr_mean	-0.0002	3.52e-05	-6.367	0.000	-0.000	-0.000
excluded_dummy_li	-0.0930	0.024	-3.839	0.000	-0.141	-0.046
Intercept	-4.1268	0.217	-18.991	0.000	-4.553	-3.701

4.15.5 sb_eval

Dep. Variable:		ged_dummy_sb	No. Observations:		236033	
Model:		Logit	Df Residuals:		235990	
Method:		MLE	Df Model:		42	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.4924	
Time:		02:18:05	Log-Likelihood:		-16350.	
converged:		True	LL-Null:		-32209.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	-0.0460	0.072	-0.640	0.522	-0.187	0.095
l3_ged_dummy_sb	0.0400	0.071	0.562	0.574	-0.100	0.180
l4_ged_dummy_sb	0.2071	0.072	2.862	0.004	0.065	0.349
l5_ged_dummy_sb	0.0513	0.073	0.699	0.485	-0.093	0.195
l6_ged_dummy_sb	0.0332	0.071	0.466	0.641	-0.106	0.173
l7_ged_dummy_sb	0.1311	0.073	1.802	0.072	-0.011	0.274
l8_ged_dummy_sb	0.1260	0.074	1.706	0.088	-0.019	0.271
l9_ged_dummy_sb	0.1976	0.075	2.632	0.008	0.050	0.345
l10_ged_dummy_sb	0.2199	0.075	2.933	0.003	0.073	0.367
l11_ged_dummy_sb	0.2637	0.077	3.409	0.001	0.112	0.415
l12_ged_dummy_sb	0.1738	0.078	2.240	0.025	0.022	0.326
q_1_1_l2_ged_dummy_sb	0.1930	0.035	5.554	0.000	0.125	0.261
q_1_1_l3_ged_dummy_sb	0.2056	0.034	6.038	0.000	0.139	0.272
l1_ged_dummy_sb	-0.1186	0.071	-1.660	0.097	-0.259	0.021
l1_ged_dummy_ns	-0.3713	0.261	-1.422	0.155	-0.883	0.140
l1_ged_dummy_os	-0.1306	0.113	-1.159	0.247	-0.351	0.090
l1_acled_dummy_pr	0.1129	0.138	0.819	0.413	-0.157	0.383
decay_l2_cw_ged_dummy_sb_0	3.7722	0.072	52.667	0.000	3.632	3.913
decay_l2_cw_ged_dummy_ns_0	0.7544	0.125	6.020	0.000	0.509	1.000
decay_l2_cw_ged_dummy_os_0	1.4668	0.080	18.411	0.000	1.311	1.623
decay_l2_cw_acled_dummy_pr_0	0.4903	0.090	5.423	0.000	0.313	0.667
q_1_1_l1_ged_dummy_sb	0.3998	0.034	11.840	0.000	0.334	0.466
q_1_1_l1_ged_dummy_ns	0.0299	0.107	0.279	0.780	-0.180	0.240
q_1_1_l1_ged_dummy_os	0.3601	0.042	8.525	0.000	0.277	0.443
q_1_1_l1_acled_dummy_pr	-0.1007	0.054	-1.866	0.062	-0.206	0.005
ln_dist_diamsec	0.3111	0.031	10.004	0.000	0.250	0.372
ln_dist_petroleum	-0.1970	0.031	-6.423	0.000	-0.257	-0.137
agri_ih_li	-0.0031	0.002	-1.978	0.048	-0.006	-2.76e-05
barren_ih_li	-0.0078	0.001	-5.935	0.000	-0.010	-0.005
forest_ih_li	-0.0040	0.001	-3.003	0.003	-0.007	-0.001
mountains_mean	0.0147	0.059	0.248	0.804	-0.101	0.131
savanna_ih_li	-0.0060	0.001	-4.532	0.000	-0.009	-0.003
shrub_ih_li	0.0085	0.001	5.740	0.000	0.006	0.011
pasture_ih_li	0.0027	0.001	2.516	0.012	0.001	0.005
urban_ih_li	0.0230	0.018	1.283	0.199	-0.012	0.058
ln_bdist3	-0.0347	0.014	-2.436	0.015	-0.063	-0.007
ln_ttime	-0.0957	0.035	-2.774	0.006	-0.163	-0.028
ln_capdist	0.1435	0.023	6.319	0.000	0.099	0.188
ln_pop	0.2045	0.018	11.666	0.000	0.170	0.239
gcp_li_mer	0.0448	0.024	1.843	0.065	-0.003	0.092
imr_mean	0.0005	5.24e-05	9.130	0.000	0.000	0.001
excluded_dummy_li	0.3597	0.035	10.307	0.000	0.291	0.428
Intercept	-7.6387	0.364	-21.000	0.000	-8.352	-6.926

4.15.6 ns_eval

Dep. Variable:		ged_dummy_ns	No. Observations:		231437	
Model:		Logit	Df Residuals:		231394	
Method:		MLE	Df Model:		42	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.3816	
Time:		01:53:31	Log-Likelihood:		-7373.2	
converged:		True	LL-Null:		-11923.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.2017	0.134	1.508	0.132	-0.061	0.464
l3_ged_dummy_ns	0.0192	0.134	0.143	0.886	-0.243	0.282
l4_ged_dummy_ns	0.2201	0.137	1.605	0.109	-0.049	0.489
l5_ged_dummy_ns	0.1632	0.145	1.123	0.262	-0.122	0.448
l6_ged_dummy_ns	-0.0771	0.149	-0.518	0.604	-0.369	0.215
l7_ged_dummy_ns	0.0725	0.155	0.469	0.639	-0.230	0.375
l8_ged_dummy_ns	0.4481	0.156	2.876	0.004	0.143	0.753
l9_ged_dummy_ns	0.5474	0.151	3.618	0.000	0.251	0.844
l10_ged_dummy_ns	0.0402	0.165	0.244	0.808	-0.283	0.364
l11_ged_dummy_ns	0.3553	0.158	2.255	0.024	0.046	0.664
l12_ged_dummy_ns	0.5346	0.160	3.340	0.001	0.221	0.848
q_1_1_l2_ged_dummy_ns	0.4651	0.082	5.692	0.000	0.305	0.625
q_1_1_l3_ged_dummy_ns	0.3408	0.085	4.032	0.000	0.175	0.506
l1_ged_dummy_sb	-0.1578	0.203	-0.777	0.437	-0.556	0.240
l1_ged_dummy_ns	0.3925	0.138	2.850	0.004	0.123	0.663
l1_ged_dummy_os	0.3427	0.189	1.811	0.070	-0.028	0.714
l1_acled_dummy_pr	0.1194	0.158	0.754	0.451	-0.191	0.430
decay_l2_cw_ged_dummy_sb_0	0.6982	0.142	4.930	0.000	0.421	0.976
decay_l2_cw_ged_dummy_ns_0	3.6371	0.133	27.282	0.000	3.376	3.898
decay_l2_cw_ged_dummy_os_0	1.0061	0.141	7.142	0.000	0.730	1.282
decay_l2_cw_acled_dummy_pr_0	0.7719	0.120	6.406	0.000	0.536	1.008
q_1_1_l1_ged_dummy_sb	-0.2419	0.081	-2.986	0.003	-0.401	-0.083
q_1_1_l1_ged_dummy_ns	0.7636	0.077	9.862	0.000	0.612	0.915
q_1_1_l1_ged_dummy_os	0.1846	0.076	2.416	0.016	0.035	0.334
q_1_1_l1_acled_dummy_pr	0.1165	0.057	2.046	0.041	0.005	0.228
ln_dist_diamsec	0.5653	0.054	10.507	0.000	0.460	0.671
ln_dist_petroleum	0.9575	0.072	13.384	0.000	0.817	1.098
agri_ih_li	0.0158	0.003	6.212	0.000	0.011	0.021
barren_ih_li	0.0004	0.002	0.145	0.885	-0.004	0.005
forest_ih_li	0.0055	0.002	2.241	0.025	0.001	0.010
mountains_mean	-0.4765	0.101	-4.727	0.000	-0.674	-0.279
savanna_ih_li	0.0086	0.002	3.597	0.000	0.004	0.013
shrub_ih_li	0.0262	0.003	9.978	0.000	0.021	0.031
pasture_ih_li	0.0144	0.002	7.048	0.000	0.010	0.018
urban_ih_li	0.0649	0.022	2.964	0.003	0.022	0.108
ln_bdist3	-0.0491	0.022	-2.202	0.028	-0.093	-0.005
ln_ttime	0.3302	0.055	5.973	0.000	0.222	0.439
ln_capdist	0.2522	0.035	7.152	0.000	0.183	0.321
ln_pop	0.4170	0.030	13.806	0.000	0.358	0.476
gcp_li_mer	0.0896	0.035	2.532	0.011	0.020	0.159
imr_mean	1.231e-05	8.92e-05	0.138	0.890	-0.000	0.000
excluded_dummy_li	0.2422	0.055	4.416	0.000	0.135	0.350
Intercept	-17.8745	0.661	-27.038	0.000	-19.170	-16.579

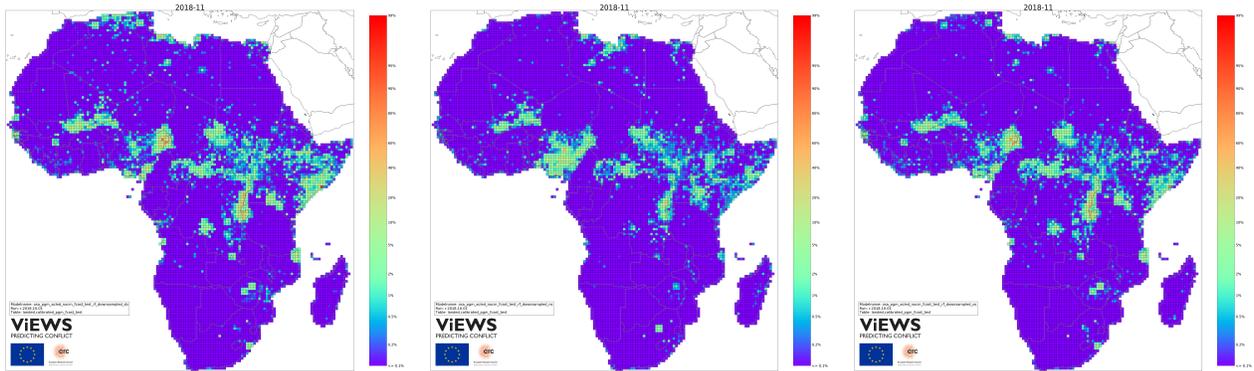
4.15.7 os_eval

Dep. Variable:	ged_dummy_os	No. Observations:	233592			
Model:	Logit	Df Residuals:	233549			
Method:	MLE	Df Model:	42			
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.4703			
Time:	01:59:11	Log-Likelihood:	-11744.			
converged:	True	LL-Null:	-22170.			
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	0.0805	0.093	0.863	0.388	-0.102	0.263
l3_ged_dummy_os	-0.0039	0.095	-0.041	0.967	-0.191	0.183
l4_ged_dummy_os	-0.0015	0.095	-0.016	0.987	-0.187	0.184
l5_ged_dummy_os	-0.0244	0.094	-0.259	0.796	-0.209	0.161
l6_ged_dummy_os	0.1898	0.097	1.961	0.050	0.000	0.380
l7_ged_dummy_os	-0.0774	0.098	-0.792	0.428	-0.269	0.114
l8_ged_dummy_os	0.0692	0.103	0.672	0.502	-0.133	0.271
l9_ged_dummy_os	0.0711	0.100	0.708	0.479	-0.126	0.268
l10_ged_dummy_os	0.1410	0.105	1.342	0.180	-0.065	0.347
l11_ged_dummy_os	0.3159	0.103	3.078	0.002	0.115	0.517
l12_ged_dummy_os	0.0042	0.105	0.040	0.968	-0.202	0.210
q_1_1_l2_ged_dummy_os	0.2978	0.044	6.692	0.000	0.211	0.385
q_1_1_l3_ged_dummy_os	0.0955	0.044	2.174	0.030	0.009	0.182
l1_ged_dummy_sb	0.0137	0.103	0.133	0.894	-0.188	0.215
l1_ged_dummy_ns	0.1852	0.223	0.829	0.407	-0.253	0.623
l1_ged_dummy_os	-0.0570	0.095	-0.602	0.547	-0.242	0.128
l1_acled_dummy_pr	0.1343	0.134	0.999	0.318	-0.129	0.398
decay_l2_cw_ged_dummy_sb_0	2.0207	0.084	24.118	0.000	1.856	2.185
decay_l2_cw_ged_dummy_ns_0	0.8087	0.128	6.308	0.000	0.557	1.060
decay_l2_cw_ged_dummy_os_0	3.1895	0.093	34.239	0.000	3.007	3.372
decay_l2_cw_acled_dummy_pr_0	0.9057	0.096	9.431	0.000	0.717	1.094
q_1_1_l1_ged_dummy_sb	0.1393	0.040	3.455	0.001	0.060	0.218
q_1_1_l1_ged_dummy_ns	0.3691	0.095	3.905	0.000	0.184	0.554
q_1_1_l1_ged_dummy_os	0.5593	0.045	12.517	0.000	0.472	0.647
q_1_1_l1_acled_dummy_pr	-0.0223	0.055	-0.407	0.684	-0.130	0.085
ln_dist_diamsec	-0.1029	0.037	-2.766	0.006	-0.176	-0.030
ln_dist_petroleum	0.2253	0.040	5.601	0.000	0.146	0.304
agri_ih_li	0.0029	0.002	1.612	0.107	-0.001	0.006
barren_ih_li	-0.0122	0.002	-6.327	0.000	-0.016	-0.008
forest_ih_li	0.0033	0.001	2.393	0.017	0.001	0.006
mountains_mean	-0.1465	0.074	-1.968	0.049	-0.292	-0.001
savanna_ih_li	0.0066	0.001	4.870	0.000	0.004	0.009
shrub_ih_li	-0.0032	0.002	-1.299	0.194	-0.008	0.002
pasture_ih_li	-4.606e-05	0.001	-0.035	0.972	-0.003	0.003
urban_ih_li	0.0701	0.018	3.978	0.000	0.036	0.105
ln_bdist3	-0.0547	0.017	-3.205	0.001	-0.088	-0.021
ln_ttime	-0.1811	0.044	-4.157	0.000	-0.267	-0.096
ln_capdist	0.2235	0.024	9.393	0.000	0.177	0.270
ln_pop	0.2234	0.023	9.796	0.000	0.179	0.268
gcp_li_mer	0.0540	0.025	2.192	0.028	0.006	0.102
imr_mean	0.0004	6.85e-05	5.904	0.000	0.000	0.001
excluded_dummy_li	0.4102	0.042	9.739	0.000	0.328	0.493
Intercept	-8.4188	0.465	-18.102	0.000	-9.330	-7.507

4.15.8 pr_eval

Dep. Variable:		acled_dummy_pr	No. Observations:		240197	
Model:		Logit	Df Residuals:		240154	
Method:		MLE	Df Model:		42	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.5254	
Time:		02:05:40	Log-Likelihood:		-22368.	
converged:		True	LL-Null:		-47134.	
	coef	std err	z	P> z	[0.025	0.975]
l2_acled_dummy_pr	0.0263	0.056	0.469	0.639	-0.084	0.136
l3_acled_dummy_pr	0.0554	0.056	0.980	0.327	-0.055	0.166
l4_acled_dummy_pr	0.1139	0.057	2.010	0.044	0.003	0.225
l5_acled_dummy_pr	0.1084	0.057	1.895	0.058	-0.004	0.220
l6_acled_dummy_pr	0.2009	0.057	3.507	0.000	0.089	0.313
l7_acled_dummy_pr	0.3797	0.059	6.454	0.000	0.264	0.495
l8_acled_dummy_pr	0.3292	0.059	5.559	0.000	0.213	0.445
l9_acled_dummy_pr	0.3557	0.060	5.905	0.000	0.238	0.474
l10_acled_dummy_pr	0.3928	0.060	6.555	0.000	0.275	0.510
l11_acled_dummy_pr	0.3473	0.061	5.700	0.000	0.228	0.467
l12_acled_dummy_pr	0.3182	0.062	5.127	0.000	0.197	0.440
q_1_1_l2_acled_dummy_pr	0.2219	0.031	7.224	0.000	0.162	0.282
q_1_1_l3_acled_dummy_pr	0.1394	0.030	4.667	0.000	0.081	0.198
l1_ged_dummy_sb	-0.0330	0.134	-0.246	0.805	-0.295	0.229
l1_ged_dummy_ns	-0.3048	0.203	-1.504	0.133	-0.702	0.092
l1_ged_dummy_os	-0.0051	0.157	-0.032	0.974	-0.312	0.302
l1_acled_dummy_pr	-0.0256	0.057	-0.452	0.651	-0.137	0.085
decay_l2_cw_ged_dummy_sb_0	0.6593	0.091	7.234	0.000	0.481	0.838
decay_l2_cw_ged_dummy_ns_0	0.8436	0.110	7.674	0.000	0.628	1.059
decay_l2_cw_ged_dummy_os_0	0.2197	0.098	2.238	0.025	0.027	0.412
decay_l2_cw_acled_dummy_pr_0	3.2392	0.057	57.075	0.000	3.128	3.350
q_1_1_l1_ged_dummy_sb	-0.2365	0.052	-4.563	0.000	-0.338	-0.135
q_1_1_l1_ged_dummy_ns	0.0214	0.086	0.248	0.804	-0.148	0.191
q_1_1_l1_ged_dummy_os	0.0206	0.059	0.350	0.726	-0.095	0.136
q_1_1_l1_acled_dummy_pr	0.2315	0.029	7.957	0.000	0.174	0.289
ln_dist_diamsec	-0.0542	0.023	-2.328	0.020	-0.100	-0.009
ln_dist_petroleum	0.0985	0.027	3.709	0.000	0.046	0.151
agri_ih_li	0.0005	0.001	0.442	0.659	-0.002	0.003
barren_ih_li	0.0037	0.001	3.727	0.000	0.002	0.006
forest_ih_li	0.0006	0.001	0.533	0.594	-0.002	0.003
mountains_mean	0.1906	0.048	3.983	0.000	0.097	0.284
savanna_ih_li	0.0016	0.001	1.575	0.115	-0.000	0.004
shrub_ih_li	0.0119	0.001	8.274	0.000	0.009	0.015
pasture_ih_li	0.0053	0.001	5.866	0.000	0.004	0.007
urban_ih_li	0.0990	0.011	9.383	0.000	0.078	0.120
ln_bdist3	-0.1222	0.012	-10.599	0.000	-0.145	-0.100
ln_ttime	-0.5422	0.027	-19.828	0.000	-0.596	-0.489
ln_capdist	-0.0212	0.014	-1.470	0.142	-0.050	0.007
ln_pop	0.3443	0.014	24.991	0.000	0.317	0.371
gcp_li_mer	-0.0974	0.016	-6.084	0.000	-0.129	-0.066
imr_mean	-0.0002	4.48e-05	-5.387	0.000	-0.000	-0.000
excluded_dummy_li	-0.0515	0.031	-1.672	0.095	-0.112	0.009
Intercept	-4.3472	0.277	-15.686	0.000	-4.890	-3.804

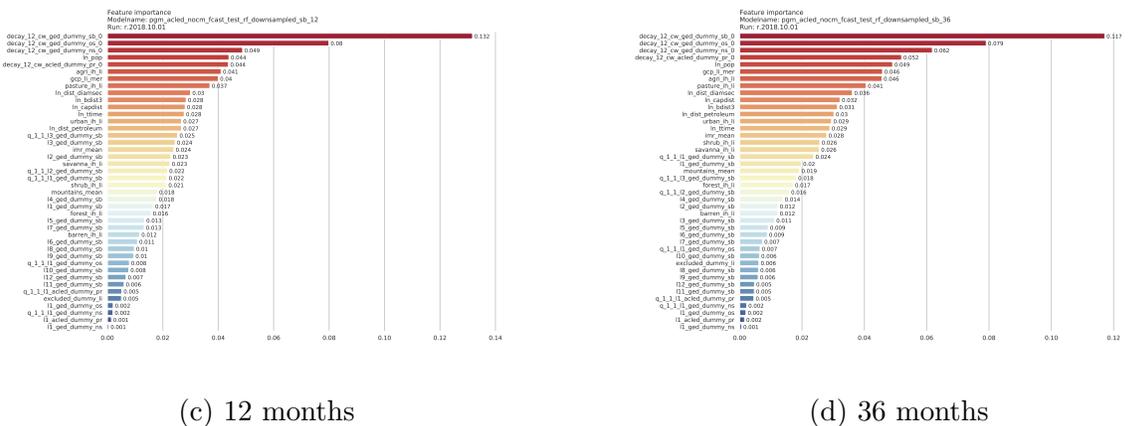
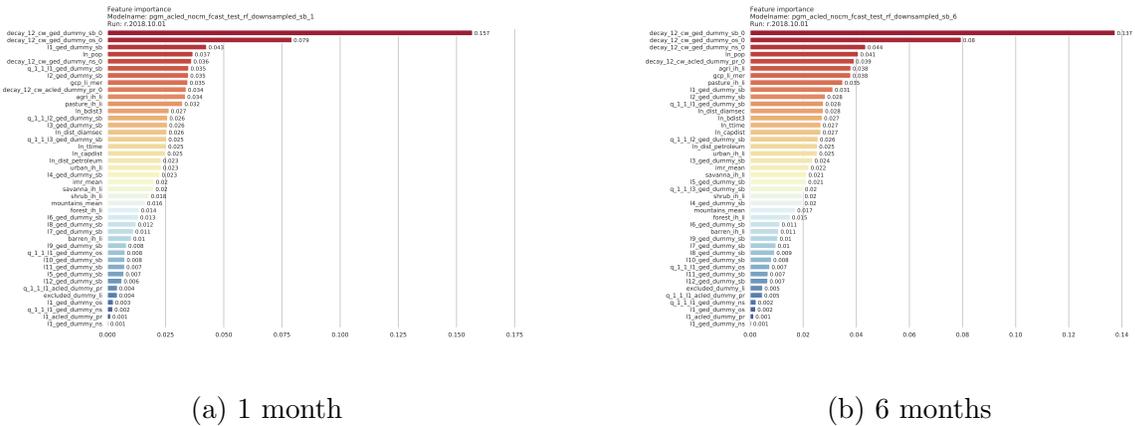
4.16 osa_pgm_acled_nocm_rf



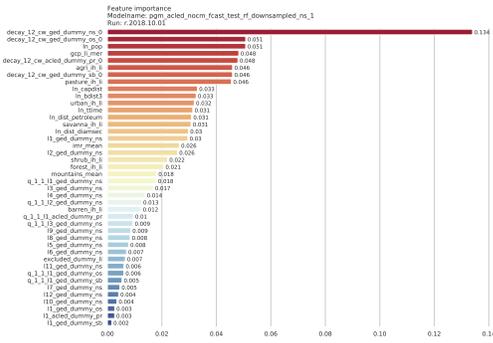
(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 61: Forecasts for October 2018

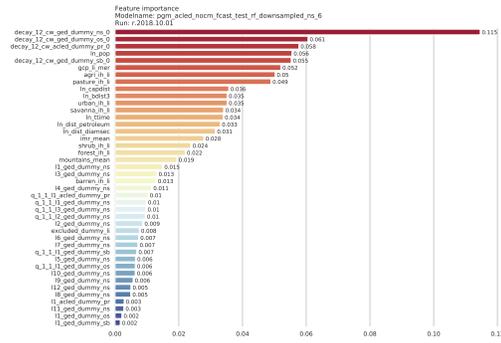
4.16.1 sb_fcst



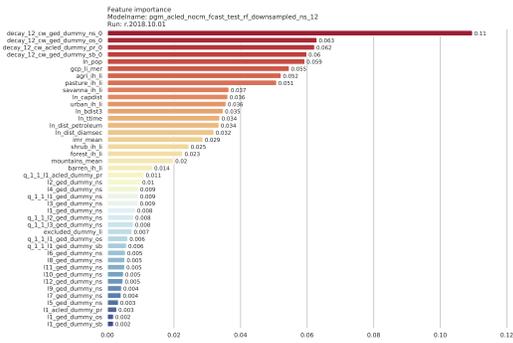
4.16.2 ns_fcst



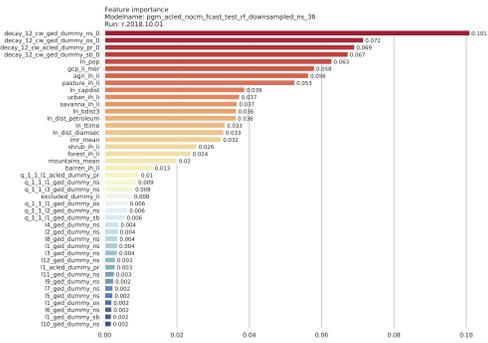
(a) 1 month



(b) 6 months

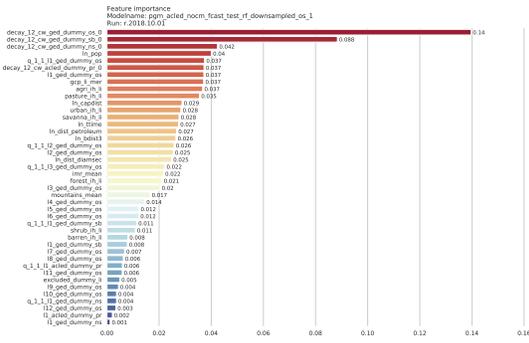


(c) 12 months

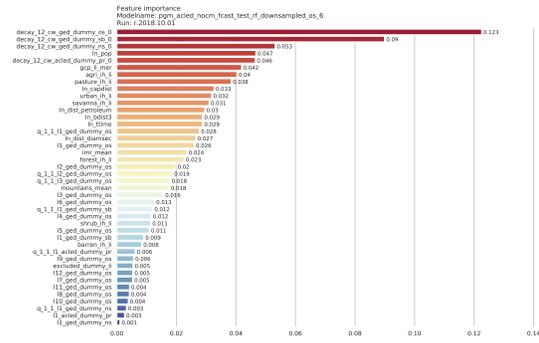


(d) 36 months

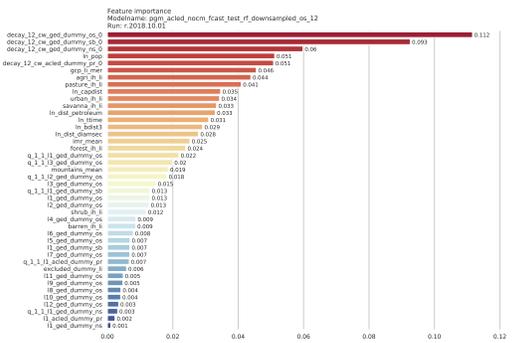
4.16.3 os_fcst



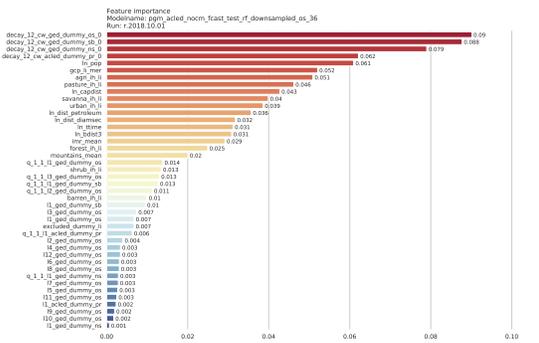
(a) 1 month



(b) 6 months

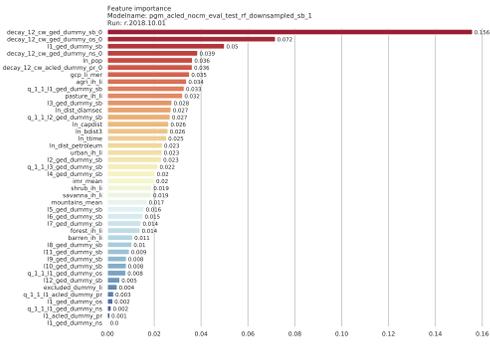


(c) 12 months

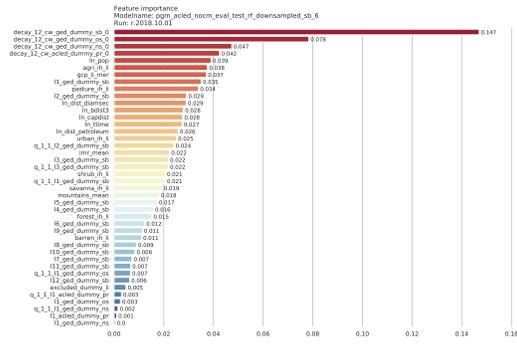


(d) 36 months

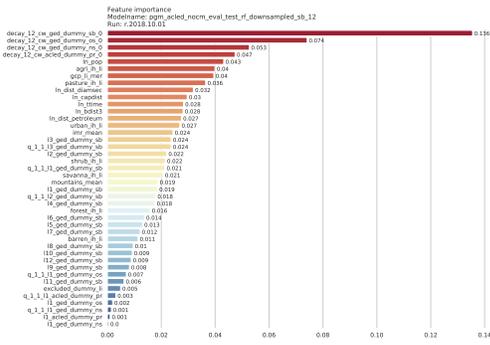
4.16.5 sb_eval



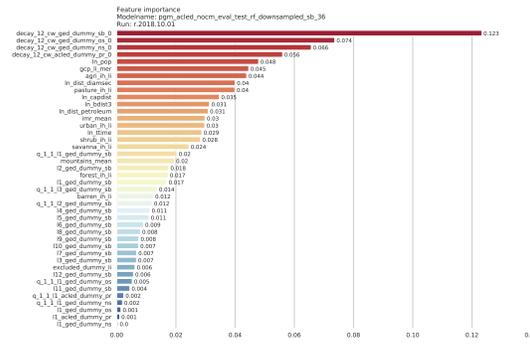
(a) 1 month



(b) 6 months

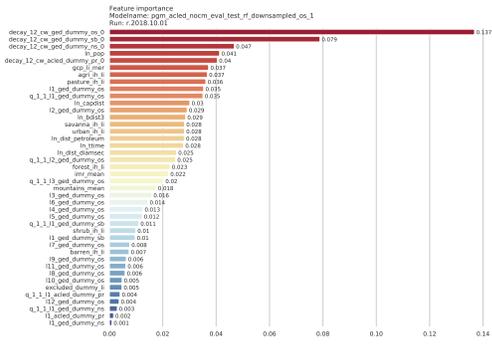


(c) 12 months

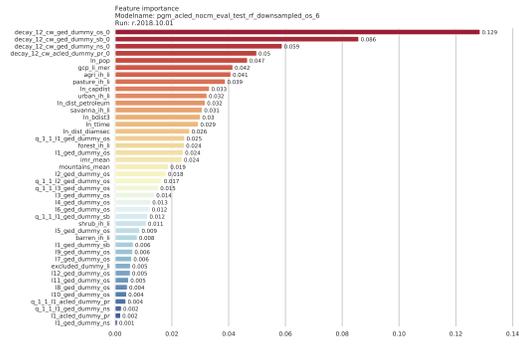


(d) 36 months

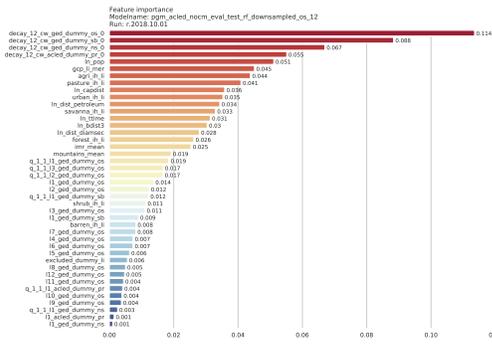
4.16.7 os_eval



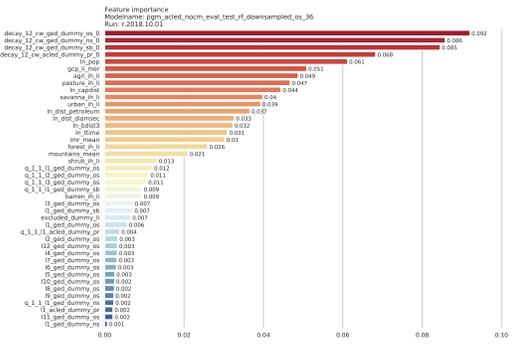
(a) 1 month



(b) 6 months

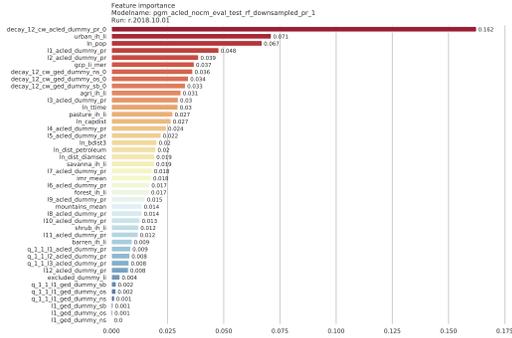


(c) 12 months

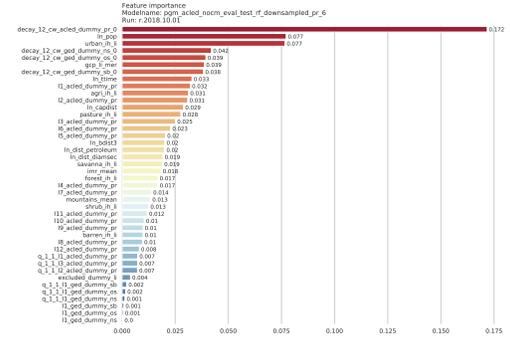


(d) 36 months

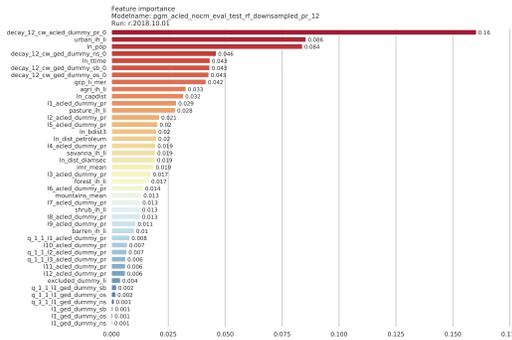
4.16.8 pr_eval



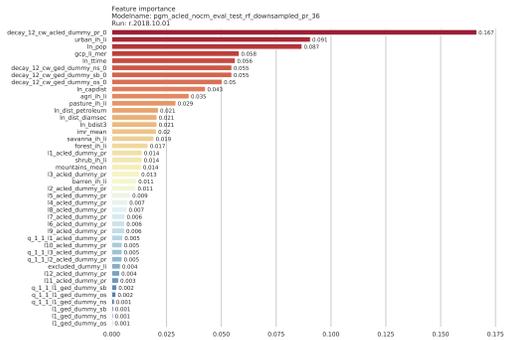
(a) 1 month



(b) 6 months

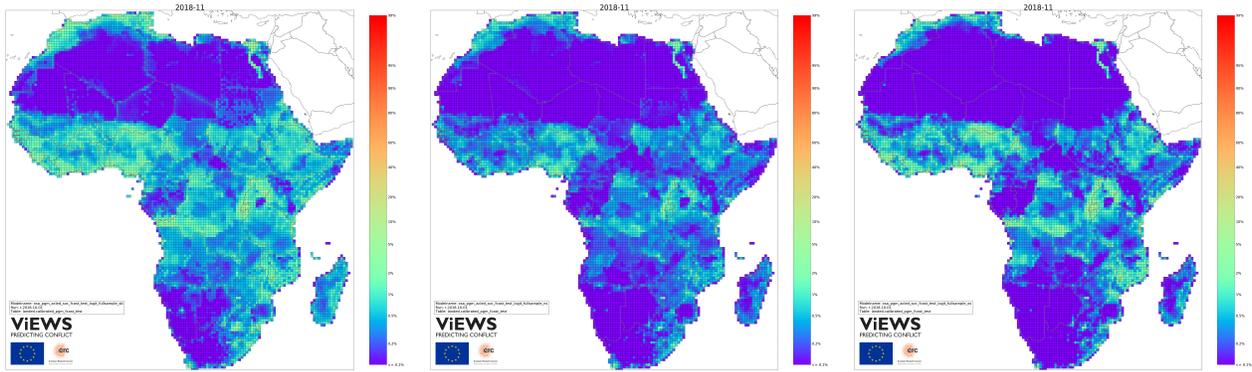


(c) 12 months



(d) 36 months

4.17 osa_pgm_acled_soc_logit



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 70: Forecasts for October 2018

4.17.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	284857			
Model:	Logit	Df Residuals:	284849			
Method:	MLE	Df Model:	7			
Date:	Thu, 04 Oct 2018	Pseudo R-squ.:	0.1542			
Time:	23:43:40	Log-Likelihood:	-34502.			
converged:	True	LL-Null:	-40794.			
	coef	std err	z	P> z 	[0.025	0.975]
ln_bdist3	-0.2567	0.009	-29.501	0.000	-0.274	-0.240
ln_ttime	-0.2074	0.022	-9.341	0.000	-0.251	-0.164
ln_capdist	-0.0159	0.013	-1.191	0.234	-0.042	0.010
ln_pop	0.4996	0.010	51.318	0.000	0.480	0.519
gcp_li_mer	0.1312	0.011	11.626	0.000	0.109	0.153
imr_mean	0.0004	3.22e-05	13.821	0.000	0.000	0.001
excluded_dummy_li	0.8139	0.023	36.113	0.000	0.770	0.858
Intercept	-7.2081	0.224	-32.223	0.000	-7.647	-6.770

4.17.2 ns_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_ns			No. Observations:	279297	
Model:	Logit			Df Residuals:	279289	
Method:	MLE			Df Model:	7	
Date:	Thu, 04 Oct 2018			Pseudo R-squ.:	0.1163	
Time:	23:46:22			Log-Likelihood:	-14934.	
converged:	True			LL-Null:	-16901.	
ln_bdist3	-0.1194	0.015	-7.929	0.000	-0.149	-0.090
ln_ttime	0.0666	0.037	1.810	0.070	-0.006	0.139
ln_capdist	0.3756	0.025	15.173	0.000	0.327	0.424
ln_pop	0.6751	0.016	41.056	0.000	0.643	0.707
gcp_li_mer	0.0691	0.019	3.611	0.000	0.032	0.107
imr_mean	-0.0002	5.55e-05	-3.123	0.002	-0.000	-6.45e-05
excluded_dummy_li	0.5447	0.038	14.348	0.000	0.470	0.619
Intercept	-14.0071	0.392	-35.742	0.000	-14.775	-13.239

4.17.3 os_fcast

<hr/>						
Dep. Variable:	ged_dummy_os	No. Observations:	282023			
Model:	Logit	Df Residuals:	282015			
Method:	MLE	Df Model:	7			
Date:	Thu, 04 Oct 2018	Pseudo R-squ.:	0.1799			
Time:	23:28:23	Log-Likelihood:	-24124.			
converged:	True	LL-Null:	-29415.			
<hr/>						
	coef	std err	z	P> z	[0.025	0.975]
<hr/>						
ln_bdist3	-0.2424	0.011	-22.778	0.000	-0.263	-0.222
ln_ttime	-0.3361	0.028	-12.093	0.000	-0.391	-0.282
ln_capdist	0.2314	0.016	14.566	0.000	0.200	0.263
ln_pop	0.6455	0.012	52.082	0.000	0.621	0.670
gcp_li_mer	0.0280	0.016	1.788	0.074	-0.003	0.059
imr_mean	0.0011	4.19e-05	25.446	0.000	0.001	0.001
excluded_dummy_li	0.7352	0.028	26.726	0.000	0.681	0.789
Intercept	-10.7056	0.283	-37.774	0.000	-11.261	-10.150
<hr/>						

4.17.4 pr_fcst

Dep. Variable:		acled_dummy_pr	No. Observations:		296508	
Model:		Logit	Df Residuals:		296500	
Method:		MLE	Df Model:		7	
Date:		Fri, 05 Oct 2018	Pseudo R-squ.:		0.3601	
Time:		00:08:54	Log-Likelihood:		-50472.	
converged:		True	LL-Null:		-78874.	
	coef	std err	z	P> z	[0.025	0.975]
ln_bdist3	-0.1605	0.007	-23.768	0.000	-0.174	-0.147
ln_ttime	-0.7579	0.017	-44.484	0.000	-0.791	-0.725
ln_capdist	-0.0552	0.009	-6.045	0.000	-0.073	-0.037
ln_pop	0.6806	0.007	91.564	0.000	0.666	0.695
gcp_li_mer	0.1787	0.010	17.311	0.000	0.158	0.199
imr_mean	-0.0006	2.52e-05	-23.872	0.000	-0.001	-0.001
excluded_dummy_li	-0.0472	0.019	-2.477	0.013	-0.084	-0.010
Intercept	-4.4881	0.161	-27.887	0.000	-4.804	-4.173

4.17.5 sb_eval

<hr/>						
Dep. Variable:	ged_dummy_sb	No. Observations:	236033			
Model:	Logit	Df Residuals:	236025			
Method:	MLE	Df Model:	7			
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.1608			
Time:	02:12:13	Log-Likelihood:	-27031.			
converged:	True	LL-Null:	-32209.			
<hr/>						
	coef	std err	z	P> z	[0.025	0.975]
<hr/>						
ln_bdist3	-0.2480	0.010	-25.242	0.000	-0.267	-0.229
ln_ttime	-0.1865	0.025	-7.436	0.000	-0.236	-0.137
ln_capdist	-0.0958	0.015	-6.338	0.000	-0.125	-0.066
ln_pop	0.4908	0.011	44.523	0.000	0.469	0.512
gcp_li_mer	0.1439	0.013	11.010	0.000	0.118	0.170
imr_mean	0.0003	3.61e-05	7.699	0.000	0.000	0.000
excluded_dummy_li	0.9689	0.026	37.584	0.000	0.918	1.019
Intercept	-6.7753	0.253	-26.806	0.000	-7.271	-6.280
<hr/>						

4.17.6 ns_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_ns					
Model:	Logit					
Method:	MLE					
Date:	Thu, 27 Sep 2018					
Time:	02:29:23					
converged:	True					
No. Observations:					231437	
Df Residuals:					231429	
Df Model:					7	
Pseudo R-squ.:					0.1283	
Log-Likelihood:					-10393.	
LL-Null:					-11923.	
ln_bdist3	-0.1534	0.018	-8.589	0.000	-0.188	-0.118
ln_ttime	0.2990	0.044	6.754	0.000	0.212	0.386
ln_capdist	0.2624	0.029	9.010	0.000	0.205	0.319
ln_pop	0.7440	0.020	36.541	0.000	0.704	0.784
gcp_li_mer	0.1642	0.021	7.823	0.000	0.123	0.205
imr_mean	0.0001	6.82e-05	1.478	0.139	-3.29e-05	0.000
excluded_dummy_li	0.6683	0.046	14.530	0.000	0.578	0.758
Intercept	-15.8544	0.480	-33.061	0.000	-16.794	-14.914

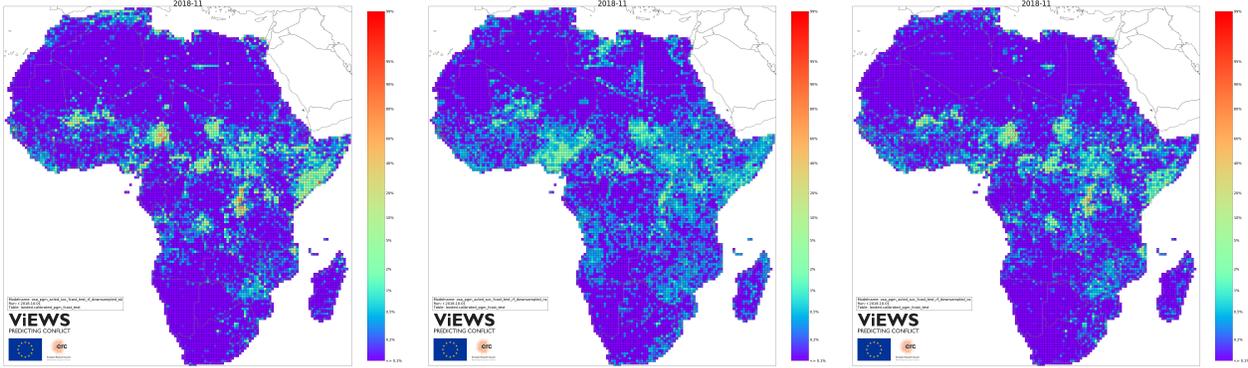
4.17.7 os_eval

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_os					
Model:	Logit					
Method:	MLE					
Date:	Thu, 27 Sep 2018					
Time:	01:54:49					
converged:	True					
No. Observations:						233592
Df Residuals:						233584
Df Model:						7
Pseudo R-squ.:						0.1839
Log-Likelihood:						-18092.
LL-Null:						-22170.
ln_bdist3	-0.2574	0.012	-21.014	0.000	-0.281	-0.233
ln_ttime	-0.3333	0.032	-10.285	0.000	-0.397	-0.270
ln_capdist	0.1511	0.018	8.378	0.000	0.116	0.186
ln_pop	0.6296	0.014	43.674	0.000	0.601	0.658
gcp_li_mer	0.0898	0.017	5.285	0.000	0.056	0.123
imr_mean	0.0012	4.88e-05	24.846	0.000	0.001	0.001
excluded_dummy_li	0.7888	0.032	24.588	0.000	0.726	0.852
Intercept	-10.3121	0.329	-31.310	0.000	-10.958	-9.667

4.17.8 pr_eval

Dep. Variable:		acled_dummy_pr	No. Observations:		240197	
Model:		Logit	Df Residuals:		240189	
Method:		MLE	Df Model:		7	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.3631	
Time:		02:16:58	Log-Likelihood:		-30020.	
converged:		True	LL-Null:		-47134.	
	coef	std err	z	P> z	[0.025	0.975]
ln_bdist3	-0.1672	0.009	-18.880	0.000	-0.185	-0.150
ln_ttime	-0.8745	0.023	-38.109	0.000	-0.920	-0.830
ln_capdist	-0.1131	0.012	-9.823	0.000	-0.136	-0.091
ln_pop	0.6524	0.010	66.210	0.000	0.633	0.672
gcp_li_mer	0.1713	0.012	13.714	0.000	0.147	0.196
imr_mean	-0.0004	3.34e-05	-13.164	0.000	-0.001	-0.000
excluded_dummy_li	-0.0169	0.025	-0.666	0.506	-0.067	0.033
Intercept	-3.8040	0.214	-17.816	0.000	-4.223	-3.386

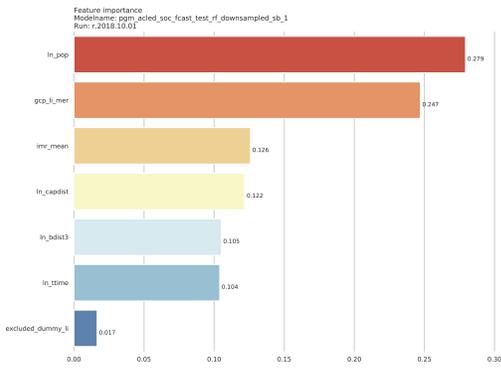
4.18 osa_pgm_acled_soc_rf



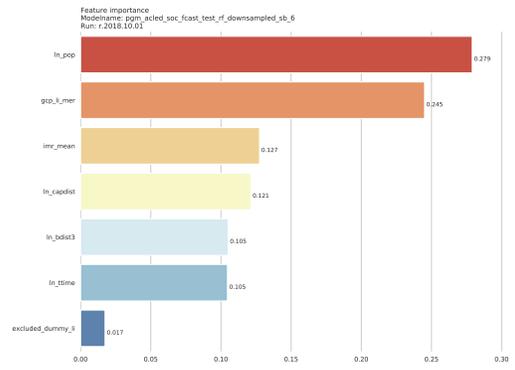
(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 71: Forecasts for October 2018

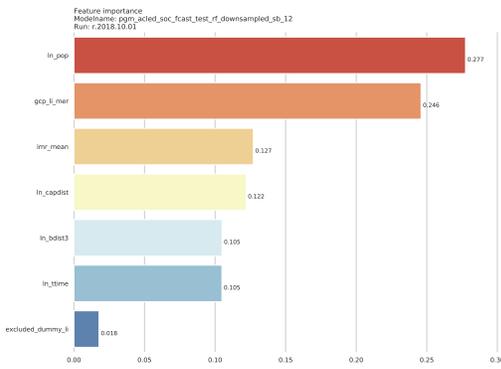
4.18.1 sb_fcast



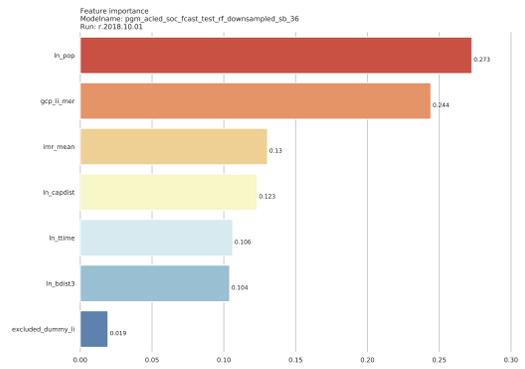
(a) 1 month



(b) 6 months

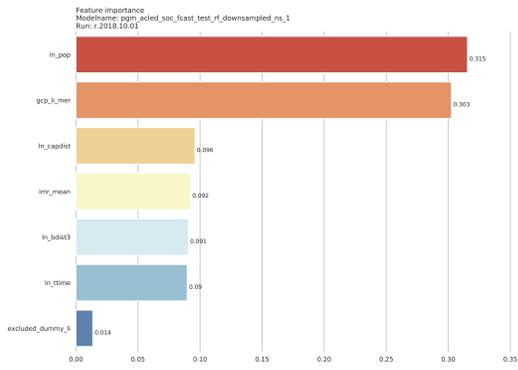


(c) 12 months

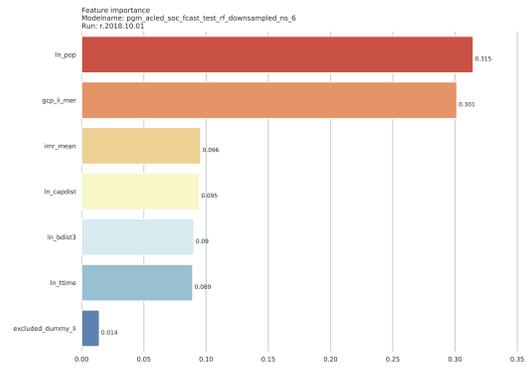


(d) 36 months

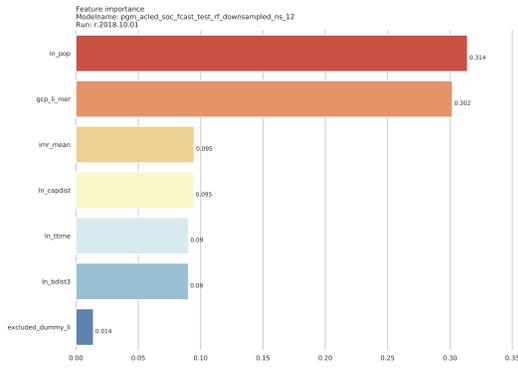
4.18.2 ns_fcst



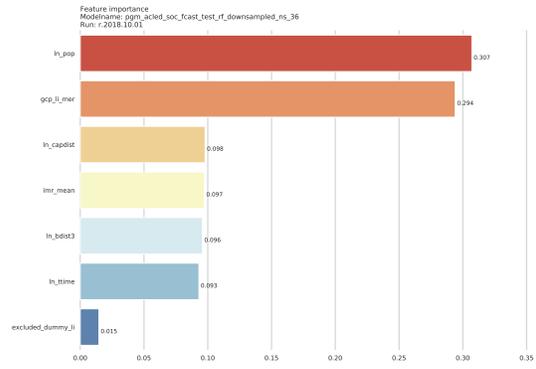
(a) 1 month



(b) 6 months

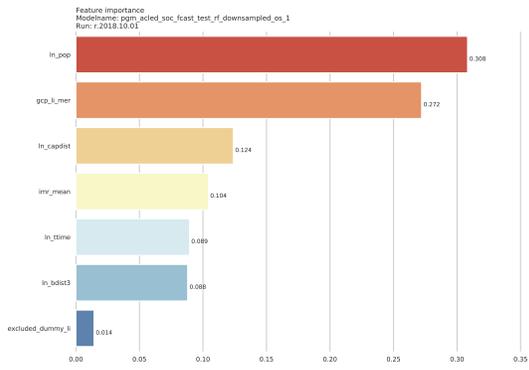


(c) 12 months

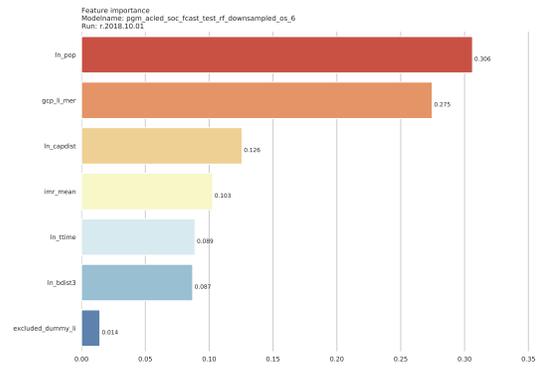


(d) 36 months

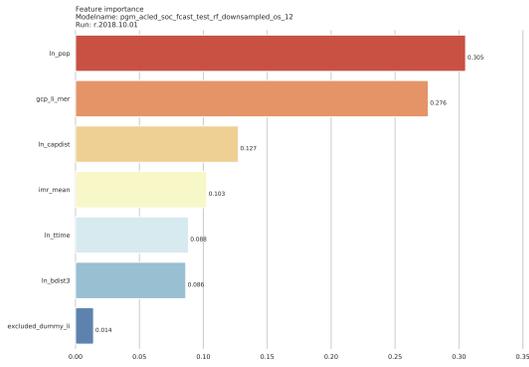
4.18.3 os_fcst



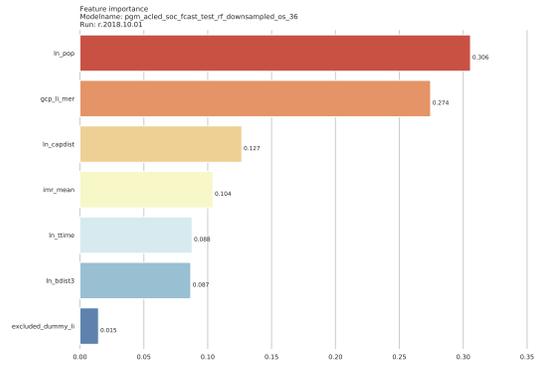
(a) 1 month



(b) 6 months

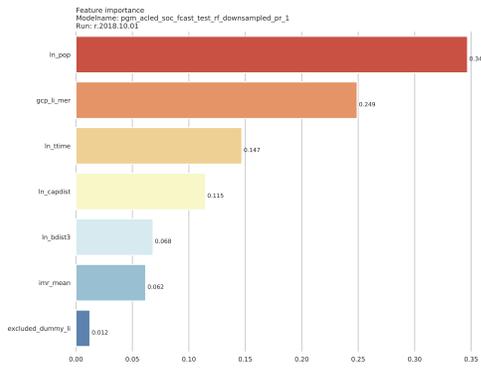


(c) 12 months

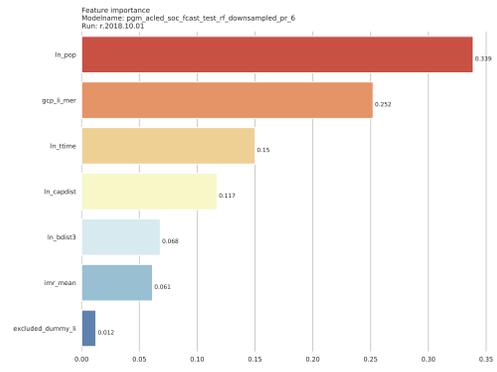


(d) 36 months

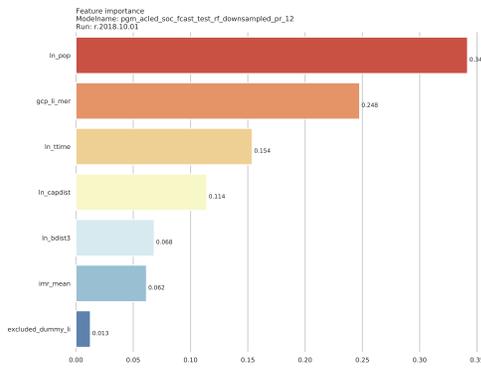
4.18.4 pr_fcst



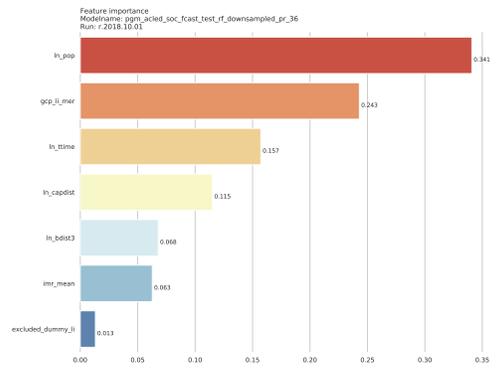
(a) 1 month



(b) 6 months

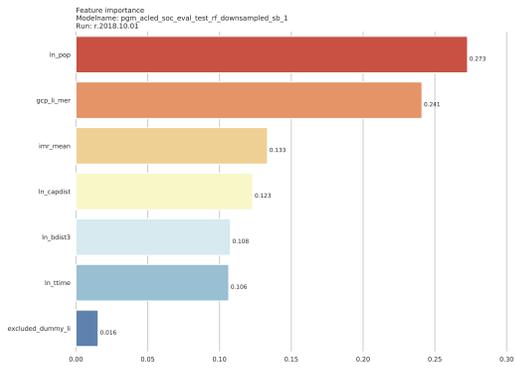


(c) 12 months

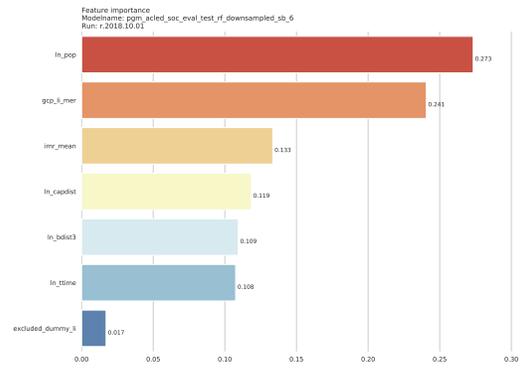


(d) 36 months

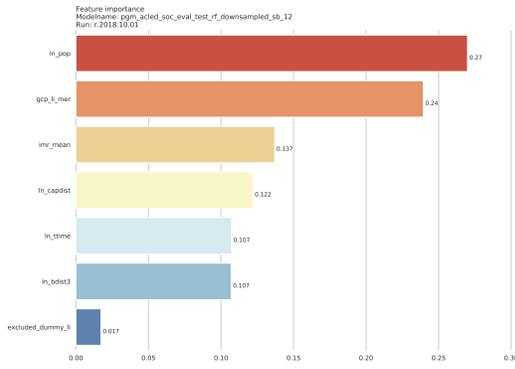
4.18.5 sb_eval



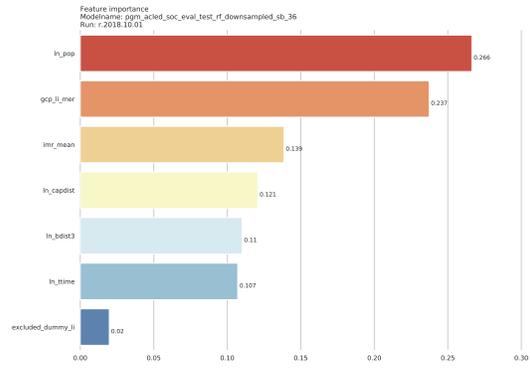
(a) 1 month



(b) 6 months

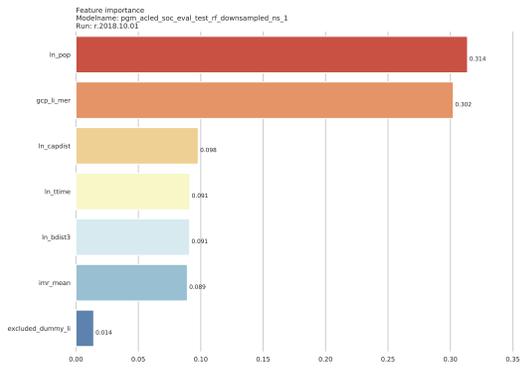


(c) 12 months

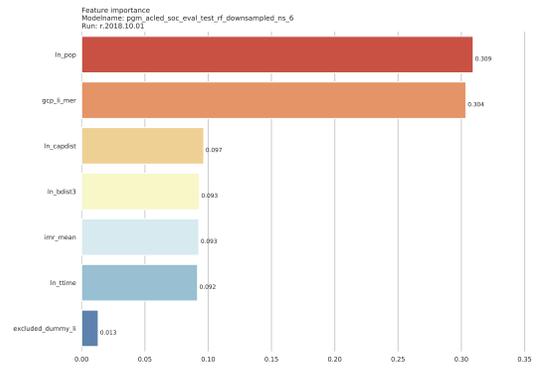


(d) 36 months

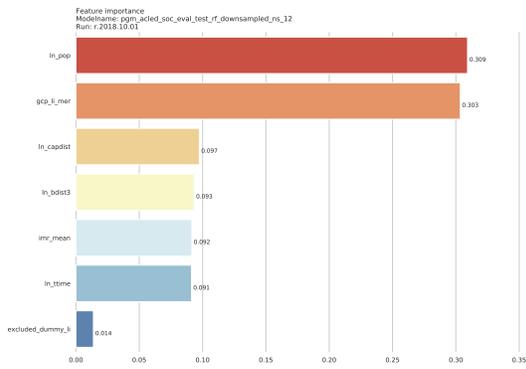
4.18.6 ns_eval



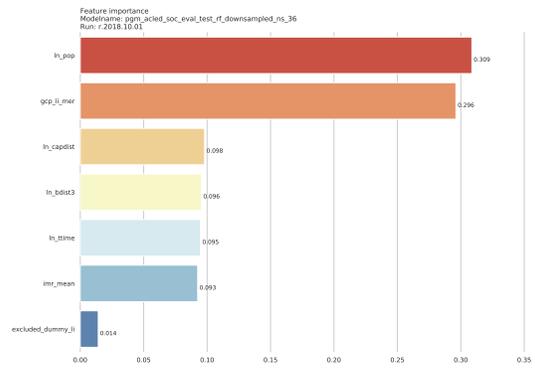
(a) 1 month



(b) 6 months

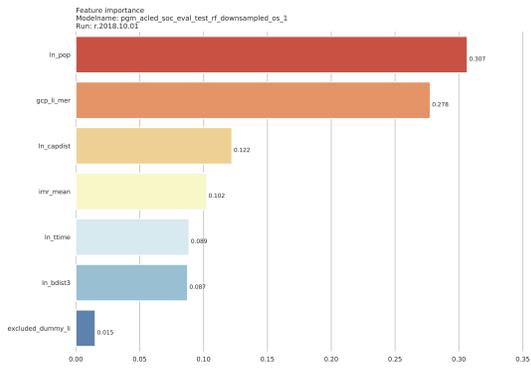


(c) 12 months

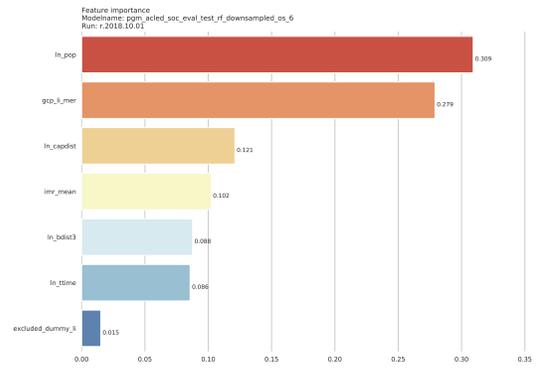


(d) 36 months

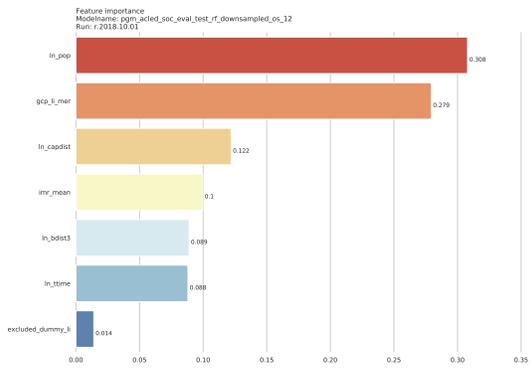
4.18.7 os_eval



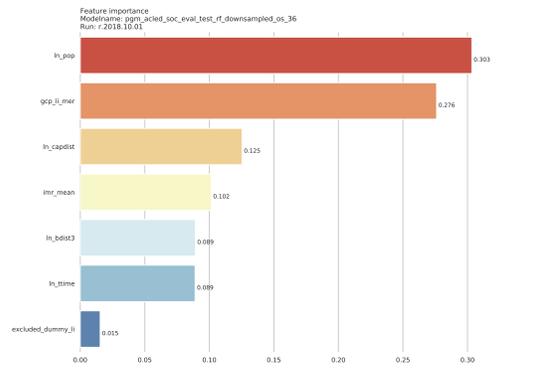
(a) 1 month



(b) 6 months

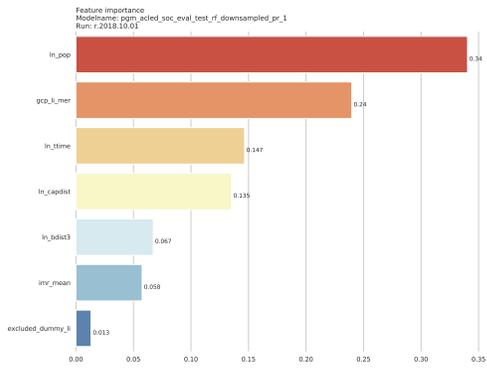


(c) 12 months

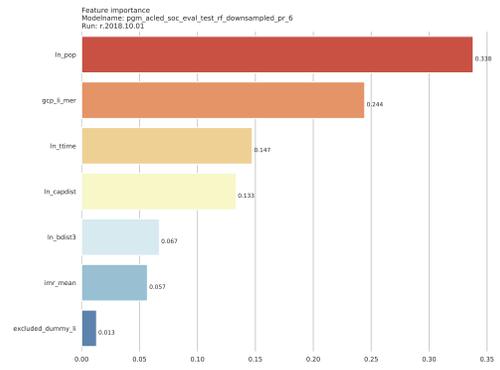


(d) 36 months

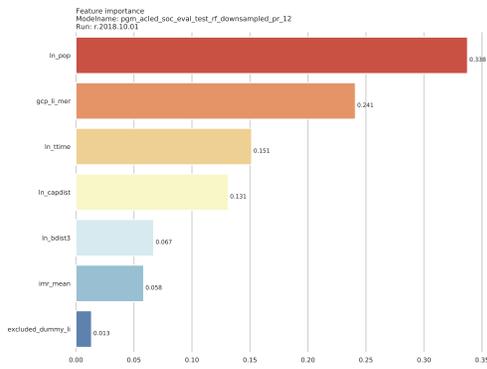
4.18.8 pr_eval



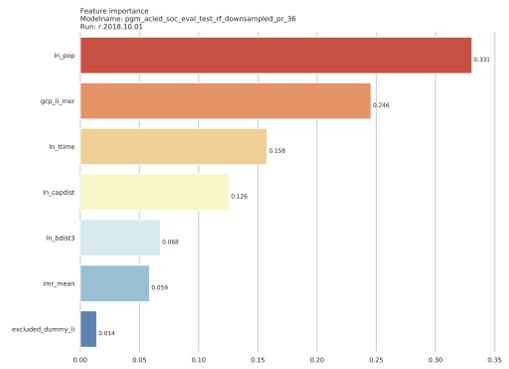
(a) 1 month



(b) 6 months

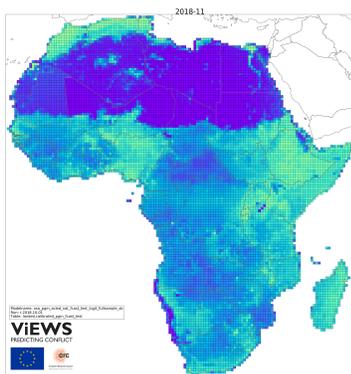


(c) 12 months

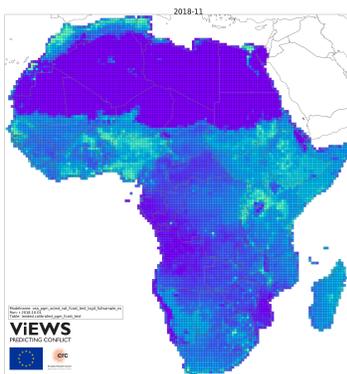


(d) 36 months

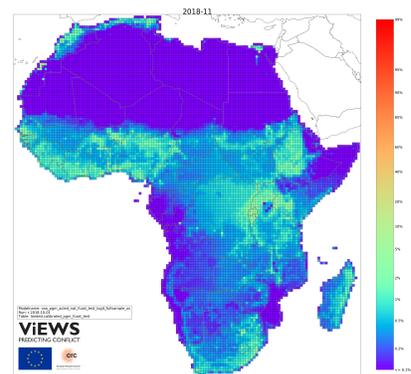
4.19 osa_pgm_acled_nat_logit



(a) State-based conflict (sb), October 2018



(b) Non-state conflict (ns), October 2018



(c) One-sided violence (os), October 2018

Figure 80: Forecasts for October 2018

4.19.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	284857			
Model:	Logit	Df Residuals:	284846			
Method:	MLE	Df Model:	10			
Date:	Thu, 04 Oct 2018	Pseudo R-squ.:	0.1310			
Time:	22:16:24	Log-Likelihood:	-35452.			
converged:	True	LL-Null:	-40794.			
	coef	std err	z	P> z	[0.025	0.975]
ln_dist_diamsec	0.6738	0.019	35.833	0.000	0.637	0.711
ln_dist_petroleum	0.1850	0.023	8.191	0.000	0.141	0.229
agri_ih_li	0.0132	0.001	17.116	0.000	0.012	0.015
barren_ih_li	-0.0302	0.001	-36.412	0.000	-0.032	-0.029
forest_ih_li	-0.0026	0.001	-3.301	0.001	-0.004	-0.001
mountains_mean	0.6055	0.035	17.490	0.000	0.538	0.673
savanna_ih_li	-0.0111	0.001	-13.409	0.000	-0.013	-0.009
shrub_ih_li	0.0055	0.001	6.407	0.000	0.004	0.007
pasture_ih_li	-0.0055	0.001	-8.378	0.000	-0.007	-0.004
urban_ih_li	0.1930	0.007	26.590	0.000	0.179	0.207
Intercept	-4.8864	0.093	-52.661	0.000	-5.068	-4.704

4.19.2 ns_fcast

Dep. Variable:		ged_dummy_ns	No. Observations:		279297	
Model:		Logit	Df Residuals:		279286	
Method:		MLE	Df Model:		10	
Date:		Thu, 04 Oct 2018	Pseudo R-squ.:		0.1141	
Time:		22:36:13	Log-Likelihood:		-14973.	
converged:		True	LL-Null:		-16901.	
	coef	std err	z	P> z	[0.025	0.975]
ln_dist_diamsec	0.4828	0.032	14.982	0.000	0.420	0.546
ln_dist_petroleum	0.6956	0.044	15.858	0.000	0.610	0.782
agri_ih_li	0.0335	0.001	22.813	0.000	0.031	0.036
barren_ih_li	-0.0155	0.002	-9.490	0.000	-0.019	-0.012
forest_ih_li	0.0077	0.002	4.871	0.000	0.005	0.011
mountains_mean	0.0394	0.065	0.607	0.544	-0.088	0.167
savanna_ih_li	0.0028	0.002	1.810	0.070	-0.000	0.006
shrub_ih_li	0.0194	0.002	11.347	0.000	0.016	0.023
pasture_ih_li	0.0073	0.001	5.398	0.000	0.005	0.010
urban_ih_li	0.2161	0.009	24.052	0.000	0.199	0.234
Intercept	-8.0188	0.183	-43.726	0.000	-8.378	-7.659

4.19.3 os_fcast

	coef	std err	z	P> z	[0.025	0.975]
Dep. Variable:	ged_dummy_os					
Model:	Logit					
Method:	MLE					
Date:	Thu, 04 Oct 2018					
Time:	22:31:10					
converged:	True					
No. Observations:						282023
Df Residuals:						282012
Df Model:						10
Pseudo R-squ.:						0.1317
Log-Likelihood:						-25542.
LL-Null:						-29415.
ln_dist_diamsec	-0.0179	0.022	-0.796	0.426	-0.062	0.026
ln_dist_petroleum	1.0426	0.033	31.175	0.000	0.977	1.108
agri_ih_li	0.0240	0.001	24.482	0.000	0.022	0.026
barren_ih_li	-0.0244	0.001	-18.619	0.000	-0.027	-0.022
forest_ih_li	0.0070	0.001	7.744	0.000	0.005	0.009
mountains_mean	1.0407	0.042	25.043	0.000	0.959	1.122
savanna_ih_li	0.0013	0.001	1.362	0.173	-0.001	0.003
shrub_ih_li	-0.0128	0.002	-7.651	0.000	-0.016	-0.010
pasture_ih_li	-0.0039	0.001	-4.366	0.000	-0.006	-0.002
urban_ih_li	0.2268	0.008	29.012	0.000	0.211	0.242
Intercept	-6.6128	0.121	-54.564	0.000	-6.850	-6.375

4.19.4 pr_fcast

Dep. Variable:	acled_dummy_pr	No. Observations:	296508
Model:	Logit	Df Residuals:	296497
Method:	MLE	Df Model:	10
Date:	Thu, 04 Oct 2018	Pseudo R-squ.:	0.2727
Time:	22:34:30	Log-Likelihood:	-57367.
converged:	True	LL-Null:	-78874.

	coef	std err	z	P> z	[0.025	0.975]
ln_dist_diamsec	0.2452	0.014	17.823	0.000	0.218	0.272
ln_dist_petroleum	0.1545	0.016	9.410	0.000	0.122	0.187
agri_ih_li	0.0261	0.001	45.751	0.000	0.025	0.027
barren_ih_li	-0.0161	0.001	-29.238	0.000	-0.017	-0.015
forest_ih_li	-0.0048	0.001	-7.542	0.000	-0.006	-0.004
mountains_mean	0.6728	0.027	25.017	0.000	0.620	0.726
savanna_ih_li	-0.0103	0.001	-16.738	0.000	-0.012	-0.009
shrub_ih_li	-0.0018	0.001	-2.223	0.026	-0.003	-0.000
pasture_ih_li	-0.0035	0.001	-6.730	0.000	-0.004	-0.002
urban_ih_li	0.8156	0.009	89.276	0.000	0.798	0.833
Intercept	-3.7655	0.068	-55.415	0.000	-3.899	-3.632

4.19.5 sb_eval

Dep. Variable:		ged_dummy_sb	No. Observations:		236033	
Model:		Logit	Df Residuals:		236022	
Method:		MLE	Df Model:		10	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.1435	
Time:		02:18:50	Log-Likelihood:		-27588.	
converged:		True	LL-Null:		-32209.	
	coef	std err	z	P> z	[0.025	0.975]
ln_dist_diamsec	0.7079	0.021	33.038	0.000	0.666	0.750
ln_dist_petroleum	0.0657	0.025	2.619	0.009	0.017	0.115
agri_ih_li	0.0105	0.001	12.083	0.000	0.009	0.012
barren_ih_li	-0.0327	0.001	-34.749	0.000	-0.035	-0.031
forest_ih_li	-0.0030	0.001	-3.335	0.001	-0.005	-0.001
mountains_mean	0.7507	0.039	19.401	0.000	0.675	0.827
savanna_ih_li	-0.0121	0.001	-13.002	0.000	-0.014	-0.010
shrub_ih_li	0.0060	0.001	6.281	0.000	0.004	0.008
pasture_ih_li	-0.0073	0.001	-10.125	0.000	-0.009	-0.006
urban_ih_li	0.2271	0.009	25.586	0.000	0.210	0.244
Intercept	-4.6647	0.103	-45.146	0.000	-4.867	-4.462

4.19.6 ns_eval

Dep. Variable:		ged_dummy_ns	No. Observations:		231437	
Model:		Logit	Df Residuals:		231426	
Method:		MLE	Df Model:		10	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.1358	
Time:		02:11:12	Log-Likelihood:		-10304.	
converged:		True	LL-Null:		-11923.	
	coef	std err	z	P> z	[0.025	0.975]
ln_dist_diamsec	0.7535	0.041	18.590	0.000	0.674	0.833
ln_dist_petroleum	1.2321	0.059	20.793	0.000	1.116	1.348
agri_ih_li	0.0354	0.002	19.314	0.000	0.032	0.039
barren_ih_li	-0.0148	0.002	-7.070	0.000	-0.019	-0.011
forest_ih_li	0.0134	0.002	6.927	0.000	0.010	0.017
mountains_mean	0.1212	0.077	1.566	0.117	-0.030	0.273
savanna_ih_li	0.0039	0.002	1.952	0.051	-1.67e-05	0.008
shrub_ih_li	0.0261	0.002	12.835	0.000	0.022	0.030
pasture_ih_li	0.0113	0.002	6.852	0.000	0.008	0.015
urban_ih_li	0.2294	0.010	22.628	0.000	0.209	0.249
Intercept	-10.5162	0.240	-43.875	0.000	-10.986	-10.046

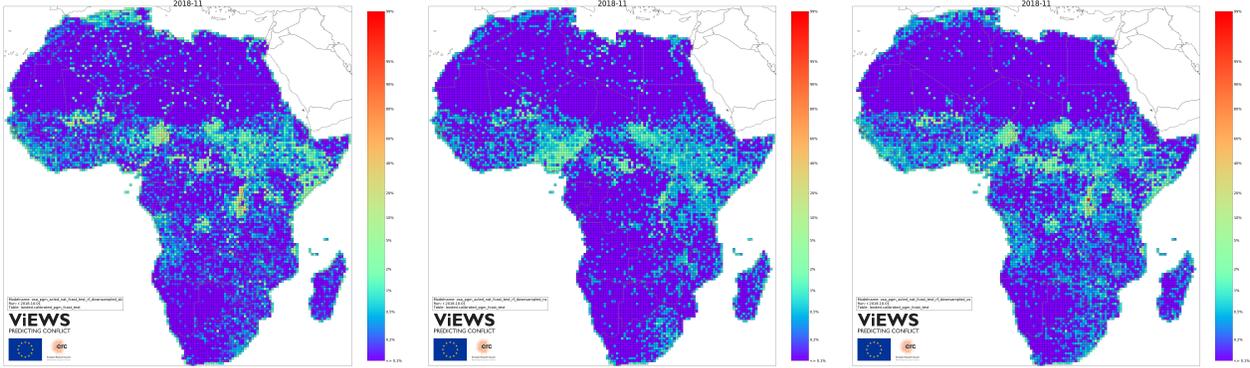
4.19.7 os_eval

Dep. Variable:		ged_dummy_os	No. Observations:		233592	
Model:		Logit	Df Residuals:		233581	
Method:		MLE	Df Model:		10	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.1335	
Time:		01:56:36	Log-Likelihood:		-19210.	
converged:		True	LL-Null:		-22170.	
	coef	std err	z	P> z	[0.025	0.975]
ln_dist_diamsec	0.0187	0.026	0.715	0.475	-0.033	0.070
ln_dist_petroleum	0.9973	0.038	26.145	0.000	0.922	1.072
agri_ih_li	0.0212	0.001	18.727	0.000	0.019	0.023
barren_ih_li	-0.0287	0.002	-17.632	0.000	-0.032	-0.026
forest_ih_li	0.0083	0.001	8.223	0.000	0.006	0.010
mountains_mean	1.0655	0.048	22.132	0.000	0.971	1.160
savanna_ih_li	0.0008	0.001	0.808	0.419	-0.001	0.003
shrub_ih_li	-0.0146	0.002	-7.435	0.000	-0.018	-0.011
pasture_ih_li	-0.0059	0.001	-5.784	0.000	-0.008	-0.004
urban_ih_li	0.2550	0.009	27.386	0.000	0.237	0.273
Intercept	-6.5773	0.137	-47.959	0.000	-6.846	-6.308

4.19.8 pr_eval

Dep. Variable:	acled_dummy_pr	No. Observations:	240197				
Model:	Logit	Df Residuals:	240186				
Method:	MLE	Df Model:	10				
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.2635				
Time:	01:54:22	Log-Likelihood:	-34714.				
converged:	True	LL-Null:	-47134.				
	coef	std err	z	P> z	[0.025	0.975]	
ln_dist_diamsec	0.1469	0.018	8.043	0.000	0.111	0.183	
ln_dist_petroleum	0.2723	0.022	12.129	0.000	0.228	0.316	
agri_ih_li	0.0243	0.001	33.348	0.000	0.023	0.026	
barren_ih_li	-0.0165	0.001	-23.097	0.000	-0.018	-0.015	
forest_ih_li	-0.0077	0.001	-9.141	0.000	-0.009	-0.006	
mountains_mean	0.5520	0.037	15.060	0.000	0.480	0.624	
savanna_ih_li	-0.0116	0.001	-14.640	0.000	-0.013	-0.010	
shrub_ih_li	-0.0013	0.001	-1.246	0.213	-0.003	0.001	
pasture_ih_li	-0.0061	0.001	-9.032	0.000	-0.007	-0.005	
urban_ih_li	0.7659	0.011	71.718	0.000	0.745	0.787	
Intercept	-4.0806	0.090	-45.436	0.000	-4.257	-3.905	

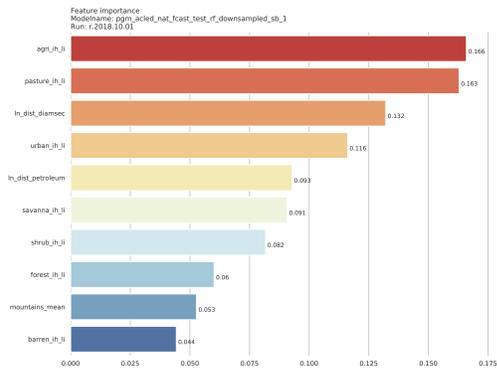
4.20 osa_pgm_acled_nat_rf



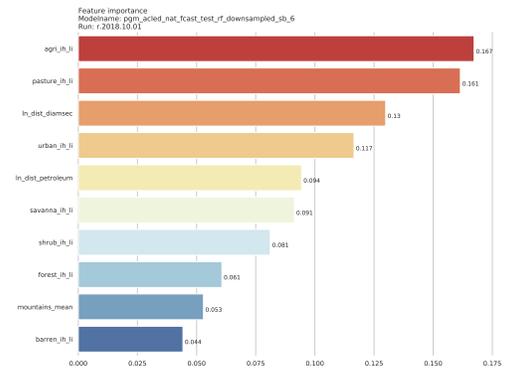
(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 81: Forecasts for October 2018

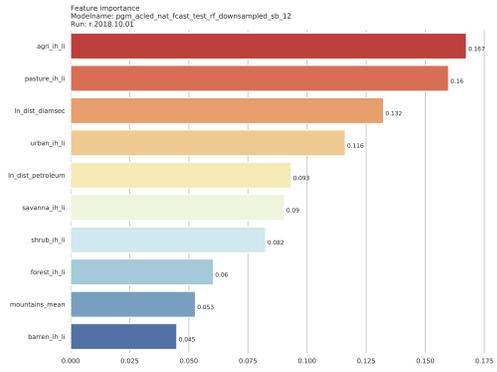
4.20.1 sb_fcast



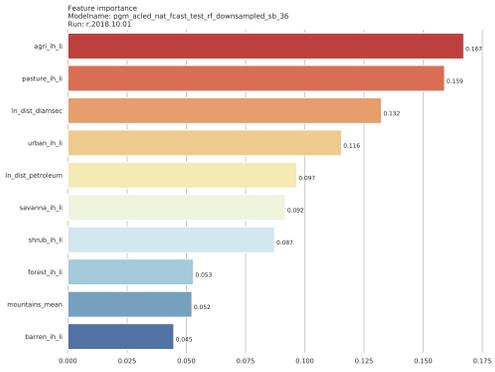
(a) 1 month



(b) 6 months

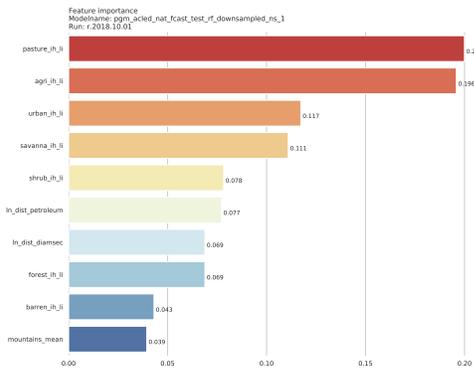


(c) 12 months

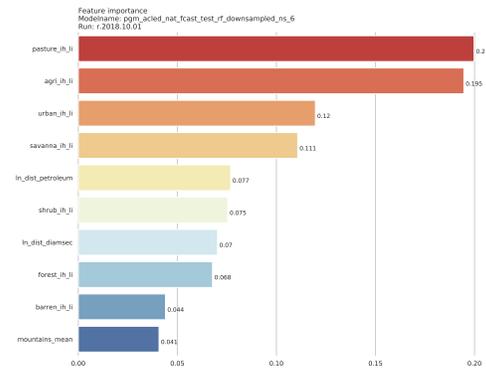


(d) 36 months

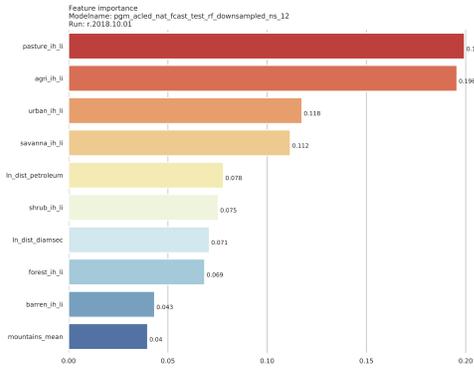
4.20.2 ns_fcst



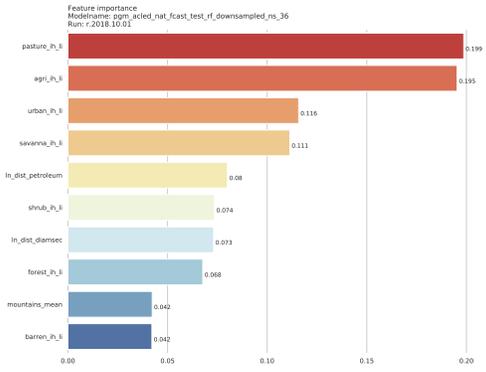
(a) 1 month



(b) 6 months

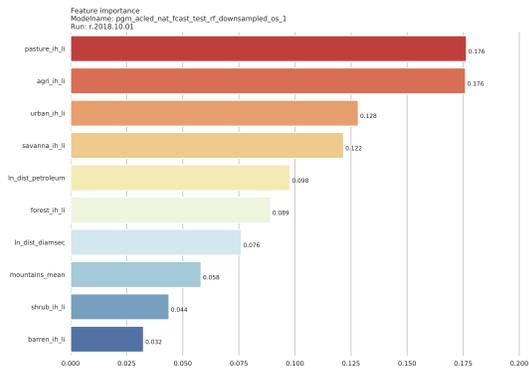


(c) 12 months

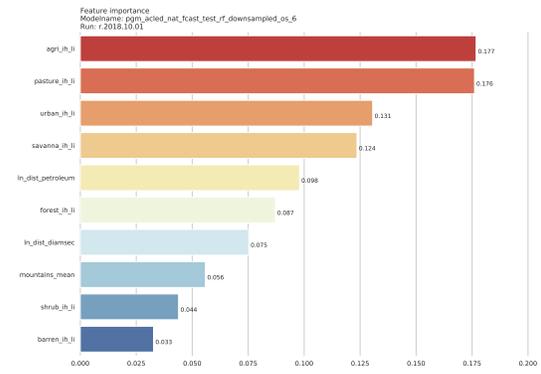


(d) 36 months

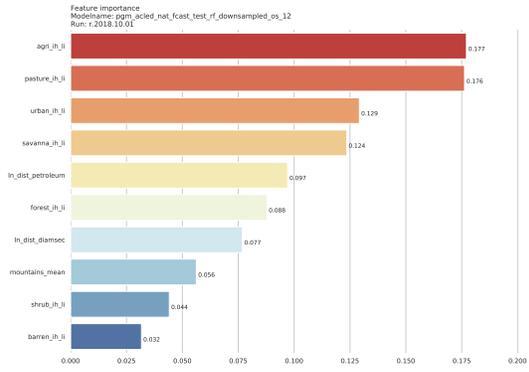
4.20.3 os_fcst



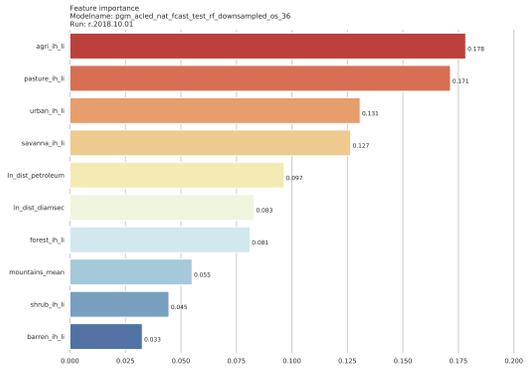
(a) 1 month



(b) 6 months

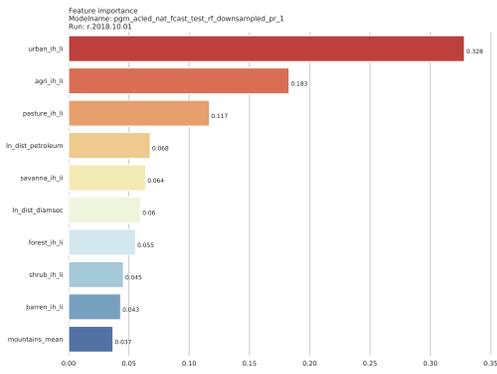


(c) 12 months

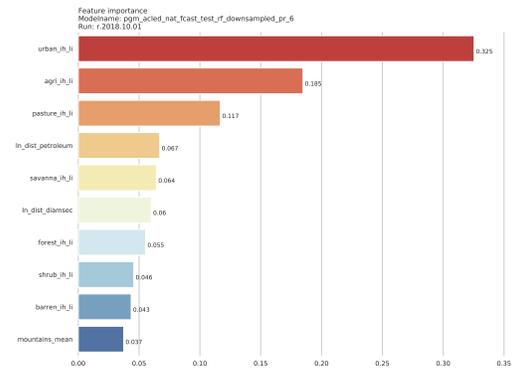


(d) 36 months

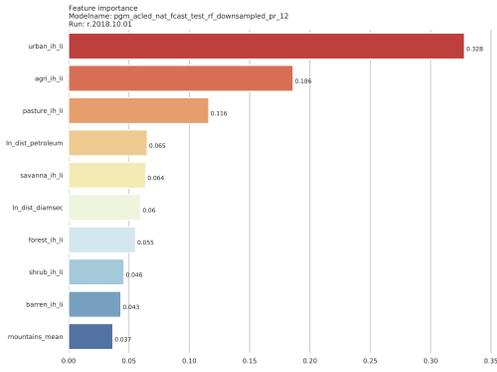
4.20.4 pr_fcst



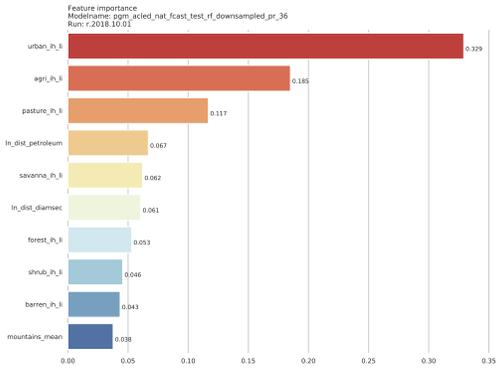
(a) 1 month



(b) 6 months

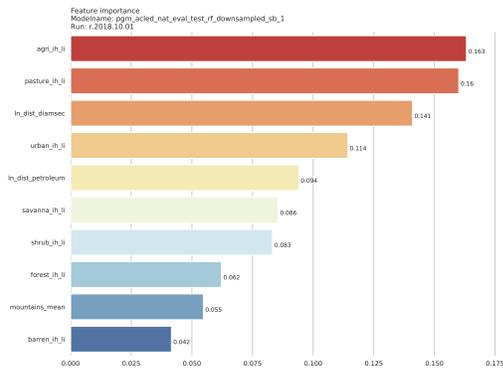


(c) 12 months

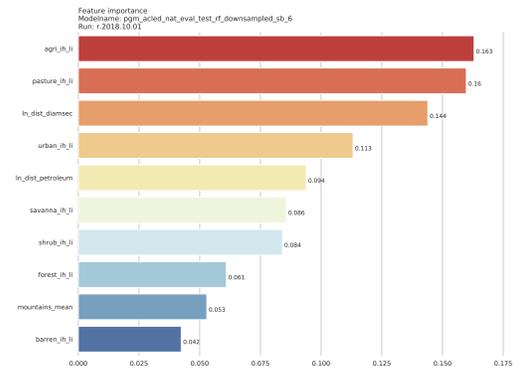


(d) 36 months

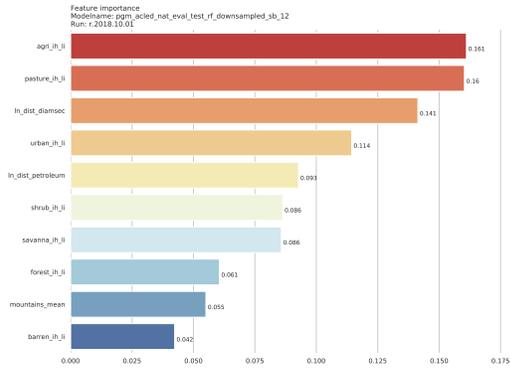
4.20.5 sb_eval



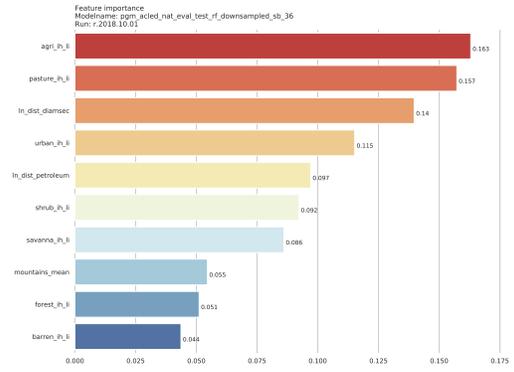
(a) 1 month



(b) 6 months

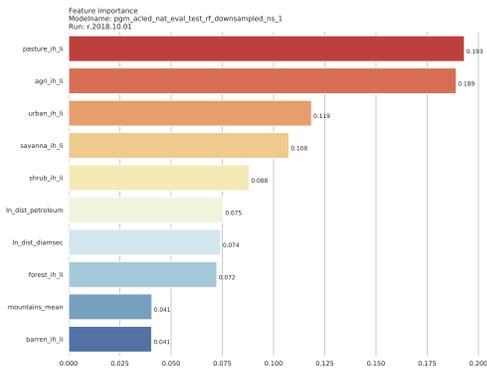


(c) 12 months

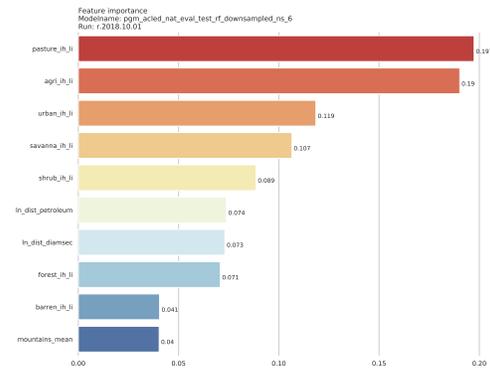


(d) 36 months

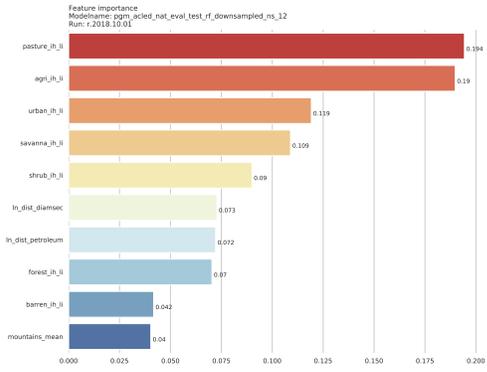
4.20.6 ns_eval



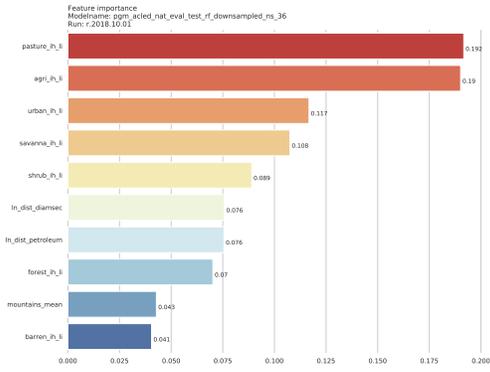
(a) 1 month



(b) 6 months

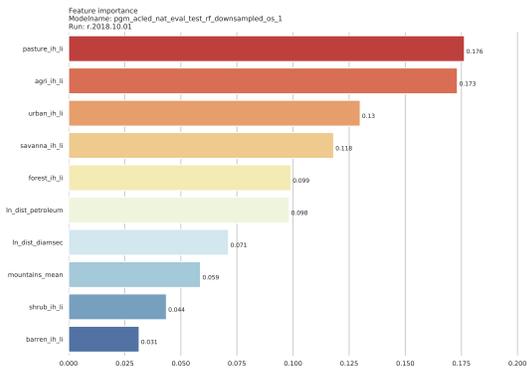


(c) 12 months

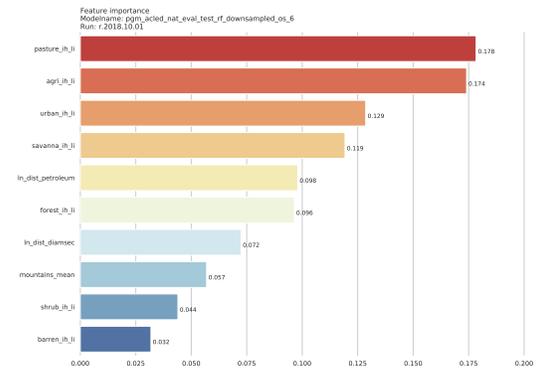


(d) 36 months

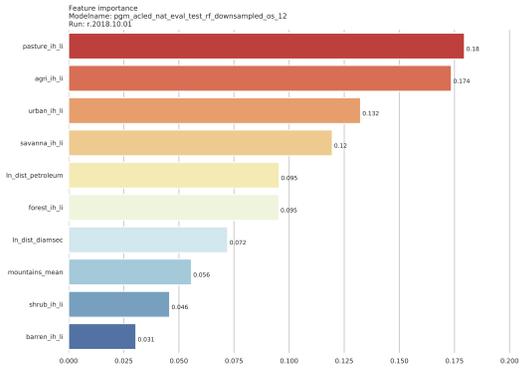
4.20.7 os_eval



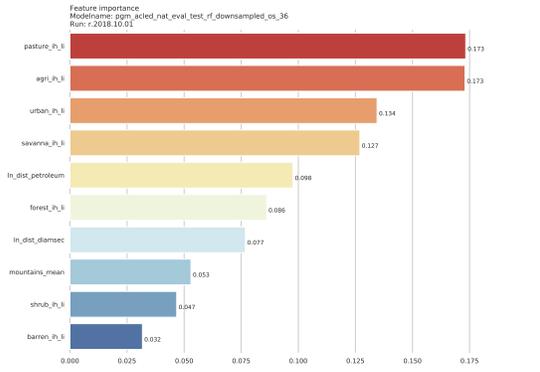
(a) 1 month



(b) 6 months

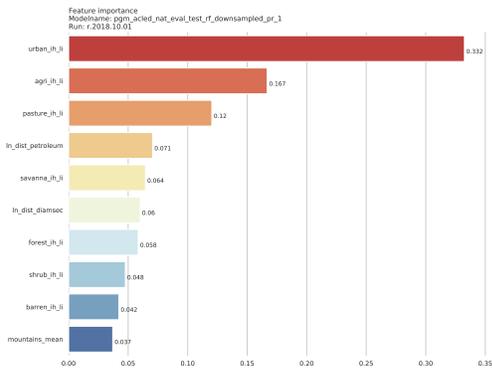


(c) 12 months

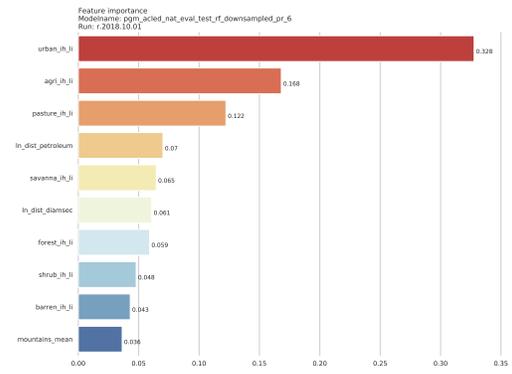


(d) 36 months

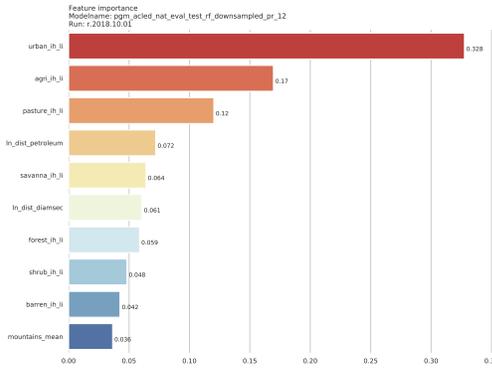
4.20.8 pr_eval



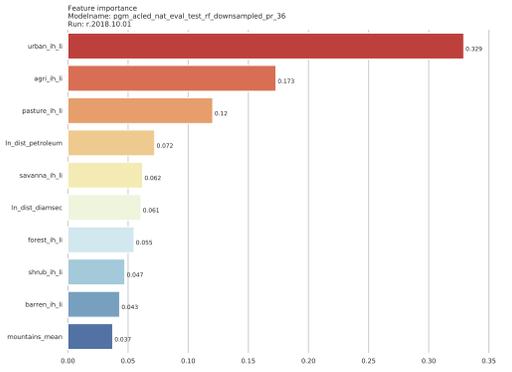
(a) 1 month



(b) 6 months

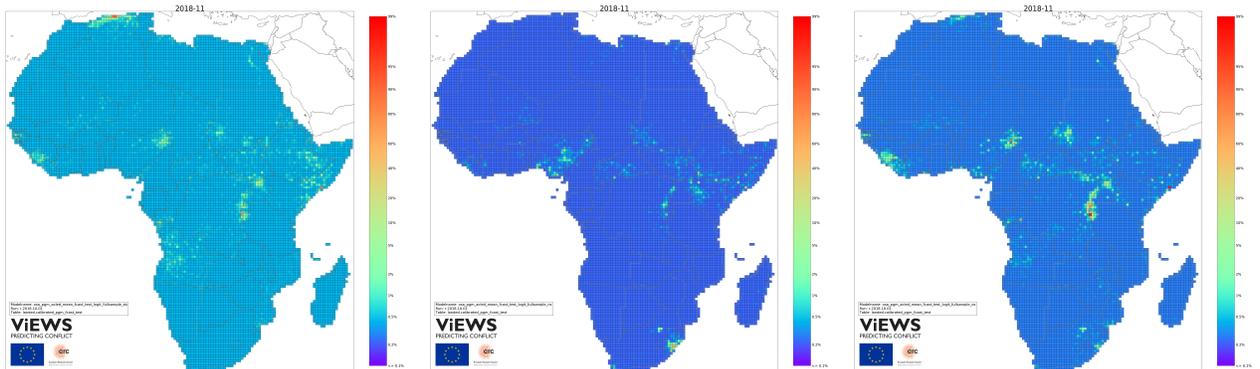


(c) 12 months



(d) 36 months

4.21 osa_pgm_acled_mean_logit



(a) State-based conflict (sb), October 2018

(b) Non-state conflict (ns), October 2018

(c) One-sided violence (os), October 2018

Figure 90: Forecasts for October 2018

4.21.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	284857			
Model:	Logit	Df Residuals:	284855			
Method:	MLE	Df Model:	1			
Date:	Thu, 04 Oct 2018	Pseudo R-squ.:	0.3230			
Time:	20:05:22	Log-Likelihood:	-27619.			
converged:	True	LL-Null:	-40794.			
	coef	std err	z	P> z 	[0.025	0.975]
mean_ged_dummy_sb_fcast_test	41.1728	0.355	115.995	0.000	40.477	41.868
Intercept	-4.1299	0.015	-279.179	0.000	-4.159	-4.101

4.21.2 ns_fcast

Dep. Variable:	ged_dummy_ns	No. Observations:	279297			
Model:	Logit	Df Residuals:	279295			
Method:	MLE	Df Model:	1			
Date:	Thu, 04 Oct 2018	Pseudo R-squ.:	0.1793			
Time:	20:06:57	Log-Likelihood:	-13870.			
converged:	True	LL-Null:	-16901.			
	coef	std err	z	P> z 	[0.025	0.975]
mean_ged_dummy_ns_fcast_test	57.0043	0.864	65.956	0.000	55.310	58.698
Intercept	-4.8722	0.021	-226.750	0.000	-4.914	-4.830

4.21.3 os_fcast

Dep. Variable:	ged_dummy_os	No. Observations:	282023			
Model:	Logit	Df Residuals:	282021			
Method:	MLE	Df Model:	1			
Date:	Thu, 04 Oct 2018	Pseudo R-squ.:	0.2890			
Time:	20:05:53	Log-Likelihood:	-20914.			
converged:	True	LL-Null:	-29415.			
	coef	std err	z	P> z 	[0.025	0.975]
mean_ged_dummy_os_fcast_test	54.1148	0.526	102.860	0.000	53.084	55.146
Intercept	-4.4707	0.018	-255.267	0.000	-4.505	-4.436

4.21.4 pr_fcast

Dep. Variable:	acled_dummy_pr	No. Observations:	296508			
Model:	Logit	Df Residuals:	296506			
Method:	MLE	Df Model:	1			
Date:	Thu, 04 Oct 2018	Pseudo R-squ.:	0.3994			
Time:	20:05:44	Log-Likelihood:	-47370.			
converged:	True	LL-Null:	-78874.			
	coef	std err	z	P> z 	[0.025	0.975]
mean_acled_dummy_pr_fcast_test	33.3088	0.203	164.202	0.000	32.911	33.706
Intercept	-3.5093	0.011	-319.653	0.000	-3.531	-3.488

4.21.5 sb_eval

Dep. Variable:	ged_dummy_sb	No. Observations:	236033			
Model:	Logit	Df Residuals:	236031			
Method:	MLE	Df Model:	1			
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.3352			
Time:	02:06:39	Log-Likelihood:	-21413.			
converged:	True	LL-Null:	-32209.			
	coef	std err	z	P> z 	[0.025	0.975]
mean_ged_dummy_sb_eval_test	41.0259	0.407	100.841	0.000	40.229	41.823
Intercept	-4.2041	0.017	-249.556	0.000	-4.237	-4.171

4.21.6 ns_eval

Dep. Variable:	ged_dummy_ns	No. Observations:	231437			
Model:	Logit	Df Residuals:	231435			
Method:	MLE	Df Model:	1			
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.1703			
Time:	02:14:06	Log-Likelihood:	-9892.6			
converged:	True	LL-Null:	-11923.			
	coef	std err	z	P> z 	[0.025	0.975]
mean_ged_dummy_ns_eval_test	54.5154	0.964	56.543	0.000	52.626	56.405
Intercept	-5.0375	0.026	-196.507	0.000	-5.088	-4.987

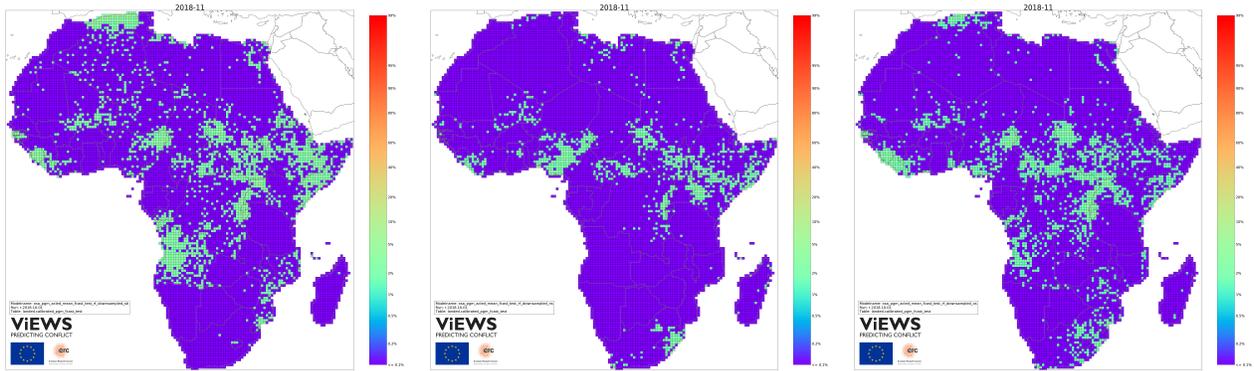
4.21.7 os_eval

Dep. Variable:	ged_dummy_os	No. Observations:	233592			
Model:	Logit	Df Residuals:	233590			
Method:	MLE	Df Model:	1			
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.2797			
Time:	02:12:15	Log-Likelihood:	-15970.			
converged:	True	LL-Null:	-22170.			
	coef	std err	z	P> z 	[0.025	0.975]
mean_ged_dummy_os_eval_test	53.0613	0.617	86.056	0.000	51.853	54.270
Intercept	-4.5496	0.020	-227.453	0.000	-4.589	-4.510

4.21.8 pr_eval

Dep. Variable:	acled_dummy_pr	No. Observations:	240197			
Model:	Logit	Df Residuals:	240195			
Method:	MLE	Df Model:	1			
Date:	Thu, 27 Sep 2018	Pseudo R-squ.:	0.3978			
Time:	02:13:32	Log-Likelihood:	-28384.			
converged:	True	LL-Null:	-47134.			
	coef	std err	z	P> z 	[0.025	0.975]
mean_acled_dummy_pr_eval_test	41.1779	0.334	123.153	0.000	40.523	41.833
Intercept	-3.8771	0.014	-268.793	0.000	-3.905	-3.849

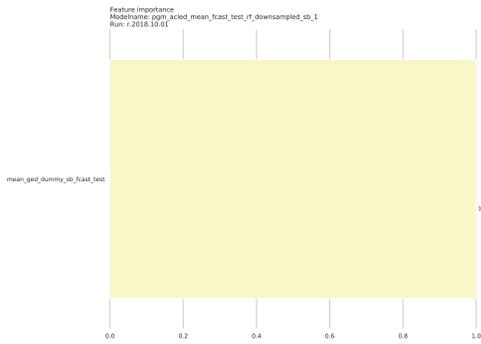
4.22 osa_pgm_acled_mean_rf



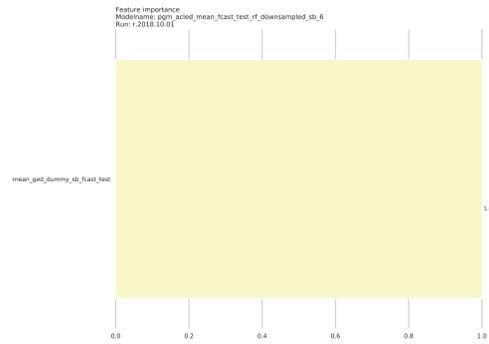
(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 91: Forecasts for October 2018

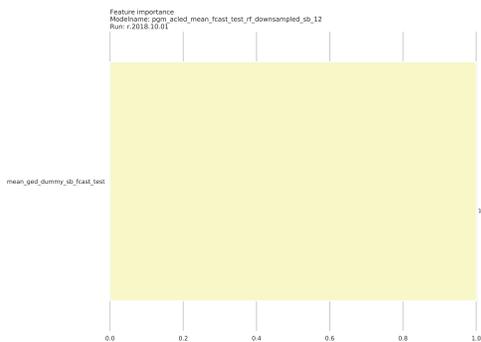
4.22.1 sb_fcast



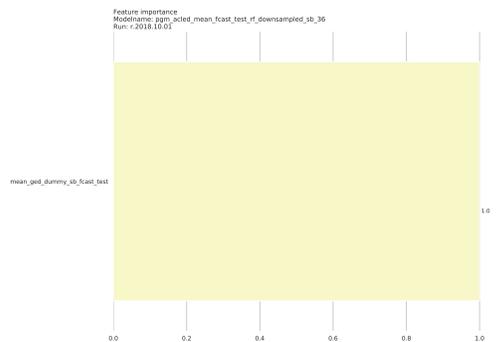
(a) 1 month



(b) 6 months

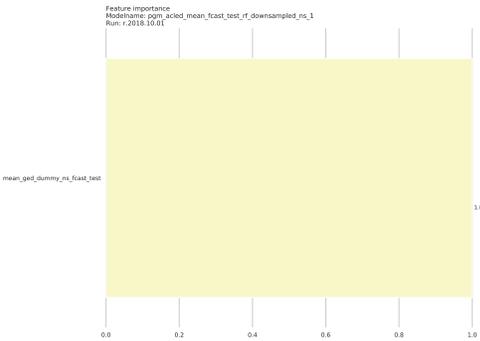


(c) 12 months

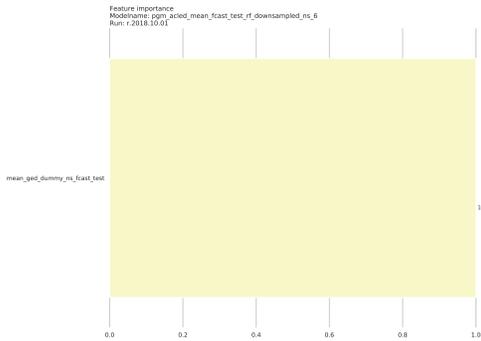


(d) 36 months

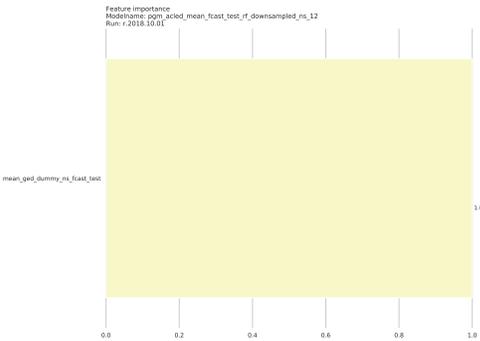
4.22.2 ns_fcast



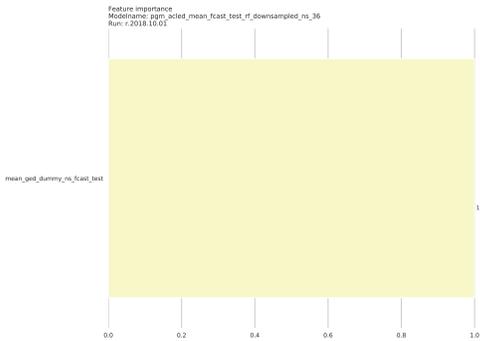
(a) 1 month



(b) 6 months

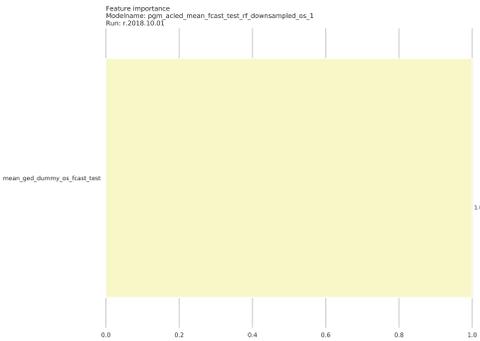


(c) 12 months

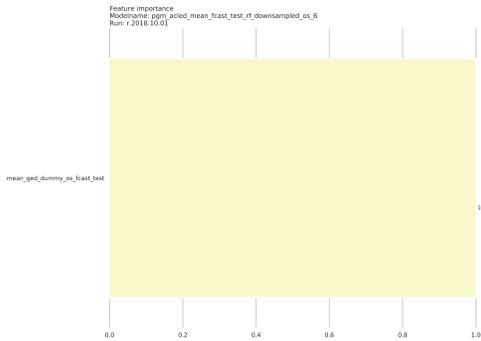


(d) 36 months

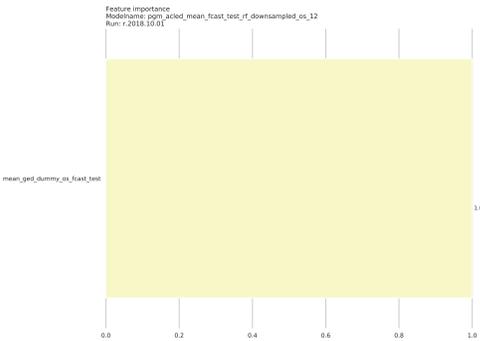
4.22.3 os_fcast



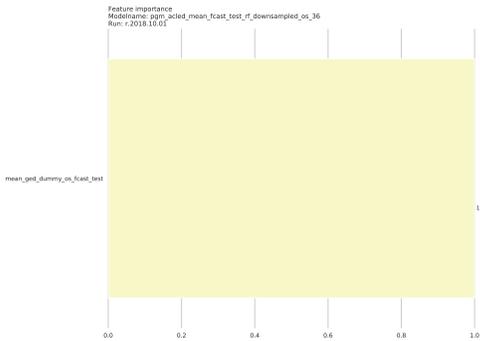
(a) 1 month



(b) 6 months

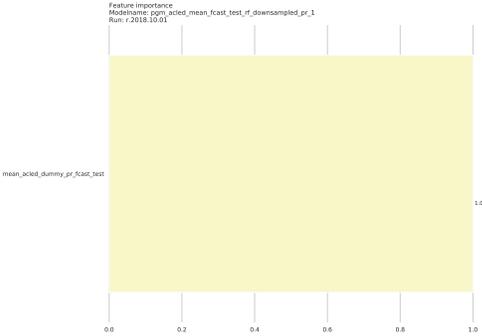


(c) 12 months

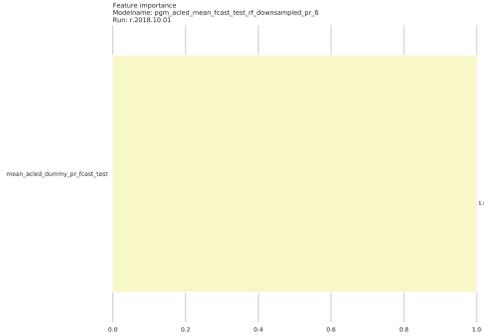


(d) 36 months

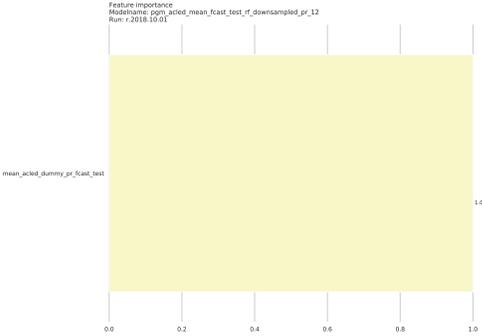
4.22.4 pr_fcast



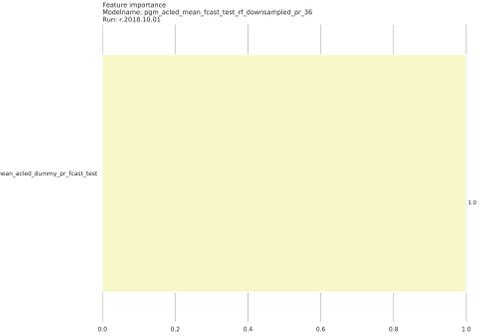
(a) 1 month



(b) 6 months

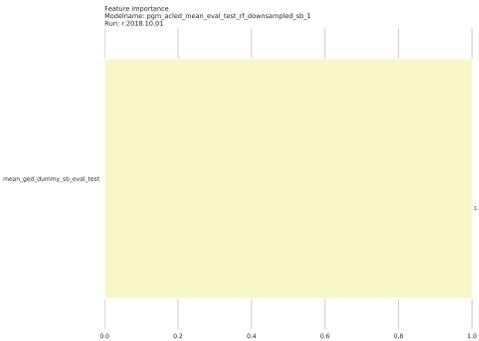


(c) 12 months

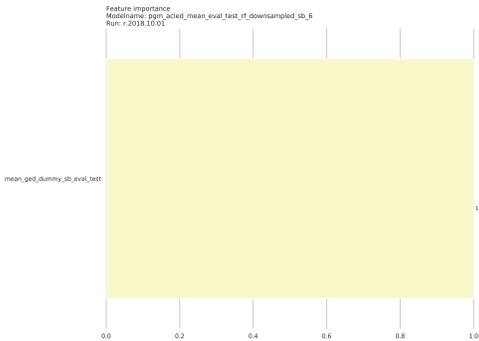


(d) 36 months

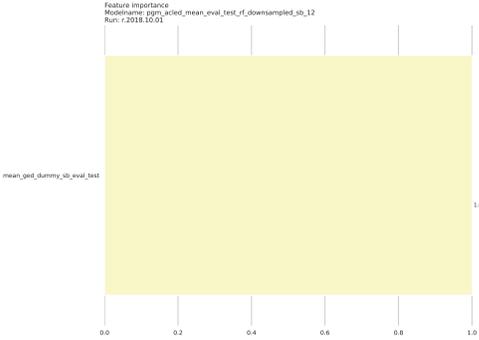
4.22.5 sb_eval



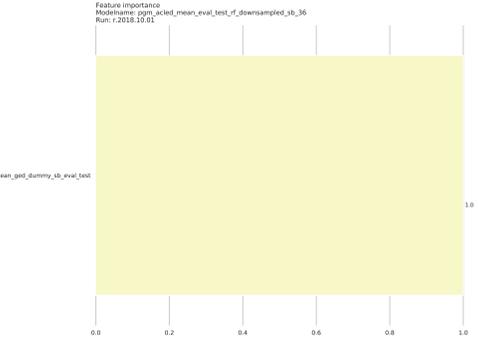
(a) 1 month



(b) 6 months

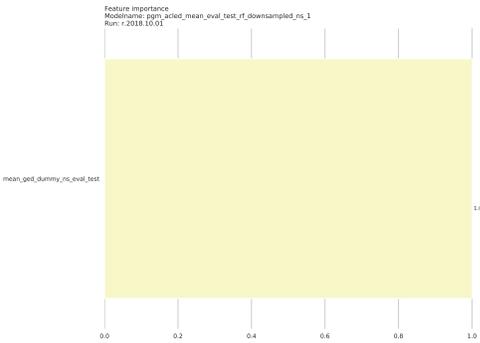


(c) 12 months

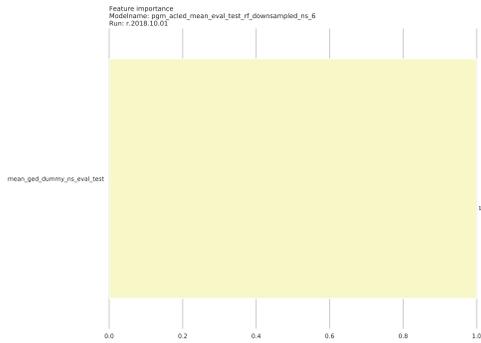


(d) 36 months

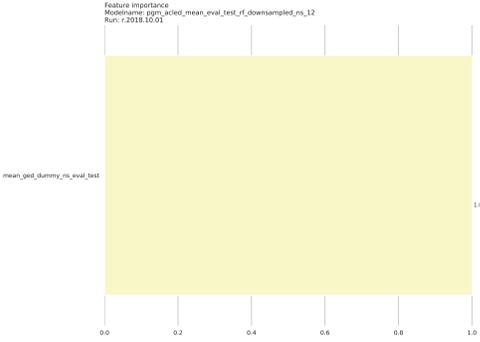
4.22.6 ns_eval



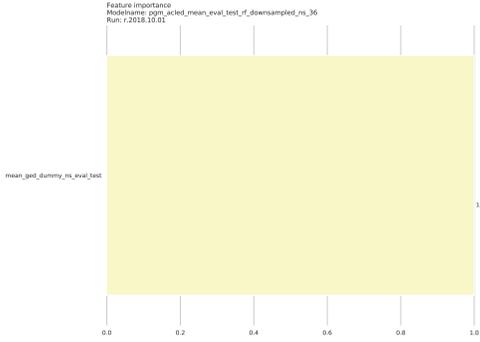
(a) 1 month



(b) 6 months

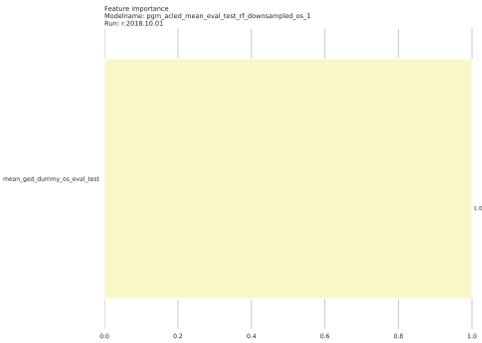


(c) 12 months

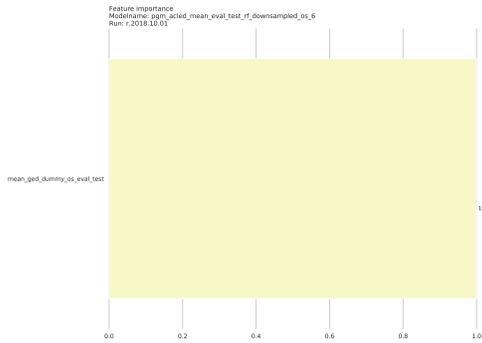


(d) 36 months

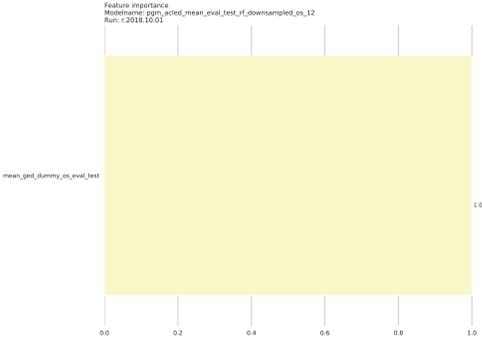
4.22.7 os_eval



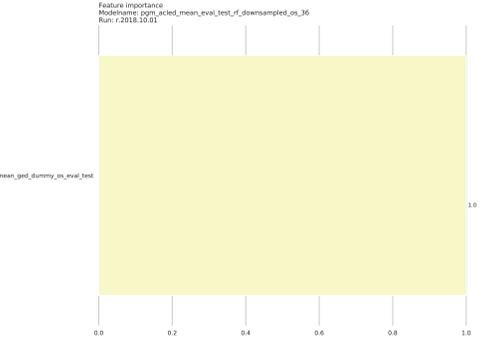
(a) 1 month



(b) 6 months

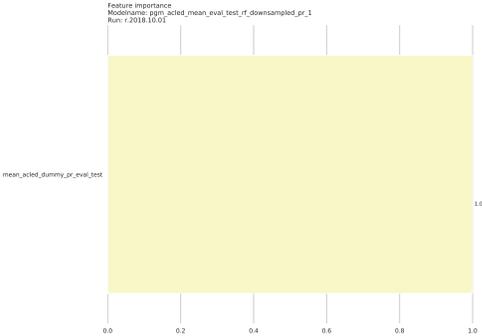


(c) 12 months

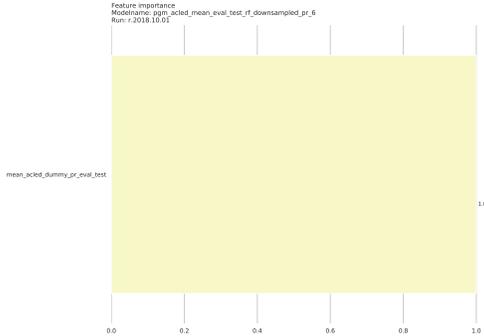


(d) 36 months

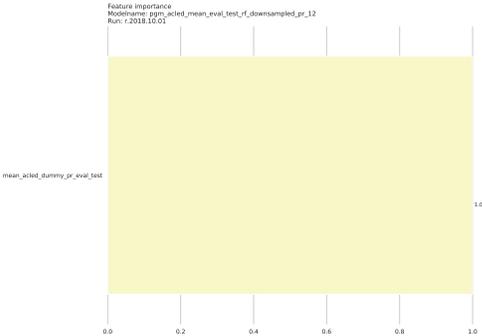
4.22.8 pr_eval



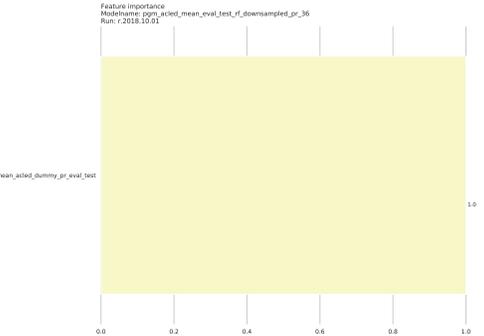
(a) 1 month



(b) 6 months

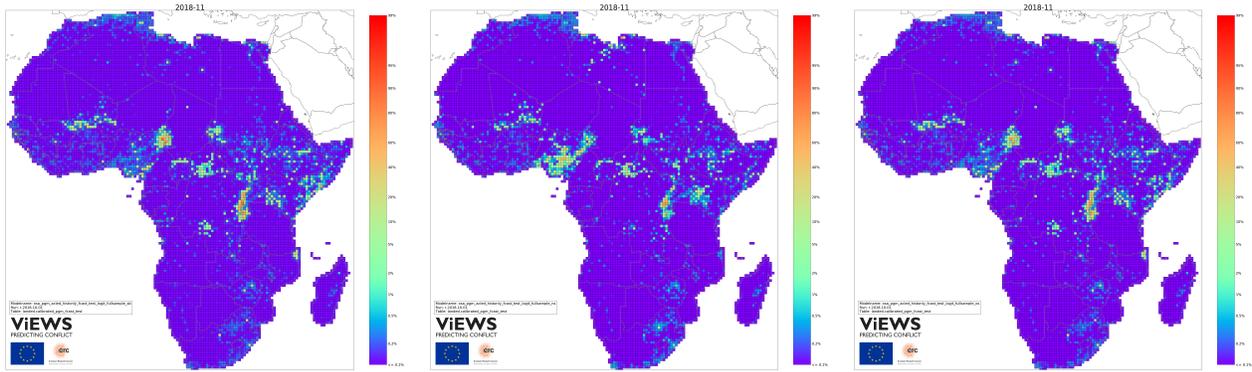


(c) 12 months



(d) 36 months

4.23 osa_pgm_acled_histonly_logit



(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 100: Forecasts for October 2018

4.23.1 sb_fcast

Dep. Variable:	ged_dummy_sb	No. Observations:	284857
Model:	Logit	Df Residuals:	284831
Method:	MLE	Df Model:	25
Date:	Thu, 04 Oct 2018	Pseudo R-squ.:	0.4704
Time:	21:42:26	Log-Likelihood:	-21604.
converged:	True	LL-Null:	-40794.

	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	-0.2570	0.061	-4.238	0.000	-0.376	-0.138
l3_ged_dummy_sb	-0.0013	0.062	-0.020	0.984	-0.123	0.120
l4_ged_dummy_sb	0.0714	0.062	1.161	0.246	-0.049	0.192
l5_ged_dummy_sb	-0.1271	0.063	-2.034	0.042	-0.250	-0.005
l6_ged_dummy_sb	0.2692	0.063	4.259	0.000	0.145	0.393
l7_ged_dummy_sb	0.0768	0.064	1.203	0.229	-0.048	0.202
l8_ged_dummy_sb	0.2349	0.064	3.659	0.000	0.109	0.361
l9_ged_dummy_sb	0.1663	0.065	2.565	0.010	0.039	0.293
l10_ged_dummy_sb	0.3349	0.066	5.080	0.000	0.206	0.464
l11_ged_dummy_sb	0.3266	0.067	4.870	0.000	0.195	0.458
l12_ged_dummy_sb	0.2402	0.068	3.553	0.000	0.108	0.373
q.1.l.l2_ged_dummy_sb	0.2881	0.031	9.253	0.000	0.227	0.349
q.1.l.l3_ged_dummy_sb	0.2793	0.031	9.151	0.000	0.219	0.339
l1_ged_dummy_sb	-0.1865	0.062	-3.006	0.003	-0.308	-0.065
l1_ged_dummy_ns	-0.2714	0.212	-1.281	0.200	-0.687	0.144
l1_ged_dummy_os	-0.0855	0.097	-0.885	0.376	-0.275	0.104
l1_acled_dummy_pr	0.0093	0.101	0.092	0.927	-0.189	0.207
decay_l2_cw_ged_dummy_sb_0	4.3968	0.061	72.060	0.000	4.277	4.516
decay_l2_cw_ged_dummy_ns_0	0.9486	0.109	8.701	0.000	0.735	1.162
decay_l2_cw_ged_dummy_os_0	1.1544	0.069	16.786	0.000	1.020	1.289
decay_l2_cw_acled_dummy_pr_0	0.9889	0.069	14.280	0.000	0.853	1.125
q.1.l.l1_ged_dummy_sb	0.4907	0.031	15.764	0.000	0.430	0.552
q.1.l.l1_ged_dummy_ns	0.2353	0.077	3.044	0.002	0.084	0.387
q.1.l.l1_ged_dummy_os	0.0784	0.037	2.145	0.032	0.007	0.150
q.1.l.l1_acled_dummy_pr	-0.0371	0.036	-1.043	0.297	-0.107	0.033
Intercept	-4.7062	0.020	-237.720	0.000	-4.745	-4.667

4.23.2 ns_fcast

Dep. Variable:		ged_dummy_ns	No. Observations:		279297	
Model:		Logit	Df Residuals:		279271	
Method:		MLE	Df Model:		25	
Date:		Thu, 04 Oct 2018	Pseudo R-squ.:		0.3489	
Time:		21:10:51	Log-Likelihood:		-11004.	
converged:		True	LL-Null:		-16901.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.1156	0.111	1.044	0.297	-0.102	0.333
l3_ged_dummy_ns	-0.2050	0.110	-1.867	0.062	-0.420	0.010
l4_ged_dummy_ns	0.0141	0.112	0.126	0.900	-0.206	0.234
l5_ged_dummy_ns	-0.0962	0.119	-0.810	0.418	-0.329	0.137
l6_ged_dummy_ns	0.0863	0.122	0.707	0.479	-0.153	0.325
l7_ged_dummy_ns	0.0396	0.125	0.316	0.752	-0.206	0.285
l8_ged_dummy_ns	0.4131	0.124	3.318	0.001	0.169	0.657
l9_ged_dummy_ns	0.3553	0.123	2.878	0.004	0.113	0.597
l10_ged_dummy_ns	0.1206	0.137	0.881	0.378	-0.148	0.389
l11_ged_dummy_ns	0.3903	0.131	2.969	0.003	0.133	0.648
l12_ged_dummy_ns	0.4492	0.135	3.318	0.001	0.184	0.715
q_1_1_l2_ged_dummy_ns	0.5635	0.068	8.259	0.000	0.430	0.697
q_1_1_l3_ged_dummy_ns	0.3403	0.072	4.737	0.000	0.199	0.481
l1_ged_dummy_sb	-0.0574	0.181	-0.317	0.751	-0.413	0.298
l1_ged_dummy_ns	-0.1724	0.111	-1.552	0.121	-0.390	0.045
l1_ged_dummy_os	0.0900	0.173	0.520	0.603	-0.249	0.429
l1_acled_dummy_pr	-0.1788	0.119	-1.502	0.133	-0.412	0.054
decay_l2_cw_ged_dummy_sb_0	0.7733	0.130	5.967	0.000	0.519	1.027
decay_l2_cw_ged_dummy_ns_0	4.8046	0.105	45.811	0.000	4.599	5.010
decay_l2_cw_ged_dummy_os_0	1.0029	0.127	7.924	0.000	0.755	1.251
decay_l2_cw_acled_dummy_pr_0	1.4156	0.090	15.693	0.000	1.239	1.592
q_1_1_l1_ged_dummy_sb	-0.0801	0.071	-1.125	0.261	-0.220	0.059
q_1_1_l1_ged_dummy_ns	0.9791	0.064	15.189	0.000	0.853	1.105
q_1_1_l1_ged_dummy_os	0.1460	0.070	2.087	0.037	0.009	0.283
q_1_1_l1_acled_dummy_pr	0.1948	0.037	5.312	0.000	0.123	0.267
Intercept	-5.4407	0.028	-192.059	0.000	-5.496	-5.385

4.23.3 os_fcast

Dep. Variable:		ged_dummy_os	No. Observations:		282023	
Model:		Logit	Df Residuals:		281997	
Method:		MLE	Df Model:		25	
Date:		Thu, 04 Oct 2018	Pseudo R-squ.:		0.4445	
Time:		21:20:31	Log-Likelihood:		-16341.	
converged:		True	LL-Null:		-29415.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	-0.0886	0.078	-1.132	0.257	-0.242	0.065
l3_ged_dummy_os	-0.1291	0.079	-1.633	0.103	-0.284	0.026
l4_ged_dummy_os	-0.0417	0.080	-0.518	0.604	-0.199	0.116
l5_ged_dummy_os	-0.0153	0.080	-0.192	0.848	-0.171	0.141
l6_ged_dummy_os	0.2062	0.081	2.542	0.011	0.047	0.365
l7_ged_dummy_os	0.0620	0.085	0.732	0.464	-0.104	0.228
l8_ged_dummy_os	0.1006	0.085	1.179	0.239	-0.067	0.268
l9_ged_dummy_os	0.0720	0.085	0.843	0.399	-0.095	0.239
l10_ged_dummy_os	0.0236	0.086	0.274	0.784	-0.145	0.192
l11_ged_dummy_os	0.2670	0.086	3.108	0.002	0.099	0.435
l12_ged_dummy_os	0.1798	0.088	2.036	0.042	0.007	0.353
q_1_1_l2_ged_dummy_os	0.3697	0.039	9.425	0.000	0.293	0.447
q_1_1_l3_ged_dummy_os	0.2248	0.038	5.970	0.000	0.151	0.299
l1_ged_dummy_sb	-0.0511	0.088	-0.578	0.563	-0.224	0.122
l1_ged_dummy_ns	0.0186	0.189	0.099	0.921	-0.352	0.389
l1_ged_dummy_os	-0.0817	0.081	-1.011	0.312	-0.240	0.077
l1_acled_dummy_pr	-0.0657	0.099	-0.665	0.506	-0.259	0.128
decay_l2_cw_ged_dummy_sb_0	1.8586	0.073	25.428	0.000	1.715	2.002
decay_l2_cw_ged_dummy_ns_0	1.0281	0.108	9.524	0.000	0.817	1.240
decay_l2_cw_ged_dummy_os_0	3.7406	0.081	46.009	0.000	3.581	3.900
decay_l2_cw_acled_dummy_pr_0	1.4162	0.072	19.700	0.000	1.275	1.557
q_1_1_l1_ged_dummy_sb	0.1754	0.035	4.989	0.000	0.107	0.244
q_1_1_l1_ged_dummy_ns	0.2620	0.077	3.385	0.001	0.110	0.414
q_1_1_l1_ged_dummy_os	0.4735	0.039	12.270	0.000	0.398	0.549
q_1_1_l1_acled_dummy_pr	0.0269	0.035	0.776	0.438	-0.041	0.095
Intercept	-5.0374	0.023	-218.501	0.000	-5.083	-4.992

4.23.4 pr_fcast

Dep. Variable:		acled_dummy_pr	No. Observations:		296508	
Model:		Logit	Df Residuals:		296482	
Method:		MLE	Df Model:		25	
Date:		Thu, 04 Oct 2018	Pseudo R-squ.:		0.5182	
Time:		21:47:48	Log-Likelihood:		-38005.	
converged:		True	LL-Null:		-78874.	
	coef	std err	z	P> z	[0.025	0.975]
l2_acled_dummy_pr	-0.1426	0.039	-3.650	0.000	-0.219	-0.066
l3_acled_dummy_pr	0.1138	0.039	2.888	0.004	0.037	0.191
l4_acled_dummy_pr	0.1365	0.039	3.460	0.001	0.059	0.214
l5_acled_dummy_pr	0.1580	0.039	4.016	0.000	0.081	0.235
l6_acled_dummy_pr	0.2898	0.040	7.267	0.000	0.212	0.368
l7_acled_dummy_pr	0.3722	0.040	9.301	0.000	0.294	0.451
l8_acled_dummy_pr	0.3617	0.041	8.877	0.000	0.282	0.442
l9_acled_dummy_pr	0.3864	0.041	9.414	0.000	0.306	0.467
l10_acled_dummy_pr	0.5078	0.042	12.138	0.000	0.426	0.590
l11_acled_dummy_pr	0.5831	0.042	13.956	0.000	0.501	0.665
l12_acled_dummy_pr	0.4902	0.042	11.568	0.000	0.407	0.573
q.1.1.l2_acled_dummy_pr	0.2138	0.021	10.197	0.000	0.173	0.255
q.1.1.l3_acled_dummy_pr	0.1363	0.020	6.711	0.000	0.096	0.176
l1_ged_dummy_sb	-0.0165	0.114	-0.145	0.885	-0.240	0.207
l1_ged_dummy_ns	-0.1102	0.166	-0.665	0.506	-0.435	0.215
l1_ged_dummy_os	-0.2503	0.127	-1.979	0.048	-0.498	-0.002
l1_acled_dummy_pr	-0.2057	0.039	-5.234	0.000	-0.283	-0.129
decay.l2.cw.ged_dummy_sb_0	0.6647	0.075	8.845	0.000	0.517	0.812
decay.l2.cw.ged_dummy_ns_0	0.8001	0.090	8.921	0.000	0.624	0.976
decay.l2.cw.ged_dummy_os_0	0.6289	0.079	7.913	0.000	0.473	0.785
decay.l2.cw.acled_dummy_pr_0	4.4122	0.040	109.789	0.000	4.333	4.491
q.1.1.l1.ged_dummy_sb	-0.0853	0.043	-1.982	0.047	-0.170	-0.001
q.1.1.l1.ged_dummy_ns	0.0839	0.065	1.291	0.197	-0.043	0.211
q.1.1.l1.ged_dummy_os	-0.0232	0.048	-0.487	0.626	-0.116	0.070
q.1.1.l1.acled_dummy_pr	0.2814	0.020	14.002	0.000	0.242	0.321
Intercept	-4.0933	0.015	-276.118	0.000	-4.122	-4.064

4.23.5 sb_eval

Dep. Variable:		ged_dummy_sb	No. Observations:		236033	
Model:		Logit	Df Residuals:		236007	
Method:		MLE	Df Model:		25	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.4700	
Time:		02:04:08	Log-Likelihood:		-17072.	
converged:		True	LL-Null:		-32209.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_sb	-0.2005	0.070	-2.852	0.004	-0.338	-0.063
l3_ged_dummy_sb	-0.0486	0.071	-0.688	0.492	-0.187	0.090
l4_ged_dummy_sb	0.0836	0.070	1.187	0.235	-0.054	0.222
l5_ged_dummy_sb	-0.1186	0.072	-1.643	0.100	-0.260	0.023
l6_ged_dummy_sb	0.1740	0.072	2.418	0.016	0.033	0.315
l7_ged_dummy_sb	0.1087	0.073	1.493	0.135	-0.034	0.251
l8_ged_dummy_sb	0.3093	0.075	4.142	0.000	0.163	0.456
l9_ged_dummy_sb	0.2239	0.075	2.973	0.003	0.076	0.371
l10_ged_dummy_sb	0.3325	0.076	4.395	0.000	0.184	0.481
l11_ged_dummy_sb	0.2212	0.077	2.862	0.004	0.070	0.373
l12_ged_dummy_sb	0.2298	0.078	2.928	0.003	0.076	0.384
q_1_1_l2_ged_dummy_sb	0.2860	0.036	7.984	0.000	0.216	0.356
q_1_1_l3_ged_dummy_sb	0.3104	0.035	8.776	0.000	0.241	0.380
l1_ged_dummy_sb	-0.2333	0.070	-3.318	0.001	-0.371	-0.096
l1_ged_dummy_ns	-0.4807	0.271	-1.771	0.077	-1.013	0.051
l1_ged_dummy_os	0.0283	0.116	0.243	0.808	-0.200	0.256
l1_acled_dummy_pr	-0.1140	0.139	-0.818	0.413	-0.387	0.159
decay_l2_cw_ged_dummy_sb_0	4.4863	0.068	65.577	0.000	4.352	4.620
decay_l2_cw_ged_dummy_ns_0	1.2746	0.128	9.976	0.000	1.024	1.525
decay_l2_cw_ged_dummy_os_0	1.2654	0.079	16.119	0.000	1.112	1.419
decay_l2_cw_acled_dummy_pr_0	1.0519	0.088	11.994	0.000	0.880	1.224
q_1_1_l1_ged_dummy_sb	0.4913	0.035	13.975	0.000	0.422	0.560
q_1_1_l1_ged_dummy_ns	0.0158	0.112	0.141	0.888	-0.204	0.235
q_1_1_l1_ged_dummy_os	0.2536	0.044	5.742	0.000	0.167	0.340
q_1_1_l1_acled_dummy_pr	-0.0736	0.054	-1.362	0.173	-0.180	0.032
Intercept	-4.7516	0.022	-214.149	0.000	-4.795	-4.708

4.23.6 ns_eval

Dep. Variable:		ged_dummy_ns	No. Observations:		231437	
Model:		Logit	Df Residuals:		231411	
Method:		MLE	Df Model:		25	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.3235	
Time:		02:16:54	Log-Likelihood:		-8066.3	
converged:		True	LL-Null:		-11923.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_ns	0.2008	0.134	1.498	0.134	-0.062	0.463
l3_ged_dummy_ns	-0.0853	0.133	-0.642	0.521	-0.346	0.175
l4_ged_dummy_ns	0.0331	0.135	0.244	0.807	-0.232	0.298
l5_ged_dummy_ns	0.0712	0.143	0.498	0.618	-0.209	0.351
l6_ged_dummy_ns	-0.0378	0.146	-0.259	0.796	-0.324	0.248
l7_ged_dummy_ns	-0.0357	0.154	-0.232	0.816	-0.337	0.265
l8_ged_dummy_ns	0.3197	0.145	2.210	0.027	0.036	0.603
l9_ged_dummy_ns	0.3629	0.150	2.426	0.015	0.070	0.656
l10_ged_dummy_ns	0.3156	0.161	1.963	0.050	0.000	0.631
l11_ged_dummy_ns	0.3987	0.163	2.446	0.014	0.079	0.718
l12_ged_dummy_ns	0.4098	0.163	2.516	0.012	0.091	0.729
q_1_1_l2_ged_dummy_ns	0.7158	0.090	7.915	0.000	0.539	0.893
q_1_1_l3_ged_dummy_ns	0.3642	0.092	3.971	0.000	0.184	0.544
l1_ged_dummy_sb	-0.3431	0.216	-1.590	0.112	-0.766	0.080
l1_ged_dummy_ns	-0.2976	0.132	-2.252	0.024	-0.557	-0.039
l1_ged_dummy_os	0.2154	0.204	1.054	0.292	-0.185	0.616
l1_acled_dummy_pr	-0.2348	0.163	-1.437	0.151	-0.555	0.085
decay_l2_cw_ged_dummy_sb_0	1.1363	0.146	7.791	0.000	0.850	1.422
decay_l2_cw_ged_dummy_ns_0	4.9212	0.131	37.550	0.000	4.664	5.178
decay_l2_cw_ged_dummy_os_0	1.0768	0.146	7.400	0.000	0.792	1.362
decay_l2_cw_acled_dummy_pr_0	1.4236	0.116	12.320	0.000	1.197	1.650
q_1_1_l1_ged_dummy_sb	-0.1167	0.089	-1.307	0.191	-0.292	0.058
q_1_1_l1_ged_dummy_ns	0.9475	0.085	11.092	0.000	0.780	1.115
q_1_1_l1_ged_dummy_os	0.0241	0.084	0.287	0.774	-0.141	0.189
q_1_1_l1_acled_dummy_pr	0.2468	0.054	4.536	0.000	0.140	0.353
Intercept	-5.5570	0.033	-168.552	0.000	-5.622	-5.492

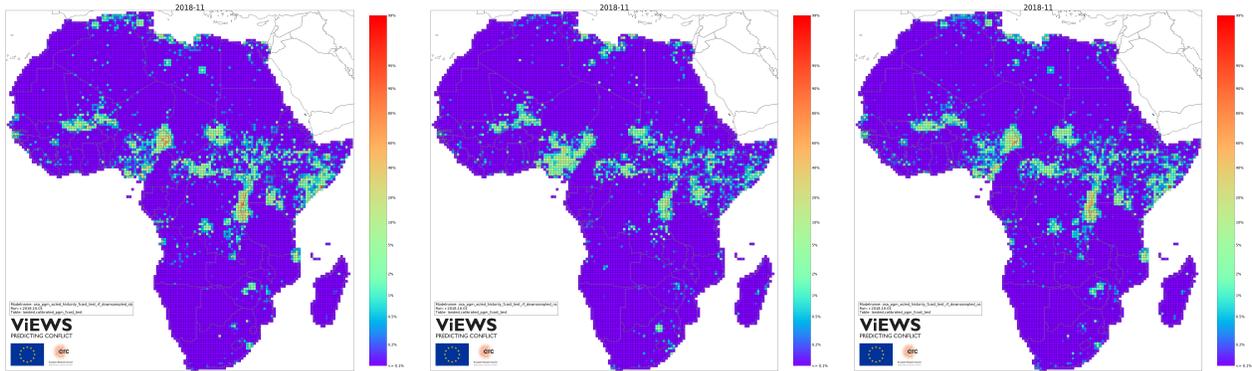
4.23.7 os_eval

Dep. Variable:		ged_dummy_os	No. Observations:		233592	
Model:		Logit	Df Residuals:		233566	
Method:		MLE	Df Model:		25	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.4351	
Time:		01:57:58	Log-Likelihood:		-12524.	
converged:		True	LL-Null:		-22170.	
	coef	std err	z	P> z	[0.025	0.975]
l2_ged_dummy_os	-0.0100	0.092	-0.108	0.914	-0.190	0.170
l3_ged_dummy_os	-0.0793	0.093	-0.849	0.396	-0.262	0.104
l4_ged_dummy_os	-0.0449	0.095	-0.470	0.638	-0.232	0.142
l5_ged_dummy_os	-0.0988	0.092	-1.073	0.283	-0.279	0.082
l6_ged_dummy_os	0.2509	0.095	2.643	0.008	0.065	0.437
l7_ged_dummy_os	-0.0199	0.099	-0.201	0.841	-0.214	0.174
l8_ged_dummy_os	0.0669	0.101	0.663	0.507	-0.131	0.264
l9_ged_dummy_os	0.0885	0.100	0.884	0.377	-0.108	0.285
l10_ged_dummy_os	0.0561	0.102	0.550	0.582	-0.144	0.256
l11_ged_dummy_os	0.5273	0.102	5.162	0.000	0.327	0.727
l12_ged_dummy_os	0.1605	0.105	1.531	0.126	-0.045	0.366
q_1_1_l2_ged_dummy_os	0.4251	0.047	9.122	0.000	0.334	0.516
q_1_1_l3_ged_dummy_os	0.3143	0.045	6.945	0.000	0.226	0.403
l1_ged_dummy_sb	-0.1274	0.102	-1.250	0.211	-0.327	0.072
l1_ged_dummy_ns	0.0434	0.234	0.186	0.853	-0.415	0.502
l1_ged_dummy_os	-0.0985	0.094	-1.050	0.294	-0.282	0.085
l1_acled_dummy_pr	-0.1944	0.134	-1.447	0.148	-0.458	0.069
decay_l2_cw_ged_dummy_sb_0	1.9716	0.082	23.924	0.000	1.810	2.133
decay_l2_cw_ged_dummy_ns_0	1.2451	0.128	9.710	0.000	0.994	1.496
decay_l2_cw_ged_dummy_os_0	3.7704	0.092	40.932	0.000	3.590	3.951
decay_l2_cw_acled_dummy_pr_0	1.4512	0.090	16.060	0.000	1.274	1.628
q_1_1_l1_ged_dummy_sb	0.1369	0.040	3.414	0.001	0.058	0.216
q_1_1_l1_ged_dummy_ns	0.3818	0.100	3.809	0.000	0.185	0.578
q_1_1_l1_ged_dummy_os	0.5606	0.045	12.545	0.000	0.473	0.648
q_1_1_l1_acled_dummy_pr	0.0254	0.056	0.456	0.649	-0.084	0.135
Intercept	-5.1111	0.026	-194.769	0.000	-5.162	-5.060

4.23.8 pr_eval

Dep. Variable:		acled_dummy_pr	No. Observations:		240197	
Model:		Logit	Df Residuals:		240171	
Method:		MLE	Df Model:		25	
Date:		Thu, 27 Sep 2018	Pseudo R-squ.:		0.4810	
Time:		02:21:20	Log-Likelihood:		-24464.	
converged:		True	LL-Null:		-47134.	
	coef	std err	z	P> z	[0.025	0.975]
l2_acled_dummy_pr	-0.1007	0.054	-1.851	0.064	-0.207	0.006
l3_acled_dummy_pr	0.0871	0.055	1.592	0.111	-0.020	0.194
l4_acled_dummy_pr	0.1478	0.055	2.701	0.007	0.041	0.255
l5_acled_dummy_pr	0.1858	0.055	3.350	0.001	0.077	0.295
l6_acled_dummy_pr	0.2629	0.056	4.732	0.000	0.154	0.372
l7_acled_dummy_pr	0.4434	0.056	7.862	0.000	0.333	0.554
l8_acled_dummy_pr	0.3750	0.057	6.555	0.000	0.263	0.487
l9_acled_dummy_pr	0.4456	0.059	7.615	0.000	0.331	0.560
l10_acled_dummy_pr	0.5703	0.059	9.605	0.000	0.454	0.687
l11_acled_dummy_pr	0.6315	0.061	10.409	0.000	0.513	0.750
l12_acled_dummy_pr	0.5090	0.061	8.354	0.000	0.390	0.628
q.1.1.l2_acled_dummy_pr	0.2868	0.032	8.831	0.000	0.223	0.350
q.1.1.l3_acled_dummy_pr	0.1787	0.031	5.773	0.000	0.118	0.239
l1_ged_dummy_sb	-0.2719	0.141	-1.931	0.053	-0.548	0.004
l1_ged_dummy_ns	-0.6543	0.211	-3.096	0.002	-1.069	-0.240
l1_ged_dummy_os	-0.3787	0.162	-2.341	0.019	-0.696	-0.062
l1_acled_dummy_pr	-0.2237	0.055	-4.090	0.000	-0.331	-0.116
decay.12.cw.ged_dummy_sb_0	0.8203	0.093	8.844	0.000	0.639	1.002
decay.12.cw.ged_dummy_ns_0	1.0617	0.112	9.462	0.000	0.842	1.282
decay.12.cw.ged_dummy_os_0	0.9001	0.098	9.225	0.000	0.709	1.091
decay.12.cw.acled_dummy_pr_0	4.5793	0.053	86.132	0.000	4.475	4.684
q.1.1.l1.ged_dummy_sb	0.0030	0.053	0.056	0.955	-0.102	0.108
q.1.1.l1.ged_dummy_ns	0.1098	0.090	1.226	0.220	-0.066	0.285
q.1.1.l1.ged_dummy_os	0.0107	0.062	0.172	0.864	-0.112	0.133
q.1.1.l1.acled_dummy_pr	0.4126	0.031	13.188	0.000	0.351	0.474
Intercept	-4.3257	0.018	-238.342	0.000	-4.361	-4.290

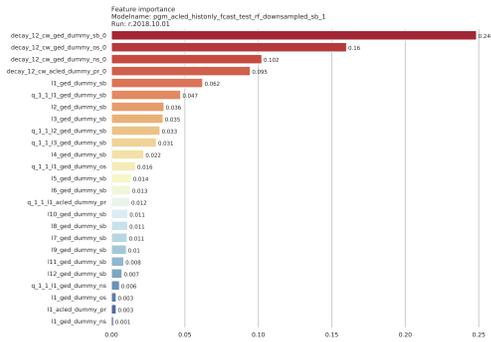
4.24 osa_pgm_acled_histonly_rf



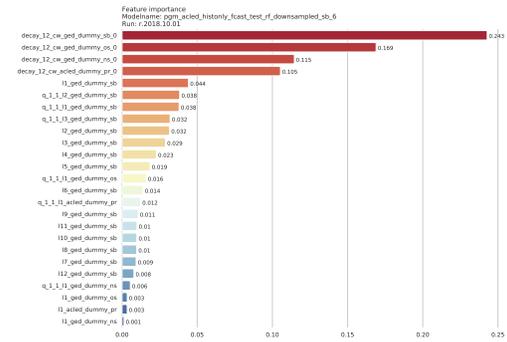
(a) State-based conflict (sb), (b) Non-state conflict (ns), October 2018 (c) One-sided violence (os), October 2018

Figure 101: Forecasts for October 2018

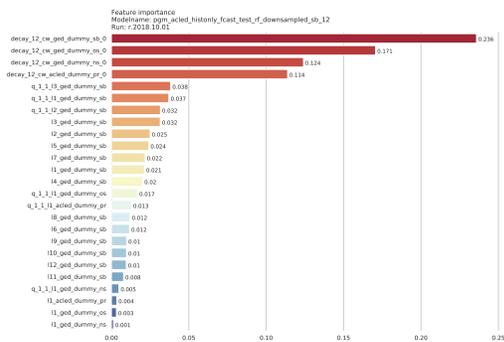
4.24.1 sb_fcst



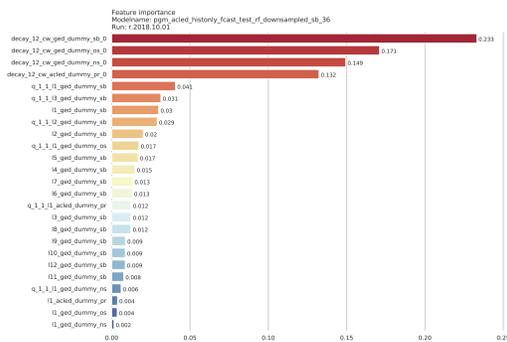
(a) 1 month



(b) 6 months

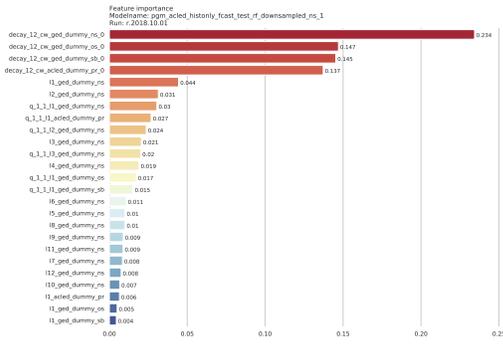


(c) 12 months

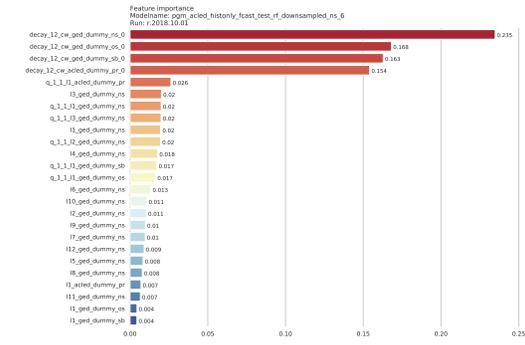


(d) 36 months

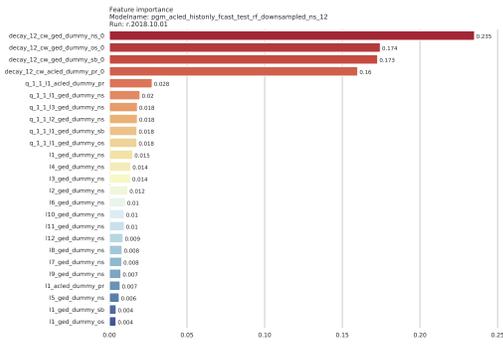
4.24.2 ns_fcst



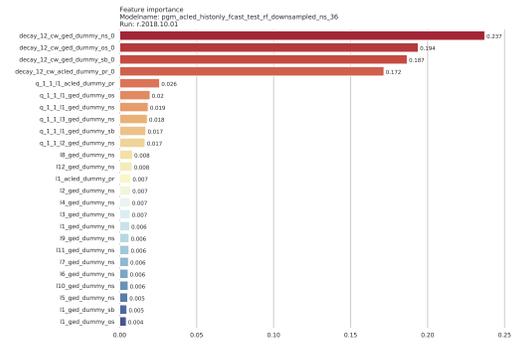
(a) 1 month



(b) 6 months

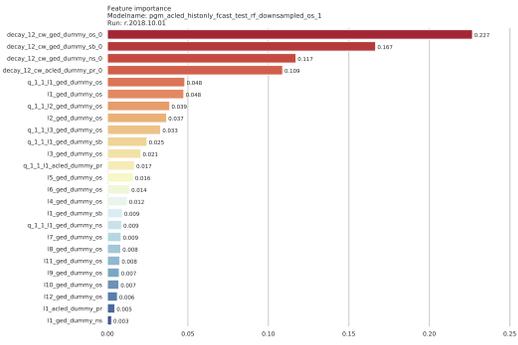


(c) 12 months

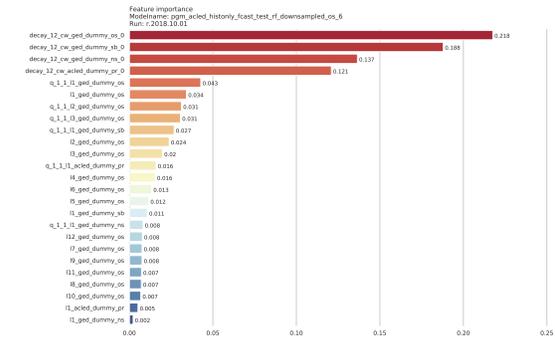


(d) 36 months

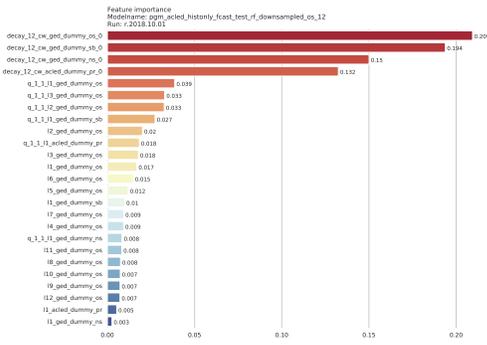
4.24.3 os_fcst



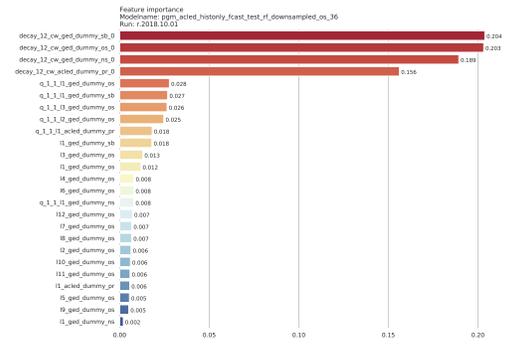
(a) 1 month



(b) 6 months

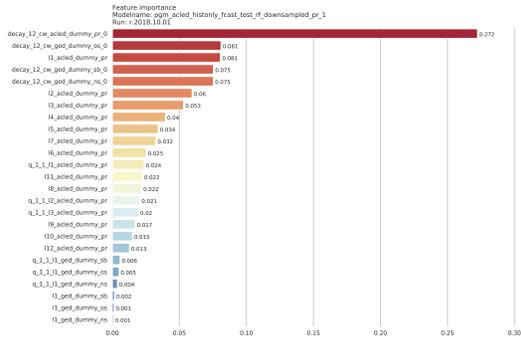


(c) 12 months

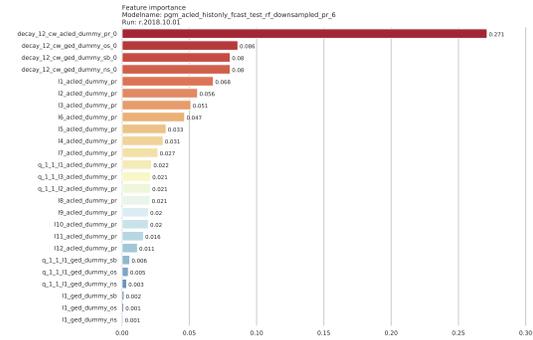


(d) 36 months

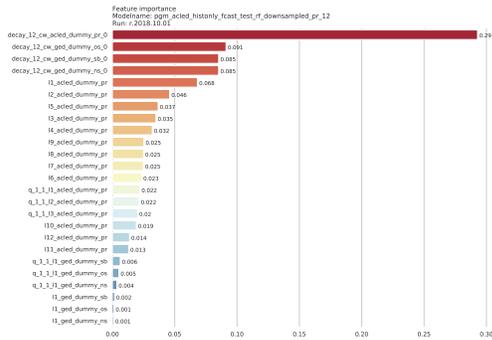
4.24.4 pr_fcst



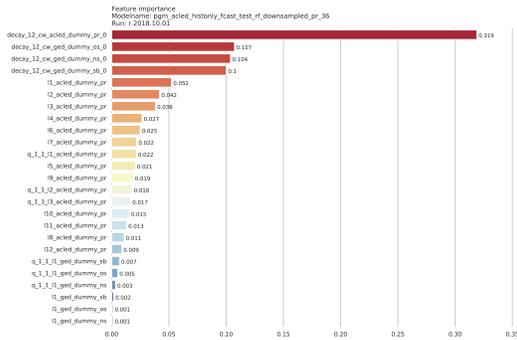
(a) 1 month



(b) 6 months

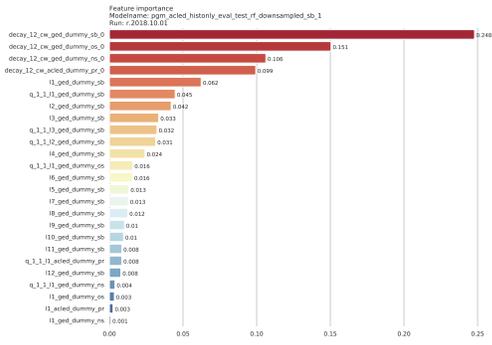


(c) 12 months

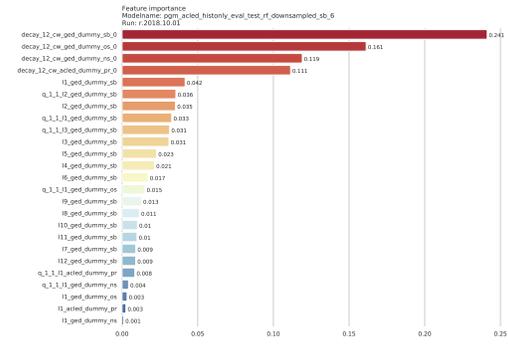


(d) 36 months

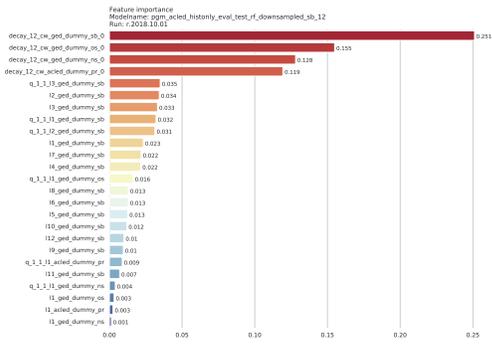
4.24.5 sb_eval



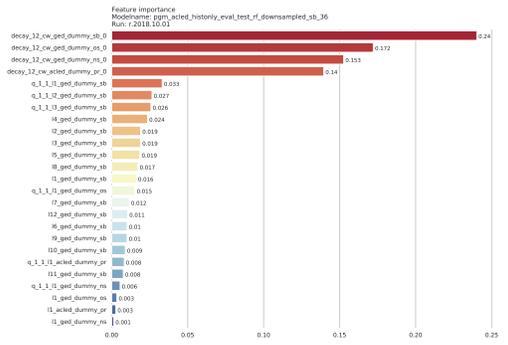
(a) 1 month



(b) 6 months

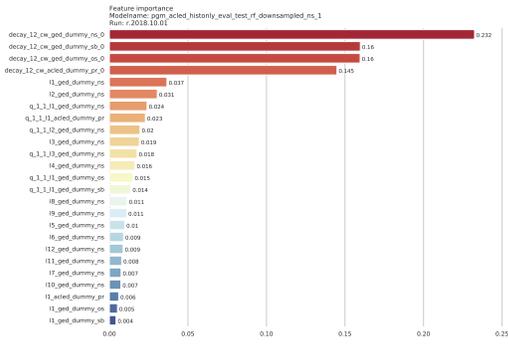


(c) 12 months

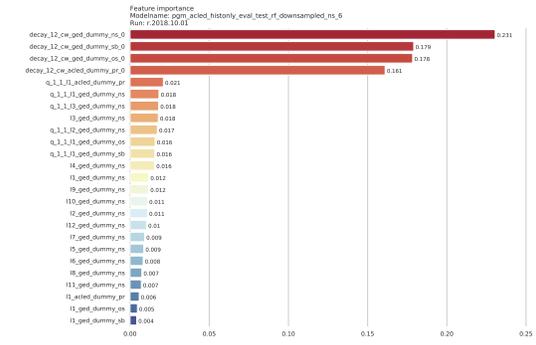


(d) 36 months

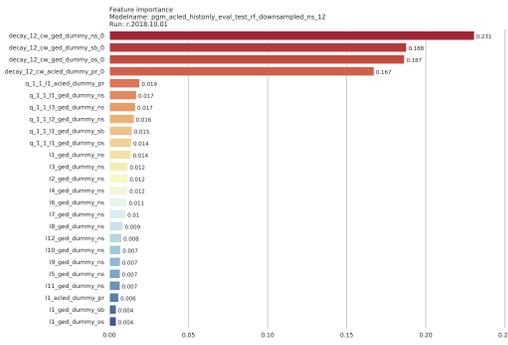
4.24.6 ns_eval



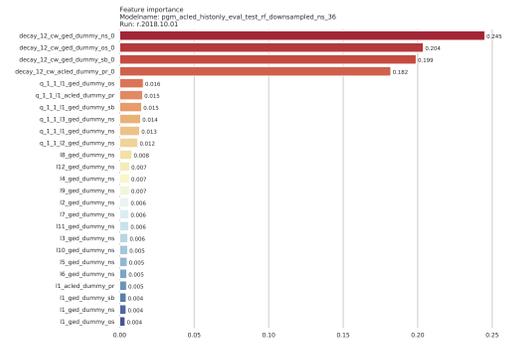
(a) 1 month



(b) 6 months

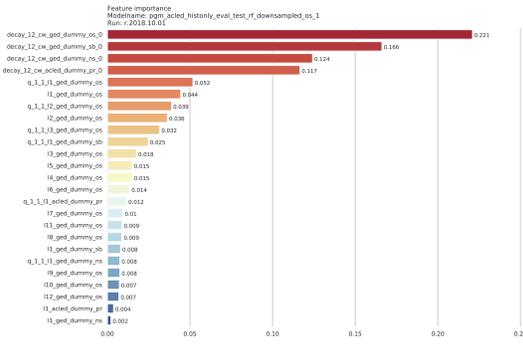


(c) 12 months

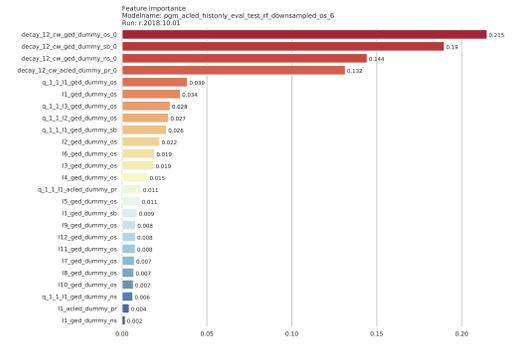


(d) 36 months

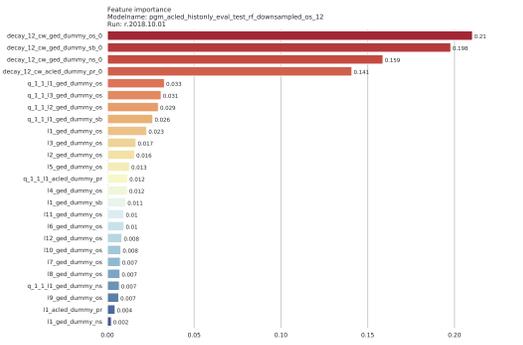
4.24.7 os_eval



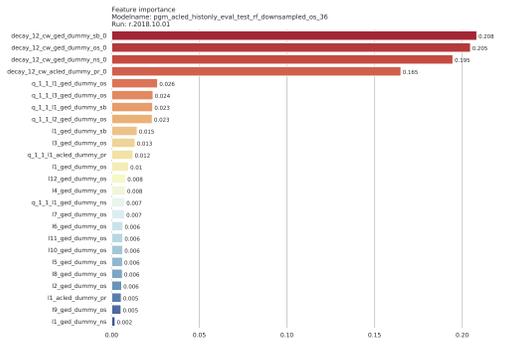
(a) 1 month



(b) 6 months

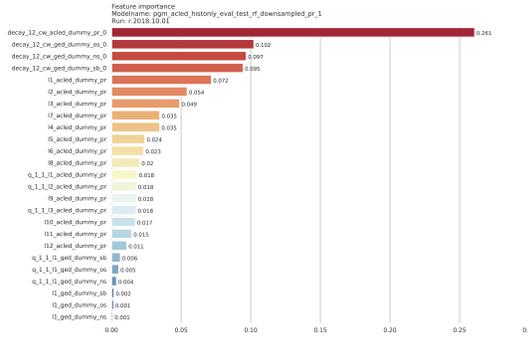


(c) 12 months

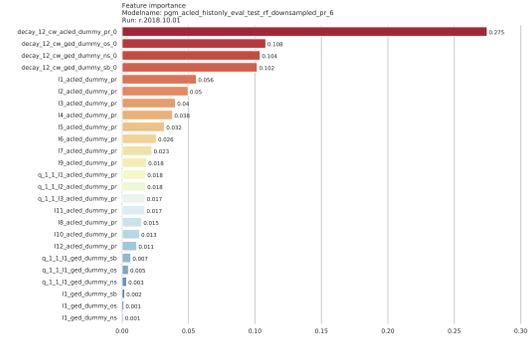


(d) 36 months

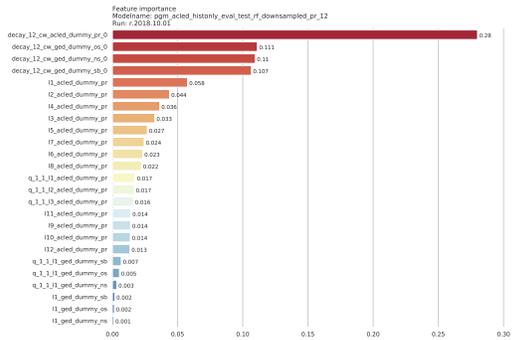
4.24.8 pr_eval



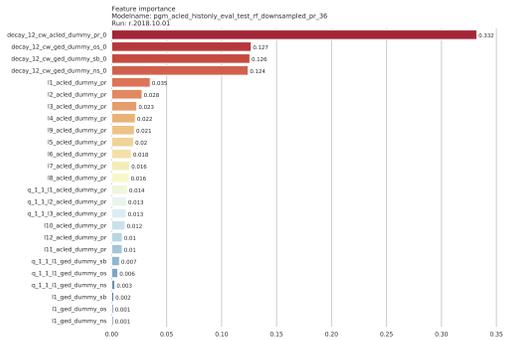
(a) 1 month



(b) 6 months



(c) 12 months



(d) 36 months